



Sistema per serramenti
a battente

PLANET 45

alsistem.com

Sistemi a design minimale



3G
SYSTEM REVOLUTION

Sistema per serramenti a taglio termico con tripla guarnizione dal design minimale con nodo laterale di 75mm

Minimal design system for thermal break frames with triple rebate sealing system. Architectural show lateral section 75mm

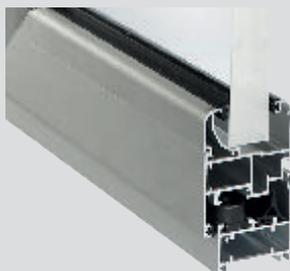


panoramico

Sistema scorrevole dal design minimale, con nodo centrale di 30mm

Minimal design sliding system. Architectural show central section 30mm

Sistemi a battente



PLANET 45

Sistema per serramenti non isolati ad elevata ermeticità

Weatherproof European chamber non-insulated window and door systems



PLANET 50 gplclass
62 gplclass
72 gplclass
neo gplclass

Sistema a taglio termico per serramenti con eccellenti valori termici, acustici e fisico meccanici

Planet top-range thermal break system with excellent thermal- and acoustic-proofness and physical-mechanical properties

Sistemi oscuranti



MATIC 50 gplclass
62 gplclass
72 gplclass

Sistemi a taglio termico per serramenti con ferramenta perimetrale ed elevate prestazioni termiche ed acustiche

Thermal break systems with perimeter hardware for high-performance thermal and acoustic-proof windows and doors



PLANET 45 gplclass
persiana
venere pro

Persiane in alluminio a con sistema di tenuta a doppio battente ed esclusivo sistema orientabile Venere Pro

European chamber aluminum shutters with double rebated sealing and unique Venere Pro pivot system

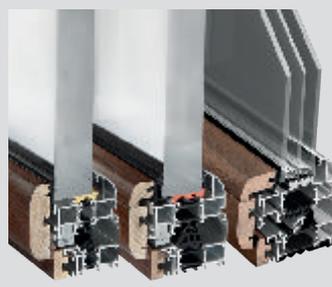
Sistemi a battente alluminio-legno



NATHURA 59

Sistema alluminio/legno per serramenti non isolati ad elevata ermeticità

Aluminum/wood system for weatherproof, non-insulated window and door frames



NATHURA 70
82
92

Sistemi alluminio/legno a taglio termico con ferramenta perimetrale ed elevatissime prestazioni di isolamento termico

Aluminum/wood thermal break systems with perimeter hardware and extra high-performance thermal insulation

Sistemi scorrevoli e alzanti alluminio-legno



SLIDE WOOD 160

Sistema scorrevole alzante a taglio termico alluminio-legno con valori eccellenti di trasmittanza termica, tenuta all'acqua, di portata e sicurezza all'effrazione

Sliding thermal break system, aluminum-wood, with excellent ratings of thermal transmittance, water sealing, load-bearing and anti-intrusion



TOP SLIDE WOOD 214

Sistema a taglio termico alluminio-legno per serramenti alzanti di elevate dimensioni e peso

Thermal break system, aluminum-wood, for large-size and heavyweight lift-and-slide window and door frames



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Traccia per capitolato

Infissi in alluminio a camera europea realizzati con la serie Planet 45 con sistema di tenuta a giunto aperto con pinna centrale di forma tubolare. I profilati sono estrusi in lega di alluminio 6060 (EN 573-3), stato di forniture T5 e T6 conformi alla norma EN 755-2 con tolleranze dimensionali e spessori conformi alla norma UNI 12020-2. Il telaio fisso avrà profondità 45mm mentre le parti apribili avranno una profondità di 53mm. Il sistema di tenuta sarà a giunto aperto con guarnizione centrale, in EPDM, avente un'aletta di tenuta che sormonta di 4,5mm il piano inclinato della parte apribile, la guarnizione centrale dovrà essere raccordata nei giunti con gli opportuni angoli vulcanizzati. I profili avranno linee dritte o arrotondate internamente ed esternamente con la possibilità di accogliere soluzioni di fermavetri con taglio a 45° oppure 90°; nel caso di taglio a 90° con fermavetri arrotondati si potranno utilizzare gli appositi angoli di raccordo in alluminio pressofuso. La sigillatura dei vetri dovrà avvenire secondo le indicazioni riportate nel catalogo e solo ed esclusivamente con guarnizioni fermavetro originali. Appositi fori di drenaggio dovranno essere previsti sul telaio fisso e su quello mobile al fine di permettere il corretto drenaggio del serramento. La scelta dei profili sarà in funzione delle caratteristiche geometriche e dimensionali dell'infisso, della portata degli accessori e dei carichi di esercizio. Gli accessori utilizzati nella fabbricazione delle diverse tipologie dovranno essere solo ed esclusivamente quelli originali studiati appositamente per il sistema, riportati a catalogo e distribuiti dai licenziatari ALSistem, l'utilizzo di prodotti diversi da quelli indicati oppure il montaggio parziale o scorretto degli stessi comporterà la nullità dei certificati di prova e garanzia. La fabbricazione e la posa dovranno avvenire secondo i criteri di lavoro indicati da ALSistem. L'assemblaggio dei profili avverrà con squadrette in alluminio pressofuso multifunzione, i tagli dovranno essere protetti a mezzo sigillanti neutri.

La protezione e finitura dei profilati avverrà a mezzo dei normali trattamenti di superficie, ossidazione anodica conforme al marchio di qualità "Qualanod" oppure a mezzo di verniciatura con polveri poliesteri termoindurenti e polimerizzate in forno a temperature comprese tra 185°C e 195°C, in conformità del marchio di qualità "Qualicoat".

Materiali

L'esecuzione dei serramenti è in lega d'alluminio EN AW 6060 sotto forma di profilati estrusi come indicato dalla disposizione normativa EN 755-3. Lo stato di forniture è in classe T5 e T6 secondo norma EN 755-2. Le tolleranze dimensionali sono conformi alla UNI 12020-2. Lega secondo la formula ALSistem.

Caratteristiche tecniche e dimensionali

Aspetto visivo esterno: complanare

Aspetto visivo interno: complanare o sormonto di 8mm

Profilati: estrusi in lega leggera 6060 (EN 573-3) anodizzabili e verniciabili. Lega secondo la formula ALSistem.

Sistema di tenuta: giunto aperto con precamera o doppia battuta, con guarnizioni in EPDM

Sistema di accessori: originali ALSistem

Distanza telaio anta: 11,5mm

Sovrapposizione battuta anta su telaio: 6mm

Altezza battuta vetro: 22mm

Fuga tra i profili: 5mm

Profondità telaio: 45mm

Profondità anta: 53mm

Tubolarità profili finestra: 15mm

Tubolarità profili porta: 36,4mm

Fissaggio vetri: con fermavetri lisci, raggiati, smussati o modanati

Spazio vetro o pannello nei telai fissi: fino a 38mm

Spazio vetro o pannello nelle ante: da 7,5mm a 45,5mm

Protezione superficiale

La protezione dei profilati potrà essere effettuata mediante ossidazione anodica con classe di spessore >15 micron, come da norma UNI 10681, oppure mediante verniciatura a polveri poliesteri termoindurenti e polimerizzate in forno nel rispetto delle procedure di qualità “Qualicoat” e delle disposizioni UNI EN 12206-1.

Resistenza della finitura

La finitura superficiale non deve subire corrosioni o alterazioni di aspetto per un periodo di tempo adeguato alla vita del manufatto. Le caratteristiche sufficienti per assicurarne il comportamento in funzione del tipo di ambiente sono specificate dalle norme UNI 10681 per l'ossidazione e UNI EN 12206-1 per la verniciatura, ricordando che i principali fattori che influiscono sulla resistenza all'ambiente sono la vicinanza al mare, l'inquinamento atmosferico, la manutenzione e la pulizia anche dalla pioggia.

Sicurezza

Al fine di non causare danni fisici o lesioni agli utenti, i serramenti devono essere concepiti secondo le prescrizioni della normativa in materia di sicurezza D.Lgs. 81/2008 e UNI 7697 ed utilizzare secondo quanto indicato nel nostro “manuale uso e manutenzione” dei serramenti e schermi oscuranti.

Caratteristiche della vetratura

La scelta della vetratura deve essere effettuata secondo criteri prestazionali per rispondere ai requisiti di risparmio energetico, isolamento acustico, controllo della radiazione solare, sicurezza. Riferimento norme: UNI EN ISO 1140-3, UNI EN 12488, UNI EN 572-1, UNI EN 12758, UNI EN 12150-1, UNI 11463 DM 2 Aprile 1998, Legge 90/2013 e dei requisiti minimi.

Guarnizioni

Le guarnizioni dovranno essere esclusivamente quelle originali studiate per il sistema, a garanzia delle prestazioni dello stesso e rispondenti alle norme di riferimento UNI 3952, UNI 12365-1.

Sigillanti

I sigillanti devono corrispondere a quanto prescritto dalle norme di riferimento UNI EN ISO 11600. Tali materiali non devono corrodere le parti in alluminio e sue leghe con cui vengono a contatto, pertanto dovranno essere neutri.

Accessori

Gli accessori dovranno essere quelli originali prodotti per la serie e rispondenti ai criteri indicati nelle norme UNI EN 13126-1/19 e alle disposizioni normative in materia di sicurezza DL 81/2008.

Prestazioni

La serie Planet 45 risponde ai requisiti della norma UNI EN 12207, UNI EN 12208, UNI EN 12210.

Resistenza meccanica

Il sistema e gli accessori saranno resistenti alle sollecitazioni d'uso secondo i limiti stabiliti dalle norme UNI 12365-1 e UNI EN 13126-1/19.

Isolamento acustico

La scelta della classe di isolamento acustico di un serramento va correlata alla destinazione d'uso del locale nel quale l'infisso dovrà essere inserito ed al livello del rumore esterno; il comportamento del serramento in opera è influenzato da fattori che non è possibile definire a priori (h dal suolo, orientamento delle sorgenti sonore, ecc...). Il potere fonoisolante potrà essere quindi stimato con buona approssimazione, in base alla permeabilità all'aria del serramento con un minimo di valore di permeabilità pari a 2, ed al potere fonoisolante del vetro. Secondo la metodologia descritta nella norma di riferimento UNI EN ISO 1140-3.

Isolamento termico

La scelta delle prestazioni di isolamento termico deve essere operata in base alle esigenze di risparmio energetico secondo la Legge 10/91, il DL 192/05 e aggiornamento DL 311/06 ed alle esigenze di benessere ambientale o riferimento alla norma UNI EN ISO 10077-1:07. Si può calcolare la trasmittanza termica del serramento a partire dai valori di trasmittanza dei profili e delle superfici secondo norma UNI EN ISO 10077-1 con la formula:

$$U_w = (A_g \cdot U_g + A_f \cdot U_f + I_g \cdot \psi) \div (A_g + A_f)$$

Certificazioni

Sarà possibile richiedere al costruttore dei serramenti o, in mancanza, al produttore dei profilati, fotocopia dei rapporti di prova relative a determinate prestazioni.

Marcatura CE UNI EN 14351-1

La marcatura CE è OBBLIGATORIA e costituisce il sistema al quale tutti i Costruttori di serramenti devono uniformarsi per poter vendere i propri prodotti nell'Unione Europea. Spetta al Costruttore, o al suo rappresentante, con sede nella EEA [Area Economica Europea] la responsabilità di apporre la marcatura CE sul prodotto, su un'etichetta applicata al prodotto, sul suo imballaggio o sui documenti commerciali di accompagnamento.

La norma UNI EN 14351-1 si applica alle finestre, porte finestre, alle porte pedonali esterne, alle porte esterne sulle vie di fuga, alle finestre da tetto/lucernari (incluse quelle resistenti al fuoco proveniente dall'esterno), alle finestre a nastro, alle finestre accoppiate e alle finestre doppie. Tali serramenti possono essere a una o più ante, con ante mobili e parti fisse, con apertura verso l'interno o verso l'esterno, a movimentazione manuale oppure automatizzata, interamente oppure parzialmente vetrati, con o senza telaio di contenimento della vetratura, con o senza dispositivi di schermatura incorporati.

La norma UNI EN 14351-1 non è applicabile a:

- finestre, portefinestre e porte pedonali con caratteristiche di resistenza al fuoco e tenuta al fumo
- alle porte interne (EN 14351-2)
- alle chiusure oscuranti esterne (UNI EN 13659)
- alle porte girevoli
- alle finestre poste sulle vie di fuga

La norma contempla determinati requisiti volontari e/o obbligatori:

- Tenuta all'acqua
- Rilascio di sostanze pericolose
- Resistenza all'urto
- Resistenza al vento
- Capacità portante dei dispositivi di sicurezza
- Isolamento acustico
- Isolamento termico
- Proprietà radianti delle vetrazioni (trasmissione Luminosa)
- Permeabilità all'aria

Piano di Controllo di Produzione (FPC)

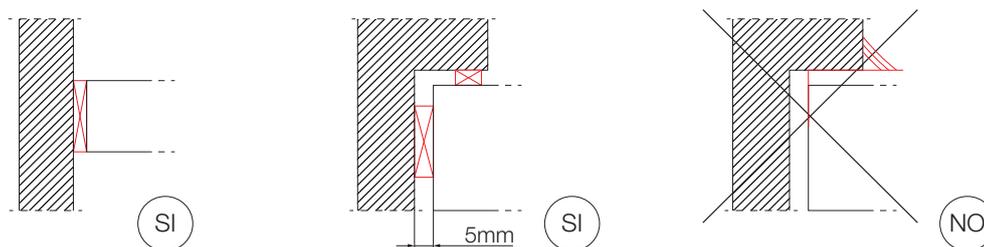
Il controllo di produzione in fabbrica è un sistema esercitato dal costruttore sotto propria responsabilità, al fine di assicurare che le caratteristiche costruttive del prodotto siano mantenute nel tempo entro certi limiti. Il costruttore dovrà stabilire delle procedure documentate, che indichino le modalità che, il personale addetto ai vari controlli, dovrà effettuare per monitorare con frequenza ed esattezza il processo assegnatogli. Il costruttore è tenuto a garantire la rintracciabilità del prodotto attraverso l'uso di codici o altro. Mediante uno schema, il produttore è inoltre tenuto a comunicare al committente indicazioni circa l'utilizzo, la movimentazione, l'installazione, la manutenzione e pulizia del prodotto. Non sono invece analizzate le caratteristiche dell'installazione, ma suggeriamo caldamente di fare riferimento alle indicazioni riportate sui nostri manuali di posa "Thermoposa".

Test di Laboratorio (ITT)

Le caratteristiche del serramento sono valutate sul prodotto finito completo di ferramenta, vetrocamera, pannelli e di tutti gli accessori e trattamenti che lo rendono pronto all'uso. Il costruttore che lo richiama può ottenere i risultati delle prove (ITT) sui serramenti direttamente dall'ALsystem oppure dal licenziatario di zona, la quale cede il diritto d'uso dei risultati degli attestati dei propri ITT ricevuti dal Laboratorio, tramite un contratto fra le parti a "Cascading" (Cascata). Il costruttore ha la responsabilità della conformità del prodotto alle norme europee indicate sul progetto di norma e recepite dalle norme nazionali (norme UNI).

Posa in opera

E' molto importante, per ottenere un buon funzionamento del serramento, curare scrupolosamente la verticalità e il livellamento dell'infisso, dopodiché eseguire la sigillatura usando nastri autoespandenti Thermoposa seguendo i consigli dell'esempio sotto riportato, Controllare inoltre che le aperture siano caricate sufficientemente (spessorando il vetro di 1-2 mm fuori quadro), affinché, con l'assestamento dei materiali, non si verifichino delle intolleranze di funzionamento nel tempo.



Inoltre, fondamentale è posare il serramento in modo corretto; per questo ALsystem consiglia di utilizzare il sistema **Thermoposa** con il quale si garantisce un sistema di posa del serramento ad alta efficienza termo-acustica. Grazie a questo sistema garantiamo l'adeguato isolamento del foro finestra ed un efficiente messa in opera del serramento nelle nuove costruzioni e nelle ristrutturazioni. Sono pertanto consigliati 3 principali interventi: corretta posa in opera del serramento, coibentazione del cassonetto, quando presente, taglio del marmo, se passante. Per maggiori indicazioni invitiamo a collegarsi a Thermoposa.com.

Manutenzione delle superfici in alluminio

A seguito dei forti tassi di inquinamento oramai raggiunti in tutti i paesi, specialmente nei grossi centri urbani e nelle zone costiere battute dal vento marino, è molto importante che le superfici in alluminio, a contatto con l'atmosfera, siano periodicamente pulite. Il nostro intento è quello di sensibilizzare il costruttore dei serramenti affinché possa di riflesso consigliare IL CLIENTE nel migliore dei modi.

E' buona norma tenere in considerazione 3 punti fondamentali:

- 1- quante volte deve essere eseguita l'operazione di pulizia nell'arco dell'anno
- 2- il periodo
- 3- il prodotto da usare

Ecco le risposte:

Il numero di interventi viene stabilito sulla base dello stato di inquinamento della zona in cui è ubicato il caseggiato, varia da 1 a 3 volte l'anno.

Il periodo può essere:

- a fine inverno
- a metà estate
- a metà autunno da scegliere a seconda del numero di interventi

Il prodotto per la pulizia è importante che sia neutro, un prodotto sbagliato potrebbe rovinare i materiali di diversa natura di cui è composto un serramento, (guarnizioni, sigillanti, marmi, ecc.....) e causare danni che potrebbero compromettere la funzionalità e la durata nel tempo dello stesso.

Le caratteristiche di tali prodotti assieme alla frequenza di pulizia da adottare sono definite nei progetti di norma UNIMET12.04.270 ed E12.04.277.0.

In mancanza di un prodotto neutro è preferibile utilizzare acqua tiepida con un panno non abrasivo.

Per una corretta installazione, manutenzione e pulizia dei serramenti, vi invitiamo inoltre a consultare le prescrizioni riportate sulle seguenti note tecniche Uncsaal, UX 42 guida alla posa in opera delle finestre ed UX 10 pulizia delle superfici di serramenti e facciate continue

Fasi di verniciatura

1. Il ciclo di verniciatura offre la possibilità di ottenere sugli infissi un eccellente rivestimento protettivo superficiale ed una maggiore vivacità del colore;
2. lo strato deve avere uno spessore min. di 60 micron sulle parti a vista;
3. il materiale sarà sottoposto al seguente processo:
 - sgrassatura senza attacco
 - lavaggio
 - decapaggio alcalino con attacco
 - lavaggio
 - disossidazione
 - lavaggio
 - cromatazione
 - lavaggio in acqua demineralizzata
 - asciugatura a 75°C
 - verniciatura in polveri termoindurenti
 - polimerizzazione in fornoTutte le lavorazioni eseguite su alluminio devono essere conformi a quanto previsto dal marchio di qualità Qualicoat®.

Fasi di anodizzazione

1. Lo strato ossido può variare secondo la zona di ubicazione del serramento da 15 a 20 micron (UNI 10681);
2. può essere normale o elettrocolore;
3. il materiale sarà sottoposto al seguente processo:
 - sgrassatura senza attacco
 - lavaggio
 - decapaggio alcalino con attacco (tranne le finiture lucide)
 - lavaggio
 - disossidazione
 - lavaggio
 - ossidazione in bagno acido solforico a 18/20°C, densità della corrosione 1,5[A]dmq
 - colorazioni inorganiche od organiche od elettrocolore (tranne argento)
 - lavaggio doppio
 - asciugatura
 - fase di fissaggio a caldo in ebollizione a Sali di nichel, fissaggio 2,5/3 minuti per ogni micron di spessore

Osservazione

Nella fase preventiva il progettista o il serramentista dovrà determinare il tipo di serramento da impiegare sulla base degli elementi forniti dal committente. Nella scelta o controllo si dovrà considerare, sulla base della pressione del vento, il momento d'inerzia necessario e scegliere il profilato occorrente nella gamma Planet. Ovviamente dovranno essere utilizzati adeguati accessori, tra quelli originali ALSistem, predisposti per le serie Planet.

Dimensione e pesi profilati

Le dimensioni e i pesi indicati sui disegni dei profilati a catalogo sono quelli teorici e possono variare in funzione delle tolleranze dimensionali di estrusione (Norme UNI EN 12020-2) e dal tipo di finitura. Anche la verniciatura, contribuisce ad aumentare gli spessori riducendo pertanto le sedi di inserimento delle guarnizioni e degli accessori. Questa variabilità potrebbe condizionare le dimensioni del taglio e di conseguenza quelle del serramento finito. Le differenze di taglio potranno aumentare in modo proporzionale anche in base al numero di ante per serramento. Si consiglia, nei primi lavori o in quelli con quantità importanti, di realizzare un campione reale per verificarne il corretto funzionamento.

Dimensioni taglio

Le dimensioni teoriche di taglio indicate nel presente catalogo si dovranno modificare in funzione della tipologia e sulla base della precisione della macchina di taglio che si sta utilizzando, (ad es. per porte a 2 ante ap.est. con maniglione antipanico, la fuga dovrà essere 8mm anziché 5mm; le finestre a 3 e 4 ante e le finestre di misure ridotte dovranno avere le ante più strette del teorico, di almeno 0,5mm ogni traverso, per evitare interferenze sulla rotazione, ecc...).

Consigli per un corretto assemblaggio

Per ottenere i migliori risultati utilizzando i profili Planet si consiglia di osservare attentamente tutte le voci di seguito riportate, atte a rinforzare tutti i punti deboli di una finestra comune, ottimizzando così le prestazioni offerte dal serramento.

Procedura corretta	Obiettivo
sigillare i profili tra loro nel giunto a 45°	evita infiltrazioni d'acqua evita la corrosione e l'ossidazione
sigillare i profili sul montante quando gli stessi vengono intestati	evita infiltrazioni d'acqua evita la corrosione e l'ossidazione
utilizzare la guarnizione giunto aperto sulla soglia anche nella soluzione doppia battuta	facilita l'evacuazione dell'acqua
utilizzare l'angolo vulcanizzato della guarnizione di battuta centrale	aumenta la permeabilità all'aria aumenta la tenuta all'acqua
utilizzare l'angolo vulcanizzato della guarnizione di battuta interna	aumenta la permeabilità all'aria e migliora la finitura dell'infisso
usare curve limite di utilizzo per la scelta del profilo	evita scelte inadeguate del profilo
sigillare il serramento sul perimetro tra profilo e controtelaio con sigillante BG1 seguendo le indicazioni contenute nel programma Thermoposa®	evita infiltrazioni d'acqua e garantisce il giunto primario per 10 anni
utilizzare sempre il tassello di registro	facilita la posa in opera, inquadra meglio il telaio, isola i materiali e limita la trasmissione delle vibrazioni
proteggere tutte le lavorazioni effettuate sui profilati	evita la corrosione e l'ossidazione facendo aumentare la durata dell'infisso nel tempo
per infissi con aperture antipanico usare profili maggiorati	facilita l'applicazione degli accessori
utilizzare controsagome durante il taglio a 45°	garantisce un taglio corretto al fine di ottenere una giunzione d'angolo perfetta
utilizzare squadrette multifunzione	garantisce giunzioni di alta qualità

Certificazione accessori



I prodotti in alluminio verniciato sono certificati secondo le specifiche tecniche del: **QUALICOAT**



I prodotti in alluminio anodizzato sono certificati secondo le specifiche tecniche del: **EURAS EWAA QUALANOD**



Gli accessori per le gamme Planet sono prodotti da aziende certificate ISO9001 e ISO14001

Importante

Tutti i dati esposti in questo catalogo sono puramente indicativi e non impegnano in nessun modo la società la quale si riserva la possibilità di portare migliorie ai suoi prodotti in qualunque momento lo ritenga necessario. La società si riserva il diritto di proprietà del presente catalogo con la proibizione di riprodurlo o trasferirlo a terzi senza l'autorizzazione scritta.

Certificazioni serie Planet 45

Il sistema Planet 45 è stato sottoposto alle prove indicate in tabella per le diverse tipologie di serramenti.

PROVE	TIPOLOGIE SERRAMENTI	
	Finestra 2 ante ribalta	Finestra 2 ante ribalta
Misure del serramento	H=1.239mm L=1.439mm	H=2.400mm L=1.500mm
Numero certificato	0443/2006	1994-CPD-RP0612
Valore prova permeabilità all'aria	classe 4	classe 4
Valore prova tenuta all'acqua	classe E1200	classe E1050
Valore prova resistenza al vento	classe C5	classe C4

General specifications

Aluminum frames created with thermal break Planet 50 Plus doors and windows with central. The profiles are extruded in aluminium alloy EN AW 6060 (EN 573-3), supply condition T5 and T6 in accordance with standard EN 755-2 with dimensional tolerances and thicknesses compliant with standard UNI EN 755-9 and UNI12020-2. Alloy according to ALSistem formula. The thermal insulation will consist of 16mm polyamide 6.6 hi-tech solution strips reinforced 25% with fibreglass with a moisture absorption value lower than 2% at a temperature of 23°C and a level of humidity at 50%; the strips are assembled by means of computerised mechanical rolling, and the mechanical characteristics of the strips must remain unaltered up to a maximum treatment temperature of 245°C. The production process is controlled in accordance with UAETC standards, the sliding values must be greater than 24 daN/mm. The fixed frame shall be 50mm deep, whilst the openable parts shall be 58mm deep. The sealing system shall be of the open joint type with a central EPDM gasket with a seal fin on the sloping surface of the profile on the moving part of the window; the central gasket must be connected at the corners with the appropriate vulcanised corners. The profiles have been designed with straight of rounded lines internally and externally with the possibility of accommodating glazing bead solutions cut at 45° or 90°; where cut at 90° with rounded glazing beads, the appropriate connecting corners in die-cast aluminium can be used. The glazing must be sealed in accordance with the instructions shown in the catalogue and exclusively with original glazing bead gaskets. Appropriate drainage holes must be made on the fixed frame and on the moving frame in order to allow the correct drainage for the window/door. The limits of use of the profiles depend on their geometric characteristics, on the scope of the accessories and on the operating loads. The accessories used in the manufacture of the various types must be exclusively the originals designed especially for the system, as shown in the catalogue and distributed by the ALSistem licensees; the use of products other than those indicated or their partial or incorrect assembly shall render the test certificates and guarantee null and void. The manufacture and installation must be in accordance with the operating criteria indicated by ALSistem. The profiles shall be assembled with brackets in extruded or die-cast aluminium to be buttoned, pinned, crimped or screwed, the edges must be protected with acrylic, silicone or neutral sealants. The profiles must be protected and finished by means of normal surface treatments, anodic oxidation compliant with the "Qualanod" quality label or by painting with thermosetting polyester in powder form and oven-polymerised at temperatures between 185°C and 195°C, in accordance with the "Qualicoat" quality label.

Materials

The doors and windows are made from aluminium alloy EN AW 6060 extruded profiles as indicated in standard EN 755-3. The supply condition is within class T5 and T6 in accordance with standard EN 755-2. Dimensional tolerances comply with UNI 12020-2. Alloy according to ALSistem formula.

Technical and dimensional characteristics

External visual appearance: flush

Internal visual appearance: flush or overlapping 8mm

Profiles: light alloy 6060 (EN 573-3) extrusions; they can be anodised and painted. Alloy according to ALSistem formula.

Sealing system: open joint with pre-chamber or double rebate, with EPDM gaskets

Accessory system: top quality European chamber

Distance between frame and leaf: 11,5mm

Superimposition of leaf rebate on frame: 6mm

Height of glass rebate: 22mm

Space between the profiles: 5mm

Frame depth: 45mm

Leaf depth: 53mm

Tubularity of window profiles: 15mm

Tubularity of door profiles: 36,4mm

Glass fastening: with smooth or radial glazing beads

Space for glass or panel in fixed frames: until 38mm

Space for glass or panel in leaves: from 7,5mm to 45,5mm

Surface protection

The profiles can be protected by means of anodic oxidation with thickness category >15 micron as per standard UNI 10681, or by painting with thermosetting polyester in powder form and oven polymerised in accordance with the "Qualicoat" quality procedures and with standard UNI EN 12206-1.

Resistance of the finish

The surface finish must not suffer any corrosion or alterations in appearance for a period of time appropriate to the life of the product. The characteristics required to ensure the behaviour in accordance with the type of environment are specified in standards UNI 10681 for oxidation and UNI EN 12206-1 for painting, bearing in mind that the key factors influencing weather resistance are proximity to the sea, atmospheric pollution, maintenance and cleaning also from rain.

Safety

In order to prevent physical harm or injury to users, the doors and windows must be designed in accordance with the relevant safety legislation, LD 81/2008 and UNI 7697. See "Uso e Manutenzione" by Thermoposa ALSistem.

Characteristics of the glazing

The glazing must be selected in accordance with performance criteria to meet the requirements of energy saving, sound insulation, solar radiation control, safety. Relevant standards: UNI EN ISO 1140-3, UNI EN 12488, UNI EN 572-1, UNI EN 12758, UNI EN 12150-1:01, UNI 11463, LD 2 April 1998 and 90/2013.

Gaskets

The gaskets must only be the originals designed for the system, guaranteeing its performance and complying with reference standards UNI 3952, UNI 12365-1.

Sealants

The sealants must comply with the provisions of reference standards UNI EN ISO 11600. These materials must not corrode the parts made of aluminium and its alloys with which they come into contact and must therefore be non-acetic or MS polymer based.

Accessories

The accessories must be the original ones produced for the range and in accordance with the criteria indicated in UNI EN 13126-1/19 standards and with the safety legislation, LD 81/2008. Available ITT test report.

Performance

The Planet 45 range meets the requirements of standards UNI EN 12207, UNI EN 12208, UNI EN 12210.

Mechanical resistance

The system and its accessories shall be resistant to the stress of use in accordance with the limits established in standard UNI 12365-1 and UNI EN 13126-1/19.

Sound insulation

The choice of the type of sound insulation for a door or window depends on the intended purpose of the location in which the frame is to be fitted and on the level of external noise; the behaviour of the door or window on site is influenced by factors that cannot be determined beforehand (height from the floor, orientation of noise sources, etc.). The sound insulation capacity can therefore be estimated to a large degree, based on window/door air permeability, with a minimum permeability value of 2, and on the sound insulation capacity of the glass.

In accordance with the methodology described in reference standard UNI EN ISO 1140-3.

Thermal insulation

The choice of the heat insulation properties must be made on the basis of the energy saving requirements in accordance with law 10/91 and LD 192/05 and update LD 311/06 and of the environmental wellbeing requirements or with reference to standard UNI EN ISO 10077-1. The window/door thermal transmittance can be calculated from the transmittance values of the profiles and of the surfaces in accordance with standard UNI EN ISO 10077-1 using the formula:

$$U_w = (A_g \cdot U_g + A_f \cdot U_f + I_g \cdot \psi) \div (A_g + A_f)$$

Certifications

It is possible to ask the manufacturer of the windows/doors, or alternatively the local licensee, for a photocopy of the test reports relating to specific properties.

CE Marking UNI EN 14351-1

CE marking is OBLIGATORY and is the system to which all manufacturers of doors and windows must comply in order to be able to sell their products in the European Union. The Manufacturer, or its representative, with its headquarters in the EEA [European Economic Area] is responsible for affixing the CE marking to its product, on a label applied to the product, on its packaging or on its accompanying commercial documents. Standard UNI EN 14351-1 applies to windows, glass doors, external pedestrian doors, external doors on escape routes, roof windows/skylights (including those resistant to external fire), ribbon windows, coupled windows and double windows. These doors/windows can have one or more leaves, with moving leaves and fixed parts, opening inwards or outwards, operated manually or automatically, completely or partially glazed, with or without a frame to contain the glass, with or without built-in shielding devices.

Standard UNI EN 14351-1 does not apply to:

- windows, glass doors and pedestrian doors with fire-resistant and smoke-proof characteristics
- internal doors (EN 14351-2)
- external obscuring shutters (UNI EN 13659)
- revolving doors
- windows situated on escape routes

The standard relates to certain voluntary and/or obligatory requirements:

- Watertightness
- Release of hazardous substances
- Impact resistance
- Wind resistance
- Load-bearing capacity of safety devices
- Sound insulation
- Thermal insulation
- Glass radiance (light transmission)
- Air permeability

Factory Production Control (FPC)

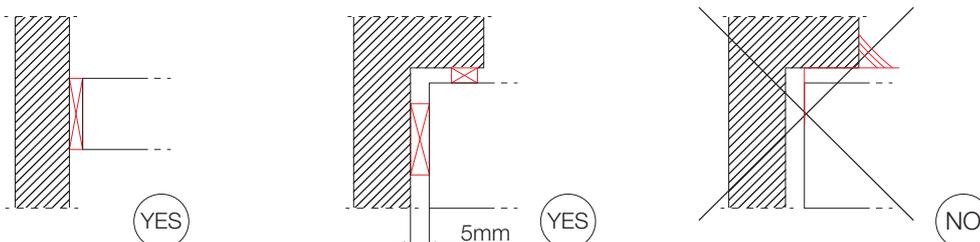
Factory production control is a system implemented by the manufacturer under its own responsibility, in order to ensure that the structural characteristics of the product are maintained over time within certain limits. The manufacturer must establish certain documented procedures, which indicate the methods that the personnel responsible for various controls must implement in order to monitor the process assigned to them frequently and accurately. The manufacturer is obliged to guarantee the traceability of the product by using codes or other methods. By means of a diagram, the manufacturer is also obliged to inform the purchaser of instructions relating to the use, handling, installation, maintenance and cleaning of the product. The installation characteristics, however, are not analysed. Refer to our Thermoposa manuals.

Laboratory Test (ITT)

The characteristics of the door/window are assessed on the finished product complete with its metal fittings, double glazing, panels and all the accessories and treatments that render it ready for use. Any manufacturer who requests it can obtain the results of the tests (ITT) on the doors/windows directly from Al sistem or from the local licensee, which grants the right to use the results of the certificates of the ITTs received from the Laboratory, by means of a cascading agreement between the parties. The manufacturer is responsible for the product's compliance with the European standards indicated in the draft standard and found in the national standards (UNI standards).

Installation

In order for the window to operate properly, it is very important to pay extremely close attention to the vertical positioning and levelling of the frame, and then to seal it using Thermoposa self-expanding tapes, following the advice in the example shown below, also checking that the openings are sufficiently filled (shimming the glass 1-2 mm out of square), so that, with the adjustment of the materials, there is no deterioration of operation over time.



Our company, that in the field of exterior doors has always been ahead in research and development in the high-efficiency thermo-acoustic solutions, adopts Thermoposa system to guarantee a correct redevelopment of the window hole.

The **Thermoposa** System includes 3 main interventions:

- Proper installation of the window
- Insulation of the box
- Cutting Marble, whether through

Maintenance of the aluminium surfaces

In view of the high amounts of pollution now reached in all countries, particularly in large cities and in coastal areas beaten by the sea wind, it is very important for aluminium surfaces that are in contact with the atmosphere to be cleaned regularly. Our intention is to raise the awareness of the manufacturers of doors and windows so that they can in turn advise THE CLIENT as well as possible.

It is good practice to take 3 fundamental points into consideration:

- 1- how often the cleaning operation must be carried out over the course of the year
- 2- the period
- 3- the product to be used

Here are the answers:

The number of cleaning operations depends on the level of pollution in the area in which the building is located, ranging from 1 to 3 times a year.

The period may be:

- at the end of winter
- in the middle of summer
- in the middle of autumn, depending on the number of cleaning operations

It is important that the product to be used for cleaning is neutral; using the wrong product could ruin the various different materials of which a door or window consists (gaskets, sealants, marble, etc) and cause damage that could compromise the efficiency and life of the product.

The characteristics of these products as well as the frequency of the cleaning to be adopted are defined in draft standards UNIMET12.04.270 and E12.04.277.0.

If no neutral product is available, it is preferable to use warm water with a nonabrasive cloth.

In order to install, maintain and clean the doors and windows correctly, we also suggest that you consult the instructions contained in the following Uncsaal technical notes: UX 42 guide to installing windows UX 10 cleaning of surfaces of doors/windows and continuous facades. Refer to our Thermoposa manuals.

Painting phases

1. The painting cycle offer the possibility of obtaining an excellent protective coating on the surface of the frames and a greater brightness of colour;
2. The layer must have a min. thickness of 60 micron on the visible parts;
3. the material shall be subjected to the following process:
 - removal of grease/dirt without etching
 - washing
 - alkaline (or acid) pickling with etching
 - washing
 - deoxidising
 - washing
 - chromate treatment
 - washing in demineralised water
 - drying at 75°C
 - painting in thermosetting powder coating
 - oven polymerisation

All operations carried out on aluminium must comply with the provisions of the "Qualicoat" quality label.

Anodisation phases

1. The oxide layer may vary from 15 to 20 micron (UNI 10681), according to the area in which the door/window is located;
2. it can be normal or electro-colour;
3. the material shall be subjected to the following process:
 - removal of grease/dirt without etching
 - washing
 - alkaline pickling with etching (except for shiny finishes)
 - washing
 - deoxidising
 - washing
 - oxidation in sulphuric acid bath at 18/20°C, density of corrosion 1.5[A]dmq
 - inorganic or organic colouring or electro-colour (except for silver)
 - double washing
 - drying
 - hot fixing boiling with nickel salts, fixing 2.5/3 minutes for every micron of thickness

Observation

During the preliminary phase the project manager or door/window fitter must determine the type of door/window to be used depending on the elements provided by the client. During the selection or inspection, the necessary moment of inertia must be considered depending on the wind pressure and the required profile chosen from the Planet range. Obviously, the appropriate accessories must be used from the original ALSistem accessories, provided for the Planet range.

Profile dimensions and weights

The dimensions and weights indicated on the drawings of the profiles in the catalogue are theoretical and can vary according to the extrusion dimensional tolerances (Standard UNI EN 12020) and to the type of finish. Painting also adds to the thickness, thus reducing the housings for inserting the gaskets and accessories. This variability could influence the dimensions of the cut and consequently those of the finished door/window. The differences in cut can increase also in proportion to the number of leaves per door/window. It is advisable, in initial works or in those with large quantities, to create a true sample to check that it works properly.

Cut dimensions

The theoretical dimensions of cut indicated in this catalogue must be altered according to the type and depending on the precision of the cutting machine being used, (e.g. for double-leaf doors opening outwards with panic exit bar, the space must be 8 mm rather than 5 mm etc.). During fabrication of 3/4 leaf windows the leaftrans cutting size must be 0.5cm shorter.

Advice for correct assembly

To obtain the best results when using Planet profiles, it is advisable to pay careful attention to all of the following points, designed to reinforce all of the weak points of a normal window, thus optimising the performance offered by the window.

Correct procedure	Objective
seal the profiles together in the join at 45°	prevents water seepage, prevents corrosion
seal the profiles on the jamb when they are faced	prevents water seepage, prevents corrosion
use the open joint gasket on the sill also in the double rebate solution	facilitates water drainage
use the vulcanised corner of the central rebate gasket	increases air permeability increases watertightness
use the vulcanised corner of the internal rebate gasket	increases air permeability and improve the finish of the casing
use limit curves to select the profile	avoids choosing the wrong profile
seal the window or door on the perimeter between profile and counter-frame with Thermoposa self-expanding tapes	prevents water seepage
always use the wall spacer and the screw for fixing	facilitates installation, ensures better frame positioning, insulates materials and minimises the transmission of vibrations
protect all the work carried out on the profiles	prevents corrosion increasing the life of the frame over time
for installations with emergency openings use oversized profiles	facilitates the application of accessories
use counterprofile during the 45° cut	guarantees a correct cut in order to obtain a perfect angle joint
use multi-purpose corner brackets	guarantees high-quality joints and solid in time

Accessory certification



The painted aluminium products are certified according to the technical specifications of:
QUALICOAT



The anodised aluminium products are certified according to the technical specifications of:
EURAS EWAA QUALANOD



The accessories for the Planet ranges are produced by ISO9001 and ISO14001 certified companies

Important

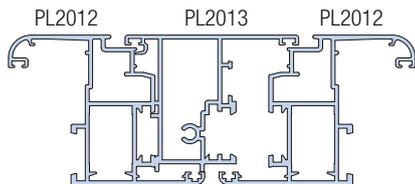
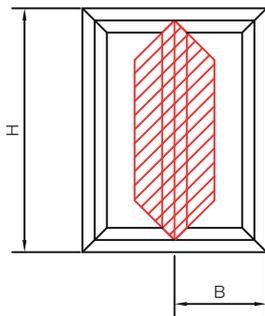
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Planet 50 Plus range certifications

The Planet 50 Plus system has been subjected to the tests shown in the table for the different types of door and window.

TEST	WINDOWS TYPE	
	2-leaf tilt & turn window	2-leaf tilt & turn french window
Windows size	H=1.239mm L=1.439mm	H=2.400mm L=1.500mm
Certificated number	0443/2006	1994-CPD-RP0612
Air permability	classe 4	classe 4
Watertightness	classe E1200	classe E1050
Resistance to wind load	classe C5	classe C4

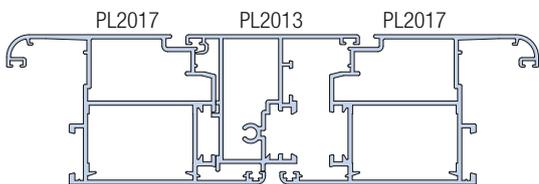
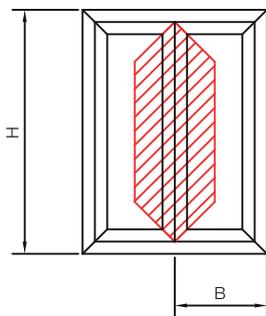
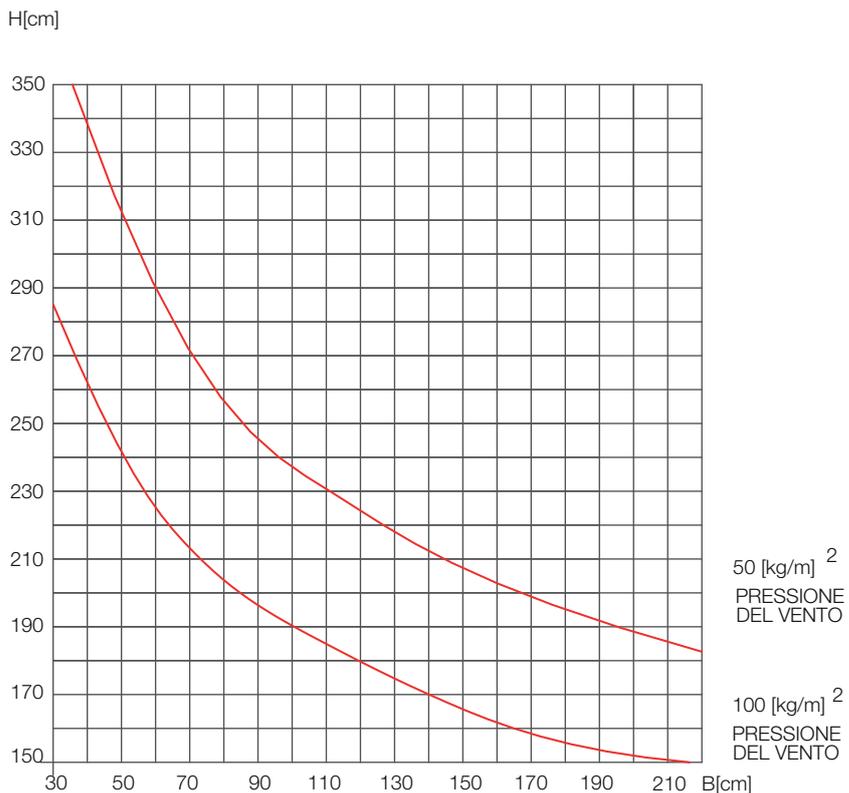
CURVE LIMITE DI
UTILIZZO
Limit curves



$J_t = 39.14 \text{ cm}^4$

freccia max 1/300

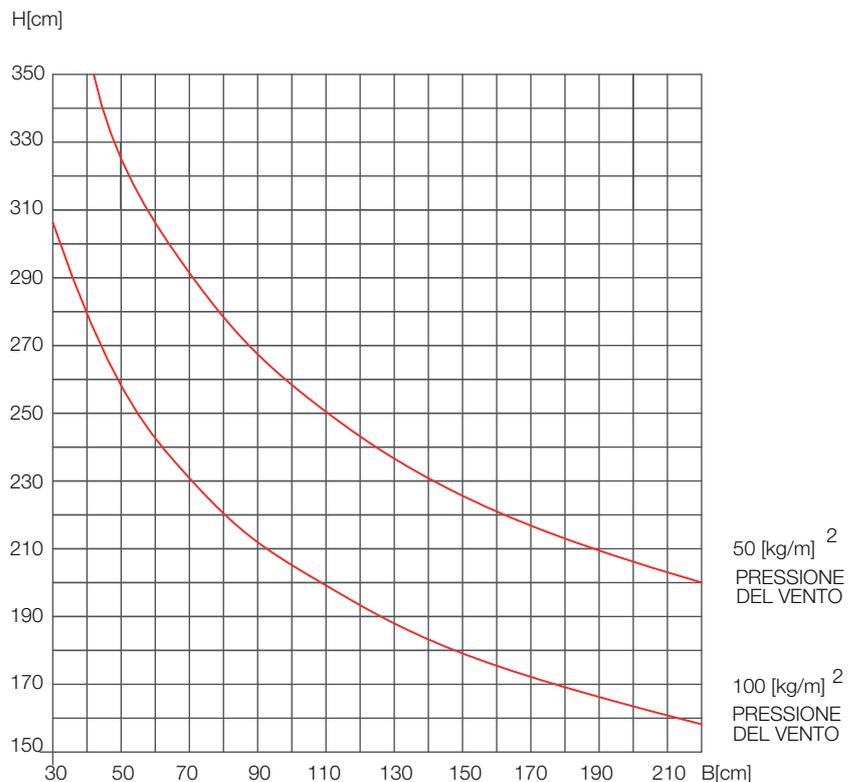
VERIFICARE CHE LA FRECCIA DEL PROFILO SIA COMPATIBILE COL VETRO IMPIEGATO



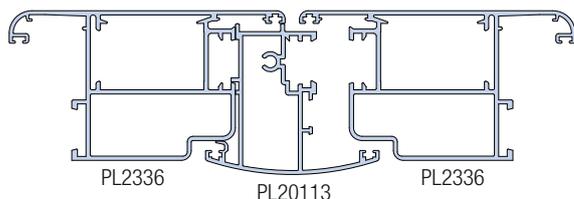
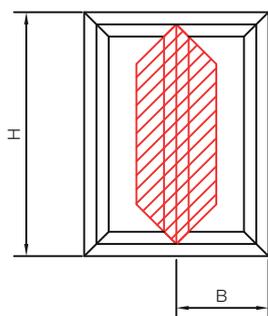
$J_t = 48.73 \text{ cm}^4$

freccia max 1/300

VERIFICARE CHE LA FRECCIA DEL PROFILO SIA COMPATIBILE COL VETRO IMPIEGATO



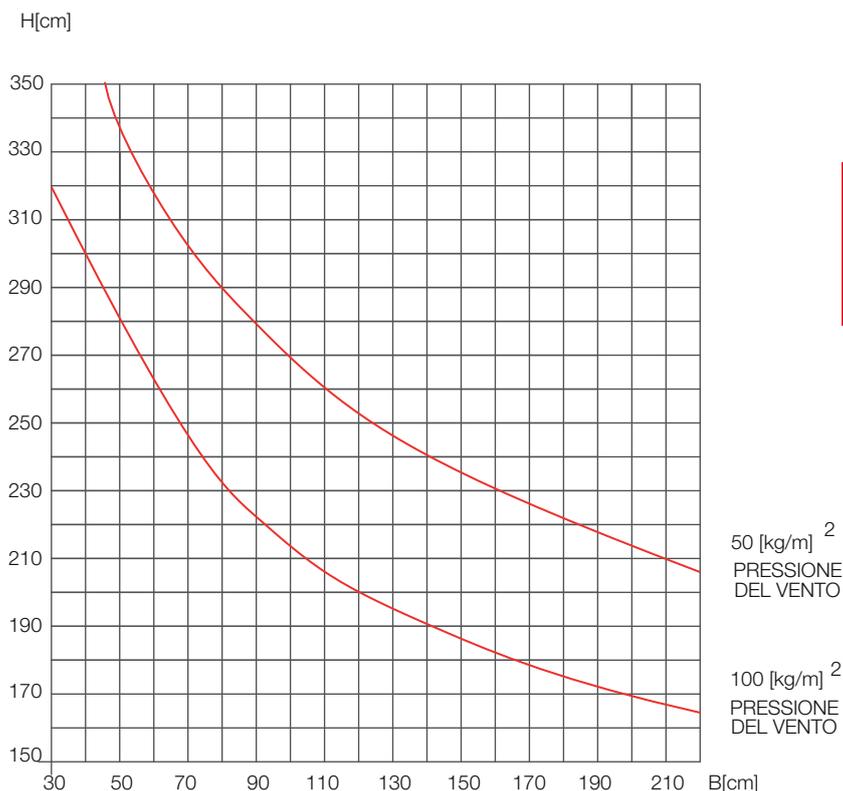
I DIAGRAMMI DI PORTATA SONO CALCOLATI SU BASE TEORICA IN FUNZIONE DELLE CARATTERISTICHE INERZIALI DEI PROFILI



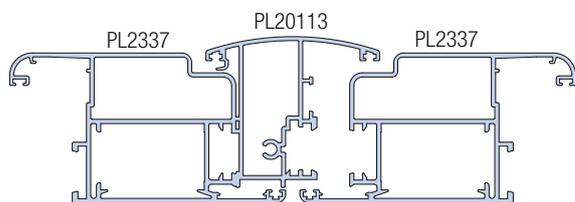
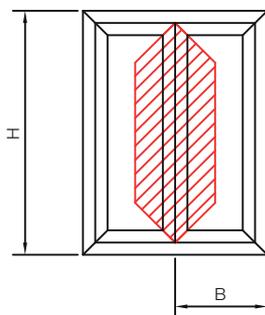
$J_t = 54.74 \text{ cm}^4$

freccia max 1/300

VERIFICARE CHE LA FRECCIA DEL PROFILO SIA COMPATIBILE COL VETRO IMPIEGATO



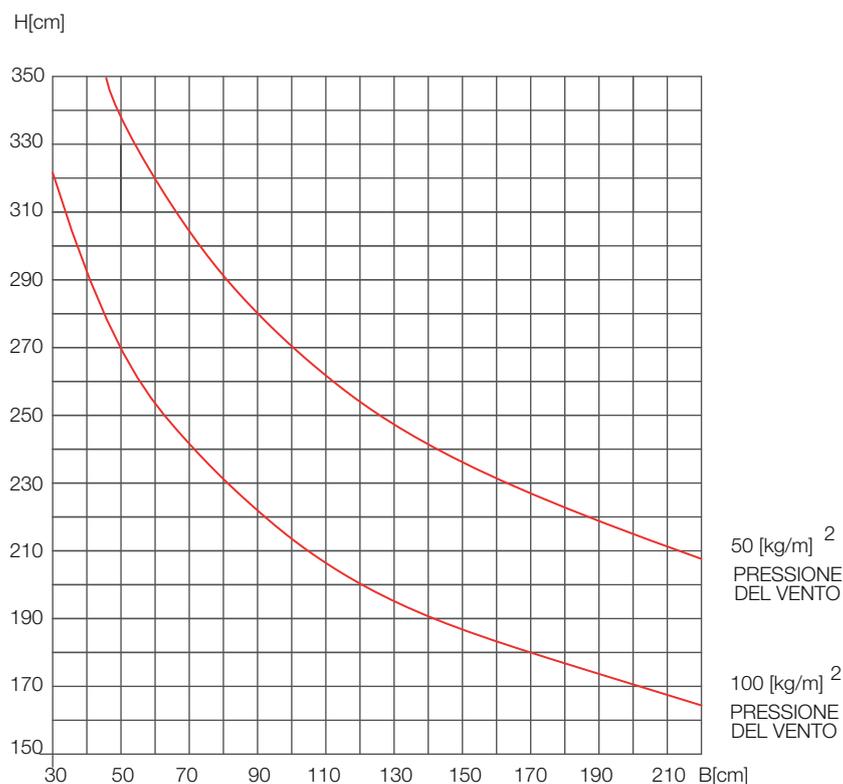
CURVE LIMITE DI
UTILIZZO
Limit curves



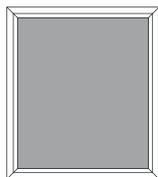
$J_t = 55.61 \text{ cm}^4$

freccia max 1/300

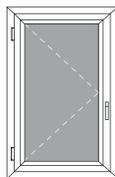
VERIFICARE CHE LA FRECCIA DEL PROFILO SIA COMPATIBILE COL VETRO IMPIEGATO



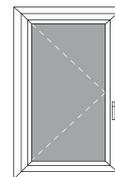
I DIAGRAMMI DI PORTATA SONO CALCOLATI SU BASE TEORICA IN FUNZIONE DELLE CARATTERISTICHE INERZIALI DEI PROFILI



fisso
fixed



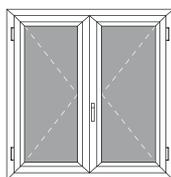
finestra 1 anta
apertura interna
1-leaf windows
inner opening



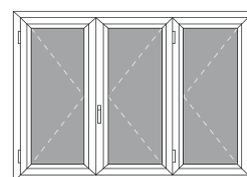
finestra 1 anta
apertura esterna
1-leaf windows
outer opening



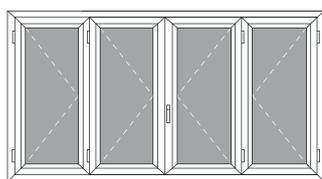
finestra 2 ante
ribalta
2-leaf, tilt and turn
windows



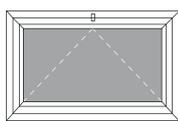
finestra 2 ante
2-leaf windows



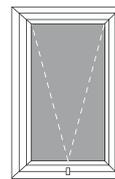
finestra 3 ante
3-leaf windows



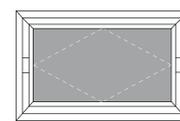
finestra 4 ante
4-leaf windows



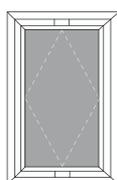
vasistas
awning / hopper window



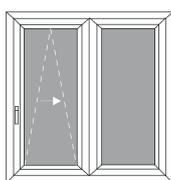
sporgere
stick out windows



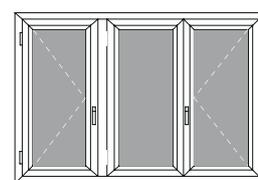
bilico orizzontale
horizontal pivot window



bilico verticale
vertical pivot window

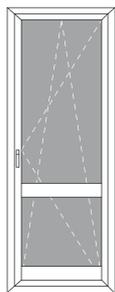


scorrevole
parallelo + fisso
tilt & slide + fix

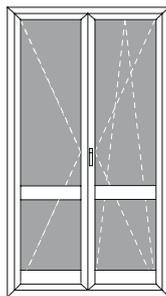


finestratura
a nastro
ribbon window

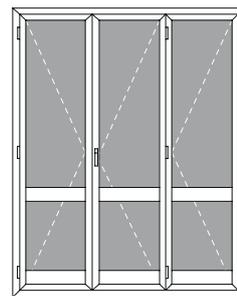
DIMENSIONI MINIME LARGHEZZA ANTA 350mm



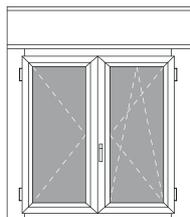
porta finestra
1 anta ribalta
balcony door
1-leaf tilt and turn



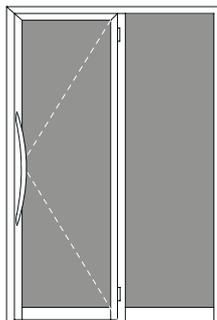
porta finestra
2 ante ribalta
balcony door
2-leaf tilt and turn



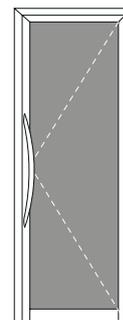
porta finestra
3 ante
balcony door
3-leaf french door



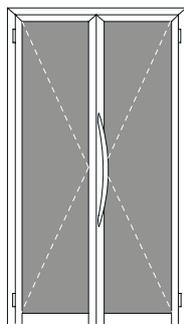
finestra monoblocco
monoblock windows



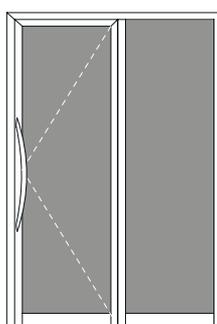
portoncino 1 anta
apertura interna + vetrina
1-leaf door inner
opening and glaze



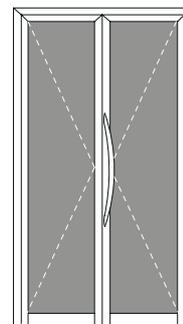
portoncino 1 anta
apertura interna
1-leaf door inner
opening



portoncino 2 ante
apertura interna
2-leaf door inner
opening



portoncino 1 anta
apertura esterna + vetrina
1-leaf door outer
opening and glaze



portoncino 2 ante
apertura esterna
2-leaf door outer
opening

DIMENSIONI MINIME LARGHEZZA ANTA 350mm

LEGENDA BATTUTA-SPALLA

BEAT-ABUTMENT

Allo scopo di unificare la terminologia utilizzata nel catalogo:

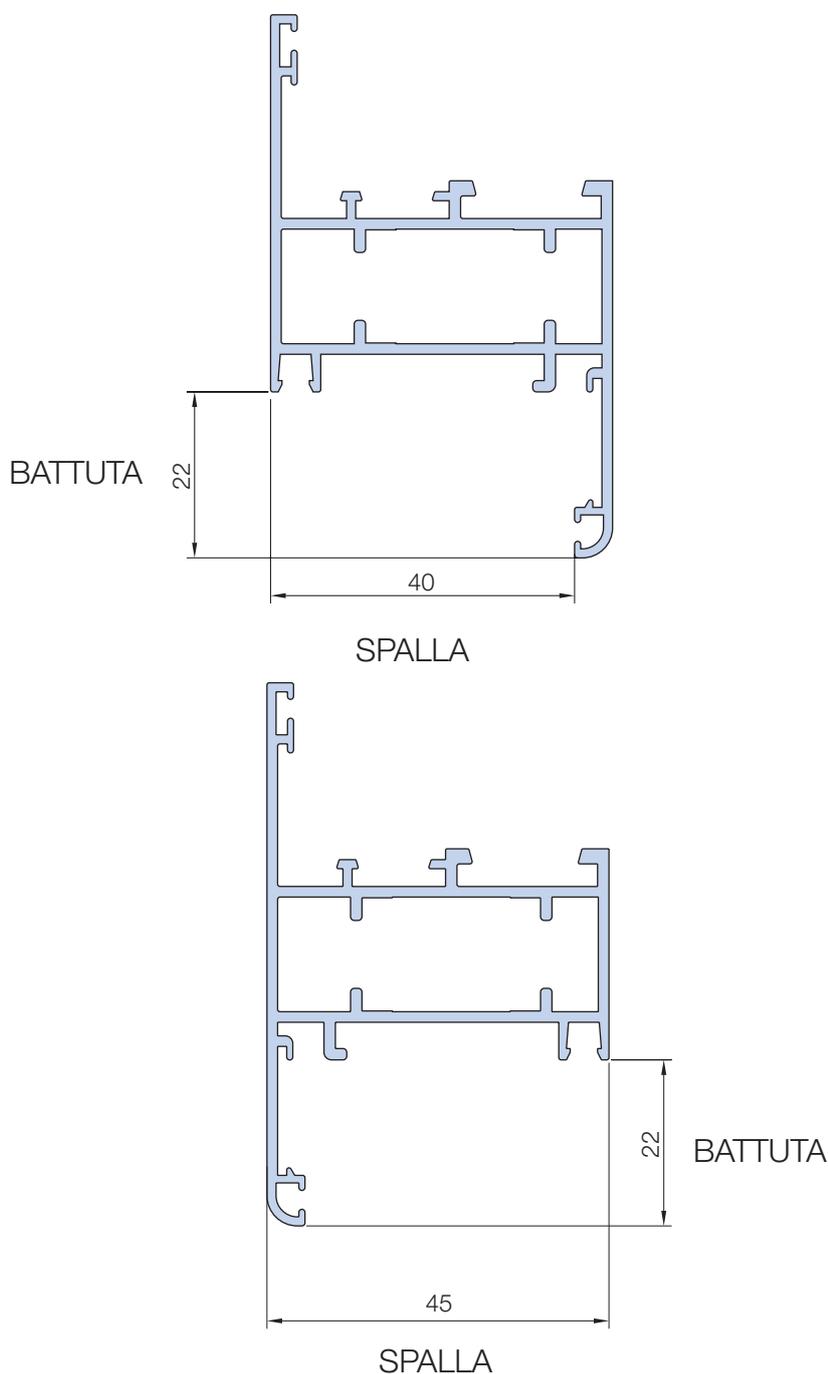
In order to unify the technical terminology conventionally measured te following terms:

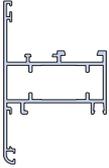
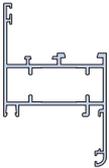
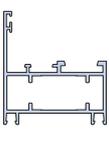
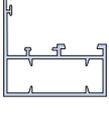
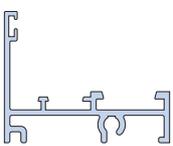
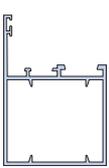
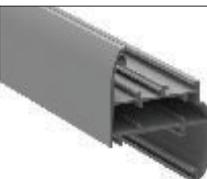
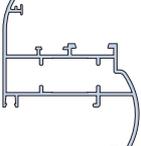
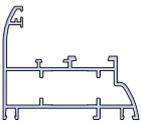
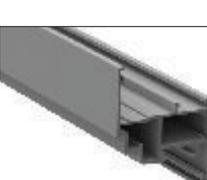
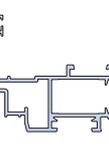
BATTUTA: la quota della lunghezza dell'aletta dei telai che copre il giunto con la muratura

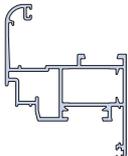
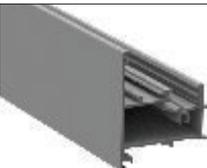
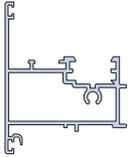
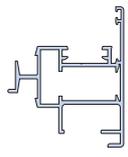
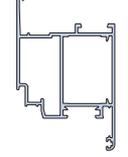
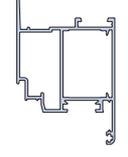
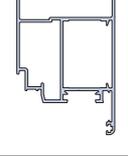
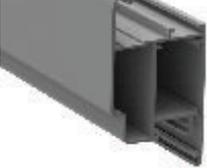
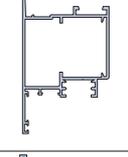
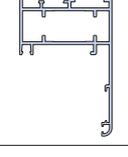
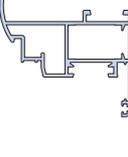
BEAT: the part of the fin lenght of frames that covers the joint with the masonry

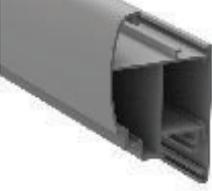
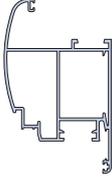
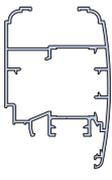
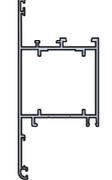
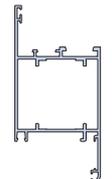
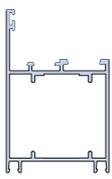
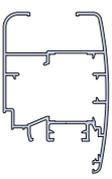
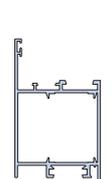
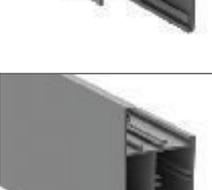
SPALLA: la quota della profondità tra la battuta e il filo esterno del profilato

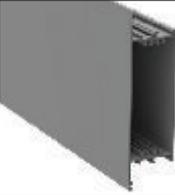
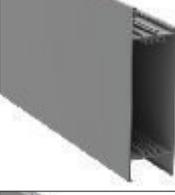
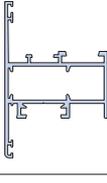
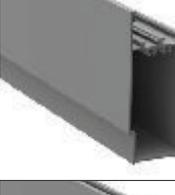
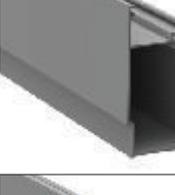
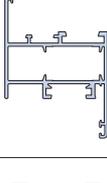
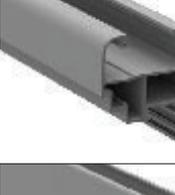
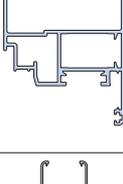
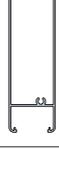
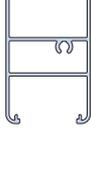
ABUTMENT: the proportion of the depth between the stop and the external thread profile

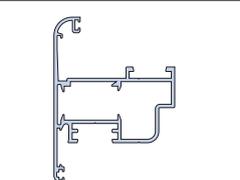
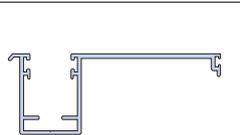
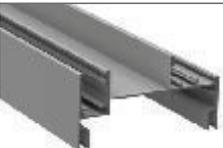
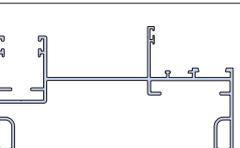
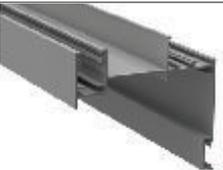
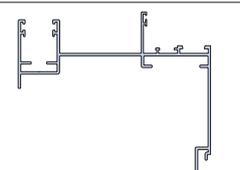
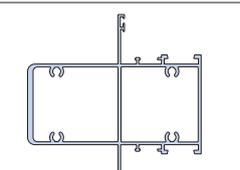
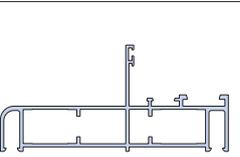
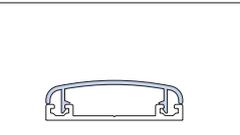
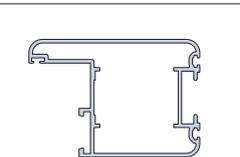


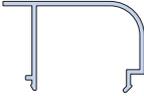
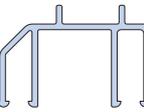
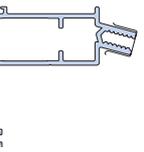
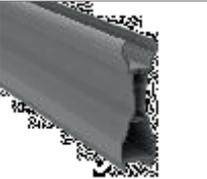
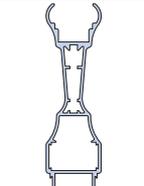
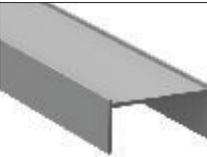
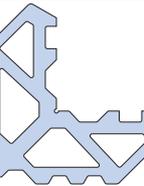
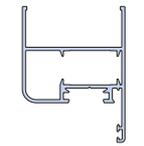
	Sagoma	Art.	Descrizione	Peso gr/m	Jxx cm ⁴ Jyy cm ⁴
		PL 2001	Telaio fisso a T muro 40mm, battuta 22mm <i>Fixed T frame wall 40mm, beat 22mm</i>	897	9,97 7,58
		PL 2002	Telaio fisso a Z muro 40mm, battuta 22mm <i>Z frame wall 40mm, beat 22mm</i>	886	9,97 7,58
		PL 2003	Telaio fisso a L <i>L fixed frame</i>	774	7,87 4,17
		PL 2004	Telaio fisso a L liscio <i>Fixed L flat frame</i>	731	7,18 3,62
		PL 2006	Soglia, altezza 36mm <i>36mm threshold</i>	537	5,20 1,41
		PL 2007	Telaio fisso a L maggiorato liscio <i>Oversize fixed L flat frame</i>	904	10,27 12,28
		PL 2008	Telaio fisso a Z modanato complanare interno, muro 47mm, battuta 25mm <i>Fixed Z frame molded inner coplanar, wall 47mm, beat 25mm</i>	1064	17,30 10,68
		PL 2009	Telaio fisso a L modanato complanare interno da abbinare a PL 2008 <i>Fixed L frame inner coplanar to be combined with PL 2008</i>	933	13,52 5,49
		PL 2011	Anta liscia <i>Smooth leaf</i>	1044	13,99 7,76

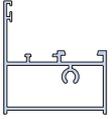
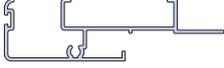
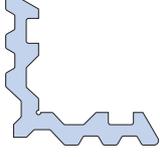
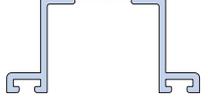
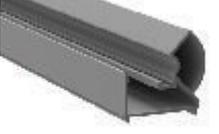
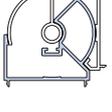
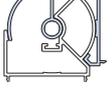
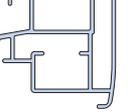
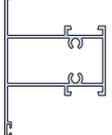
	Sagoma	Art.	Descrizione	Peso gr/m	Jxx cm ⁴ Jyy cm ⁴
		PL 2012	Anta raggiata <i>Rounded leaf</i>	1060	14,25 5,95
		PL 2013	Riporto centrale liscio <i>Pivot rebate reversal</i>	918	9,71 6,06
		PL 2014	Inversione bilico <i>Pivot reversal</i>	959	9,37 7,15
		PL 2016	Anta liscia maggiorata <i>Oversized smooth leaf</i>	1365	18,78 23,12
		PL 2017	Anta raggiata maggiorata <i>Oversized rounded leaf</i>	1321	19,03 25,71
		PL 2018	Anta vetro infilare maggiorata <i>Overize leaf</i>	1350	19,14 27,15
		PL 2019	Anta bilico <i>Flat leaf</i>	1233	18,28 29,63
		PL 2022	Telaio fisso a Z battuta 40mm, muro 40mm <i>Fxed Z frame molded inner coplanar, wall 40mm, beat 40mm</i>	1011	11,02 13,69
		PL 2025	Anta bombata da 58mm <i>Convex leaf, 58mm</i>	1087	15,85 9,39

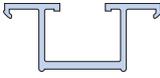
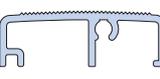
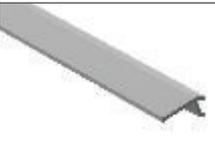
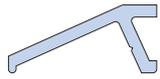
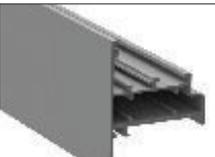
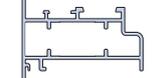
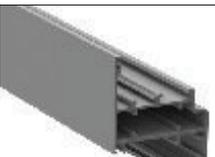
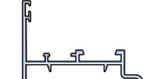
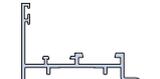
	Sagoma	Art.	Descrizione	Peso gr/m	Jxx cm ⁴ Jyy cm ⁴
		PL 2026	Anta bombata maggiorata <i>Oversized convex leaf</i>	1451	22,42 29,68
		PL 2028	Anta vetro infilare modanata maggiorata spazio vetro 25mm <i>Oversized molded leaf, 25mm glass space</i>	1485	24,25 29,68
		PL 2031	Telaio fisso a T maggiorata battuta 30mm muro 40mm <i>Oversized fixed T frame wall 40mm, beat 30mm</i>	1171	13,25 25,96
		PL 2032	Telaio fisso a Z maggiorato battuta 22mm, muro 40mm <i>Oversized fixed Z frame, wall 40mm, beat 22mm</i>	1137	12,98 21,23
		PL 2033	Telaio fisso a L maggiorato <i>Oversized fixed L frame</i>	951	10,92 14,34
		PL 2034	Anta vetro infilare bombata maggiorata spazio vetro 25mm <i>Oversized molded beadless leaf, 25mm glass space</i>	1477	24,56 30,15
		PL 2035	Telaio fisso a Z maggiorato doppia battuta, battuta 17,5mm, muro 41,5mm <i>Fixed Z frame double rebeat version wall 41,5mm, beat 17,5mm</i>	1176	13,24 21,02
		PL 2038	Traverso da 92mm per fissi ed ante raggiate, fissaggio con cavallotto <i>92mm transom for fixed and rounded leaf, fix clamp</i>	1222	12,39 19,87

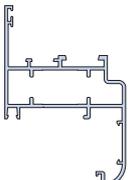
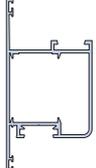
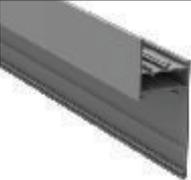
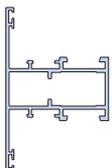
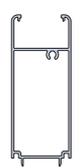
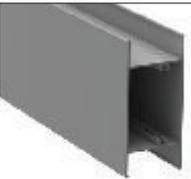
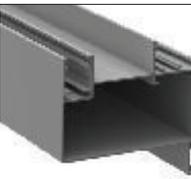
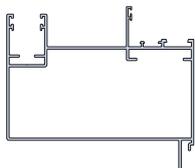
	Sagoma	Art.	Descrizione	Peso gr/m	Jxx cm ⁴ Jyy cm ⁴
		PL 2040	Fascia da 165mm, sezione 45mm <i>165mm central crossbeam, 45mm section</i>	1833	23,12 15,96
		PL 2041	Zoccolo da 158mm, sezione 45mm <i>158mm crossbeam, 45mm section</i>	1862	23,66 15,46
		PL 2042	Anta a T sporgere sormonto/telaio fisso a T battuta 17,5mm, muro 41,5mm <i>Top hung open out leaf/fixe frame wall 41,5mm, beat 17,5mm</i>	954	9,41 7,30
		PL 2047	Zoccolo riportato sezione 45mm <i>Fitted base, 45mm section</i>	1369	16,45 59,34
		PL 2048	Zoccolo riportato per ante PL 2011 e PL 2016, sezione 53mm <i>Fitted base for PL 2011 and PL 2016, 53mm section</i>	1267	21,90 47,91
		PL 2050	Telaio fisso a Z battuta 17,5mm, muro 41,5mm anta doppia battuta <i>Fixed Z frame for double rebeat wall 41,5mm, beat 17,5mm</i>	956	9,79 7,08
		PL 2051	Anta vetro infilare spazio vetro 25mm <i>beadless leaf, 25mm glass space</i>	1122	14,44 9,70
		PL 2052	Fascia vetro infilare 140mm spazio vetro 25mm, sezione 37mm <i>140mm beadless crossbeam 25mm glass space, 37mm space</i>	1530	14,13 10,89
		PL 2053	Traverso vetro infilare 59mm spazio vetro 25mm, sezione 37mm <i>59mm beadless tramson 25mm glass space, 37mm section</i>	846	6,84 7,82

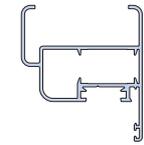
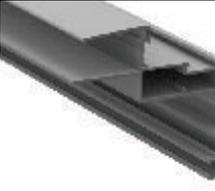
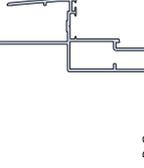
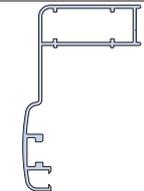
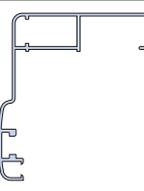
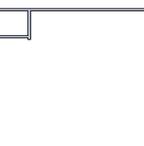
	Sagoma	Art.	Descrizione	Peso gr/m	Jxx cm ⁴ Jyy cm ⁴
		PL 2056	Anta per sporgere <i>Top hung open out leaf</i>	1123	13,75 11,41
		PL 2060	Guida tapparella <i>Shutter guide</i>	947	- -
		PL 2061	Spalla monoblocco con <i>Single-unit open shoulder</i>	1819	137,73 14,68
		PL 2063	Spalla aperta monoblocco <i>Single-unit open shoulder</i>	1993	147,14 57,32
		PL 2066	Supporto cassonetto monoblocco inferiore e superiore <i>Support for top and bottom single-unit shoulder</i>	199	- -
		PL 2068	Montante per finestre <i>Mullion for curtain wall</i>	2077	74,43 35,66
		PL 2069	Mezzo montatore per finestre <i>Half mullion for curtain wall</i>	1339	46,54 5,18
		PL 2070	Copricava per PL 2071 e PL 2073 <i>Counter-frame for PL 2071 and PL 2073</i>	214	- -
		PL 2071	Anta porte automatiche e ventola <i>Automatic door leaf</i>	1236	17,70 25,81

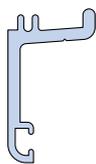
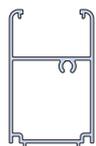
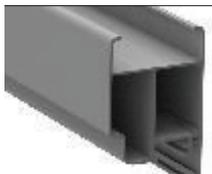
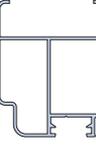
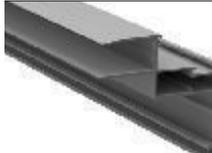
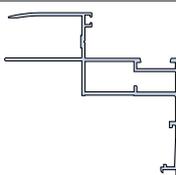
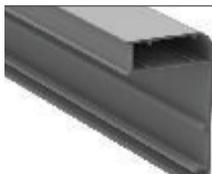
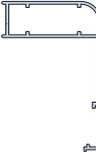
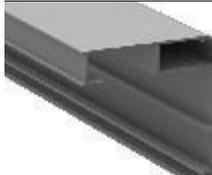
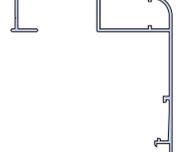
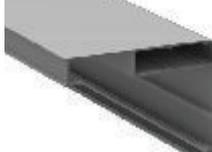
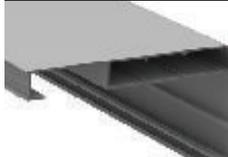
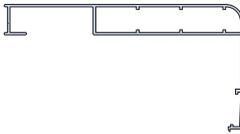
	Sagoma	Art.	Descrizione	Peso gr/m	Jxx cm ⁴ Jyy cm ⁴
		PL 2072	Profilo di riempimento per porte automatiche <i>Finishing profile for automatic door</i>	331	- -
		PL 2073	Porta spazzolino abbinare con PL 2070 <i>Brush holder for PL 2070</i>	231	- -
		PL 2075	Profilo giunzione finestre <i>Glazing joint profile</i>	527	- -
		PL 2076	Controtelaio telescopico per finestre <i>Glazing counter-frame</i>	776	8,57 4,21
		PL 2077	Coprifilo <i>Counter-frame</i>	385	- -
		PL 2080	Profilo cornice <i>Frame</i>	1190	- -
		PL 2081	Profilo compensatore muro/telaio <i>Counter-frame</i>	404	- -
		PL 2084	Profilo per squadrette maggiorate, cianfrinare <i>Profile for oversized brackets, crimping</i>	6161	- -
		PL 2087	Anta liscia porte interne pannello da 40mm <i>Smooth leaf for inner door, 40mm section</i>	872	9,09 5,84

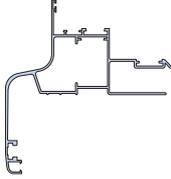
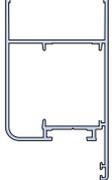
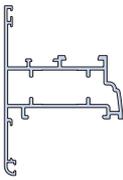
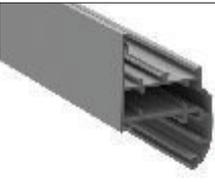
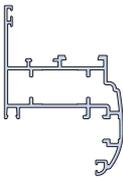
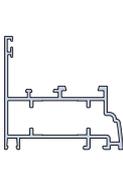
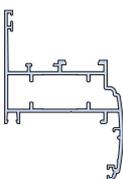
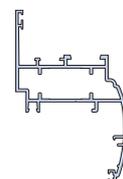
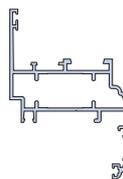
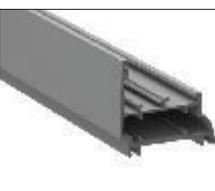
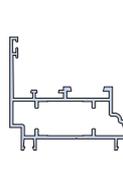
	Sagoma	Art.	Descrizione	Peso gr/m	Jxx cm ⁴ Jyy cm ⁴
		PL 2088	Traverso telaio monoblocco <i>Tramson frame for single-unit</i>	759	7,58 4,38
		PL 2089	Celino monoblocco <i>Single-unit celino</i>	827	- -
		PL 2090	Profilo per squadrette cianfrinare <i>Profile for bracket, crimping</i>	2720	- -
		PL 2091	Guida sottozoccolo porte automatiche scorrevoli <i>Under crossbead for automatic slide door</i>	304	- -
		PL 2092	Telaio angolo variabile <i>Variable angle frame</i>	763	- -
		PL 2093	Telaio angolo variabile <i>Variable angle frame</i>	720	- -
		PL 2094	Profilo scopello doppia battuta <i>Double beaten profile</i>	2315	167,14 24,78
		PL 2095	Profilo di abbinamento Slide 60 <i>Matching profile with slide 60</i>	1208	12,88 11,18
		PL 2096	Traverso 81mm per ante PL 2011 e PL 2016, sezione 53mm <i>81mm tramson for PL 2011 and PL 2016, 53mm section</i>	1029	16,18 12,38

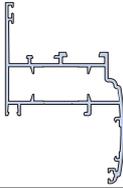
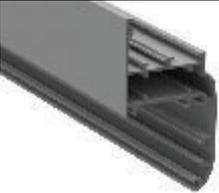
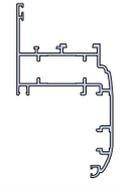
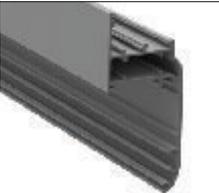
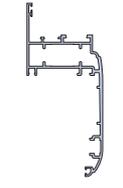
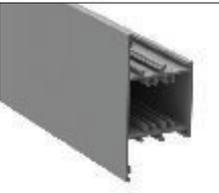
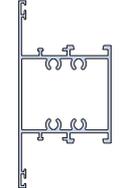
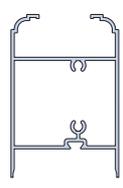
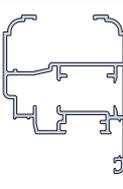
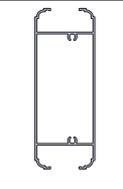
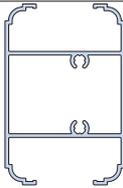
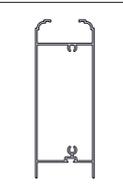
	Sagoma	Art.	Descrizione	Peso gr/m	Jxx cm ⁴ Jyy cm ⁴
		PL 2097	Riduttore vetro 12mm per ante porte interne <i>12mm glass reducer for inner door</i>	379	- -
		PL 2098	Riduttore vetro 24mm per ante porte interne <i>24mm glass reducer for inner door</i>	398	- -
		PL 2099	Soglia calpestabile <i>Threshold plate</i>	511	- -
		PL 20100	Gocciolatoio <i>Drip</i>	129	- -
		PL 20101	Telaio fisso a T complanare interno battuta 22mm, muro 48mm <i>Fixed T coplanar frame wall 48mm, beat 22mm</i>	951	11,81 7,59
		PL 20102	Telaio fisso a Z complanare interno battuta 22mm, muro 40mm <i>Fixed Z coplanar frame wall 40mm, beat 22mm</i>	1000	13,77 9,28
		PL 20103	Telaio fisso a L complanare interno <i>Fixed L coplanar inner frame</i>	885	10,37 4,45
		PL 20113	Riporto centrale raggiato <i>Pivot rebate</i>	984	11,81 6,94
		PL 20120	Inversione di battuta <i>Rebeat reversal</i>	745	6,70 3,94

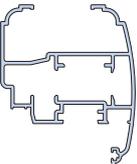
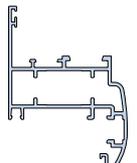
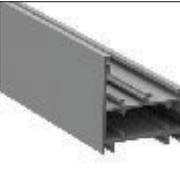
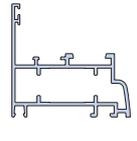
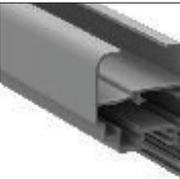
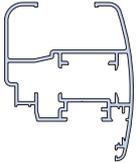
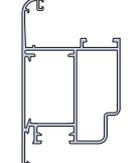
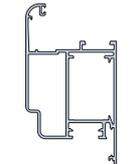
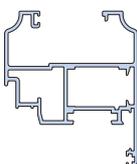
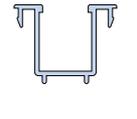
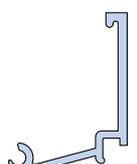
	Sagoma	Art.	Descrizione	Peso gr/m	Jxx cm ⁴ Jyy cm ⁴
		PL 20121	Telaio fisso a Z coplanare interno battuta 30mm, muro 40mm <i>Fixed Z coplanar inner frame wall 40mm, beat 22mm</i>	1053	14,81 12,70
		PL 20126	Rinforzo soglia ribassata <i>Lowered threshold reinforcement</i>	260	- -
		PL 20127	Soglia ribassata 25mm <i>25mm threshold plate</i>	500	- -
		PL 20136	Telaio fisso a T maggiorato doppia battuta, battuta 17,5mm, muro 41,5mm <i>Fixed T frame double rebate version wall 41,5mm, beat 17,5mm</i>	1146	12,53 21,02
		PL 20137	Telaio fisso a Z battuta 70mm, muro 40mm <i>Fixed Z frame wall 40mm, beat 70mm</i>	1177	13,48 36,26
		PL 20138	Traverso da 72mm per fissi e ante raggiate fissaggio con cavalletto <i>72mm transom for fixed frame and rounded leaf - fix clamp</i>	911	9,06 7,61
		PL 20148	Zoccolo riportato da 90mm vetro ad infilare <i>90mm fitted base beadless</i>	1103	9,58 35,98
		PL 20152	Fascia da 100mm, porte interne <i>100mm crossbead, interior door</i>	1308	16,37 40,99
		PL 20163	Spalla chiusura monoblocco <i>Single-unit closed shoulder</i>	2785	19,60 93,31

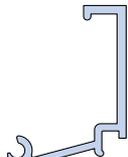
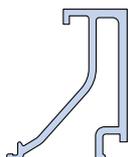
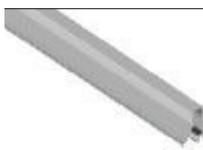
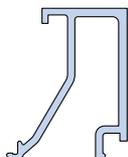
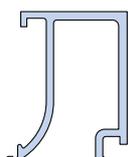
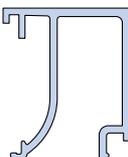
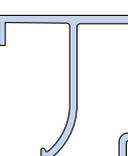
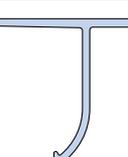
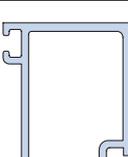
	Sagoma	Art.	Descrizione	Peso gr/m	Jxx cm ⁴ Jyy cm ⁴
		PL 20187	Anta raggiata porte interne <i>Rounded leaf for interior door</i>	947	12,39 6,47
		PL 20190	Telaio fisso per porte interne <i>Fixed frame for interior door</i>	1359	33,32 25,60
		PL 20192	Imbotte per telai a L maggiorati <i>Wall profile for oversized L frame</i>	636	- -
		PL 20193	Imbotte da 45mm <i>45mm wall profile</i>	946	- -
		PL 20194	Imbotte da 75mm <i>75mm wall profile</i>	1149	- -
		PL 20195	Imbotte da 105mm <i>105mm wall profile</i>	1306	- -
		PL 20196	Prolunga imbotti da 90mm <i>90mm wall profile extension</i>	686	- -
		PL 20198	Imbotte da 135mm <i>135mm wall profile</i>	1504	- -
		PL 20226	Profilo copricava per PL 20163, PL 2063, PL 20325, PL 2077, PL 2071 <i>Cable cover profile for PL 20163, PL 2063, PL 20325, PL 2077, PL 2071</i>	95	- -

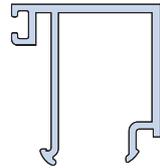
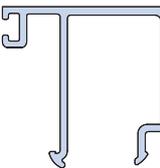
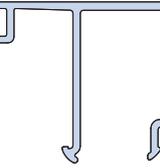
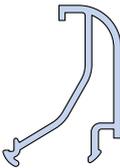
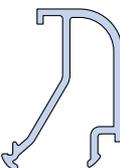
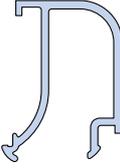
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		PL 20228	Battuta riportata 22mm per telai fissi <i>22mm fitted rebate for fixed Z frame</i>	225	- -
		PL 20248	Zoccolo riportato da 59mm, vetro infilare sezione 37mm <i>59mm fitted base, beadless 37mm section</i>	847	6,83 11,42
		PL 20287	Anta raggiata maggiorata porte interne pannello da 40mm <i>Oversized rounded leaf for interior door, 40mm section</i>	1215	17,64 22,18
		PL 20290	Telaio fisso liscio per porte interne <i>Fixed smooth frame for interior door</i>	1192	27,55 20,47
		PL 20293	Imbotte da 48,5mm <i>48,5mm wall profile</i>	832	- -
		PL 20294	Imbotte da 78,5mm <i>78.5mm wall profile</i>	1022	- -
		PL 20295	Imbotte da 103mm <i>103mm wall profile</i>	1236	- -
		PL 20296	Imbotte da 108,5mm <i>108,5mm wall profile</i>	816	- -
		PL 20298	Imbotte da 138,5mm <i>138,5mm wall profile</i>	1472	- -

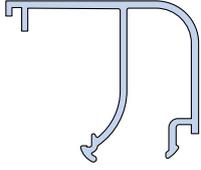
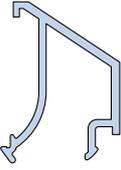
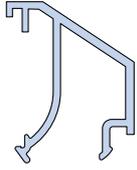
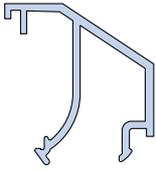
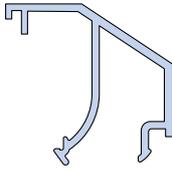
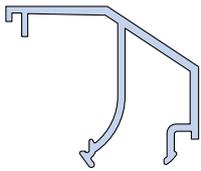
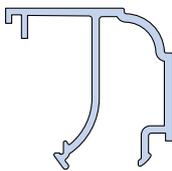
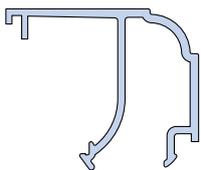
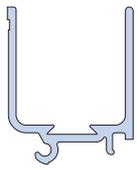
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		PL 20325	Telaio capannoni con coprivite <i>Industrial shed frame with screw cover</i>	2337	- -
		PL 20387	Anta porte interne maggiorata dritta pannello da 40mm <i>Oversized leaf for interior door, 40mm section</i>	1035	12,27 17,00
		PL 2101	Telaio fisso a T modanato complanare interno battuta 25mm, muro 47mm <i>Fixed T molded complanar inner frame wall 47mm, beat 25mm</i>	953	11,83 8,52
		PL 2102	Telaio fisso a Z modanato complanare interno battua 25mm, muro 40mm <i>Fixed Z molded complanar inner wall 47mm, beat 25mm</i>	1063	13,44 9,99
		PL 2103	Telaio fisso a L modanato complanare interno <i>Fixed L molded complanar inner frame</i>	844	10,21 4,72
		PL 2104	Telaio fisso a Z modanato con scalino, filo cerniera battuta 35mm, muro 40mm <i>Fixed Z molded wall 40mm, beat 35mm</i>	980	10,21 4,72
		PL 2105	Telaio fisso a Z modanato con scalino, filo cerniera battuta 35mm, muro 40mm <i>Fixed Z molded frame, wall 40mm, beat 35mm</i>	1050	14,88 13,15
		PL 2108	Telaio fisso a Z modanato con scalino, filo cerniera battuta 25mm, muro 40mm <i>Fixed Z molded frame, wall 40mm, beat 25mm</i>	1006	13,80 9,21
		PL 2109	Telaio fisso a L modanato con scalino <i>Fixed L molded frame</i>	840	10,04 4,39

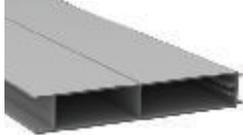
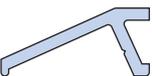
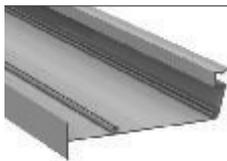
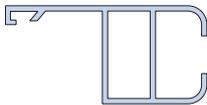
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		PL 2121	Telaio fisso a Z modanato filo cerniera, battuta 45mm, muro 45mm <i>Fixed Z molded frame, wall 45mm, beat 45mm</i>	1001	13,93 10,81
		PL 2122	Telaio fisso a Z modanato, battuta 70mm, muro 40mm <i>Fixed Z molded frame, wall 40mm, beat 70mm</i>	1149	15,50 20,43
		PL 2124	Telaio fisso a Z modanato, battuta 70mm, muro 40mm <i>Fixed Z molded frame, wall 40mm, beat 70mm</i>	1340	18,36 44,14
		PL 2138	Traverso da 92mm per fissi ed ante raggiate, fissaggio con viti <i>92mm transom for rounded fixed and leaf - fixing with screws</i>	1238	12,54 21,25
		PL 2148	Zoccolo modanato vetro infilare spazio vetro 25mm <i>Beadless molded crossbead, 25mm glass space</i>	1285	20,34 26,58
		PL 2151	Anta modanata vetro infilare spazio vetro 25mm <i>Beadless molded leaf, 25mm glass space</i>	1195	17,31 13,73
		PL 2152	Fascia modanata vetro infilare da 142mm, spazio vetro 25mm, sezione 52,5mm <i>142mm Beadless molded crossbead 25mm glass space, 52,5mm section</i>	1885	34,10 15,26
		PL 2153	Traverso modanato vetro infilare da 80mm, spazio vetro 25mm, sezione 52,5mm <i>80mm molded transom 25mm glass space, 52,5mm section</i>	1328	21,26 28,62
		PL 21148	Zoccolo modanato vetro infilare da 142mm, spazio vetro 25mm, sezione 52,5 <i>142mm beadless molded fitted base 25mm glass space, 52,5 section</i>	1831	33,48 14,85

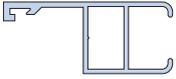
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		PL 21151	Anta modanata bombata vetro ad infilare, spazio vetro 25mm <i>Beadless convex molded leaf, 25mm glass space</i>	1225	19,66 14,33
		PL 2202	Telaio fisso a Z bombato complanare interno, battuta 22mm, muro 40mm <i>Fixed Z convex molded frame, wall 40mm, beat 22mm</i>	1059	13,52 9,72
		PL 2203	Telaio fisso a L bombato complanare interno <i>Fixed L convex frame coplanar inner</i>	843	10,41 4,74
		PL 22151	Anta bombata vetro ad infilare spazio vetro 25mm <i>Beadless convex leaf, 25mm glass space</i>	1231	18,10 13,80
		PL 2336	Anta maggiorata doppia battuta apertura esterna <i>Oversized leaf double rebeat, external opening</i>	1692	19,11 32,37
		PL 2337	Anta maggiorata doppia <i>Double oversized leaf</i>	1667	20,59 32,30
		PL 2857	Anta vetro infilare <i>Beadless leaf</i>	1110	14,25 9,57
		PL 6097	Riduttore vetro da 12mm <i>12mm glass reducer for inner door</i>	246	- -
		PL 1404	Fermavetro retto da 3,5mm <i>3,5mm smooth glazing bead</i>	190	- -

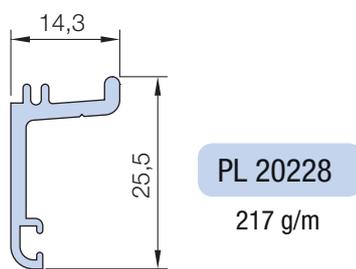
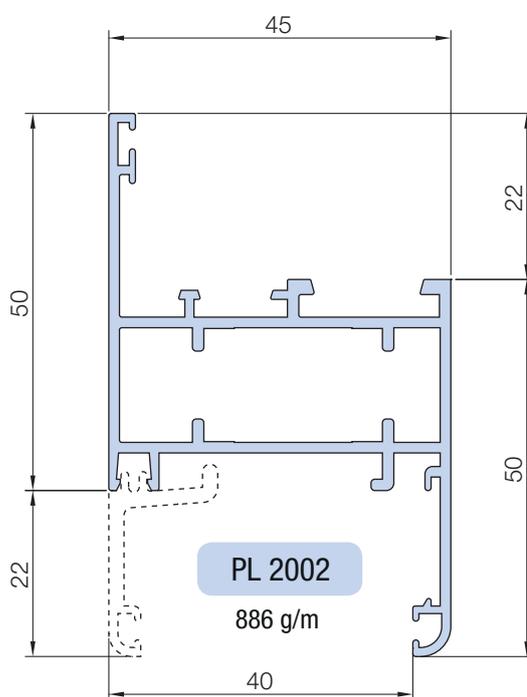
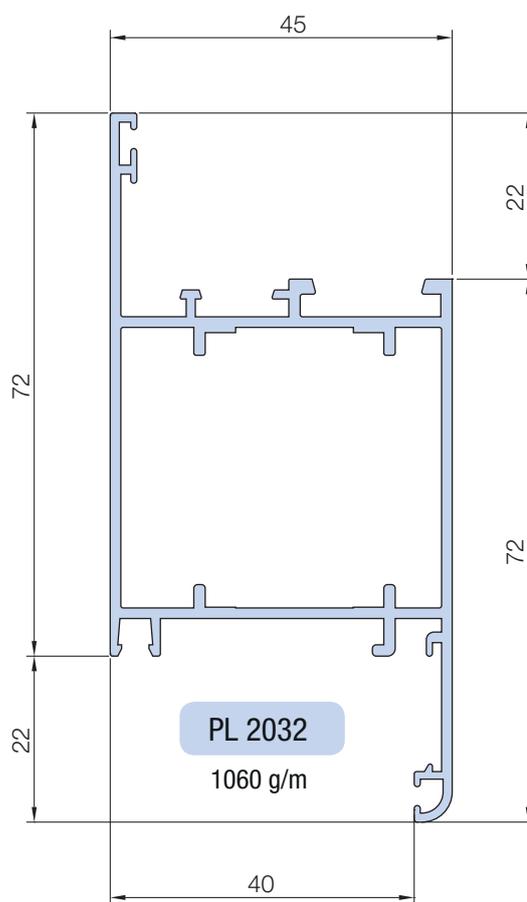
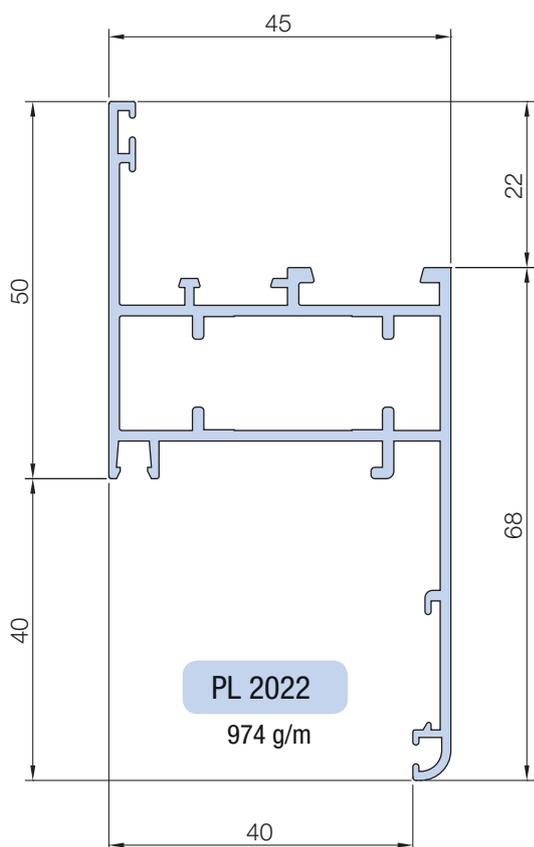
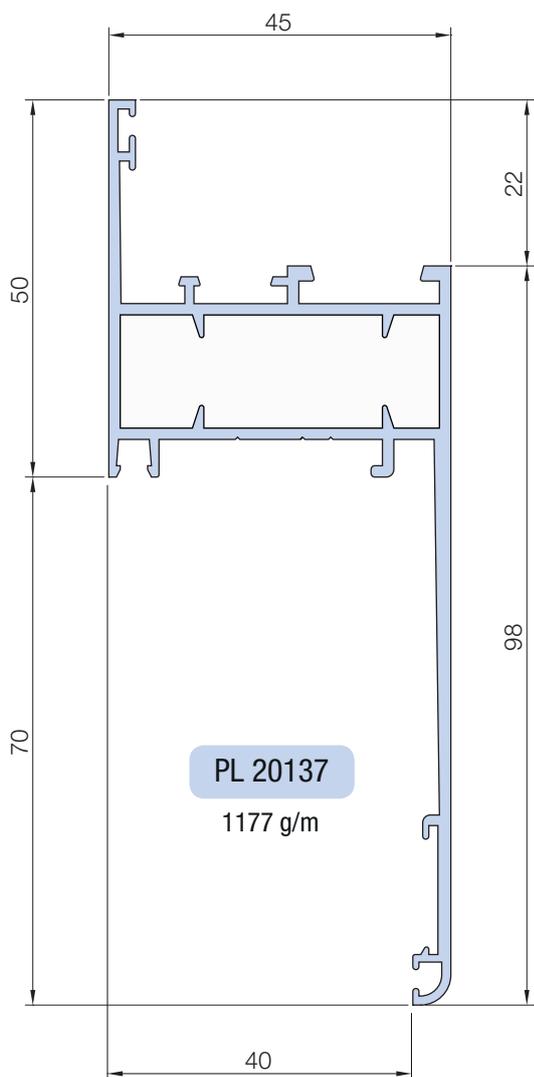
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		PL 1407	Fermavetro retto da 7mm <i>7mm smooth glazing bead</i>	206	- -
		PL 1411	Fermavetro retto da 10,5mm <i>10,5mm smooth glazing bead</i>	252	- -
		PL 1414	Fermavetro retto da 14mm <i>14mm smooth glazing bead</i>	257	- -
		PL 1418	Fermavetro retto da 17,5mm <i>17,5mm smooth glazing bead</i>	268	- -
		PL 1421	Fermavetro retto da 21mm <i>21mm smooth glazing bead</i>	290	- -
		PL 1425	Fermavetro retto da 24,5mm <i>24,5mm smooth glazing bead</i>	304	- -
		PL 1428	Fermavetro retto da 27,5mm <i>27,5mm smooth glazing bead</i>	312	- -
		PL 1432	Fermavetro retto da 31,7mm <i>31,7mm smooth glazing bead</i>	331	- -
		PL 14121	Fermavetro retto con portaguarnizione da 21mm <i>Flat glazing bead for 21mm fixed</i>	280	- -

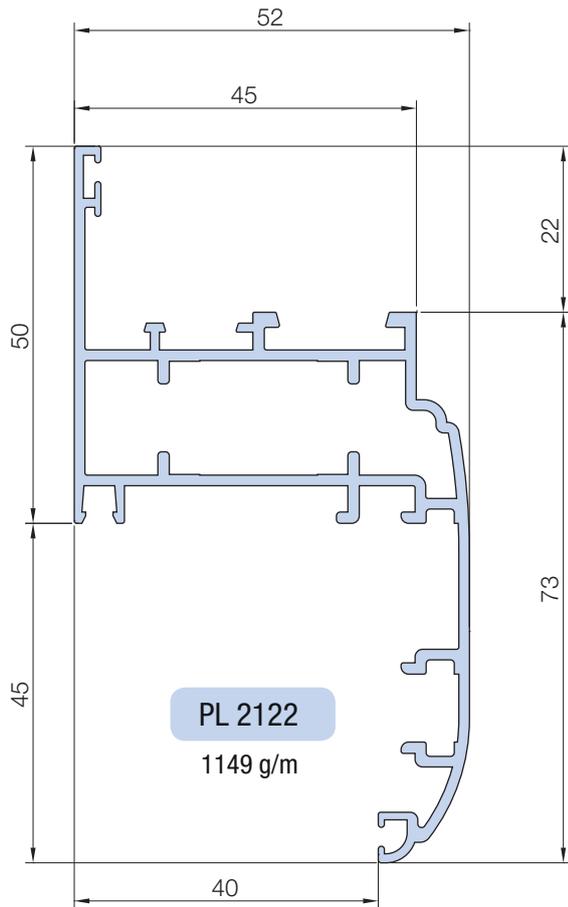
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		PL 14125	Fermavetro retto con portaguarnizione da 25mm <i>Flat glazing bead for 25mm fixed</i>	313	- -
		PL 14128	Fermavetro retto con portaguarnizione da 27,5mm <i>Flat glazing bead for 27,5mm fixed</i>	323	- -
		PL 14132	Fermavetro retto con portaguarnizione da 32mm <i>Flat glazing bead for 32mm fixed</i>	338	- -
		PL 1511	Fermavetro raggiato da 10,2mm <i>10,2mm rounded glazing bead</i>	238	- -
		PL 1514	Fermavetro raggiato da 14mm <i>14mm rounded glazing bead</i>	247	- -
		PL 1518	Fermavetro raggiato da 17,5mm <i>17,5mm rounded glazing bead</i>	257	- -
		PL 1521	Fermavetro raggiato da 21mm <i>21mm rounded glazing bead</i>	279	- -
		PL 1525	Fermavetro raggiato da 24,5mm <i>24,5mm rounded glazing bead</i>	290	- -
		PL 1528	Fermavetro raggiato da 27,5mm <i>27,5mm rounded glazing bead</i>	301	- -

	Sagoma	Art.	Descrizione	Peso gr/m	Jxx cm ⁴ Jyy cm ⁴
		PL 1532	Fermavetro raggiato da 31,7mm <i>31,7mm rounded glazing bead</i>	317	- -
		PL 1818	Fermavetro smussato da 17,5mm <i>17,5mm bevelled glazing bead</i>	236	- -
		PL 1821	Fermavetro smussato da 21mm <i>21mm bevelled glazing bead</i>	258	- -
		PL 1825	Fermavetro smussato da 24,5mm <i>24,5mm bevelled glazing bead</i>	270	- -
		PL 1828	Fermavetro smussato da 27,5mm <i>27,5mm bevelled glazing bead</i>	279	- -
		PL 1832	Fermavetro smussato da 31,7mm <i>31,7mm bevelled glazing bead</i>	296	- -
		PL 1928	Fermavetro modanato da 27,5mm <i>27,5mm molded glazing bead</i>	298	- -
		PL 1932	Fermavetro modanato da 31,7mm <i>31,7mm molded glazing bead</i>	317	- -
		PL 1325	Fermavetro Easysun da 24,5mm <i>24,5mm Easysun glazing bead</i>	348	- -

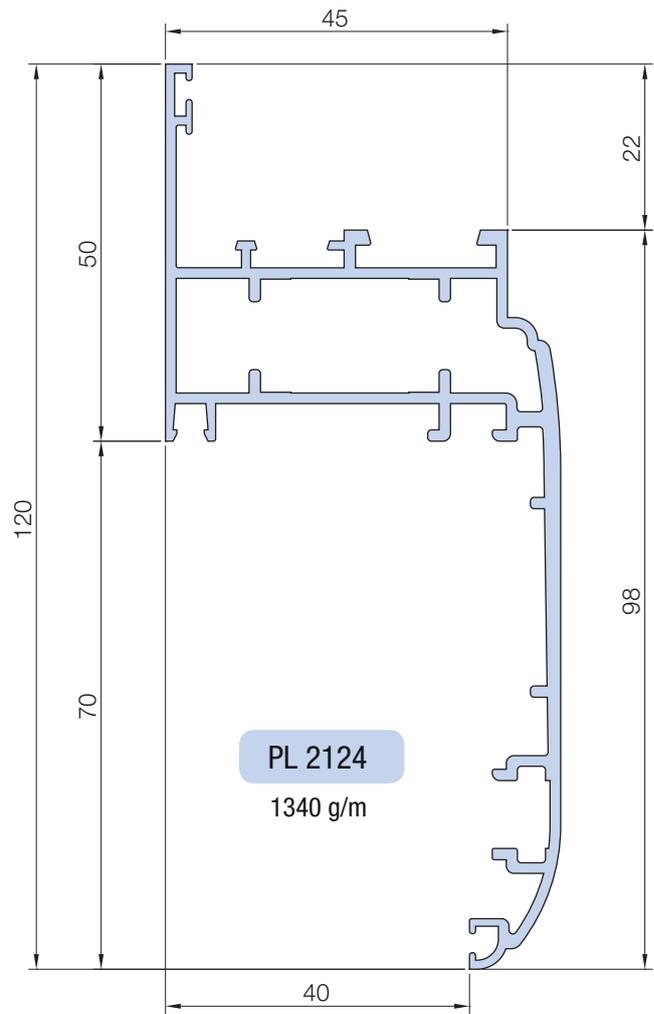
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		PL 4018	Porta spazzolino <i>Brush strip profile</i>	340	
		R 3521	Doga sezione 20mm per 120mm <i>Crossbead 20x120mm</i>	1001	- -
		AS 1000	Astina <i>Small rod</i>	119	- -
		AS1001R	Gocciolatoio <i>Drip</i>	127	- -
		AS 4864	Cassonetto inferiore e superiore <i>Top and bottom shutter-box</i>	1218	- -
		AS 4865	Cassonetto frontale <i>Front shutter-box</i>	1110	- -
		AS48111	Scuretto <i>Shutter</i>	555	- -
		AS48167	Profilo copricava bombato per monoblocco <i>Convex cable cover profile for single-unit</i>	160	- -
		1484	Doga sezione 19,5mm per 100mm <i>Crossbead 19,5x100mm</i>	982	- -

	Sagoma	Art.	Descrizione	Peso gr/m	Jxx cm ⁴ Jyy cm ⁴
		ET00633	Scuretto piccolo <i>Small shutter</i>	390	- -

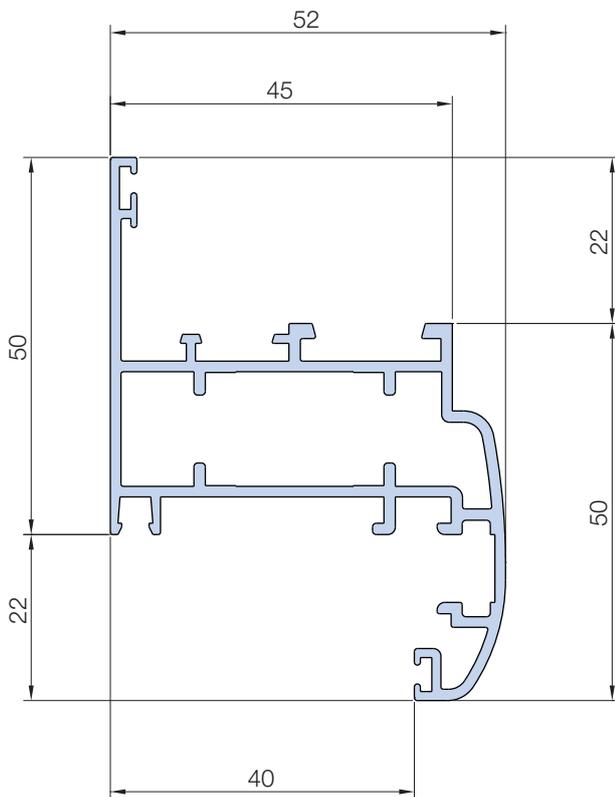




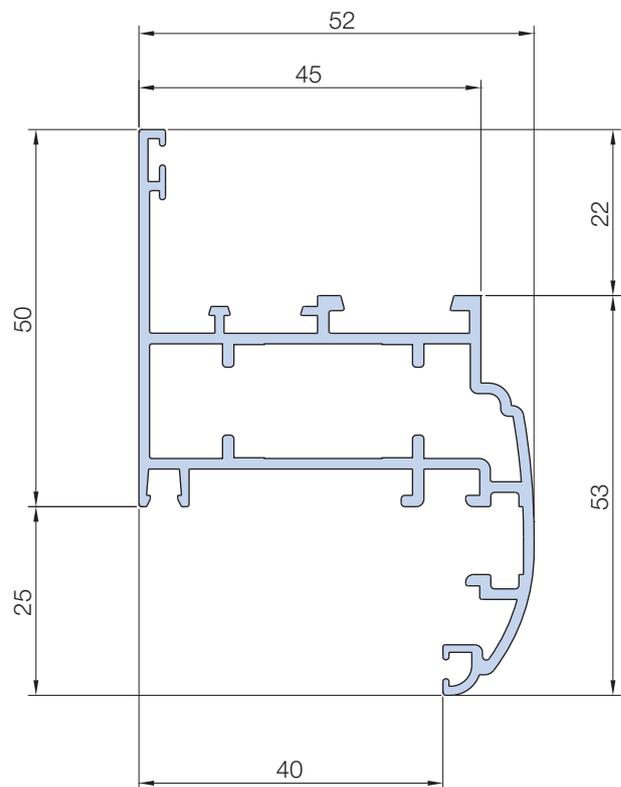
PL 2122
1149 g/m



PL 2124
1340 g/m

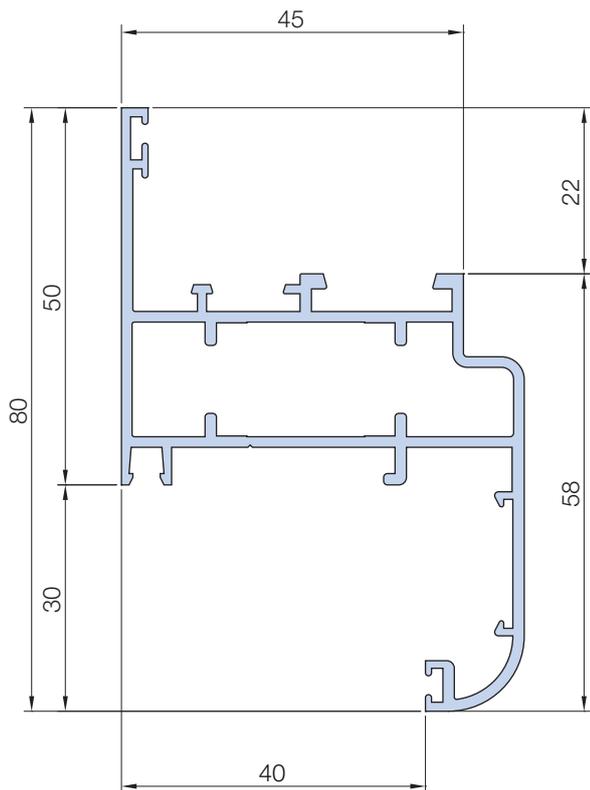


PL 2202
1059 g/m



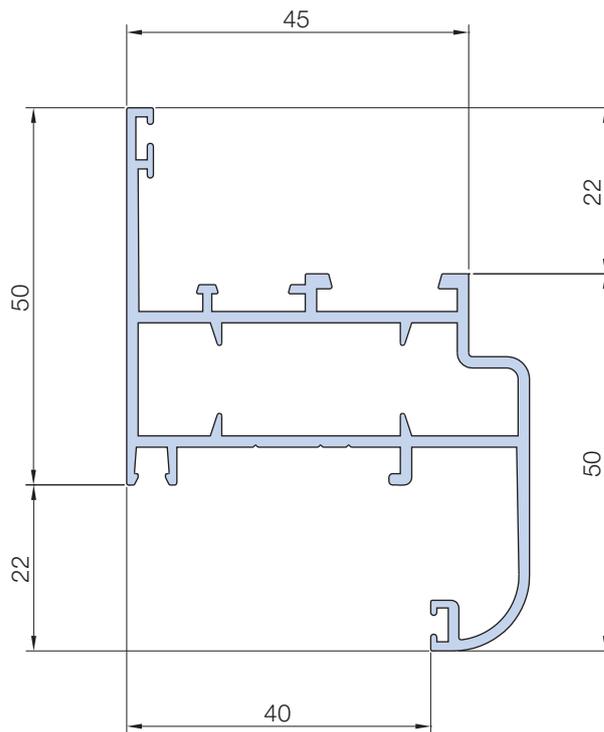
PL 2102
1063 g/m

SAGOMARIO
Profile representation



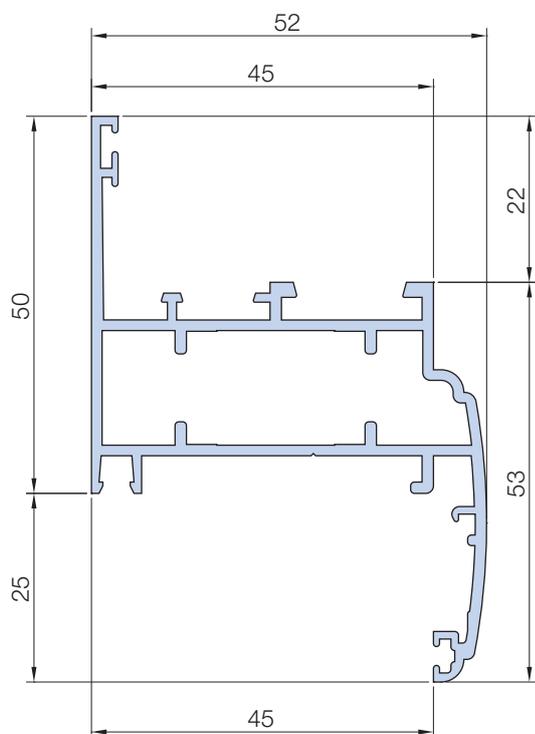
PL 20121

1053 g/m



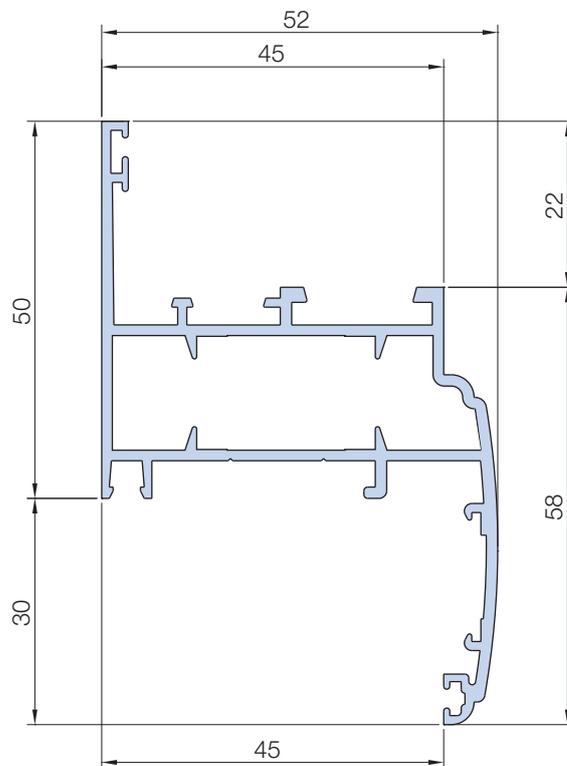
PL 20102

1015 g/m



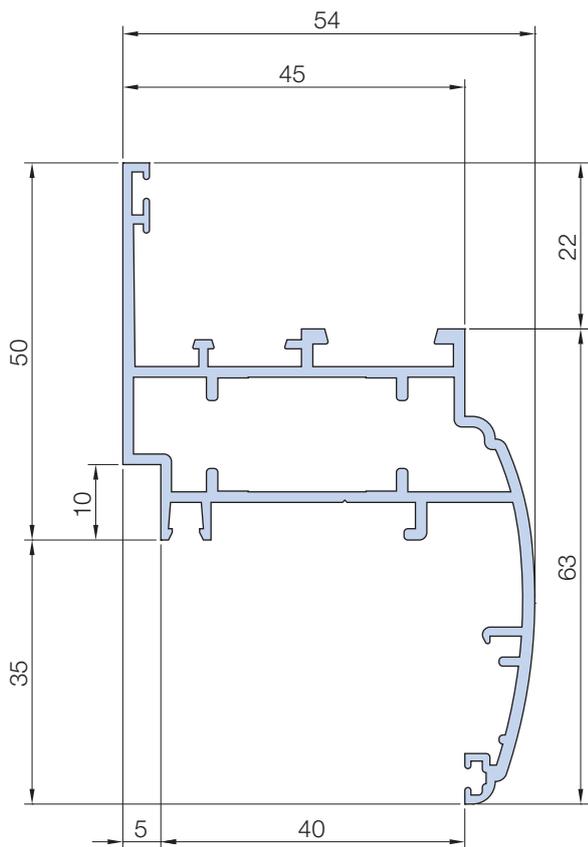
PL 2104

980 g/m



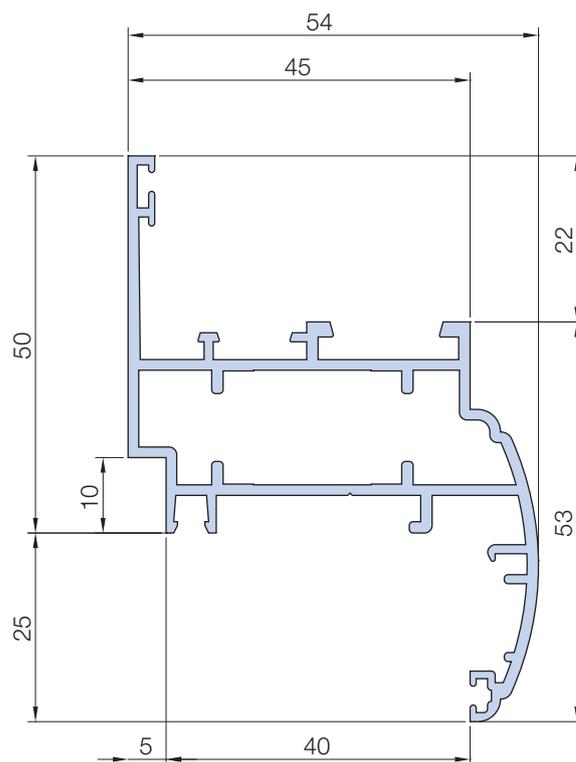
PL 2121

1001 g/m



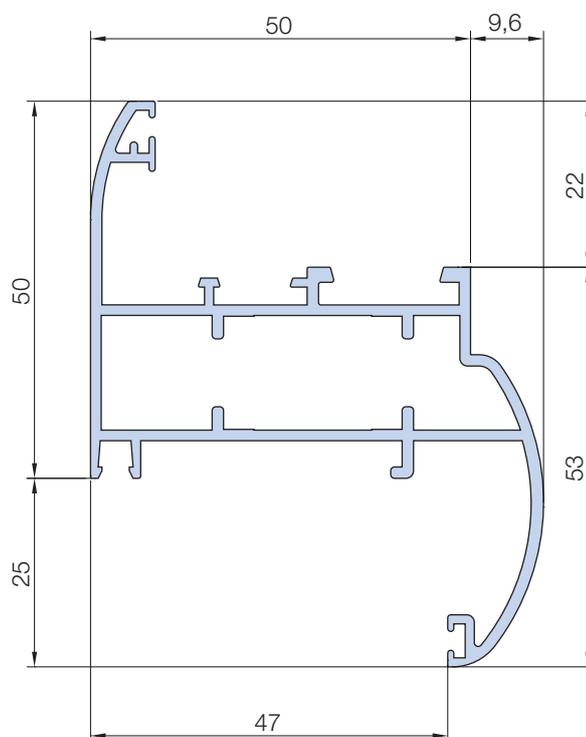
PL 2105

1050 g/m



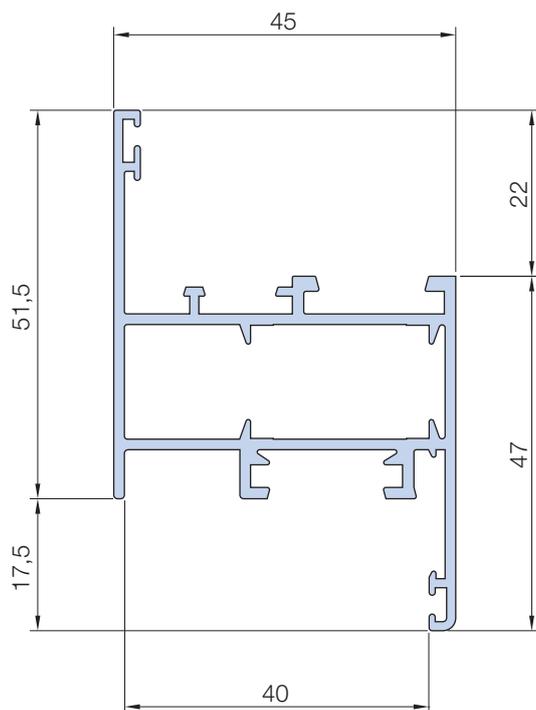
PL 2108

1006 g/m

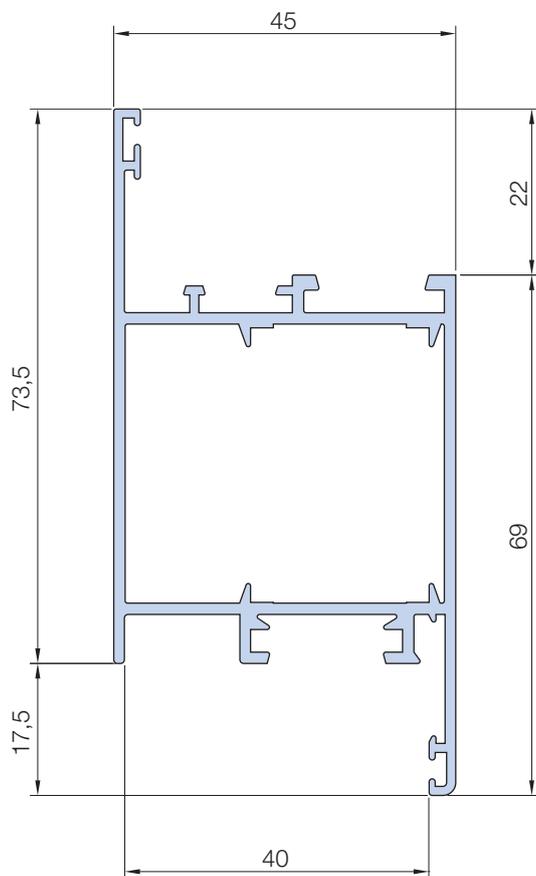


PL 2008

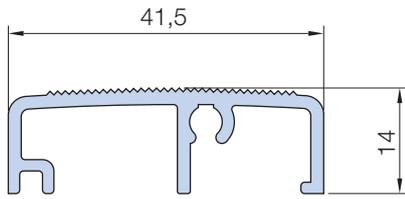
1064 g/m



PL 2050
914 g/m

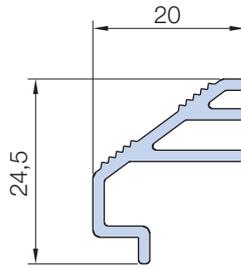


PL 2035
1176 g/m



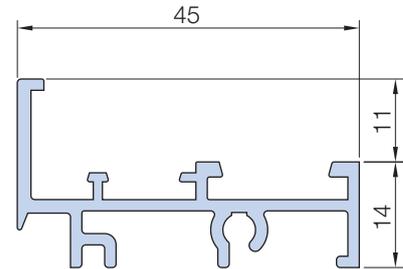
PL 2099

511 g/m



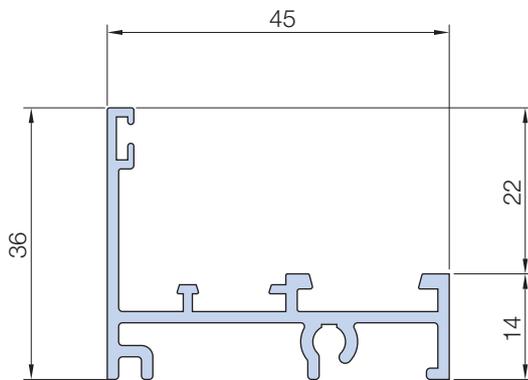
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260 g/m



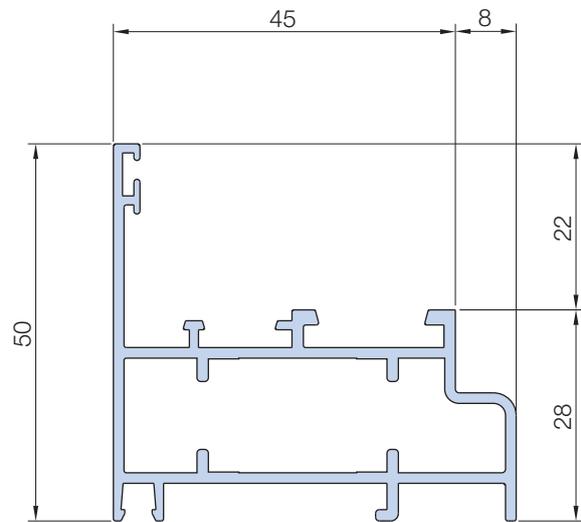
PL 20127

500 g/m



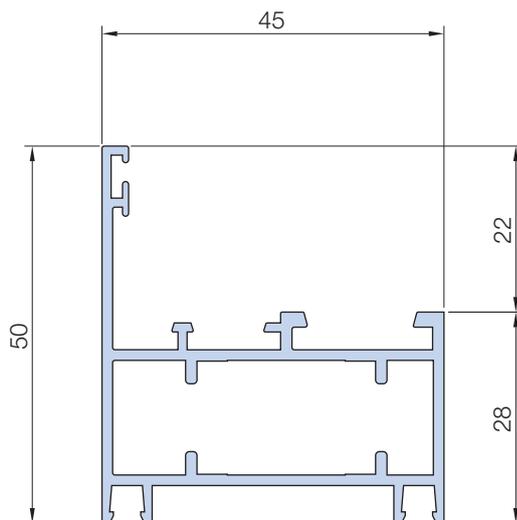
PL 2006

537 g/m



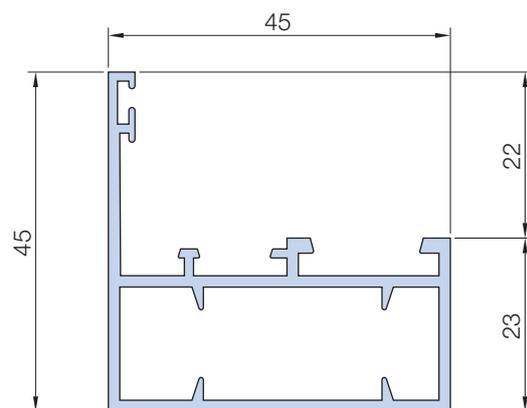
PL 20103

885 g/m



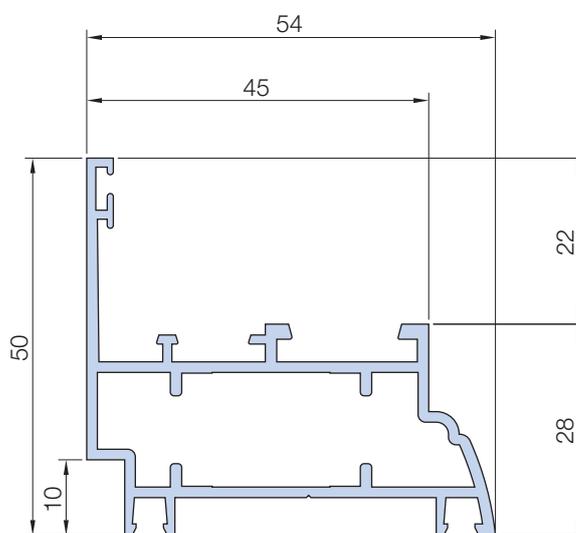
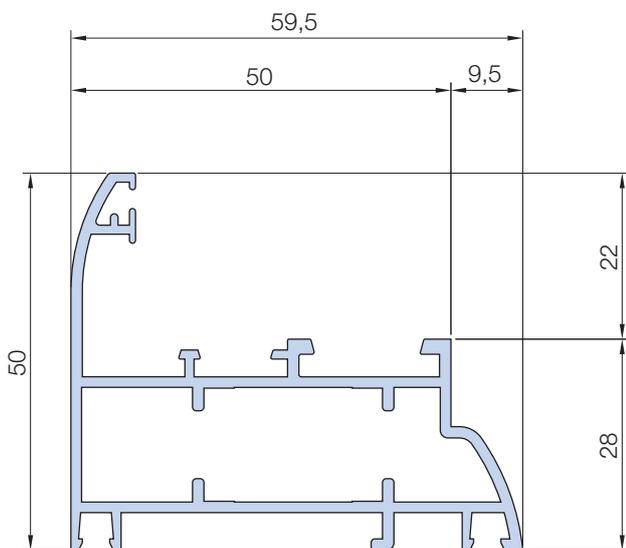
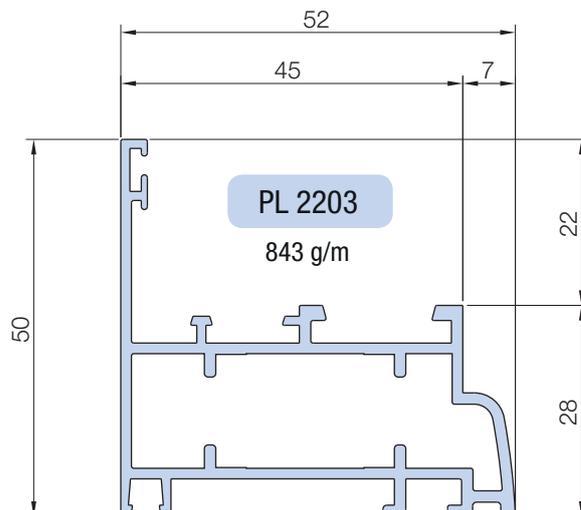
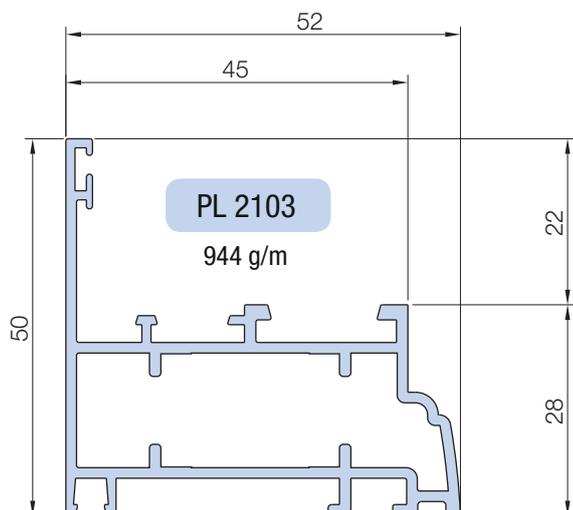
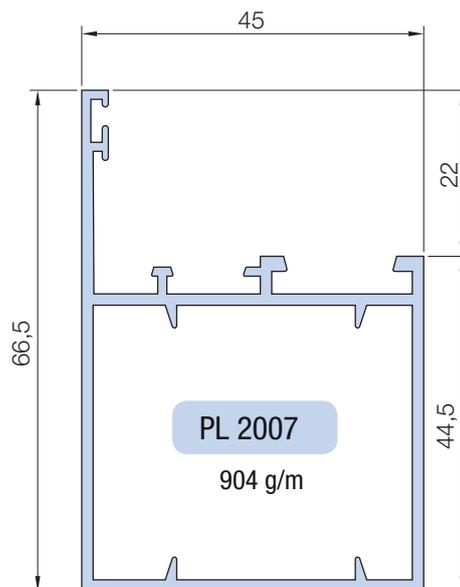
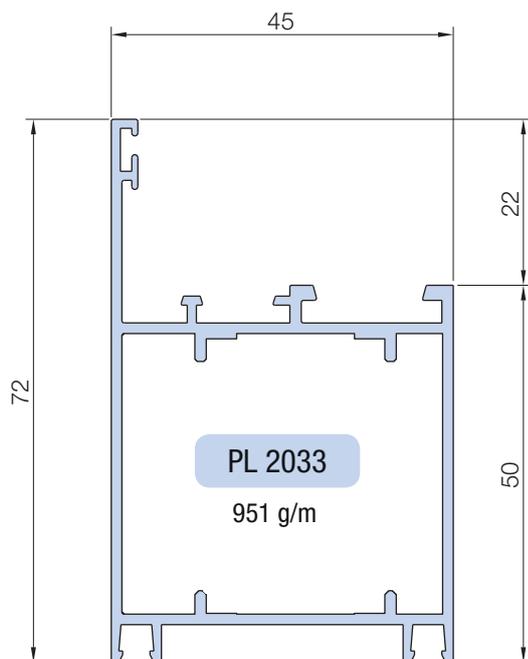
PL 2003

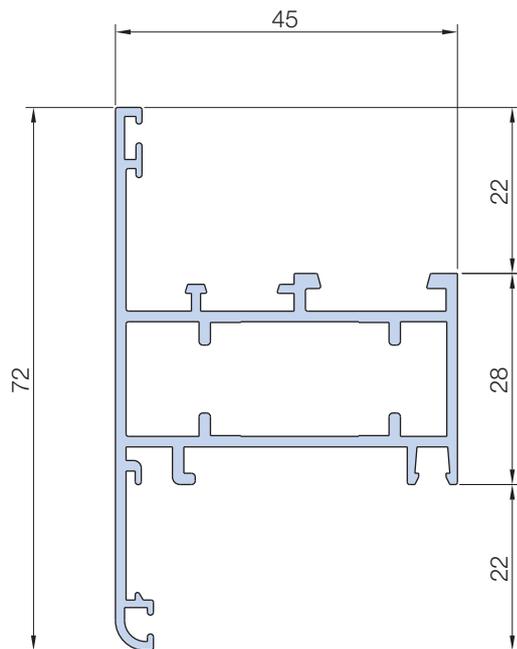
774 g/m



PL 2004

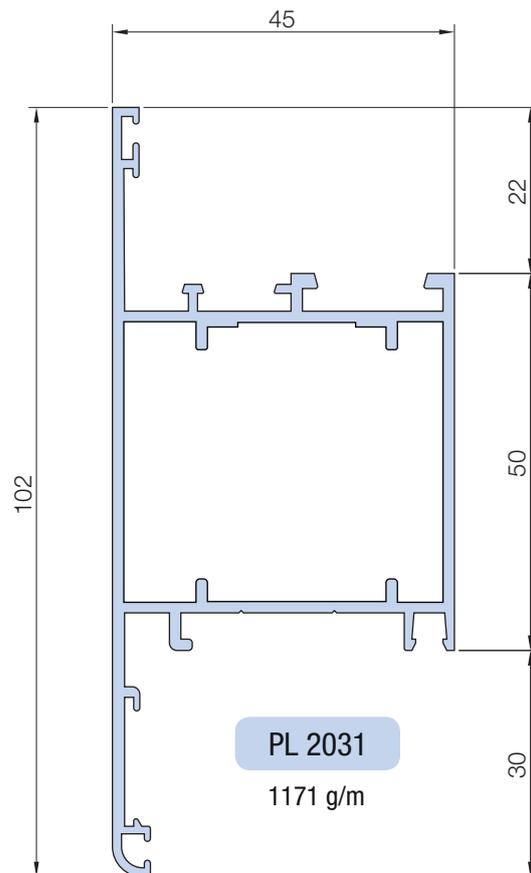
731 g/m





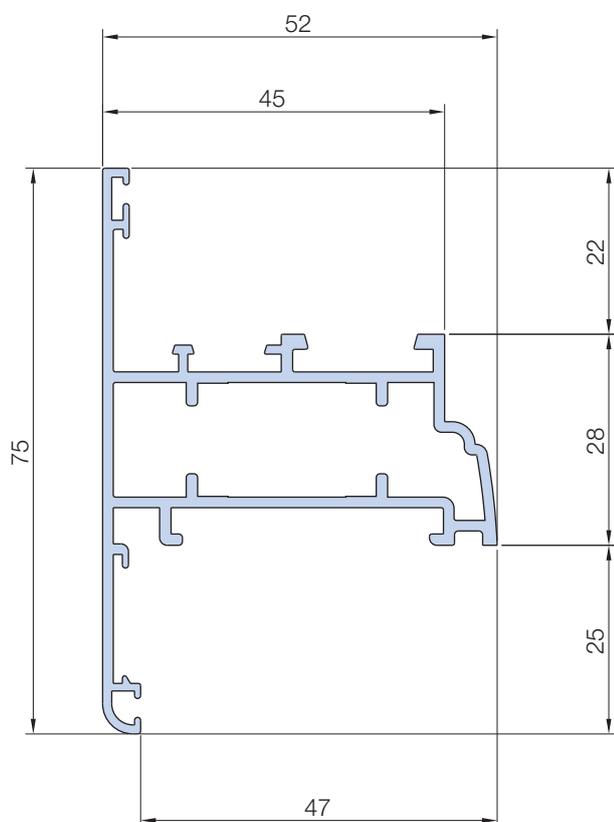
PL 2001

897 g/m



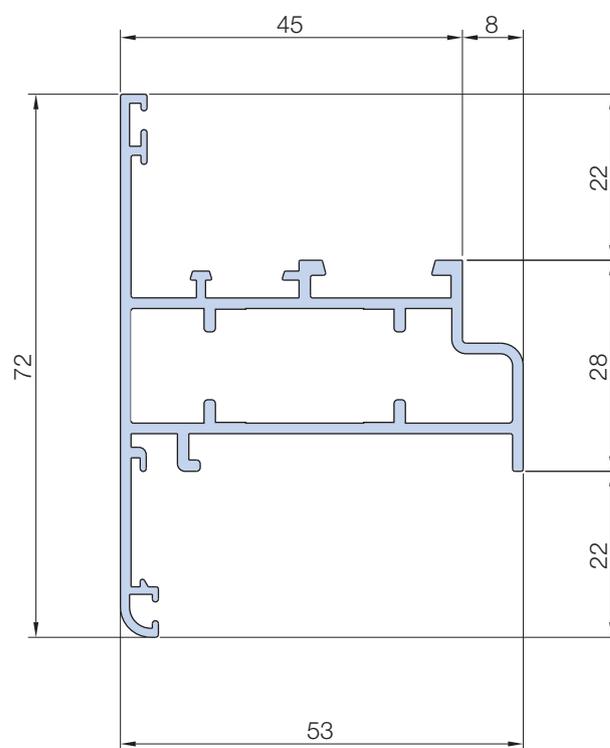
PL 2031

1171 g/m



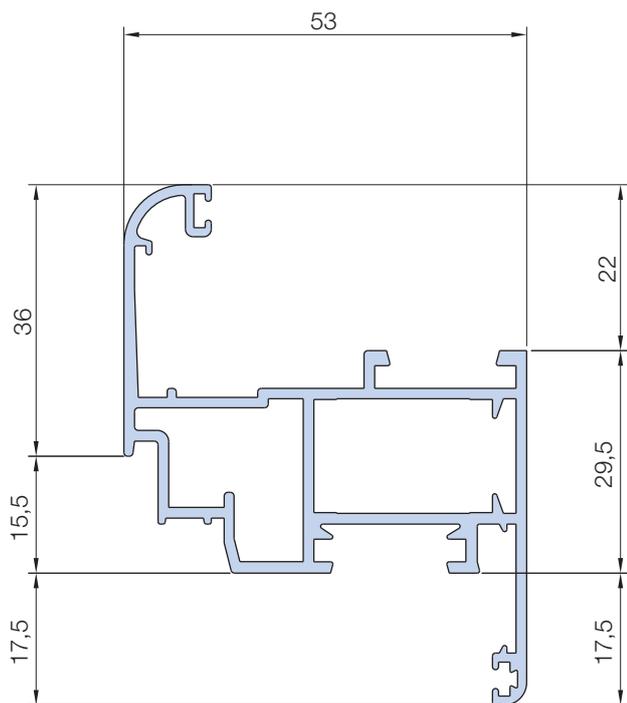
PL 2101

953 g/m



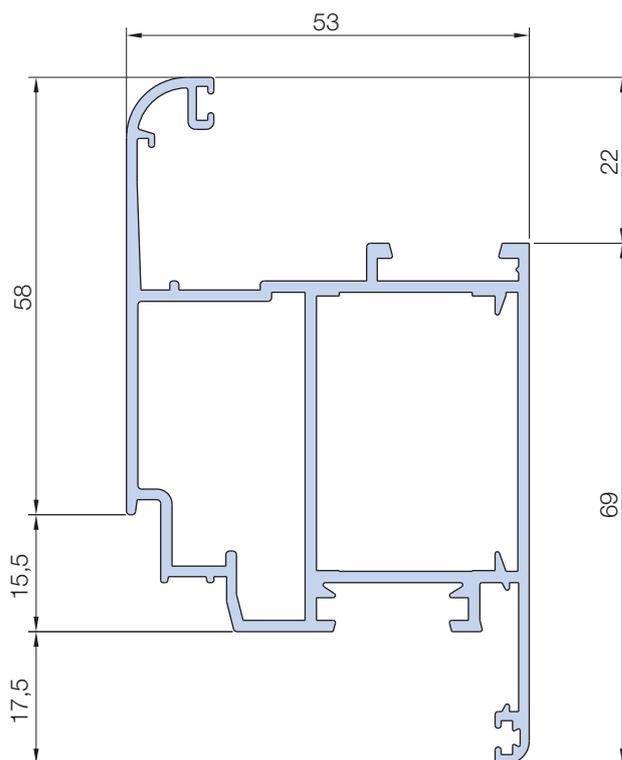
PL 20101

951 g/m



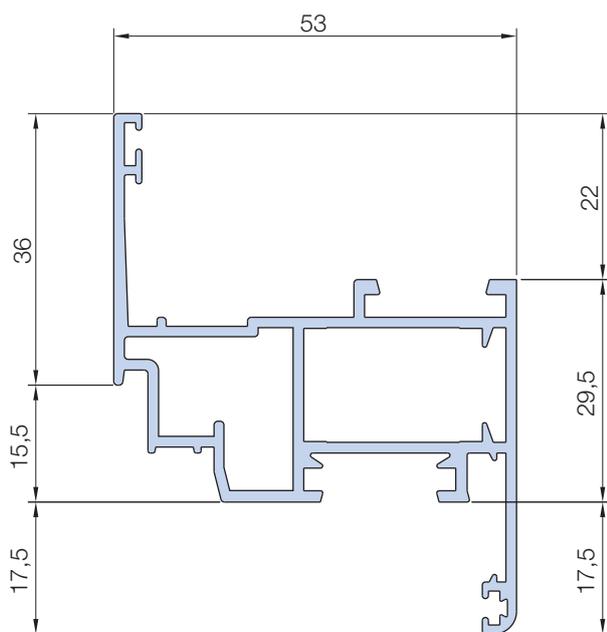
PL 2012

1060 g/m



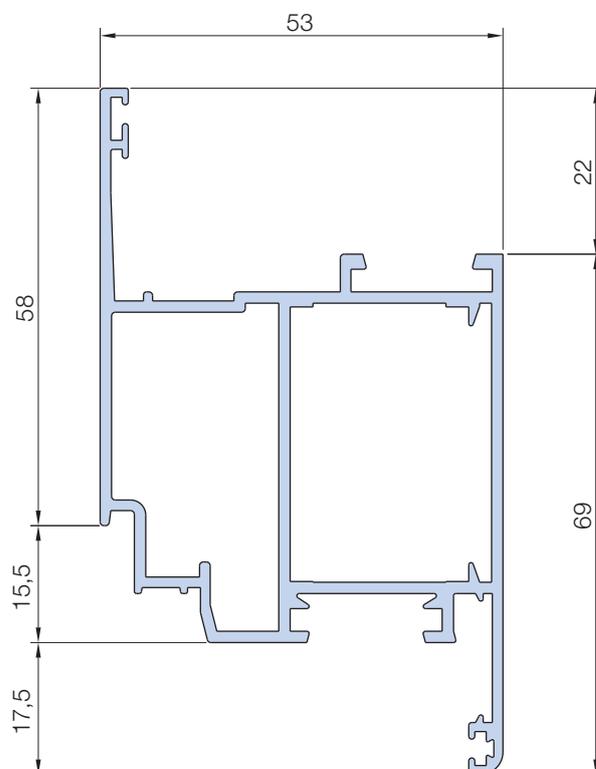
PL 2017

1321 g/m



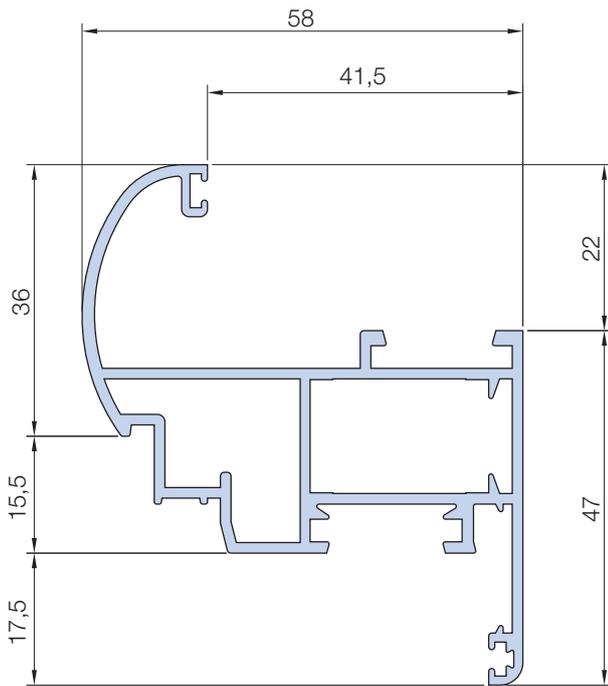
PL 2011

996 g/m

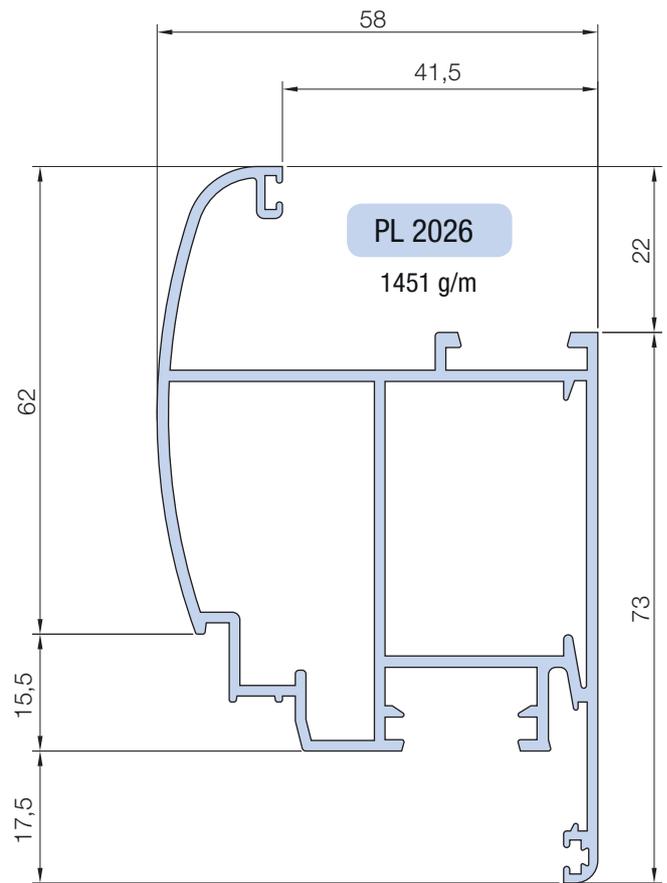


PL 2016

1303 g/m

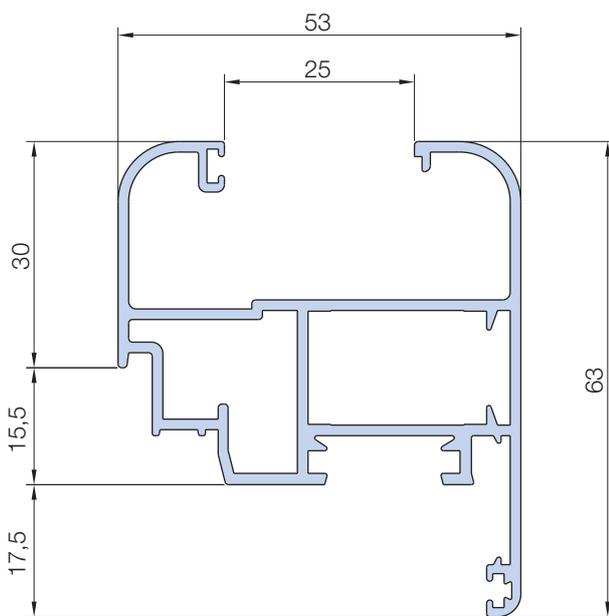


PL 2025
1087 g/m

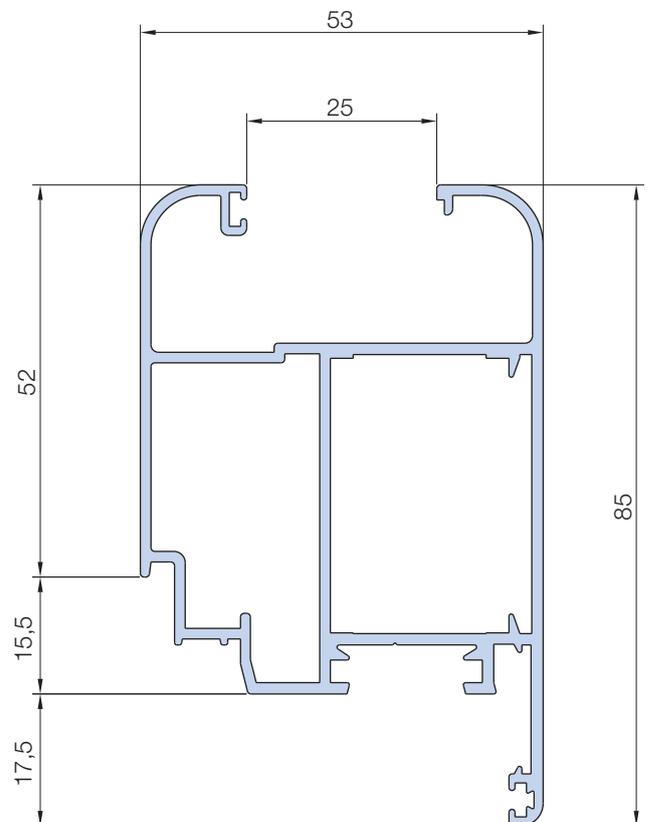


PL 2026
1451 g/m

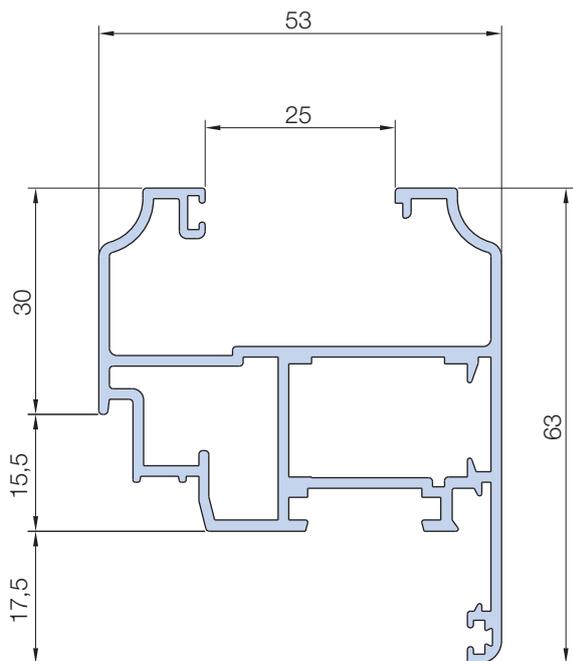
SAGOMARIO
Profile representation



PL 2051
1122 g/m

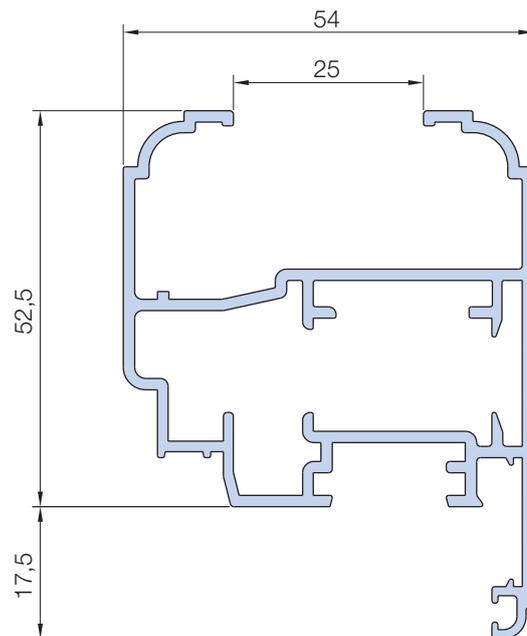


PL 2018
1350 g/m



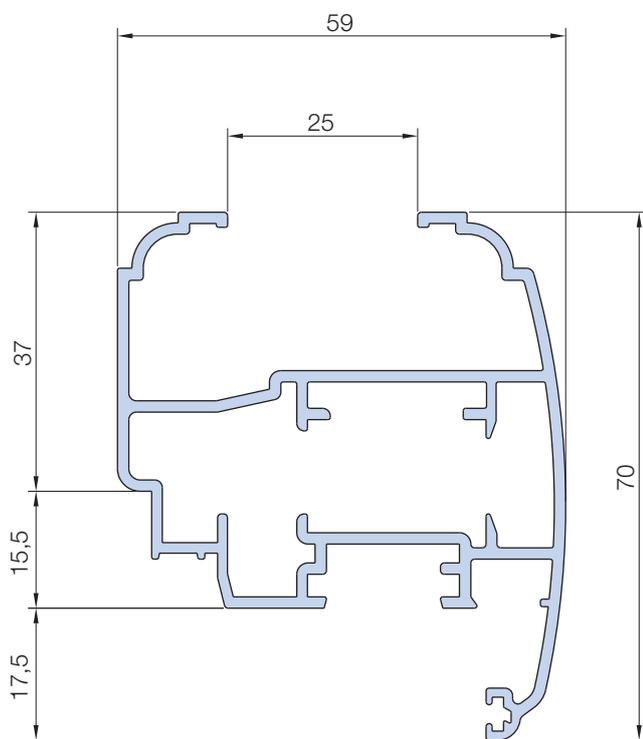
PL 2857

1110 g/m



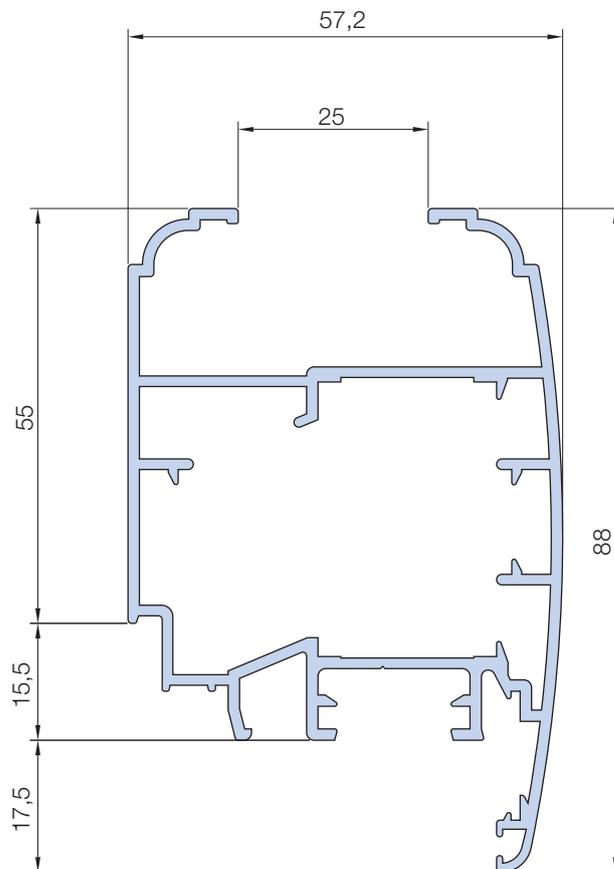
PL 2151

1243 g/m



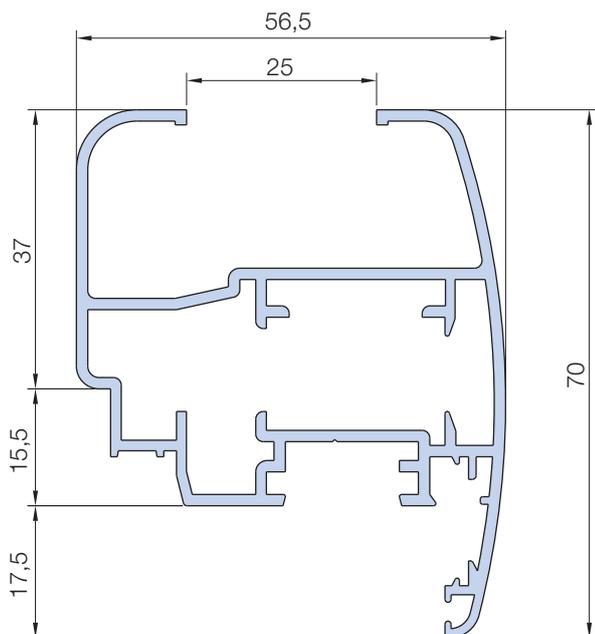
PL 21151

1225 g/m



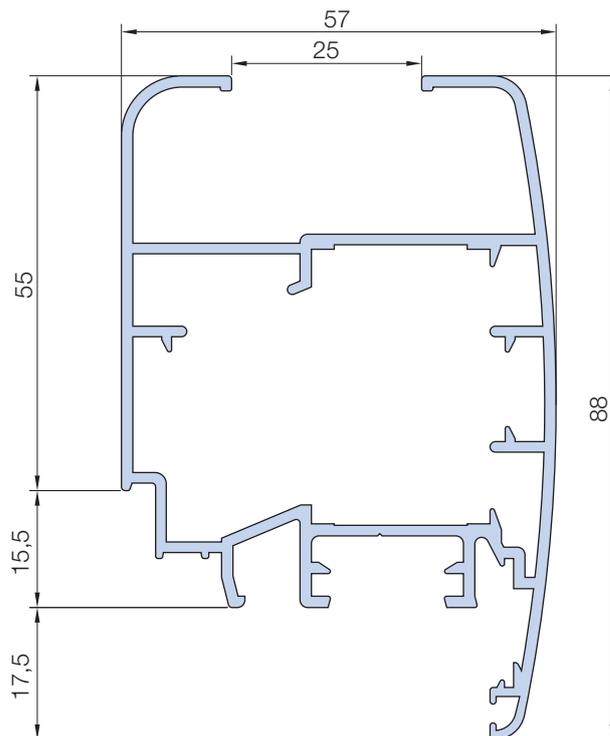
PL 2028

1485 g/m



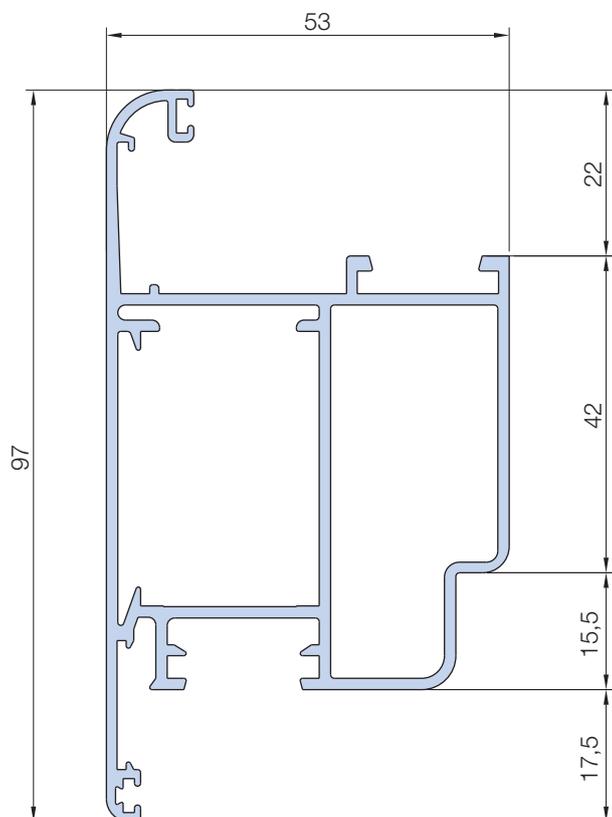
PL 22151

1231 g/m



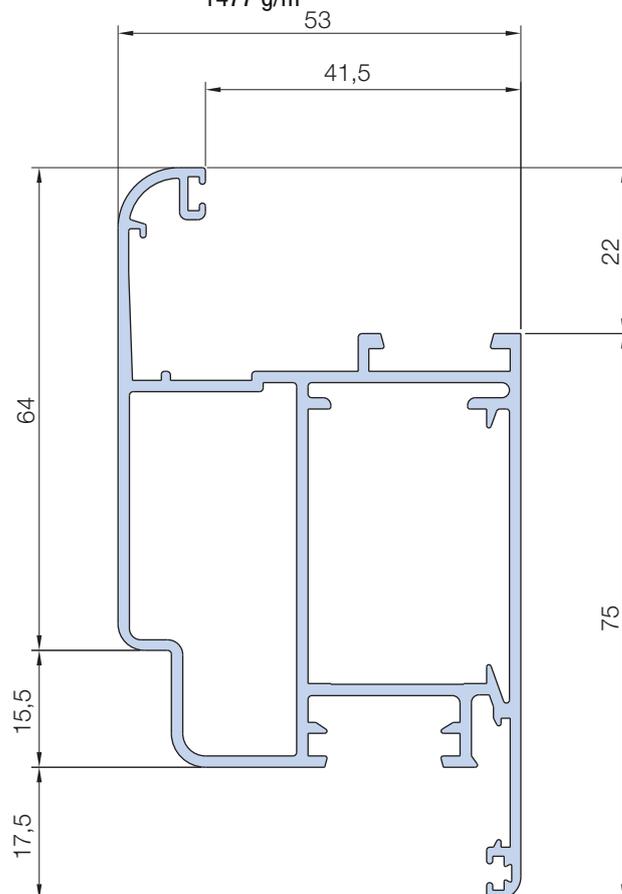
PL 2034

1477 g/m



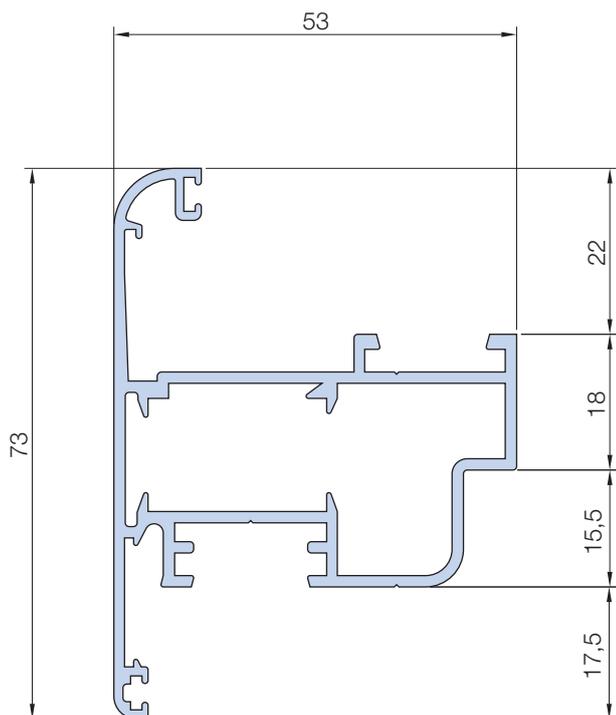
PL 2336

1692 g/m



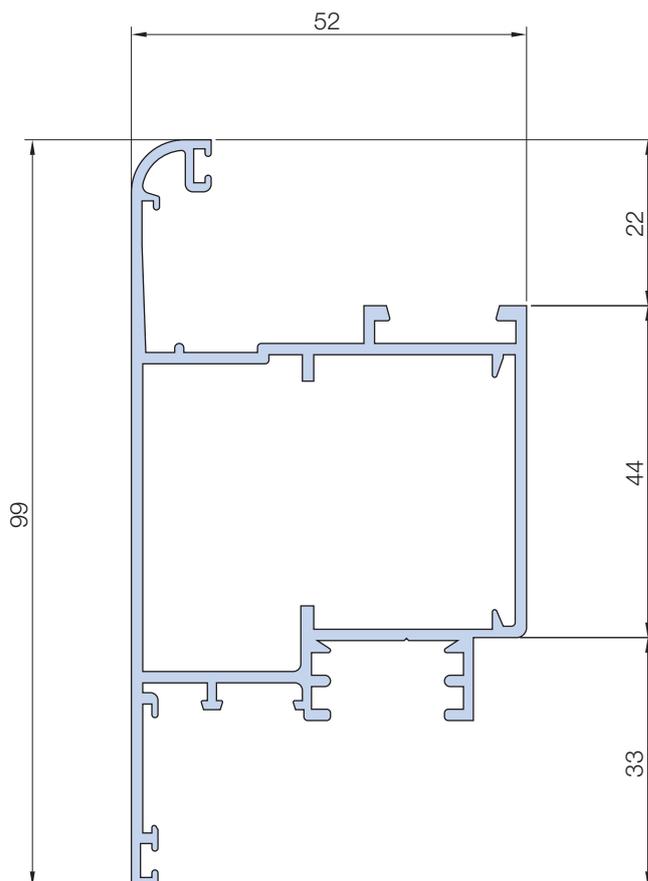
PL 2337

1667 g/m



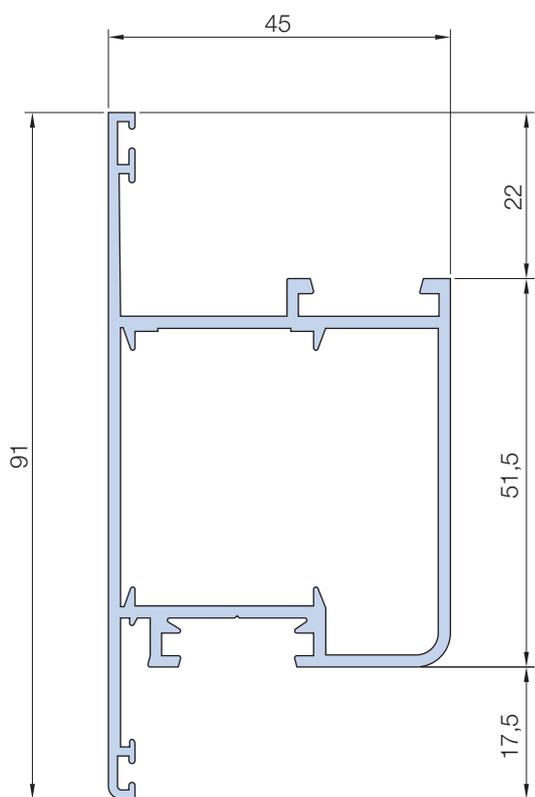
PL 2056

1080 g/m



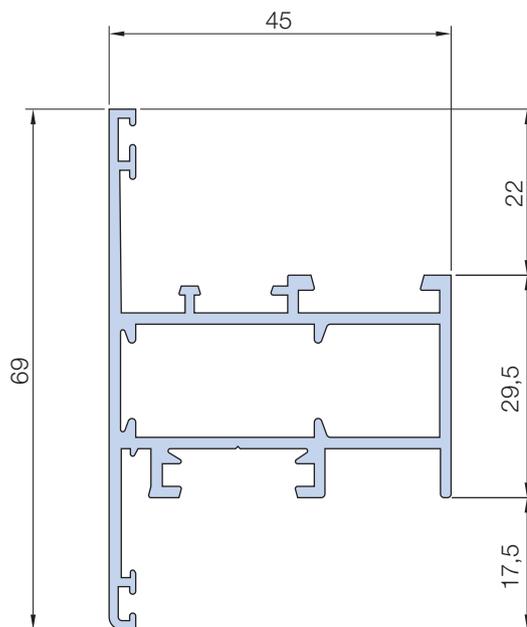
PL 2019

1233 g/m



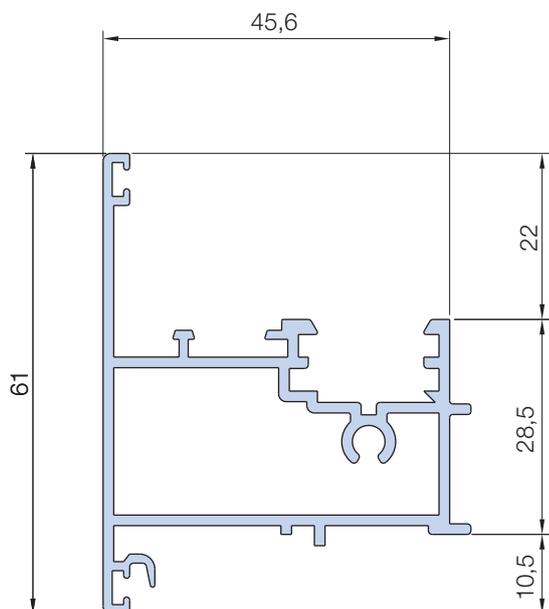
PL 20136

1163 g/m



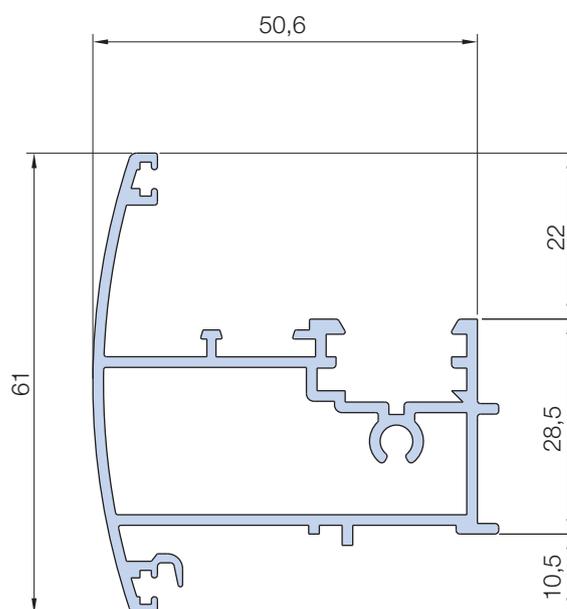
PL 2042

954 g/m



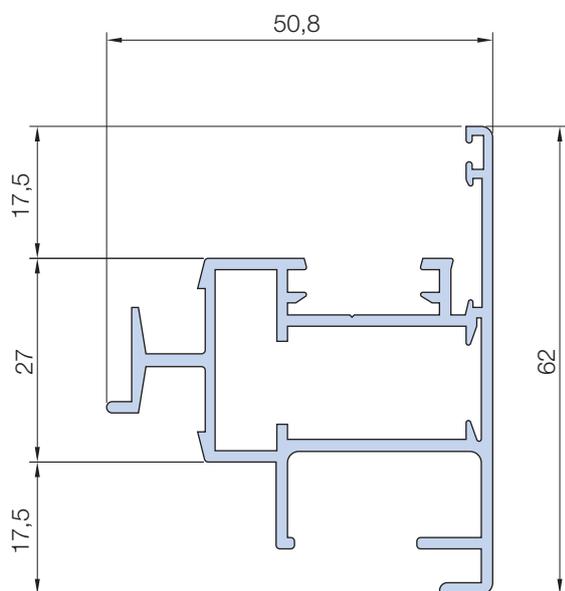
PL 2013

918 g/m



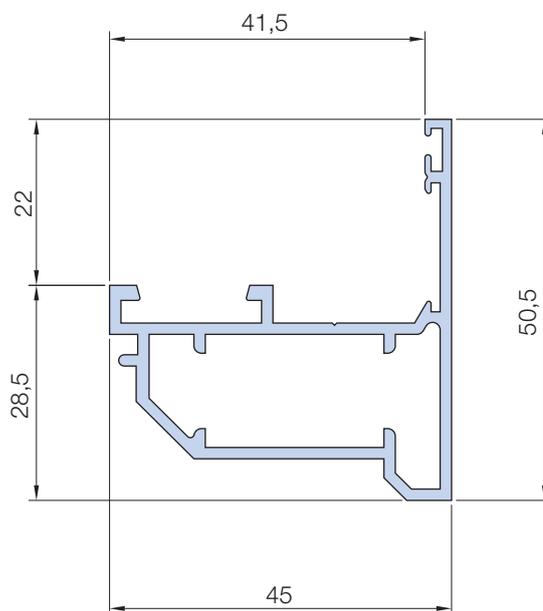
PL 20133

984 g/m



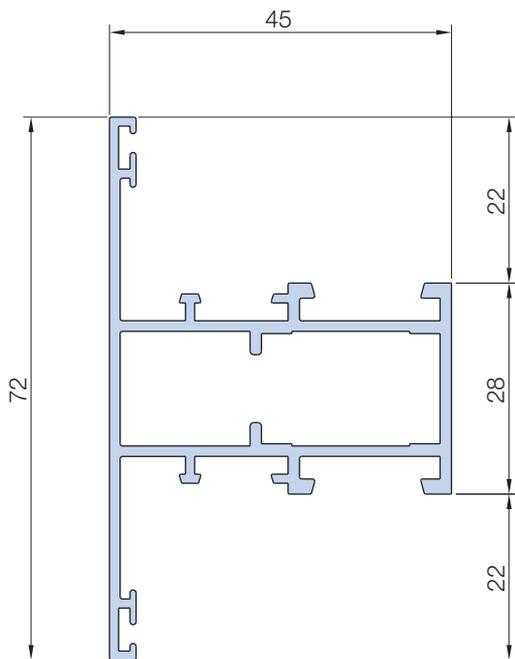
PL 2014

959 g/m

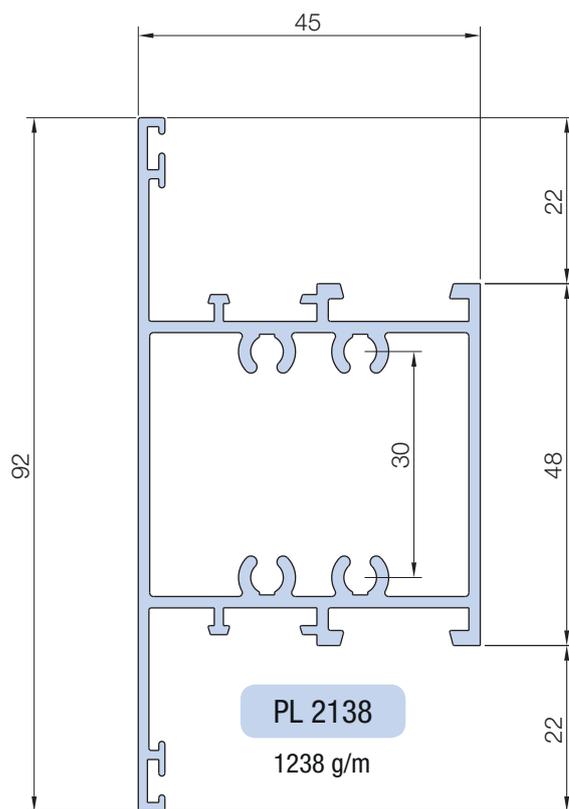


PL 20120

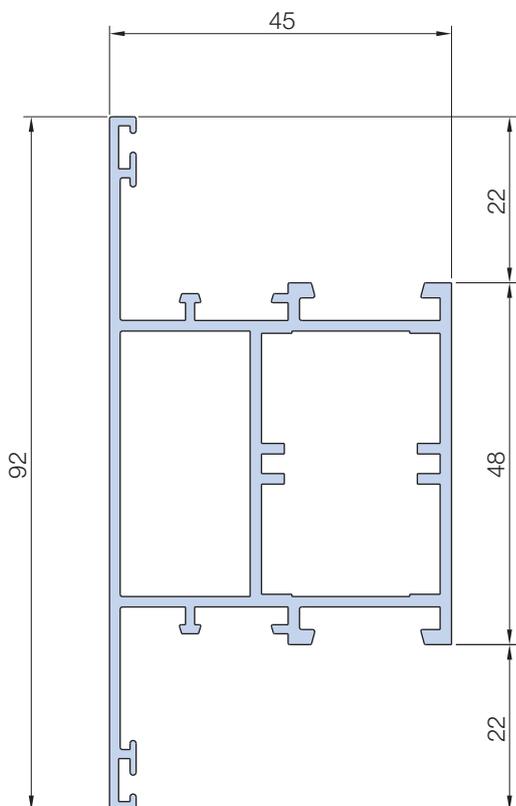
745 g/m



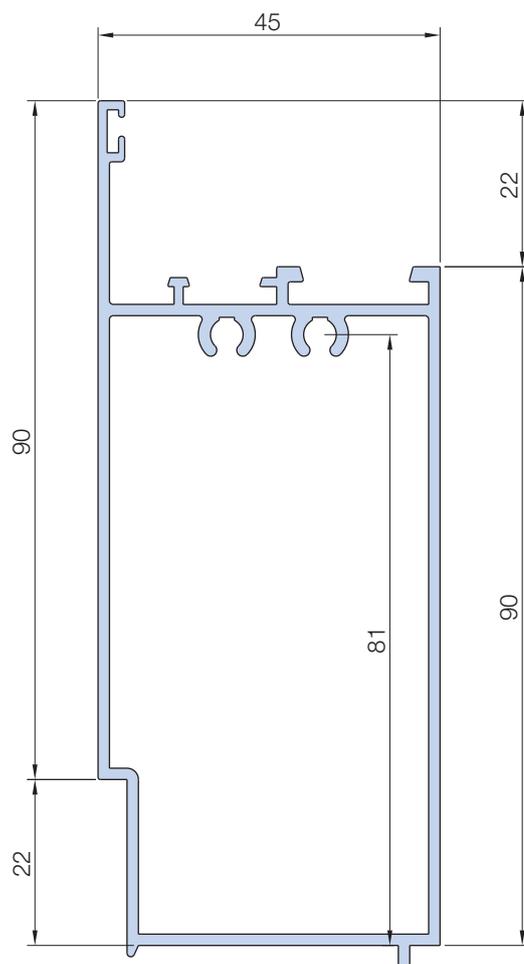
PL 20138
911 g/m



PL 2138
1238 g/m

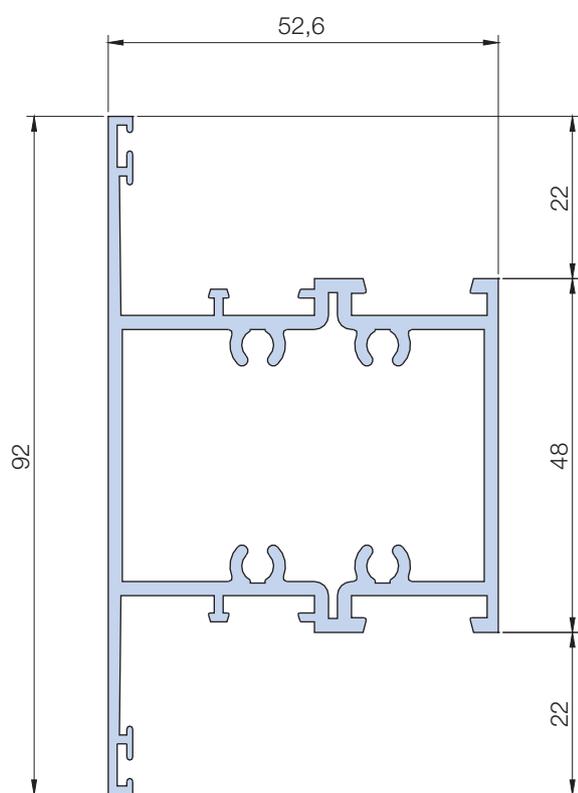


PL 2038
1222 g/m



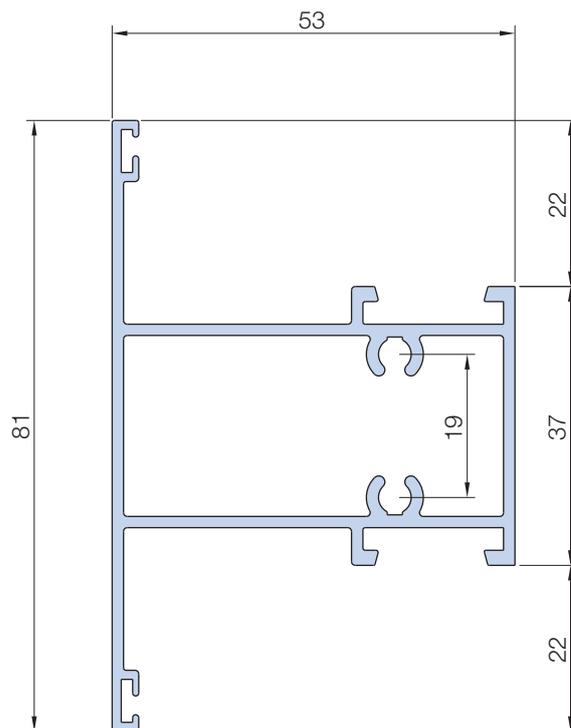
PL 2047
1369 g/m

SAGOMARIO
Profile representation



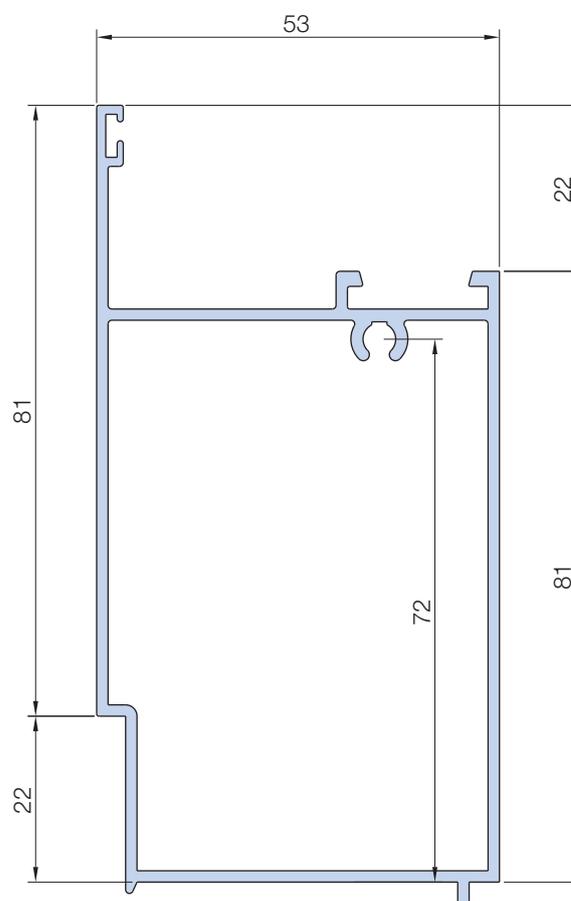
PL 5338

1558 g/m



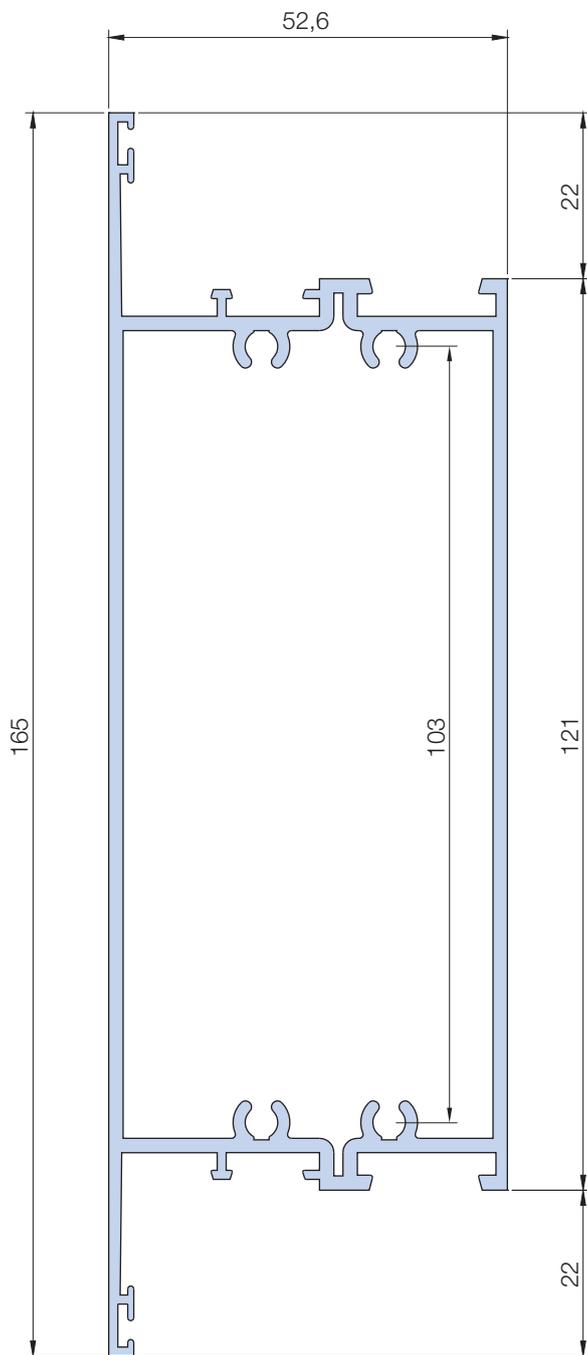
PL 2096

1029 g/m



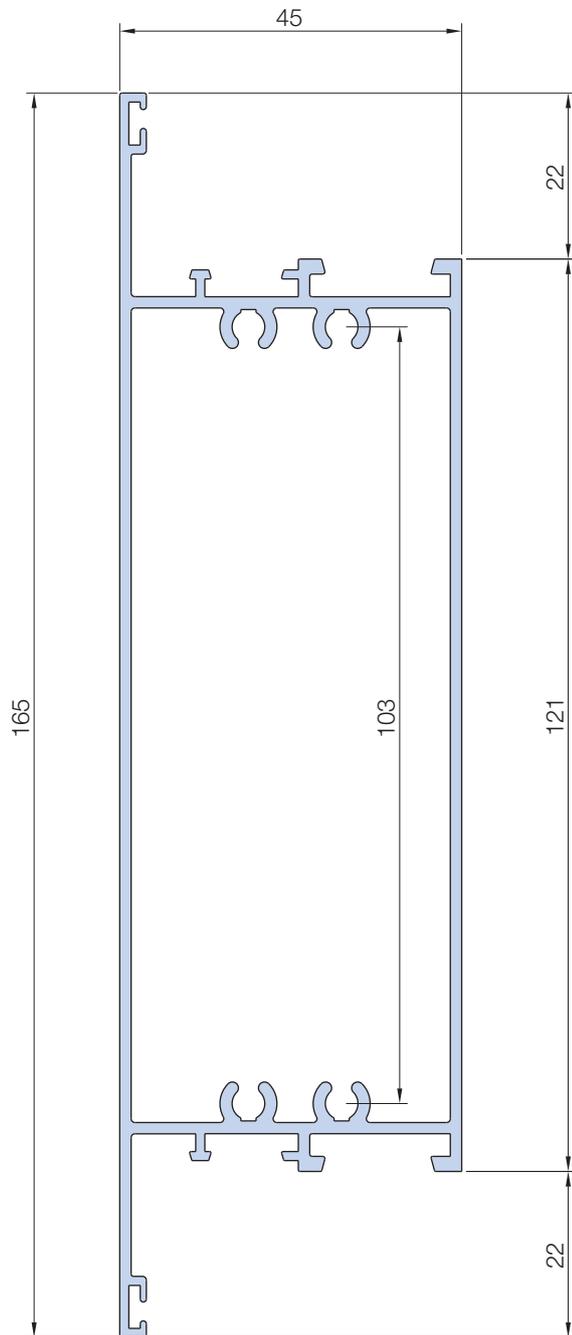
PL 2048

1267 g/m



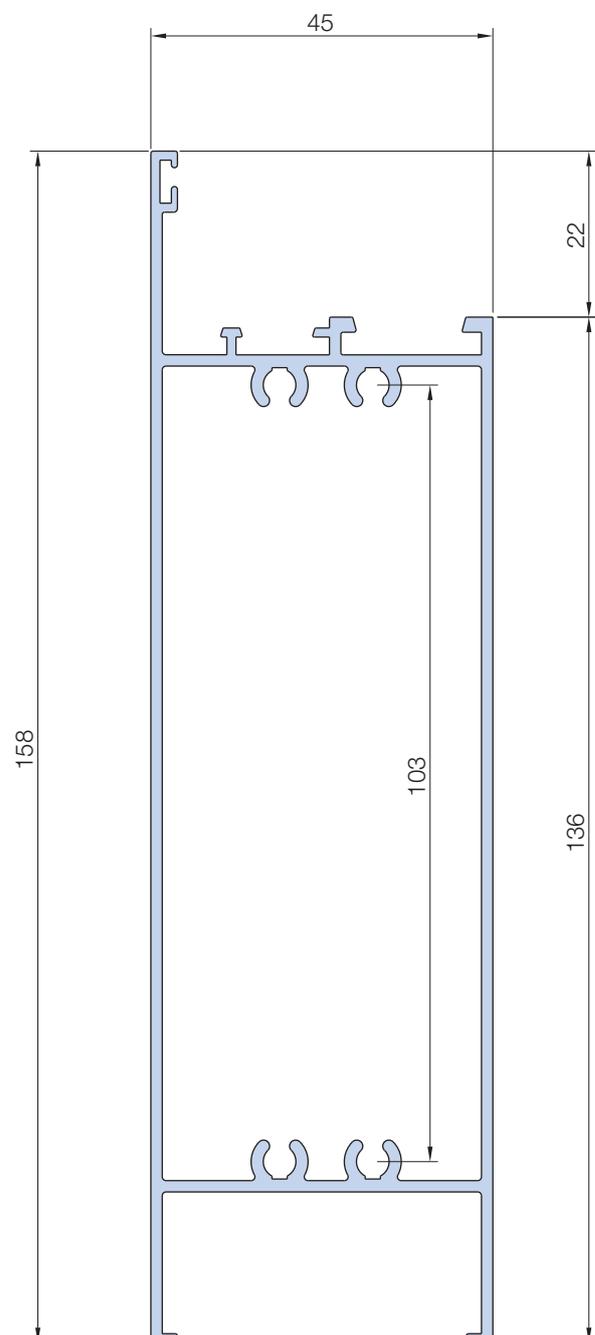
PL 5340

2305 g/m



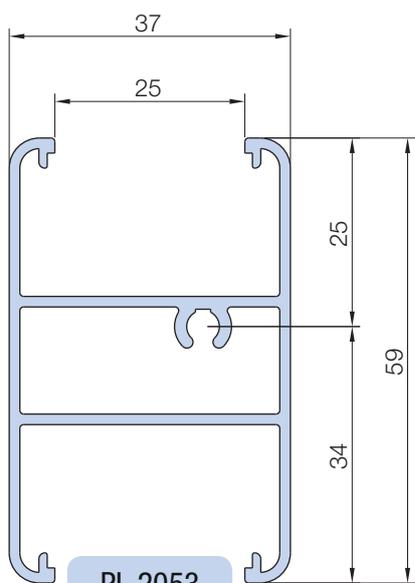
PL 2040

1833 g/m



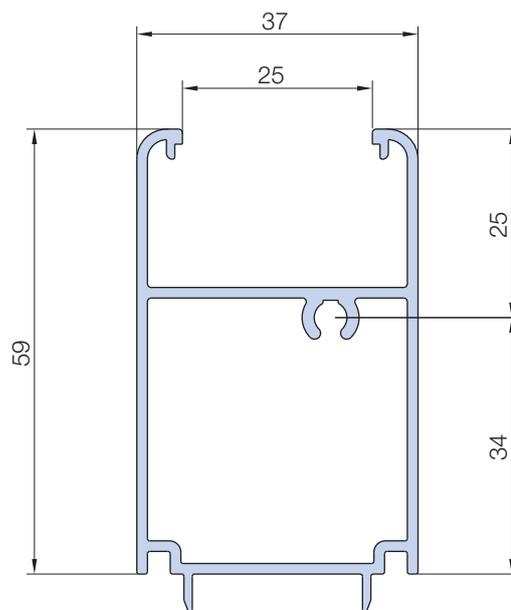
PL 2041

1862 g/m



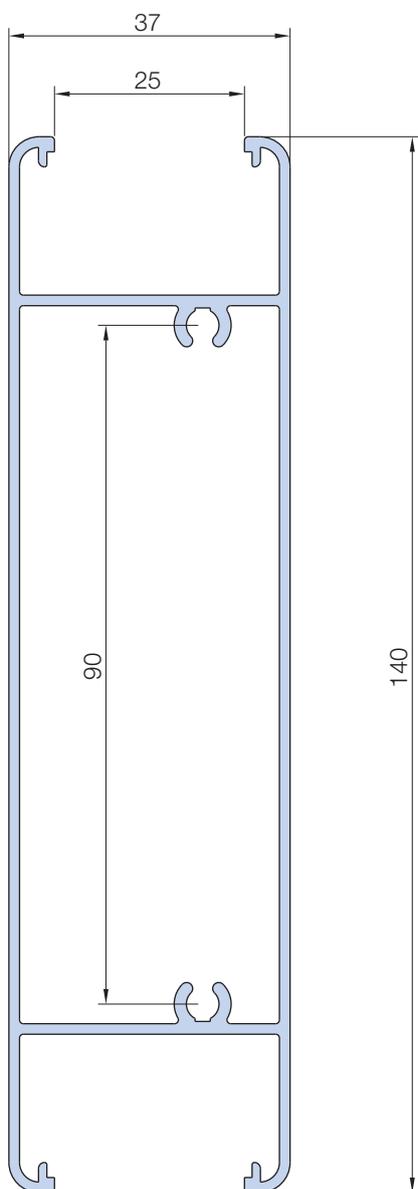
PL 2053

846 g/m



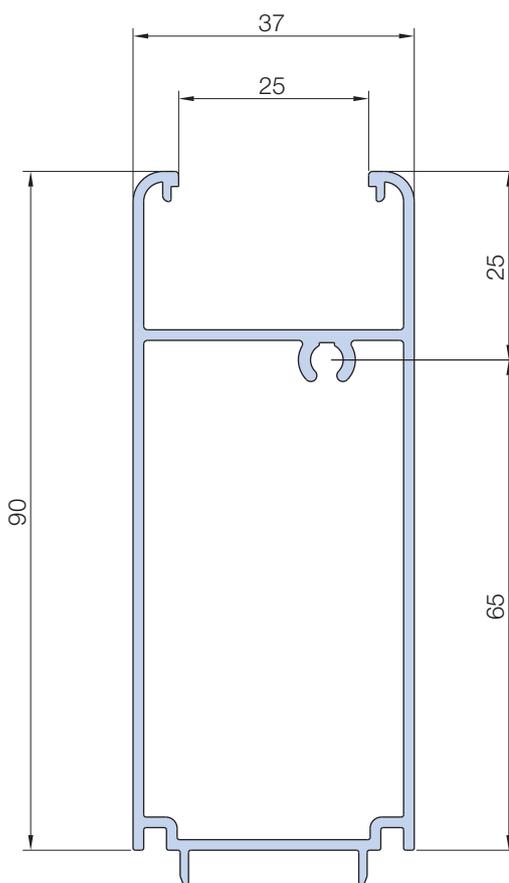
PL 20248

847 g/m



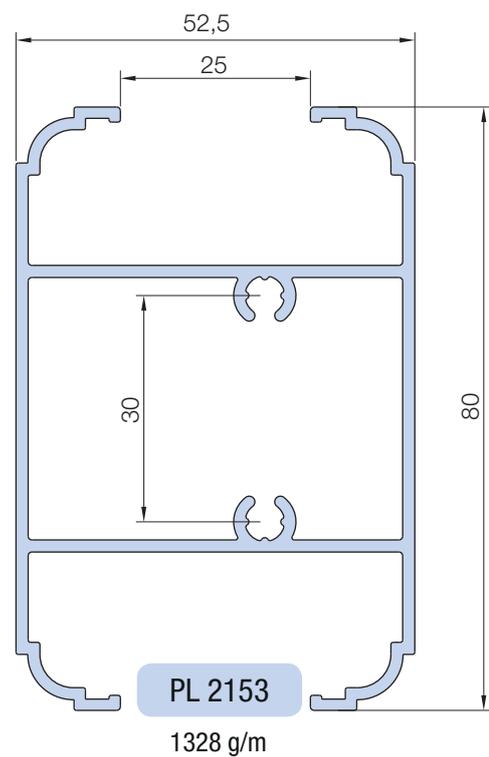
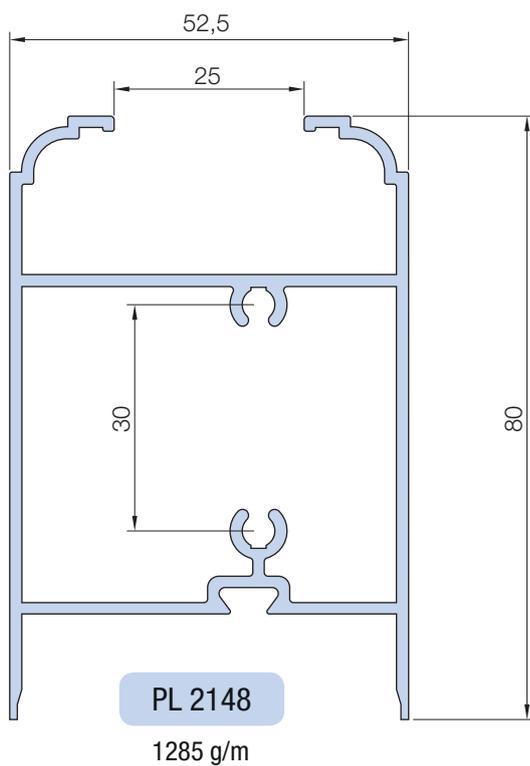
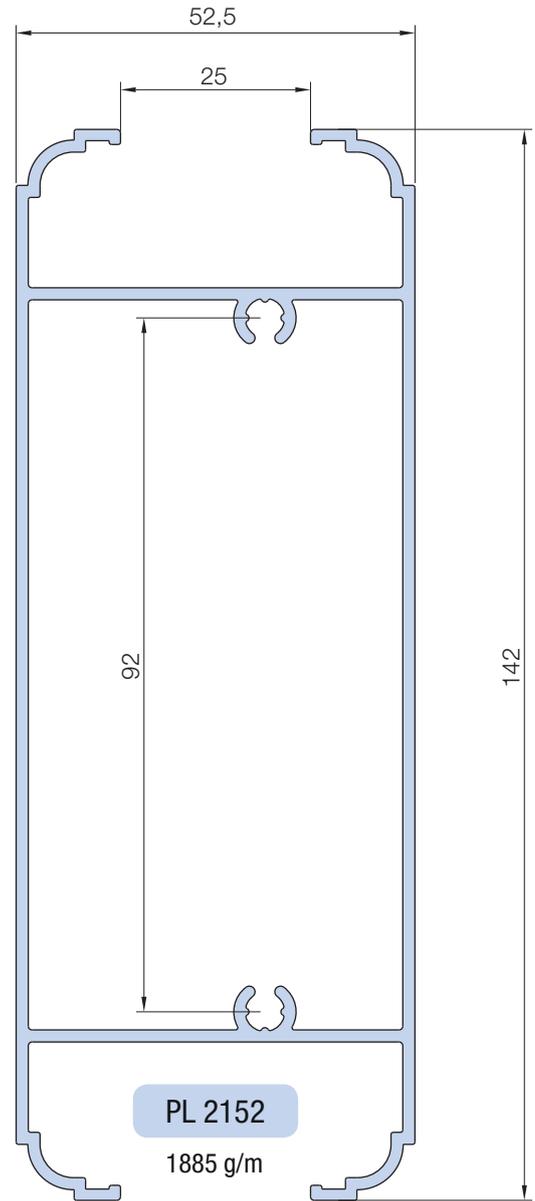
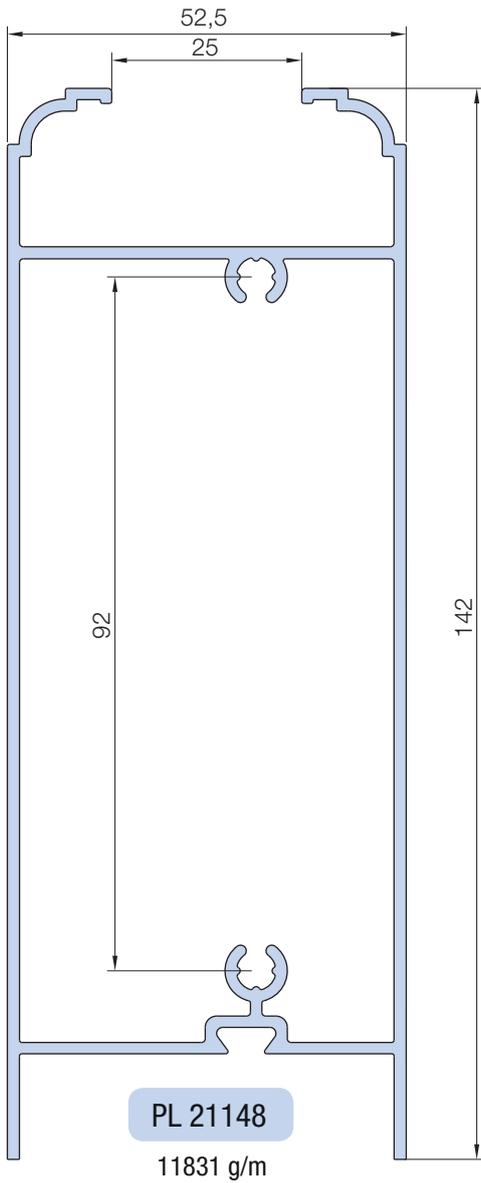
PL 2052

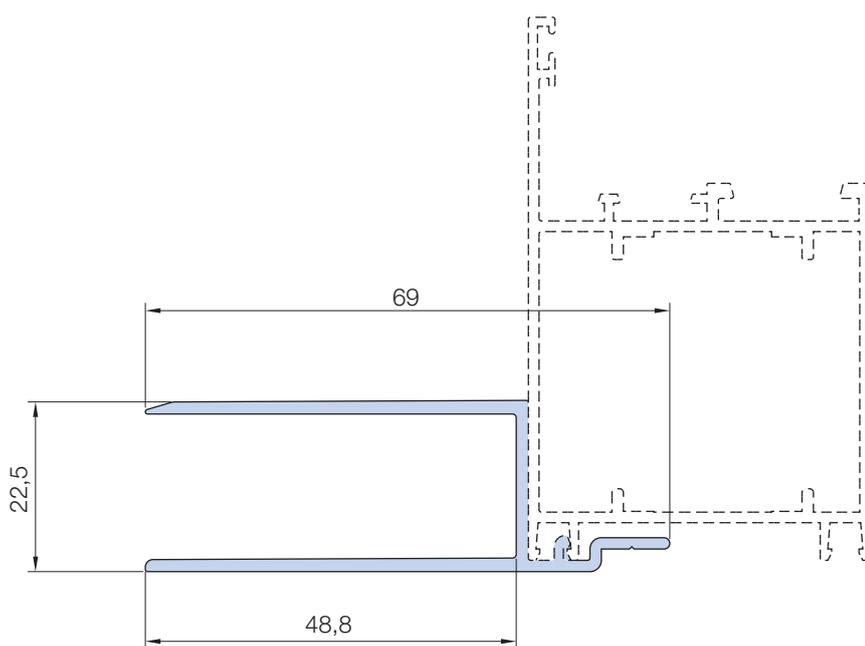
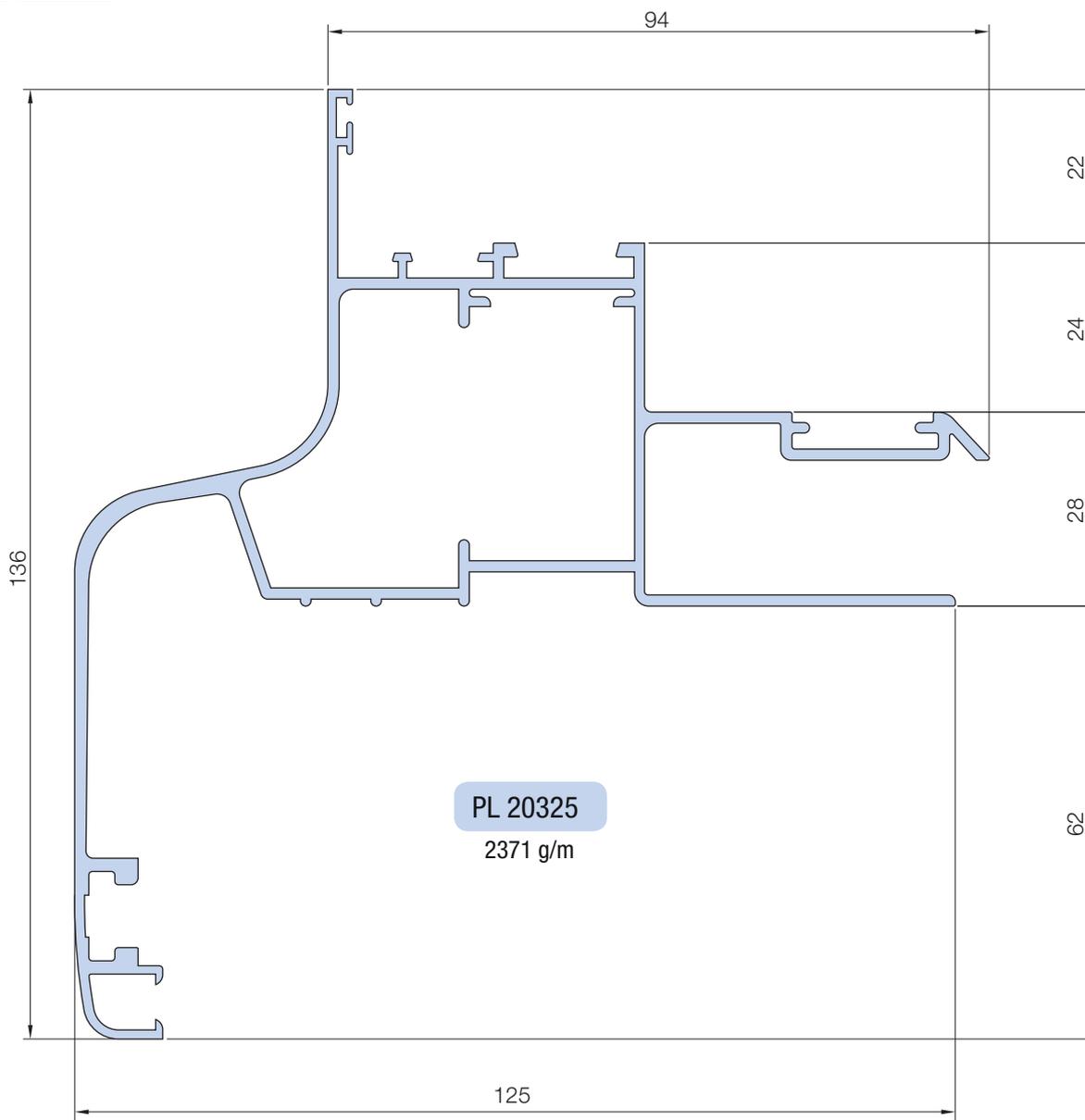
1530 g/m



PL 20148

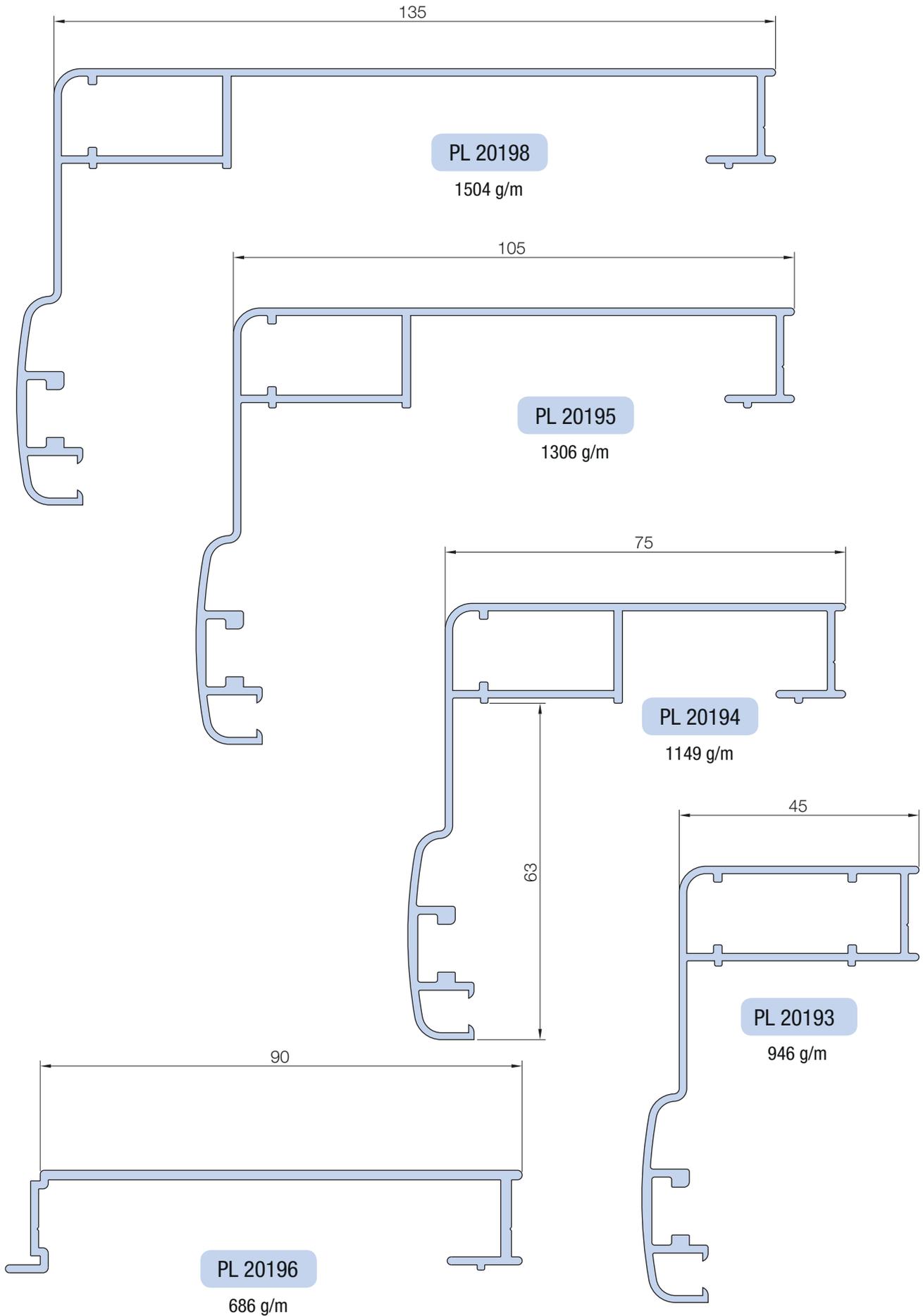
1103 g/m

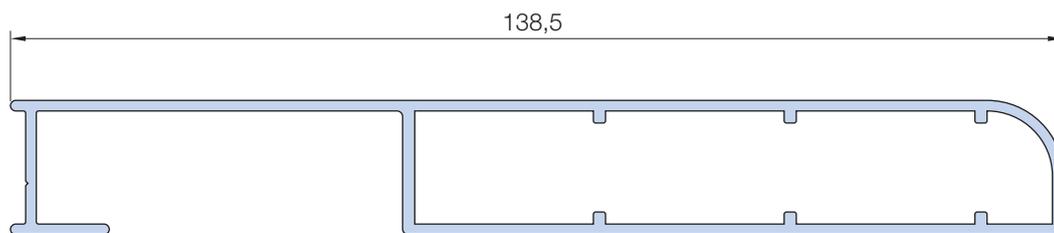




PL 20192

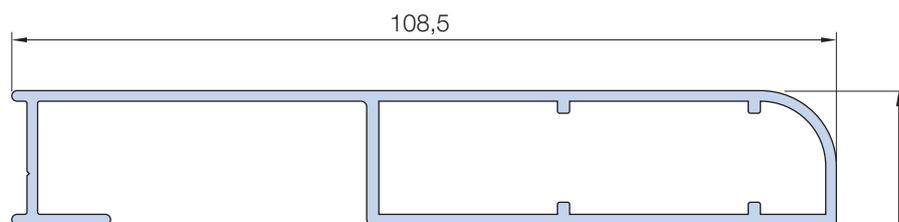
636 g/m





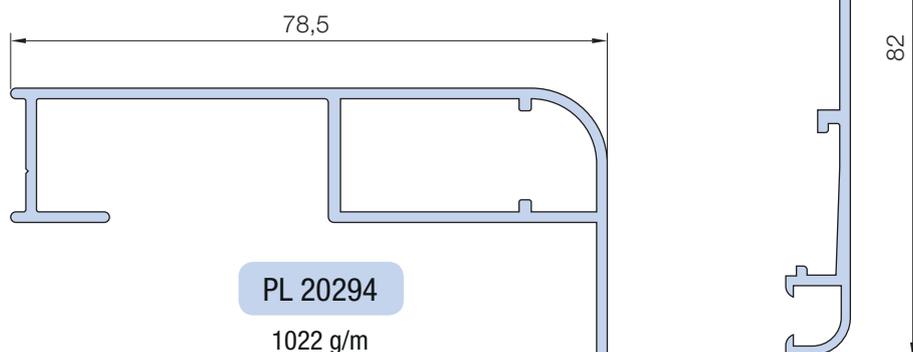
PL 20298

1472 g/m



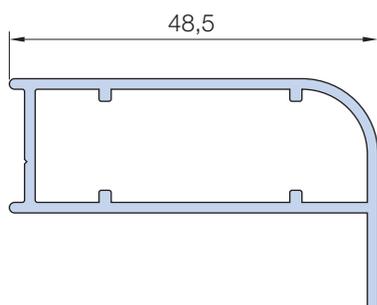
PL 20295

1236 g/m



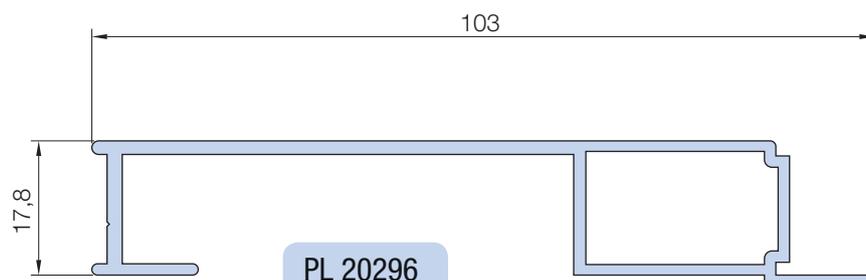
PL 20294

1022 g/m



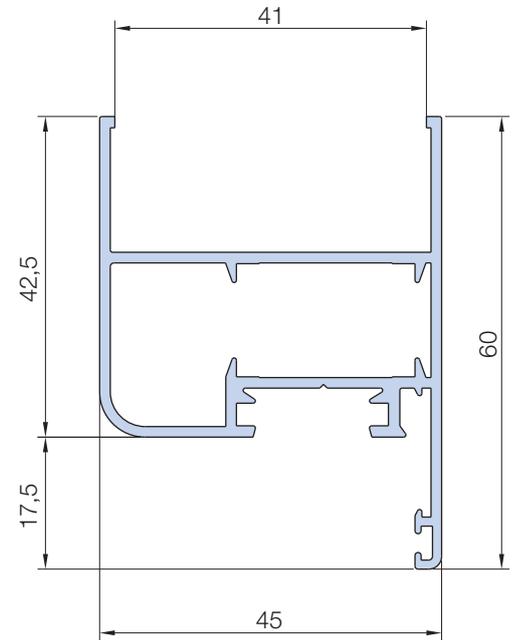
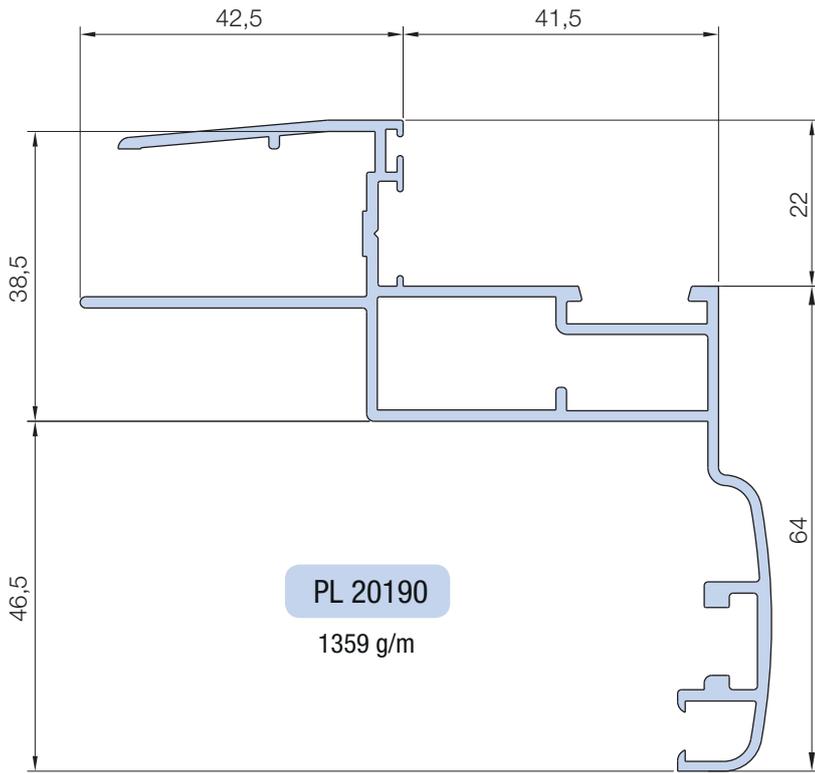
PL 20293

832 g/m



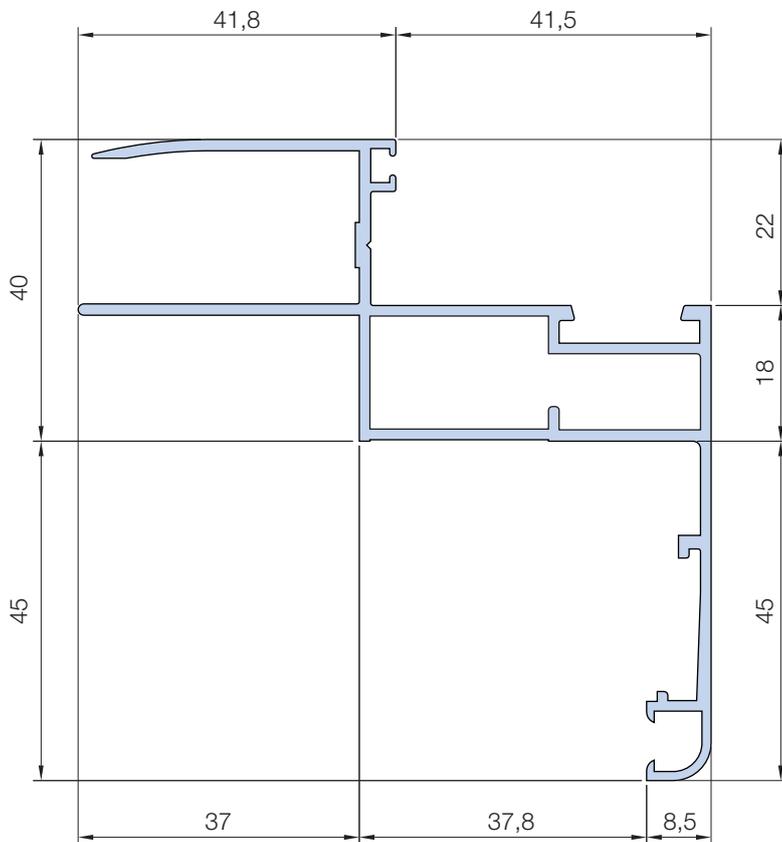
PL 20296

816 g/m



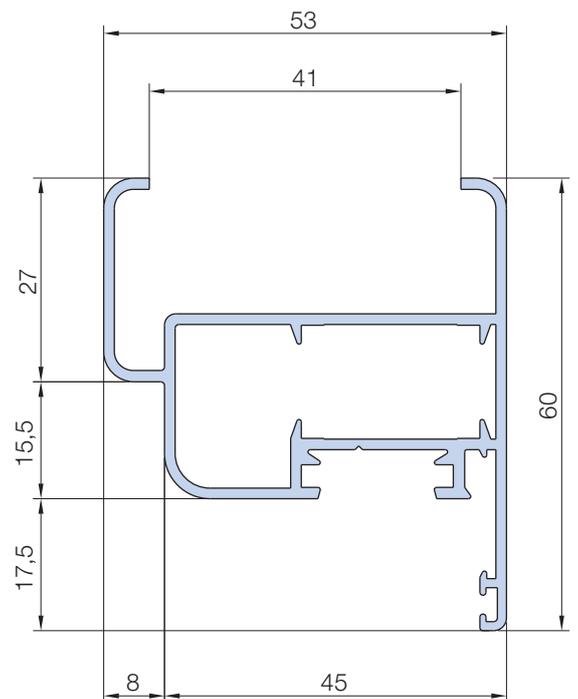
PL 2087

872 g/m



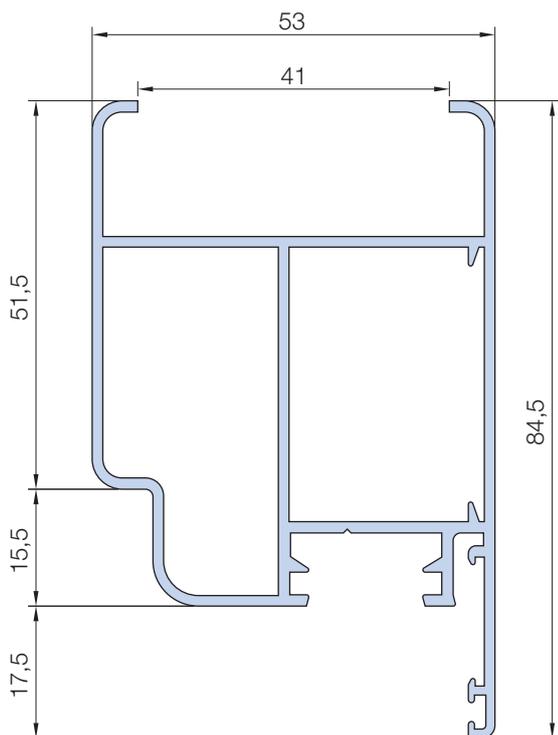
PL 20290

1192 g/m



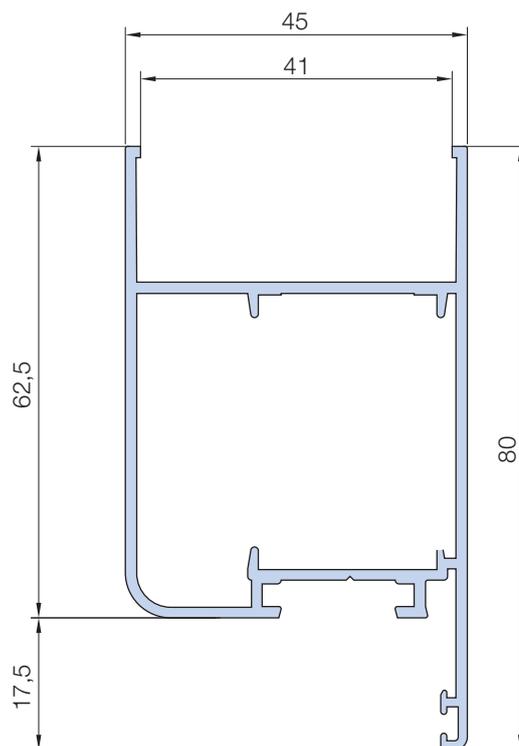
PL 20187

947 g/m



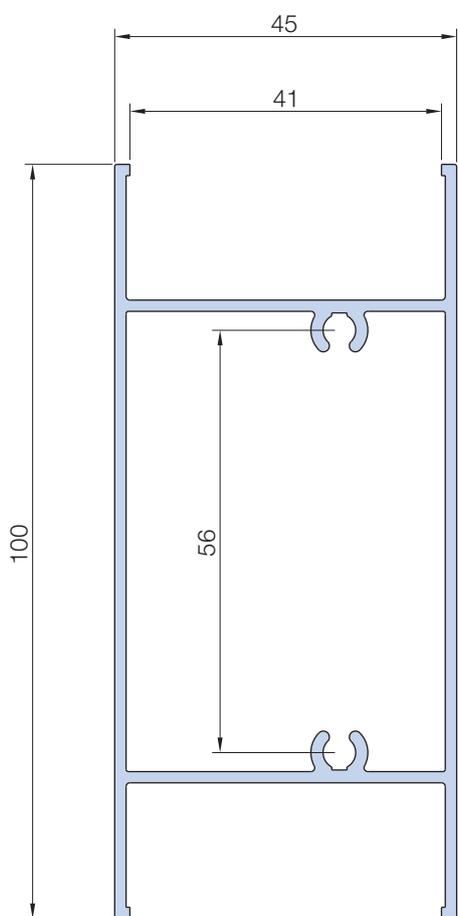
PL 20287

1215 g/m



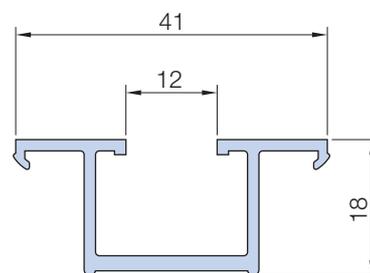
PL 20387

1035 g/m



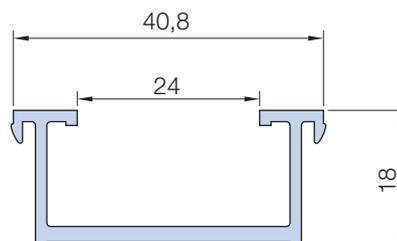
PL 20152

1308 g/m



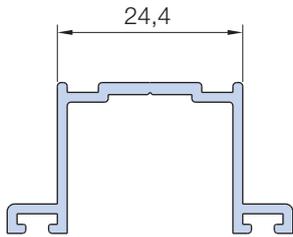
PL 2097

379 g/m



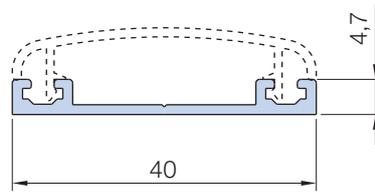
PL 2098

398 g/m



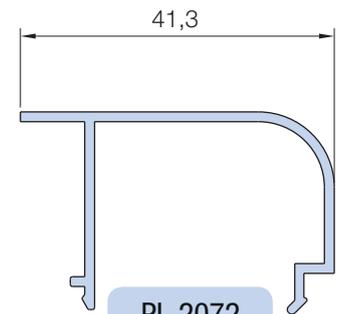
PL 2091

304 g/m



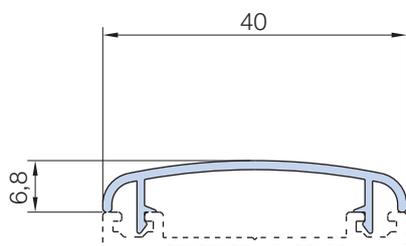
PL 2073

231 g/m



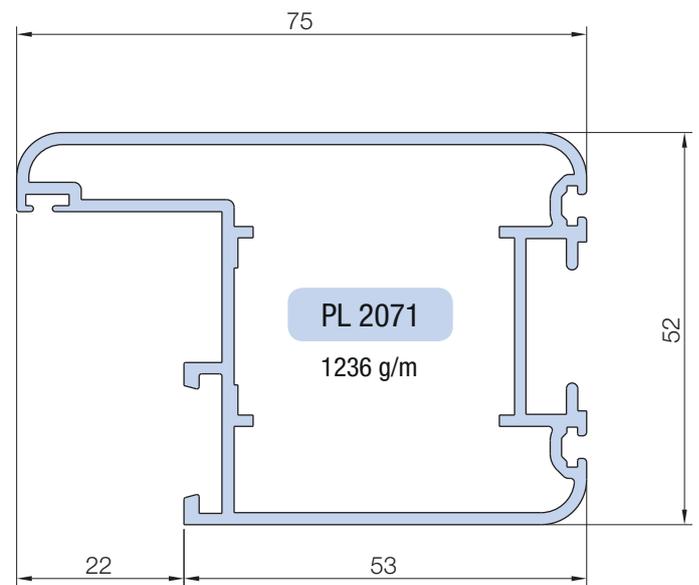
PL 2072

331g/m



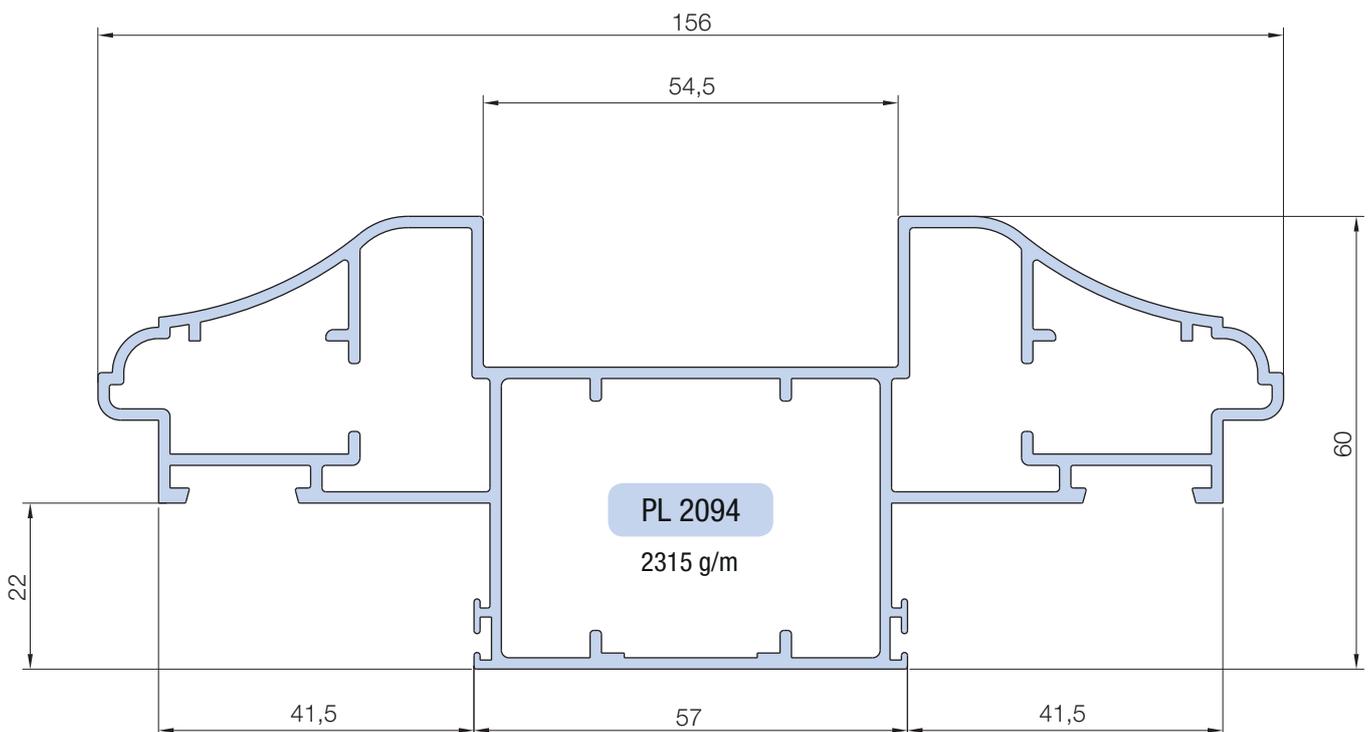
PL 2070

231g/m



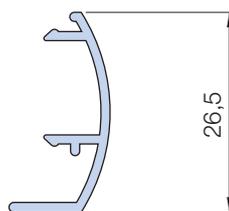
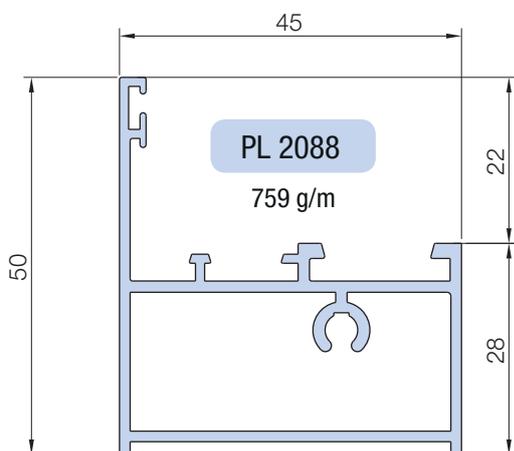
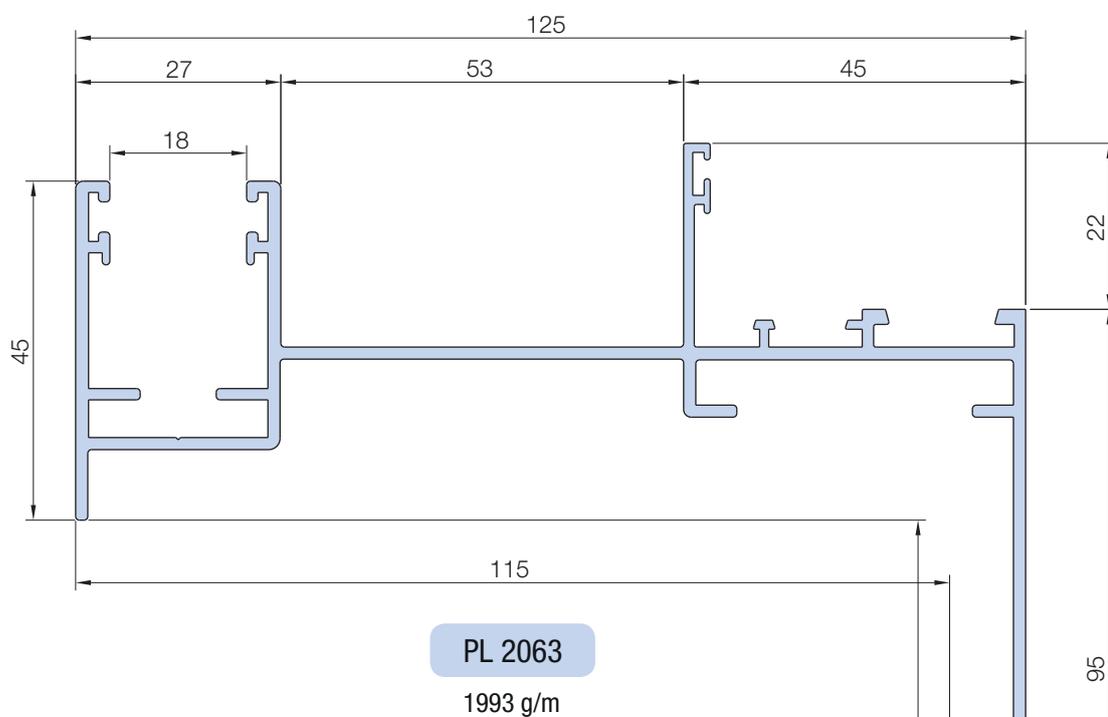
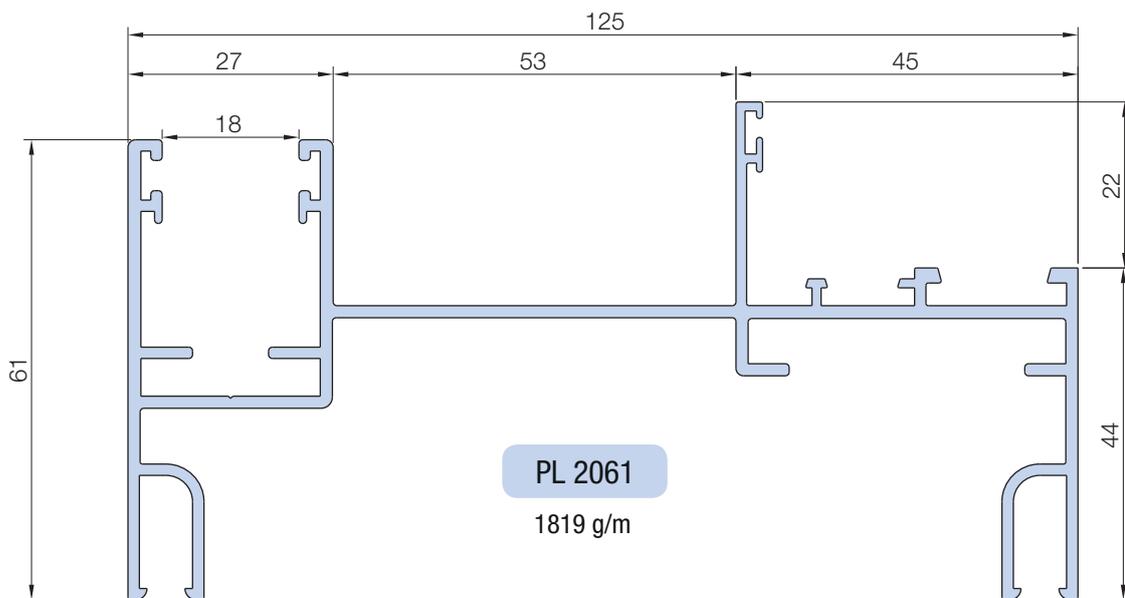
PL 2071

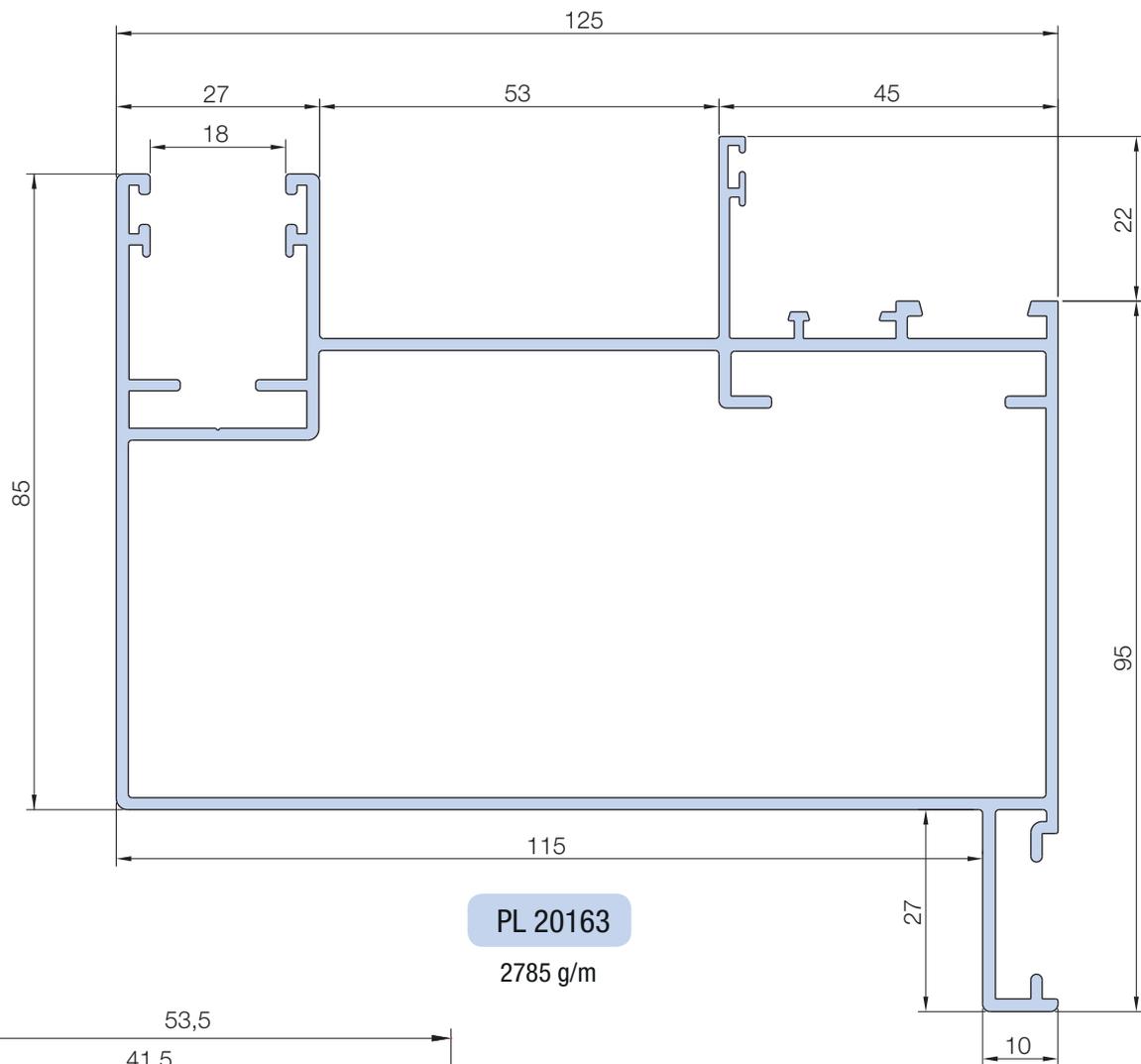
1236 g/m



PL 2094

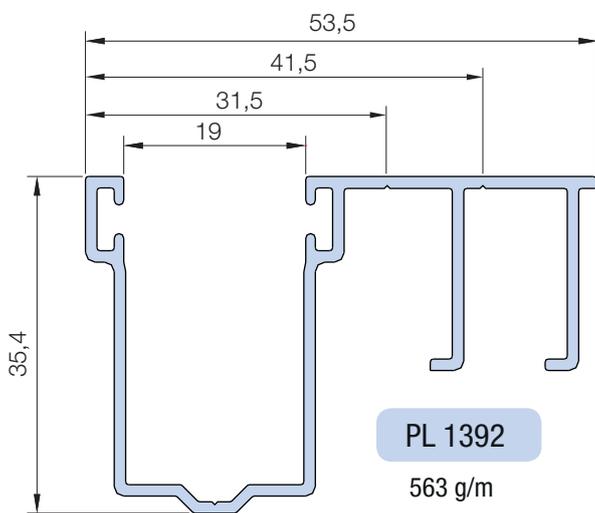
2315 g/m





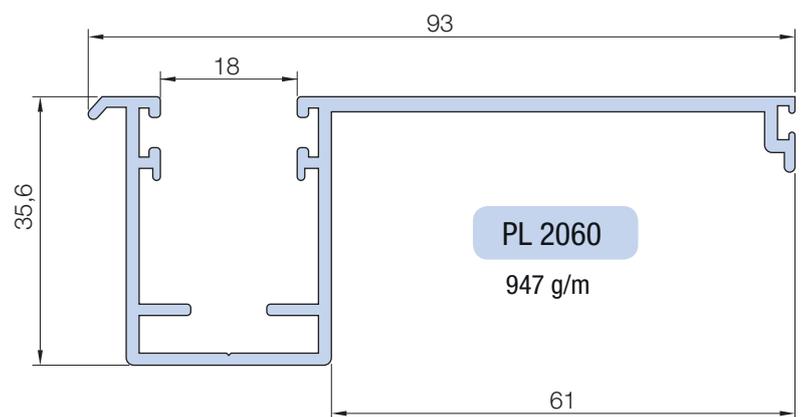
PL 20163

2785 g/m



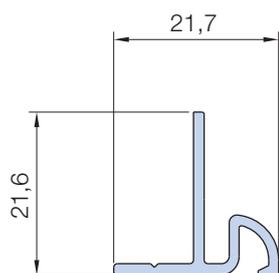
PL 1392

563 g/m



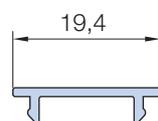
PL 2060

947 g/m



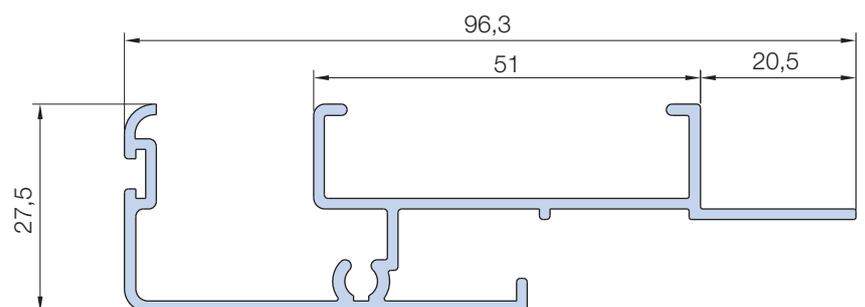
PL 2066

199 g/m



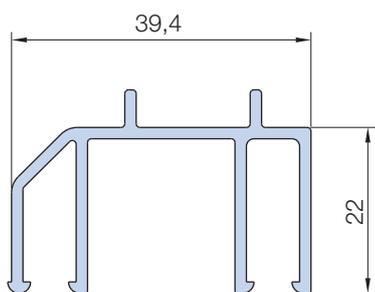
PL 20226

95 g/m



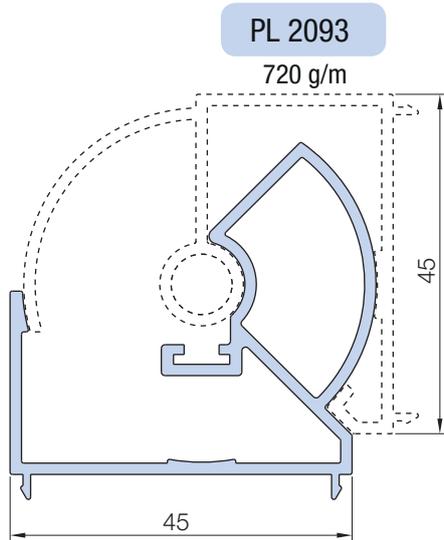
PL 2089

827 g/m



PL 2075

527 g/m

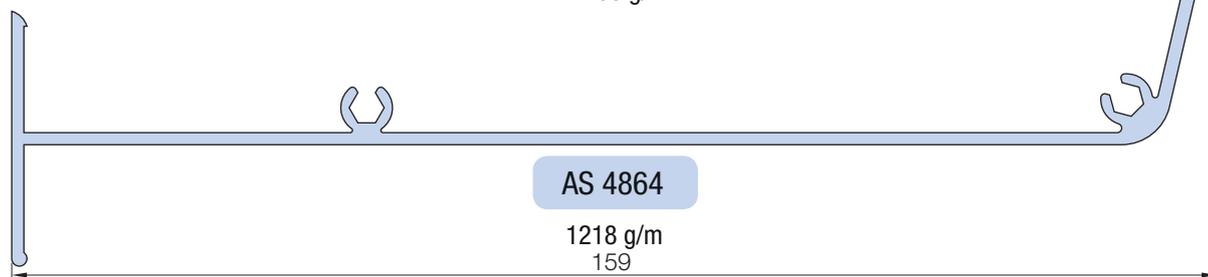


PL 2093

720 g/m

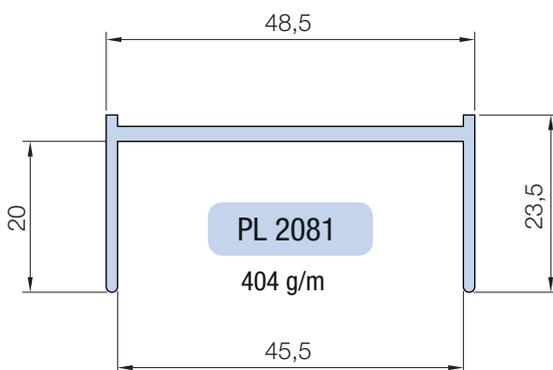
PL 2092

763 g/m



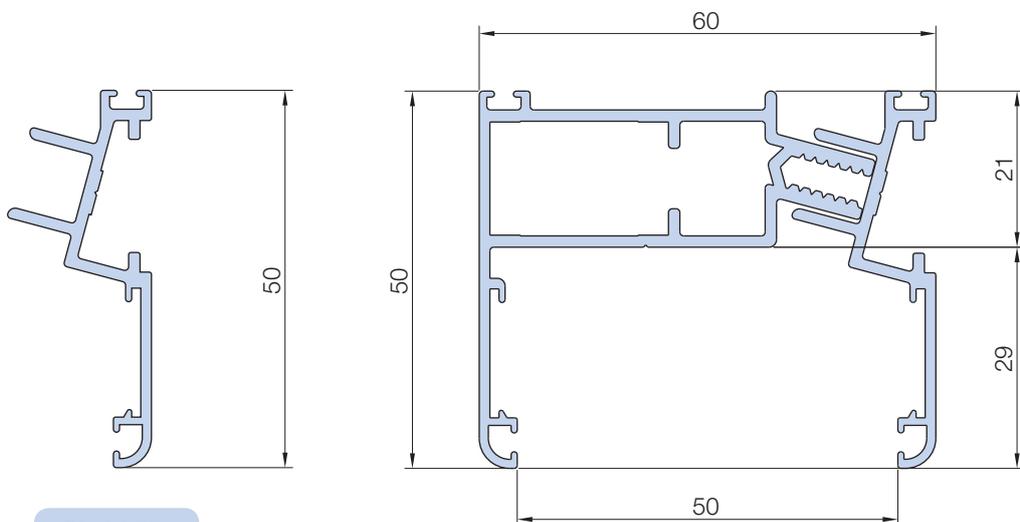
AS 4864

1218 g/m
159



PL 2081

404 g/m

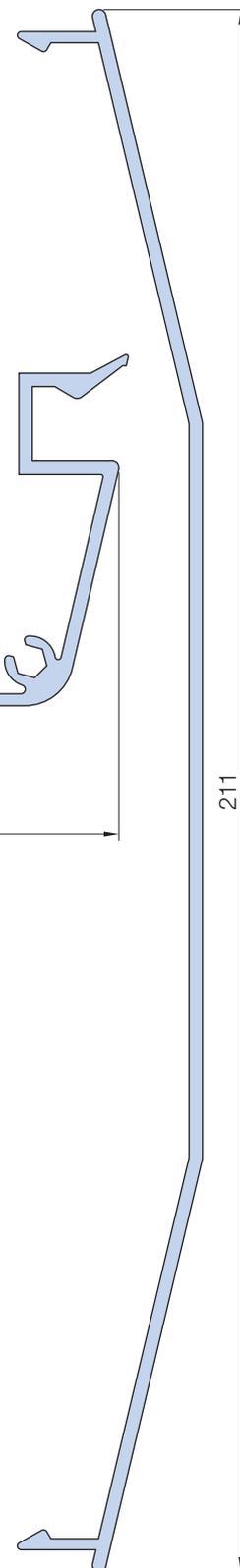


PL 2076

776 g/m

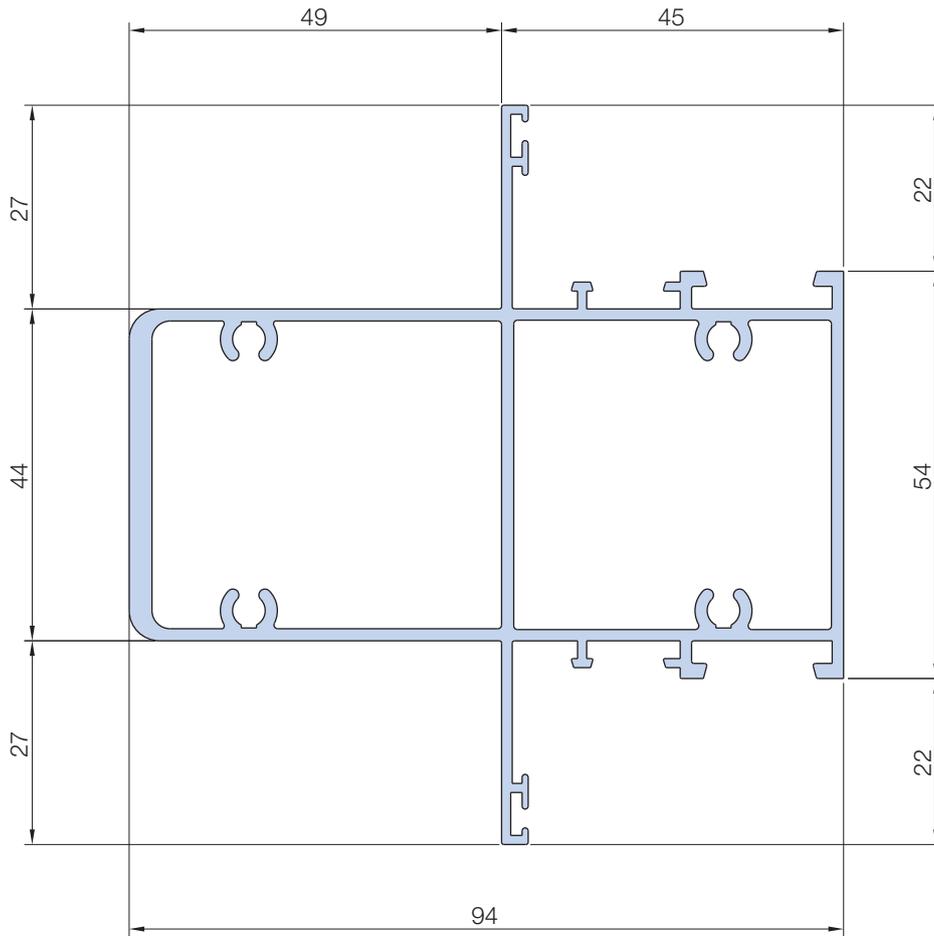
PL 2077

385 g/m

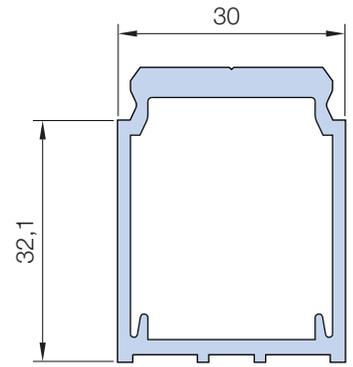


AS 4885

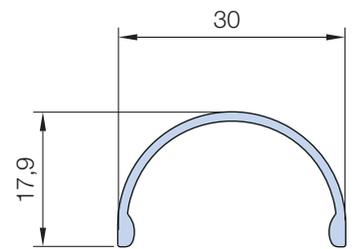
1110 g/m



PL 2068
2077 g/m

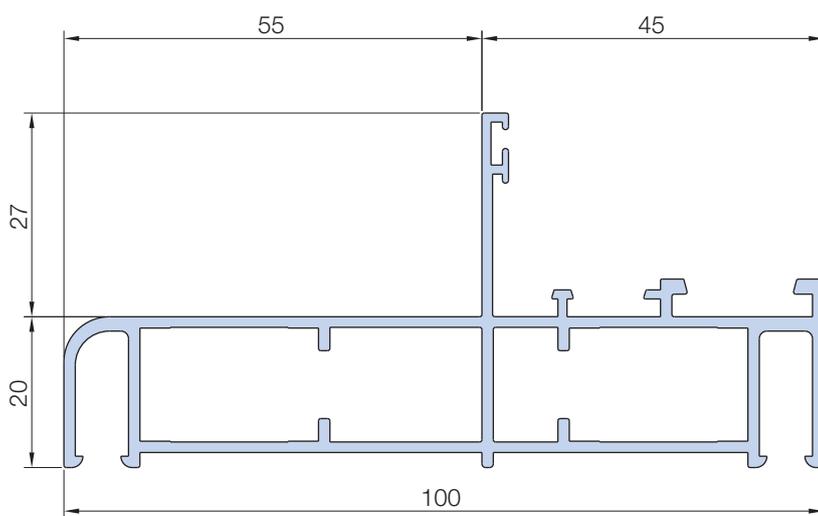


PL 2859
800 g/m

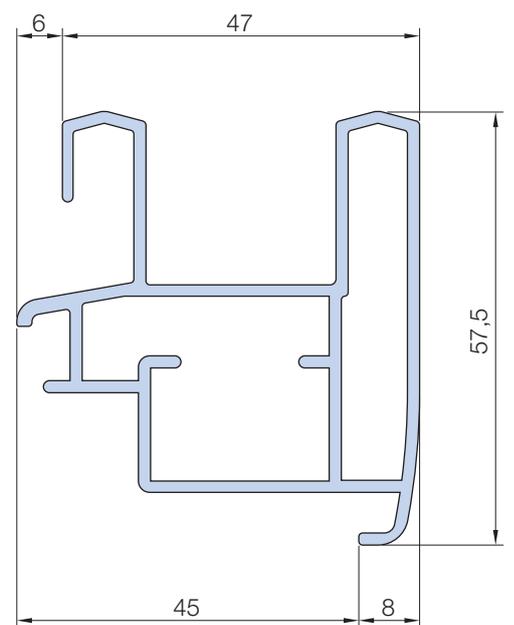


PL 2860
177 g/m

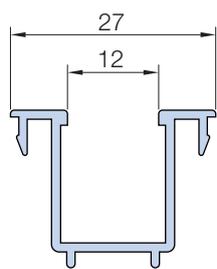
SAGOMARIO
Profile representation



PL 2069
1339 g/m

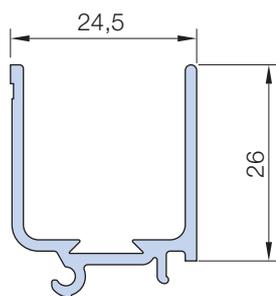


PL 2095
1208 g/m



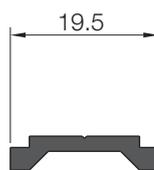
PL 6097

246 g/m



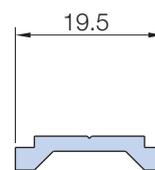
PL 1325*

348 g/m



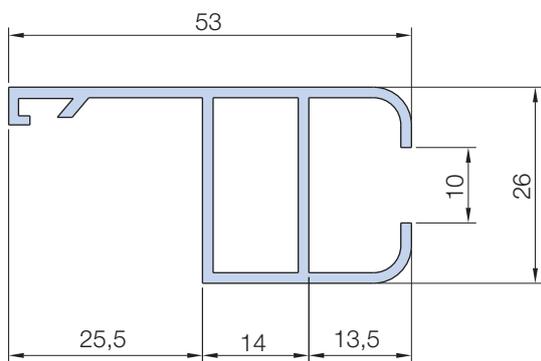
TAC 1000

astina in poliammide
rotolo 250 m



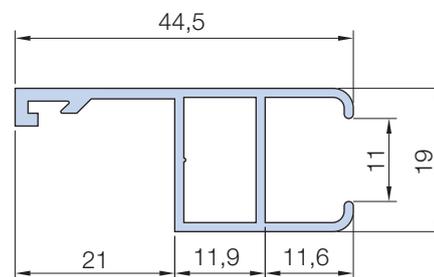
AS 1000

119 g/m



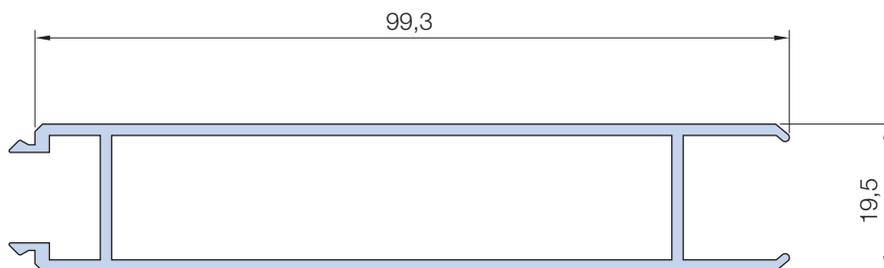
AS 48111

555 g/m



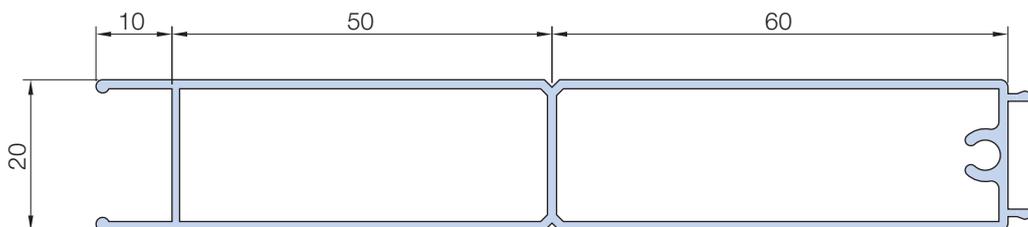
ET00633

390 g/m



1484

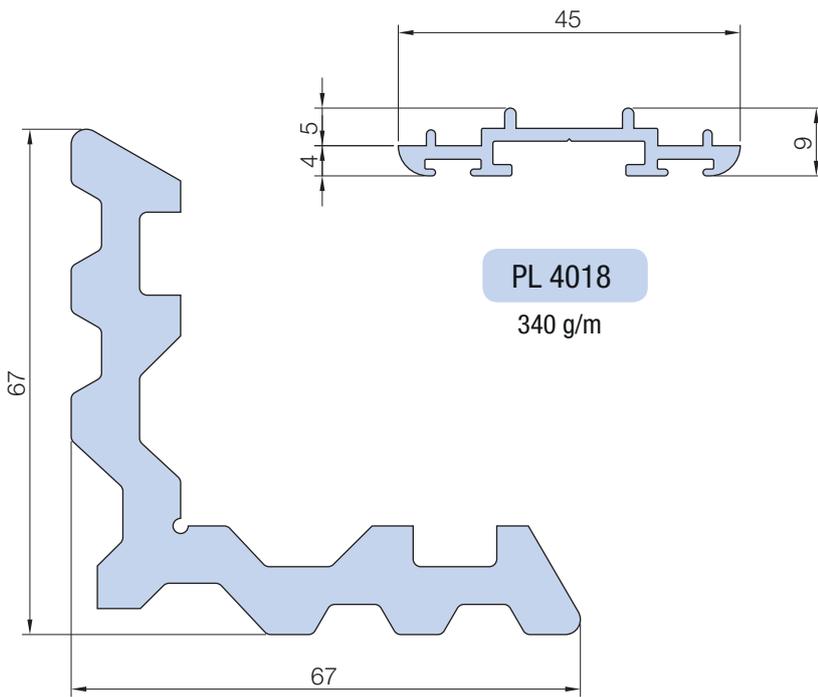
982 g/m



R 3521

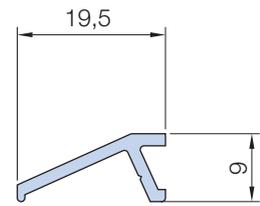
1001 g/m

* UTILIZZARE SEMPRE GOMMINO ACP5027



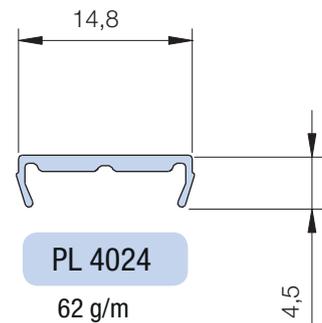
PL 4018

340 g/m



PL 20100

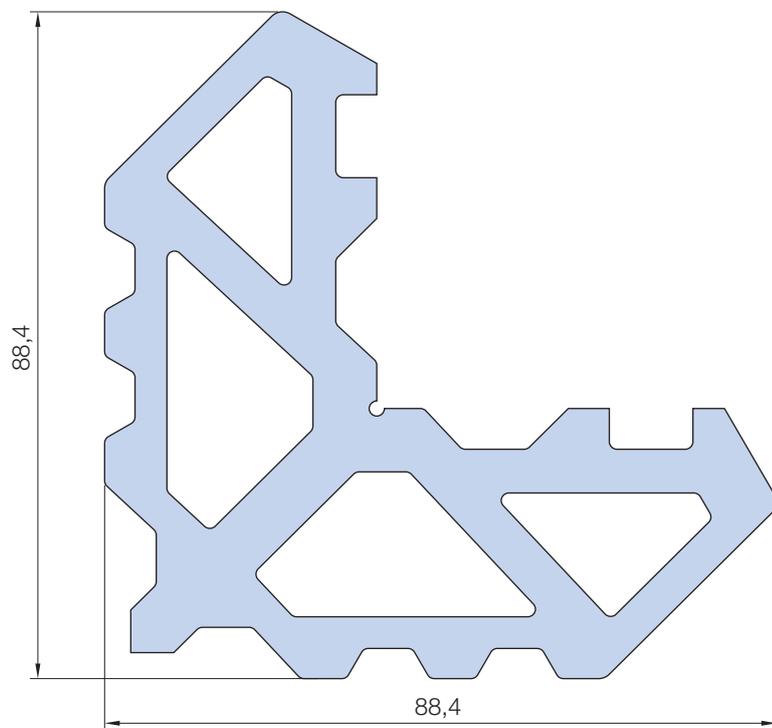
129 g/m



PL 4024

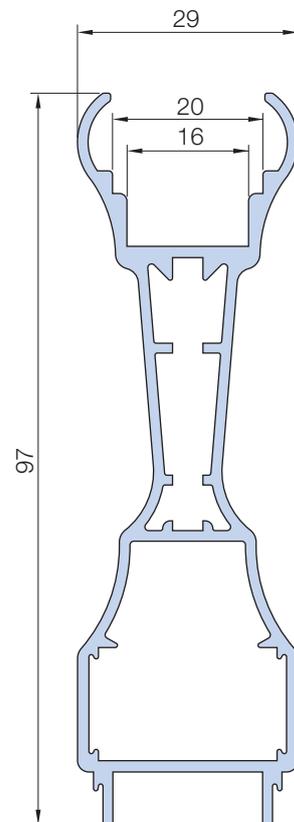
62 g/m

PL 2090
2720 g/m



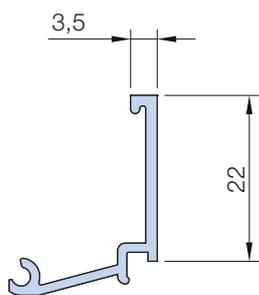
PL 2084

6461 g/m



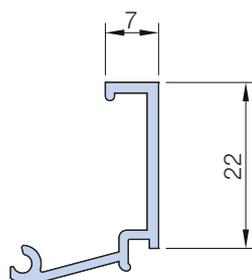
PL 2080

1190 g/m



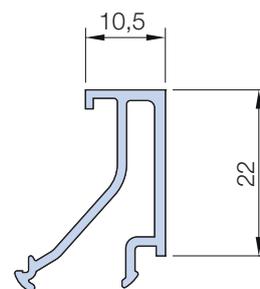
PL 1404*

190 g/m



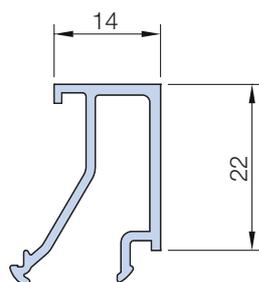
PL 1407*

206 g/m



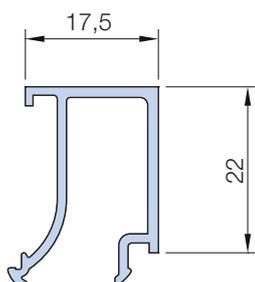
PL 1411*

252 g/m



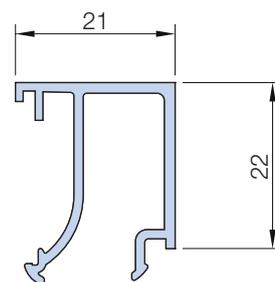
PL 1414*

257 g/m



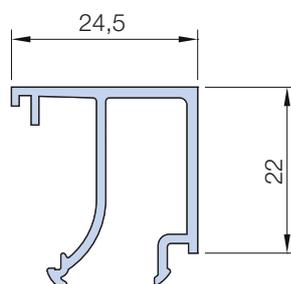
PL 1418*

268 g/m



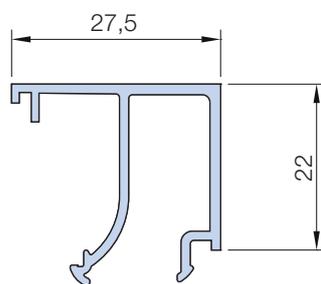
PL 1421*

290 g/m



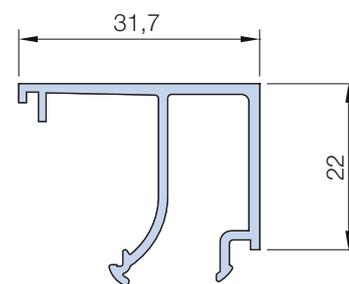
PL 1425*

304 g/m



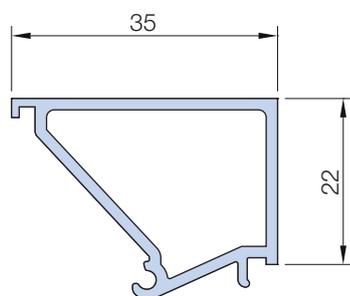
PL 1428*

312 g/m



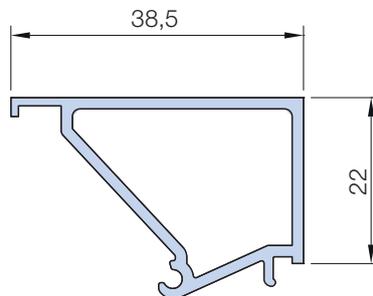
PL 1432*

331 g/m



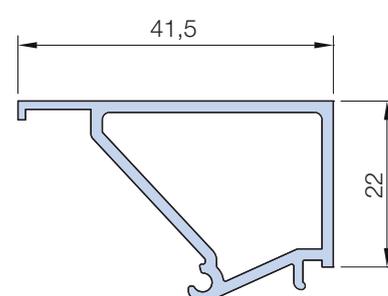
PL 1435*

434 g/m



PL 1439*

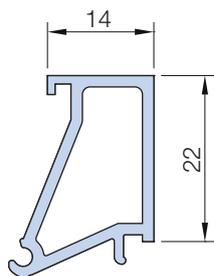
445 g/m



PL 1442*

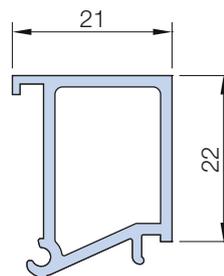
454 g/m

* UTILIZZARE SEMPRE GOMMINO ACP 5027



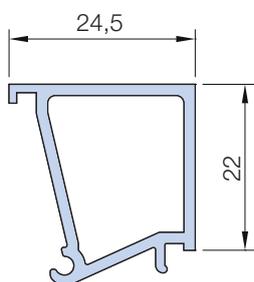
PL 14214*

329 g/m



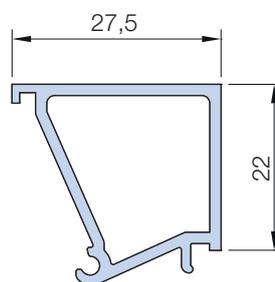
PL 14221*

353 g/m



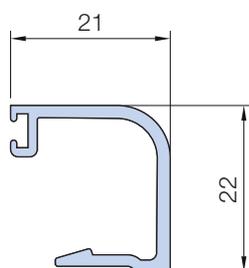
PL 14225*

370 g/m



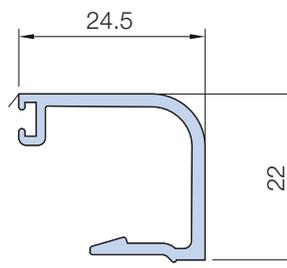
PL 14228*

389 g/m



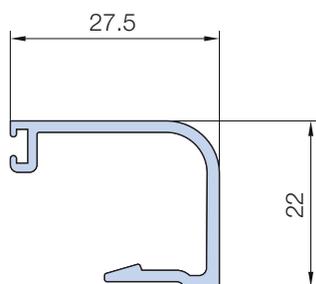
PL 15221**

259 g/m



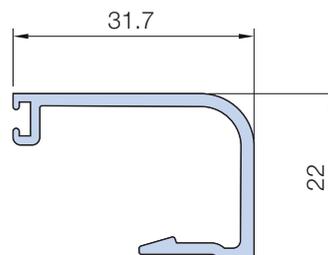
PL 15225**

275 g/m



PL 15228**

272 g/m

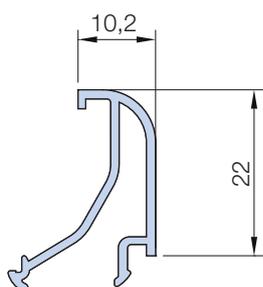


PL 15232**

305 g/m

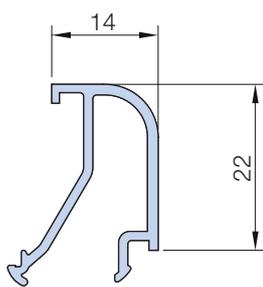
* UTILIZZARE SEMPRE CLIP ACP 50122

** UTILIZZARE SEMPRE GOMMINO ACP 5027



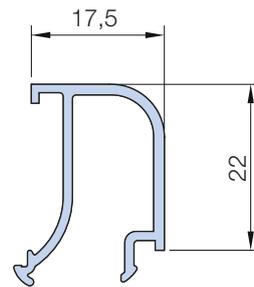
PL 1511

238 g/m



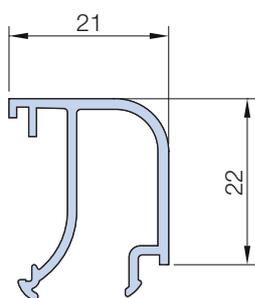
PL 1514

247 g/m



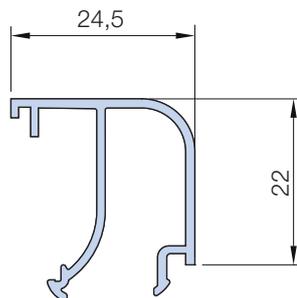
PL 1518

257 g/m



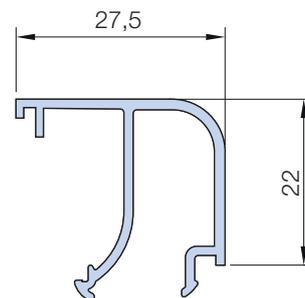
PL 1521

279 g/m



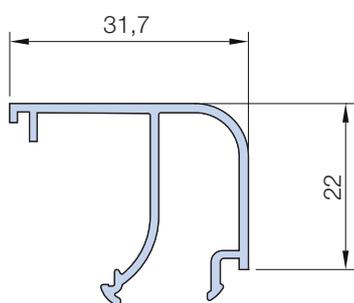
PL 1525

290 g/m



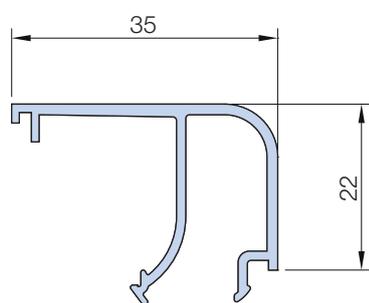
PL 1528

301 g/m



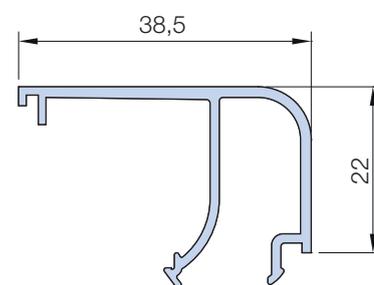
PL 1532

317 g/m



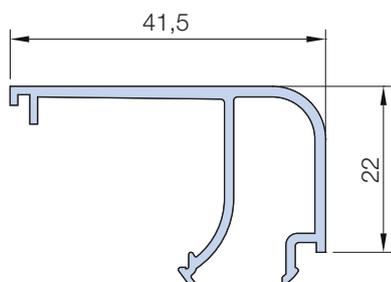
PL 1535

337 g/m



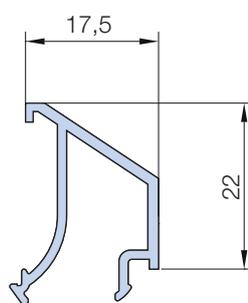
PL 1539

352 g/m



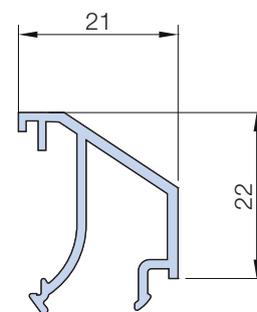
PL 1542

365 g/m



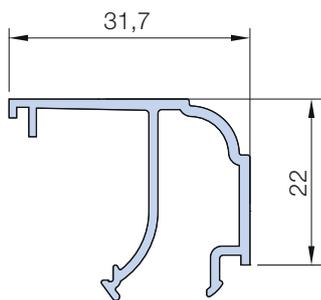
PL 1818

236 g/m



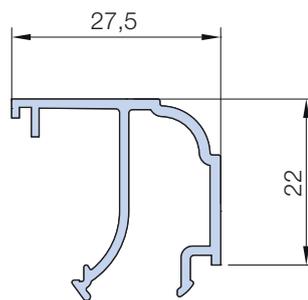
PL 1821

258 g/m



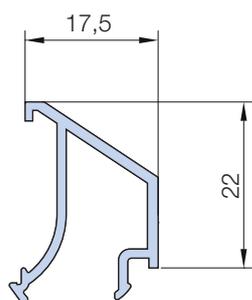
PL 1932

317 g/m



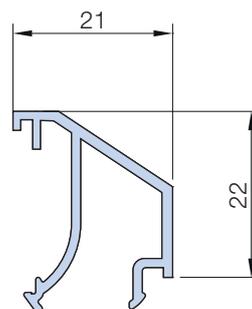
PL 1928

298 g/m



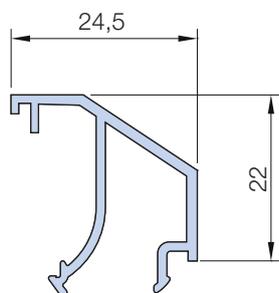
PL 1818

236 g/m



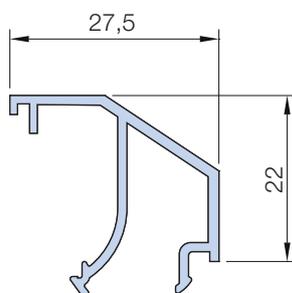
PL 1821

258 g/m



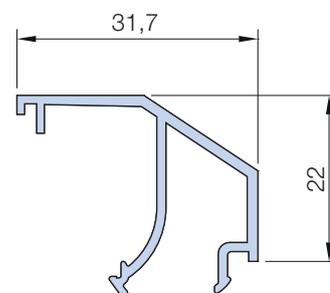
PL 1825

270 g/m



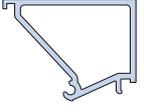
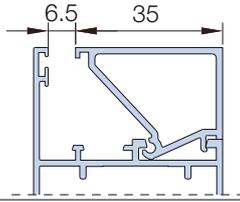
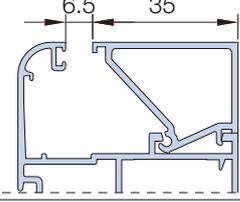
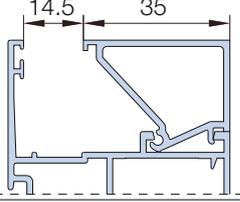
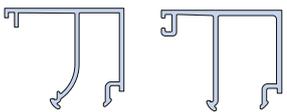
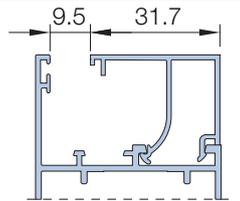
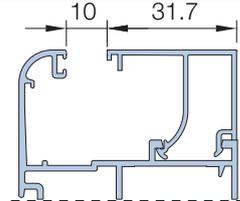
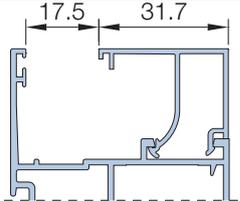
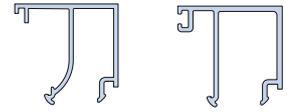
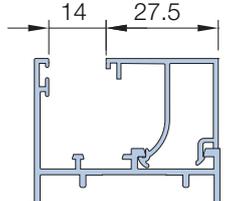
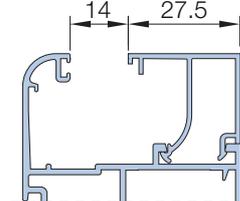
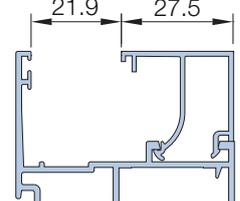
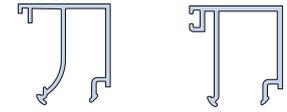
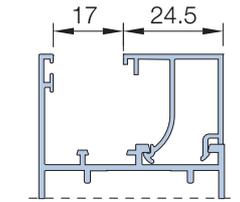
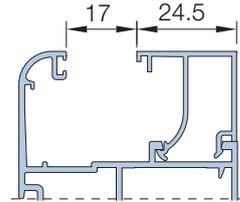
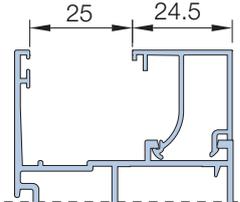
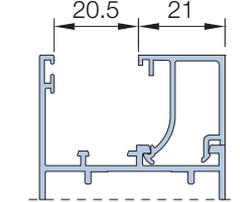
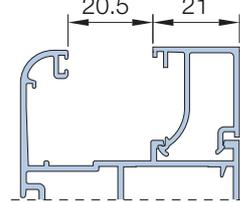
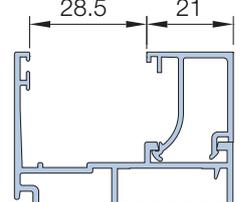
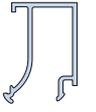
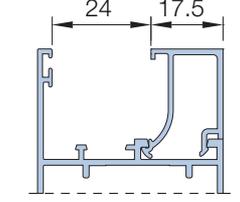
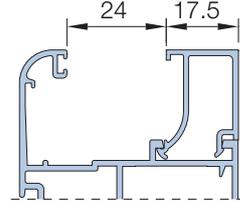
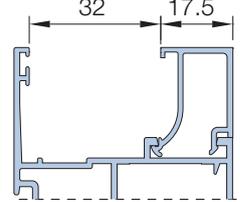
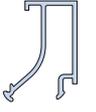
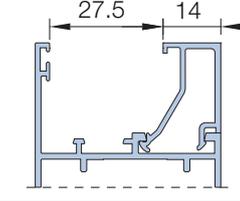
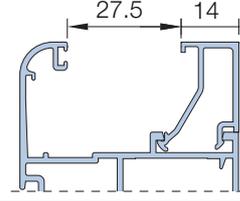
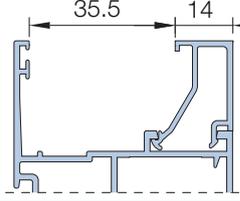
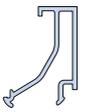
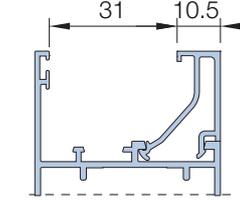
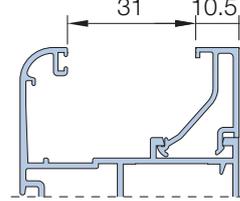
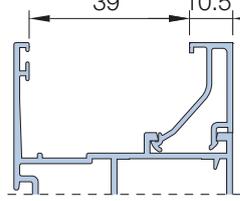
PL 1828

279 g/m

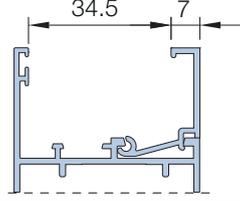
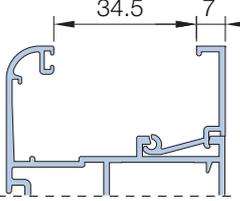
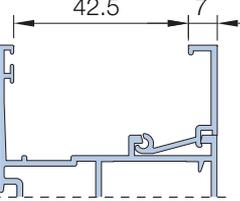
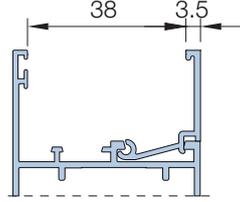
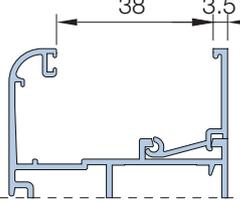
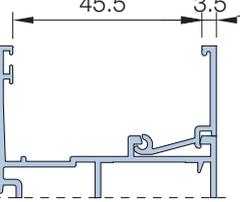
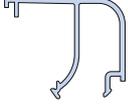
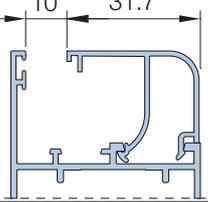
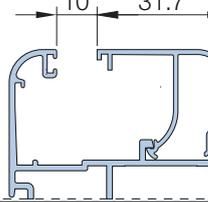
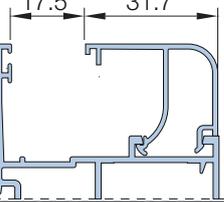
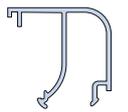
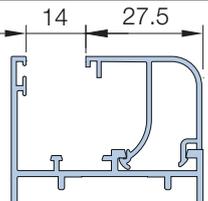
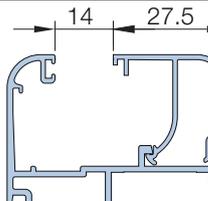
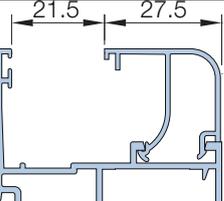
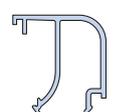
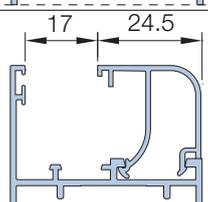
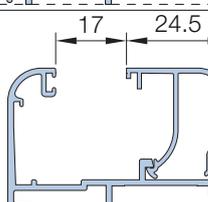
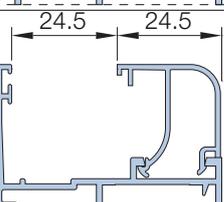
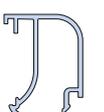
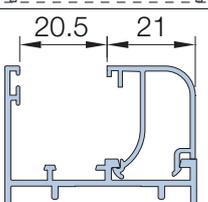
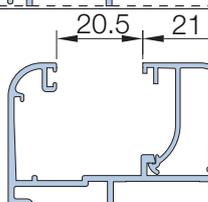
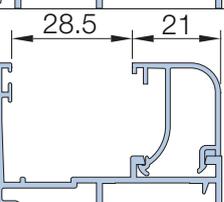
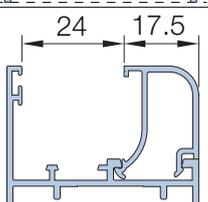
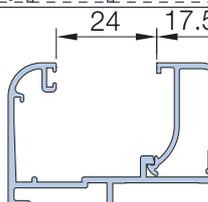
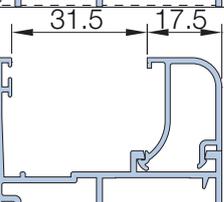
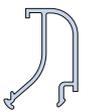
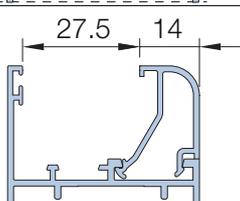
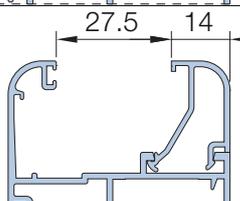
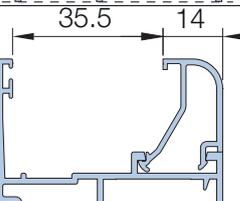


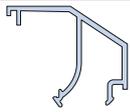
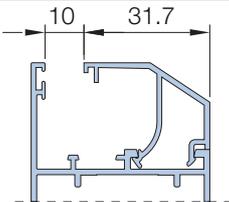
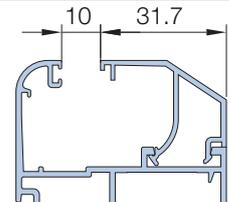
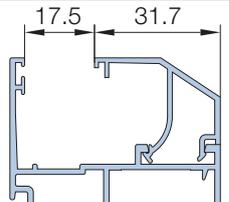
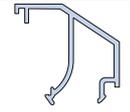
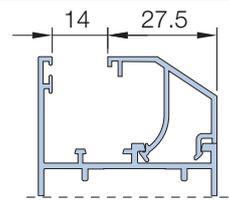
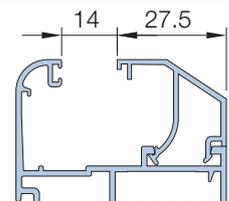
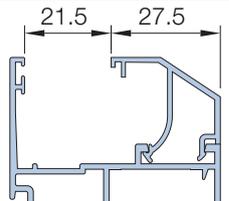
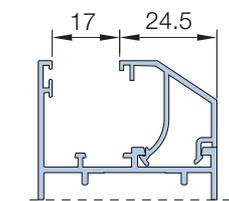
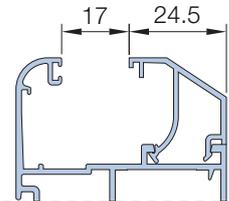
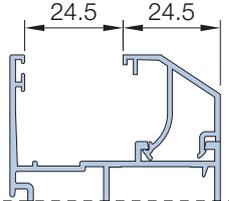
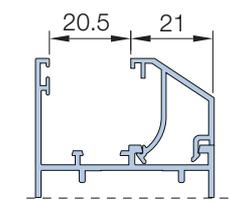
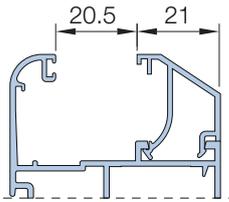
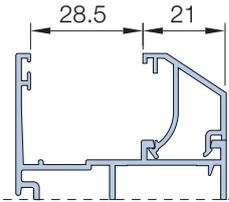
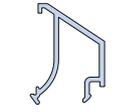
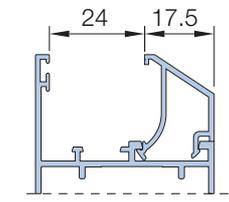
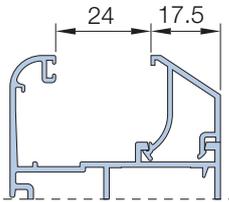
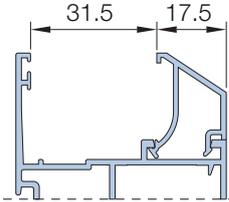
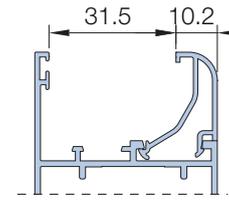
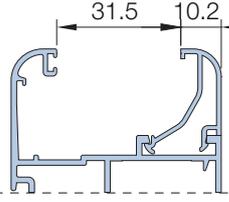
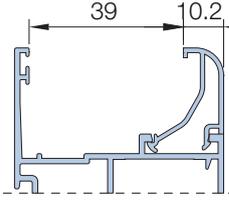
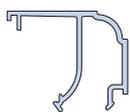
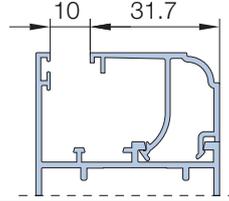
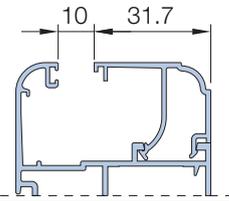
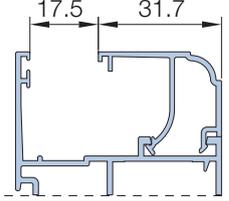
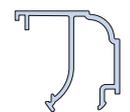
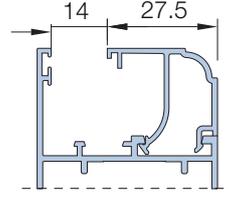
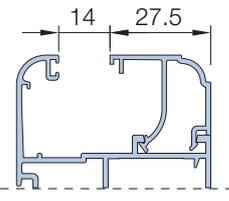
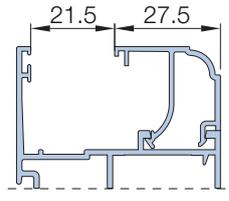
PL 1832

296 g/m

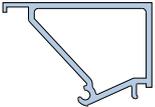
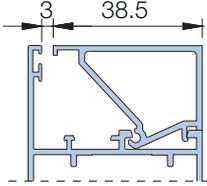
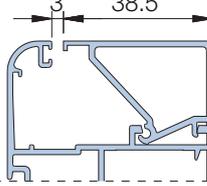
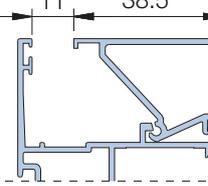
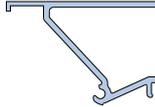
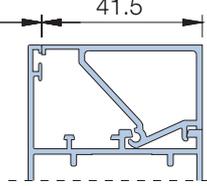
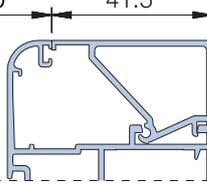
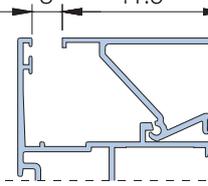
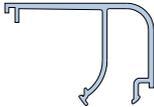
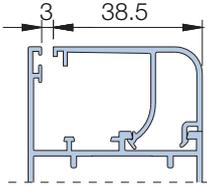
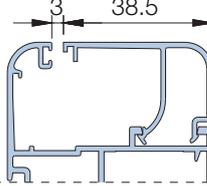
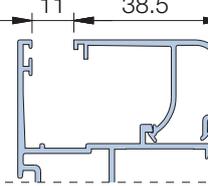
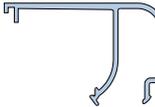
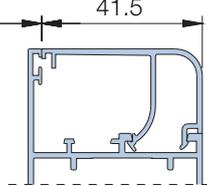
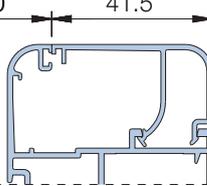
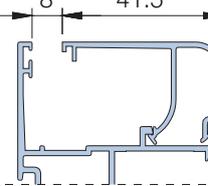
Fermavetro	Telaio PL 2002	Anta PL 2012	Anta PL 2011
 PL 1435			
 PL 1432 PL 14132			
 PL 1428 PL 14128			
 PL 1425 PL 14125			
 PL 1421 PL 14121			
 PL 1418			
 PL 1414			
 PL 1411			

VETRAZIONI
design

Fermavetro	Telaio PL 2002	Anta PL 2012	Anta PL 2011
 PL 1407	 34.5 7	 34.5 7	 42.5 7
 PL 1404	 38 3.5	 38 3.5	 45.5 3.5
 PL 1532	 10 31.7	 10 31.7	 17.5 31.7
 PL 1528	 14 27.5	 14 27.5	 21.5 27.5
 PL 1525	 17 24.5	 17 24.5	 24.5 24.5
 PL 1521	 20.5 21	 20.5 21	 28.5 21
 PL 1518	 24 17.5	 24 17.5	 31.5 17.5
 PL 1514	 27.5 14	 27.5 14	 35.5 14

Fermavetro	Telaio PL 2002	Anta PL 2012	Anta PL 2011
 PL 1832	 10 31.7	 10 31.7	 17.5 31.7
 PL 1828	 14 27.5	 14 27.5	 21.5 27.5
 PL 1825	 17 24.5	 17 24.5	 24.5 24.5
 PL 1821	 20.5 21	 20.5 21	 28.5 21
 PL 1818	 24 17.5	 24 17.5	 31.5 17.5
 PL 1511	 31.5 10.2	 31.5 10.2	 39 10.2
 PL 1932	 10 31.7	 10 31.7	 17.5 31.7
 PL 1928	 14 27.5	 14 27.5	 21.5 27.5

VETRAZIONI
Design

Fermavetro	Telaio PL 2002	Anta PL 2012	Anta PL 2011
 <p>PL 1439</p>	 <p>3 38.5</p>	 <p>3 38.5</p>	 <p>11 38.5</p>
 <p>PL 1442</p>	 <p>0 41.5</p>	 <p>0 41.5</p>	 <p>8 41.5</p>
 <p>PL 1539</p>	 <p>3 38.5</p>	 <p>3 38.5</p>	 <p>11 38.5</p>
 <p>PL 1542</p>	 <p>0 41.5</p>	 <p>0 41.5</p>	 <p>8 41.5</p>

AC 2001	Vite trilobata per ACP 50420/ACP 50454 <i>Trilobate screw for ACP 50420</i>
AC 2099	Tappino chiudi foro Ø11,5mm <i>Hole-closing ø11,5mm</i>
ACP 5000	Spina Ø8mm per ACP 5020, ACP 5054, ACP 7220 <i>Pin Ø8mm for ACP 5020, ACP 5054, ACP 7220</i>
ACP 5001	Vite Ø8mm per squadrette multifunzione ACP 7001, ACP 7002, ACP 5801 e ACP 5802 <i>Screw Ø8mm for ACP 7001, ACP 7002, ACP 5801 and ACP 5802 multifunctional corner joints</i>
ACP 5002	Squadretta 23X14mm a pulsante Ø10mm strong – filettata <i>Corner joint 23x14mm with push-button ø10mm strong - threaded</i>
ACP 5005	Cerniera componenti inox e piastrini premontati per telai piani; usare 1 coppia hmax=1800mm per h oltre 1800mm inserire la 3a cerniera <i>Hinge for flat frames right. Use a pair of hinge for hmax=1800mm, 3 hinges for h>1800mm</i>
ACP 5005 D	Cerniera premontata destra per telai piani; usare 1 coppia hmax=1800mm per h oltre 1800mm inserire la 3a cerniera <i>Hinge for flat frames, preassembled components and plates. Use a pair of hinge for hmax=1800mm, 3 hinges for h>1800mm</i>
ACP 5005 S	Cerniera premontata sinistra per telai piani; usare 1 coppia hmax=1800mm per h oltre 1800mm inserire la 3a cerniera <i>Hinge for flat frames, preassembled components and plates. Use a pair of hinge for hmax=1800mm, 3 hinges for h>1800mm</i>
ACP 5006	Cerniera 3 ali componenti inox e piastrini premontati per telai piani <i>3-wings hinge for flat frames, stainless steel components and pre-assembled plates</i>
ACP 5007	Cerniera 3a anta componenti inox e piastrini premontati; usare 1 coppia hmax=1800mm per h oltre 1800mm inserire la 3a cerniera <i>3rd leaf hinge. Use a pair of hinge for hmax=1800mm, 3 hinges for h>1800mm</i>
ACP 5007 D	Cerniera 3a anta premontata destra; usare 1 coppia hmax=1800mm per h oltre 1800mm inserire la 3a cerniera <i>3rd leaf hinge, inox component and preassembled plate DX. Use a pair of hinge for hmax=1800mm, 3 hinges for h>1800mm</i>
ACP 5007 S	Cerniera 3a anta premontata sinistra, usare 1 coppia hmax=1800mm per h oltre 1800mm inserire la 3a cerniera <i>3rd leaf hinge, inox component and preassembled plate SX. Use a pair of hinge for hmax=1800mm, 3 hinges for h>1800mm</i>
ACP 5008	Squadretta allineamento in acciaio inox <i>Alignment corner joint, stainless steel</i>
ACP 5010	Cerniera vasistas doppio scatto <i>Double snap hinge for bottom hung</i>
ACP 5011	Bracci sporgere telescopici a coppie <i>Top-hinged telescopic arms for projected windows</i>
ACP 5012	Cerniera vasistas scatto singolo <i>Hinge, single snap for bottom hung open in</i>
ACP 5013	Cricchetto vasistas <i>Awning/hopper window finger catch</i>
ACP 5014	Angolino fermavetro tondo <i>Round glazing bead corner</i>
ACP 5016	Braccio sganciabile inox <i>Stainless steel releasable arm</i>

ACP 5017	Cricchetto vasistas applicazione rapida in alluminio <i>Quick fitting finger catch</i>
ACP 5019	Riscontro 3a chiusura <i>Keeper for 3rd locking piece</i>
ACP 5021	Kit 3a chiusura registrabile <i>3rd adjustable locking piece kit</i>
ACP 5022	Catenacciolo in nylon <i>Nylon bolt</i>
ACP 5023	Tappo anti intestatura <i>Plug anti-cutter for beadless type profile</i>
ACP 5024	Incontro asta doppio in zama <i>Double rod keeper in zamak</i>
ACP 5025	Terminale asta in nylon <i>Nylon rod terminal</i>
ACP 5026	Piastrina sostegno anta <i>Plastic support for leaf</i>
ACP 5027	Gommino di bloccaggio per fermavetri a contrasto <i>Glazing bead locking rubber strip for PL1404 and PL1407 and tubulars</i>
ACP 5035	Regolo a muro in nylon <i>Nylon wall spacer</i>
ACP 5036	Regolo a muro in metallo <i>Metal wall spacer</i>
ACP 5043	Kit cerniere per anta abbinata telai piani (Complanare esterno Sormonto interno) <i>Hinge kit to combine leaf to flat frame</i>
ACP 5045	Blocchetti collegamento cremonese in zama <i>Zamak connection pieces for cremonese handle</i>
ACP 5046/350	Braccio ribalta 345/410mm Abbinare ACP 50156 e ACP 50157 <i>Tilt window arm 345/410mm for ACP 50156 and ACP 50157</i>
ACP 5046/411	Braccio ribalta 411/540mm. Abbinare ACP 50156 e ACP 50157 <i>Tilt window arm 411/540mm for ACP 50156 and ACP 50157</i>
ACP 5046/541	Braccio ribalta 541/1500mm. Abbinare ACP 50156 e ACP 50157 <i>Tilt & turn arm 541/1500mm for ACP 50156 and ACP 50157</i>
ACP 5047	Catenacci a leva in kit anta abbinata <i>Locking kit for combined leaf</i>
ACP 5049	Braccio supplementare per L>1000mm <i>Additional window arm for L>1000mm</i>
ACP 5052	Catenaccioli a spinta in kit in alluminio con eccentrico di registrazione per anta semifissa <i>Metal bolt kit for passive leaf</i>
ACP 5053	Giunzione astina per prolunga catenaccioli ACP 5052 <i>Connection rod for extension bolt ACP 5052</i>
ACP 5056	Kit chiusura supplementare orizzontale / fulcro <i>Horizontal additional kit</i>

ACP 5057	Kit chiusura supplementare verticale <i>Vertical additional kit</i>
ACP 5058	Rotella inserimento guarnizione centrale <i>Gasket fitting roller</i>
ACP 5069	Cerniera 3 ali 3 a anta componenti inox e piastrini premontati <i>3-wings hinge for 3rd leaf, stainless steel components and pre-assembled plates</i>
ACP 5079	Tappo riporto central versione giunto aperto <i>Double casement plug - open joint type</i>
ACP 5081	Incontro asta singolo in nylon <i>Nylon keeper single rod</i>
ACP 5082	Incontro asta doppio in nylon <i>Nylon double rod keeper</i>
ACP 5083	Tappo riporto central versione doppia battuta <i>Double casement plug - double rebate type</i>
ACP 5084	Squadretta marmolada per telai e imbptti <i>Alignment corner joint with tightening screw for frames and wall profiles</i>
ACP 5091M	Frizione bilico con fermo <i>Pivot clutch with stop</i>
ACP 5093	Tappi cassonetto <i>Box covers</i>
ACP 5095	Inviti guida tapparella <i>Roller shutter guide supports</i>
ACP 5100	Kit piastre per frizione bilico ACP 5091M <i>Plate kit for ACP 5091M pivot clutch with stop</i>
ACP 5150/D	Kit anta ribalta SECRET più cerniera a scomparsa destra braccio corto - portata max 100kg <i>Tilt and turn windows kit SECRET serie. It is included concealed hinge for DX short arm - Max load 100kg</i>
ACP 5150/S	Kit anta ribalta SECRET più cerniera a scomparsa sinistra braccio corto - portata max 100kg <i>Tilt and turn windows kit, SECRET serie. It is included concealed hinge for SX short arm - Max load 100kg</i>
ACP 5151/D	Kit anta ribalta SECRET più cerniera a scomparsa destra braccio lungo - portata max 100kg <i>Tilt and turn windows kit, SECRET serie. It is included hidden hinge for DX long arm - Max load 100kg</i>
ACP 5151/S	Kit anta ribalta SECRET più cerniera a scomparsa sinistra braccio lungo - portata max 100kg <i>Tilt and turn windows kit, SECRET serie. It is included hidden hinge for SX long arm - Max load 100kg</i>
ACP 5152	Incontro doppio in zama SECRET per finestra 2 ante battente <i>Zamak double keeper for casement window</i>
ACP 5153	Braccio supplementare SECRET per L >1000mm da abbinare ad ACP 5151 <i>Secret additional window arm for ACP 5151, L>1000mm</i>
ACP 5154	Rostro di chiusura regolabile per soluzione con cerniere a scomparsa SECRET <i>Registrable beak for SECRET hinge</i>
ACP 5155	Chiusura supplementare per cerniera scomparsa A/R SECRET. Si usa anche in orizzontale per L>1000mm e tra le cerniere per H>1200mm <i>Additional locking piece for tilt & turn SECRET serie. L>1000mm, H>1200mm</i>

ACP 5156	Catenacciolo anta passiva in abbinamento ad anta ribalta SECRET <i>Bolt for passive leaf, SECRET tilt & turn mechanism</i>
ACP 5157	Kit catenacci con manovra bidirezionale SECRET anta passiva <i>Bolt kit and SECRET bidirectional mechanism for passive leaf</i>
ACP 5158	Incontro singolo in zama per catenacciolo superiore anta passiva ribalta SECRET, abbinare a ACP 5160 <i>Zamak single keeper for SECRET passive tilt & turn mechanism</i>
ACP 5159	Terminale in zama SECRET, finestre a battente <i>Zamak SECRET rod-end for casement windows</i>
ACP 5160	Kit manovra antaribalta SECRET. Abbinare a ACP 5150 e ACP 5151 <i>SECRET tilt and turn kit for ACP 5150 and ACP 5151</i>
ACP 5161/D	Kit cerniere a scomparsa SECRET anta passiva destra - portata max 100kg <i>SECRET concealed hinges, right - Max load 100kg</i>
ACP 5161/S	Kit cerniere a scomparsa SECRET anta passiva sinistra - portata max 100kg <i>SECRET concealed hinges, left - Max load 100kg</i>
ACP 5162/D	Kit A/R con cerniere a scomparsa SECRET anta destra braccio corto - portata max 150kg <i>SECRET tilt and turn mechanism with concealed hinges, right, short arm - Max load 150kg</i>
ACP 5162/S	Kit A/R con cerniera a scomparsa SECRET anta sinistra braccio corto - portata max 150kg <i>SECRET tilt and turn mechanism with concealed hinges, left, short arm - Max load 150kg</i>
ACP 5163/D	Kit A/R con cerniere a scomparsa SECRET anta destra braccio lungo - portata max 150kg <i>SECRET tilt and turn mechanism with concealed hinges, right, long arm - Max load 150kg</i>
ACP 5163/S	Kit A/R con cerniera a scomparsa SECRET anta sinistra braccio lungo - portata max 150kg <i>SECRET tilt and turn mechanism with concealed hinges, left, long arm - Max load 150kg</i>
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ACP 5164/S	Kit cerniere a scomparsa SECRET anta passiva sinistra - portata max 150kg <i>SECRET concealed hinges, left - Max load 150kg</i>
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AGP 5199	Meccanismo martellina bidirezionale per battente quadro 7mm <i>Bidirectional martellina handle mechanism for casement windows, 7mm</i>
ACP 5501	Squadretta maggiorata 23X35mm a pulsante <i>Oversized bracket 23x35mm with push-button</i>
ACP 5504	Squadretta 23X14mm estrusa, angolo variabile min. 30° max.178° <i>Bracket 23x14mm, variable angle, min 30° max 178°</i>
ACP 5506	Squadretta maggiorata 23X35mm estrusa, angolo variabile min. 55° max.315° <i>Oversized bracket 23x35mm, variable angle, min 55° max 315°</i>
ACP 5521	Cavallotto a pulsante 23X14mm in pressofuso <i>Cross junction 23x14mm, die-cast, with push-button</i>
ACP 5800	Spina per squadretta multifunzione ACP 5801, ACP 5802, ACP 6235 e ACP 7001 <i>Pin for ACP 5801, ACP 5802, ACP 6235 and ACP 7001 multifunction corner joints</i>

ACP 5801	Squadretta 23X14mm multifunzione, avvitare, spinare e cianfrinare <i>Multi-purpose bracket 23x14mm, screwing, broaching and crimping</i>
ACP 5802	Squadretta maggiorata 23X35mm multifunzione, avvitare, spinare e cianfrinare <i>Multi-purpose bracket 23x135m, screwing, broaching and crimping</i>
ACP 5805	Squadretta pressofusa 23X14mm angolo variabile min.60° max 120° <i>Bracket 23x14mm variable angle - strong min 60° max 120°</i>
ACP 5821	Cavallotto 23x14mm in pressofuso con grano e codolo <i>Cross junction 23x14mm die-cast with dowel and shank</i>
ACP 6502	Squadretta 20x10mm a bottone <i>Bottom corner joint 20x10mm</i>
ACP 7207	Cavallotto di allineamento scocca esterna profili dritti <i>External alignment clamp for plane profiles</i>
ACP 7208	Cavallotto di allineamento scocca esterna profili raggiati <i>Cross junction for rounded profiles</i>
ACP 9909	Spessore 8mm per cerniere ad applicazione frontale <i>8mm thickness for frontal hinges</i>
ACP 9915	Spessore 7mm per cerniere ad applicazione frontale <i>7mm thickness for frontal hinges</i>
ACP 9918	Cerniera Strong a 2 ali per telai piani <i>2-wing Strong hinge for flat frame</i>
ACP 9938	Cerniera Strong a 2 ali, 3° anta anche per telai complanari <i>2-wing 3rd leaf Strong hinge for flat frame</i>
ACP 9963/60	Cerniera frontale, 3 ali interasse 60mm <i>3 wings frontal hinge, 60mm</i>
ACP 9963/93	Cerniera frontale, 3 ali interasse 93mm <i>3 wings frontal hinge, 93mm</i>
ACP 9964/60	Cerniere frontale 2 ali interasse 60mm <i>2 wings frontal hinge, 60mm</i>
ACP 9964/93	Cerniere frontale 2 ali interasse 93mm <i>2 wings frontal hinge, 93mm</i>
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ACP 50010	Avvolgibile senza placca <i>Winder without plate</i>
ACP 50011	Placca per avvolgitore <i>Plate for winder</i>
ACP 50095	Guida cinghia a cassonetto <i>Box belt guide</i>

ACP 50110	Squadretta allineamento con eccentrici di tiraggio per ante <i>Alignment corner bracket with tightening eccentrics</i>
ACP 50117D	Mensola destra per supporto a squadro ACP 50220 <i>Right bracket for square support ACP 50220</i>
ACP 50117S	Mensola sinistra per supporto a squadro ACP 50220 <i>Left bracket for square support ACP 50220</i>
ACP 50122	Clip fermavetro <i>Glazing bead clip</i>
ACP 50123	Cerniera piatta per porte "va e vieni" doppia azione in alluminio estruso RAL 9010 <i>Plate swing hinge- double direction made in aluminum extruded</i>
ACP 50128	Cappetta scarico acqua in nylon <i>Nylon drainage plug, black.</i>
ACP 50128C	Cover in alluminio, da abbinare ad ACP 50128. Disponibile in tutte le finiture <i>Aluminium cover to ACP 50128</i>
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ACP 50146/411	Braccio ribalta manovra logica 345/410mm. Abbinare ACP 50180 <i>Logical tilt & turn arm 411/541mm for ACP 50180</i>
ACP 50146/541	Braccio ribalta manovra logica 345/410mm. Abbinare ACP 50180 <i>Logical tilt & turn arm 345/410mm for ACP 50180</i>
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ACP 50157	Kit anta ribalta senza cremonese per telai complanari interni <i>Tilt & turn kit for flat frame, no cremonese handle</i>
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ACP 50160/1350	Kit binari per scorrevole parallelo L anta = da 1101mm a 1350mm <i>Parallel slide track kit L=1101mm to 1350mm</i>
ACP 50160/1600	Kit binari per scorrevole parallelo L anta = da 1351mm a 1600mm <i>Parallel slide track kit L=1351mm to 1600mm</i>
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AGP 6231	Guarnizione sottovetro in espanso. Applicazione con biadesivo <i>Seal under glass foam. Application with adhesive</i>
AGP 6280	Guarnizione di giunzione telaio battente-telaio scorrevole <i>Side-hung frame/sliding frame interface seal</i>
AGP 7202	Guarnizione sottoporta <i>Under door gasket</i>
AGP 7007	Guarnizione vetro esterna da 3mm, filo alluminio, consente la piega a 90° senza taglio <i>External glazing seal, 3 mm, installed flush with aluminum. Can be bent at a 90° angle without cutting</i>
TAC 1000	Astina in poliammide. Disponibile in grigio e nero <i>PA rod. Available in color grey and black</i>

ELENCO GUARNIZIONI

	<p>AGG 3000</p> <p>Guarnizione di battuta per telai capannoni e imbotti porte interne Cfz: 100m</p> <p><i>Rebate gasket for industrial shed frames and wall profiles of internal wall</i> Pkg: 300m</p>		<p>AGP 4005</p> <p>Guarnizione di battuta per riporto centrale lato semifisso per versione doppia battuta Cfz: 300m</p> <p><i>Rebate gasket for central connection profile on the semi-fixed side for double rebate version</i> Pkg: 300m</p>
	<p>AGP 4000</p> <p>Guarnizione di battuta in EPDM Cfz: 400m</p> <p><i>EPDM rabbet seal</i> Pkg: 400m</p>		<p>AGP 4013</p> <p>Guarnizione esterna in EPDM 2,5mm Cfz: 200m</p> <p><i>EPDM external glazing seal 2,5mm</i> Pkg: 200m</p>
	<p>AGP 4002</p> <p>Guarnizione isolamento perimetrale muro-telaio Cfz: 200m</p> <p><i>Wall-frame perimeter insulation seal</i> Pkg: 200m</p>		<p>AGP 4014</p> <p>Guarnizione esterna in EPDM 4mm Cfz: 200m</p> <p><i>EPDM external glazing seal, 4mm</i> Pkg: 200m</p>
	<p>AGP 4004</p> <p>Guarnizione di battuta in EPDM coestruso, inserimento ad infilare Cfz: 300m</p> <p><i>Rebate gasket in co-extruded EPDM</i> Cfz: 300m</p>		<p>AGP 4015</p> <p>Guarnizione acustica di battuta esterna, coestrusa con base rigida sostituibile Cfz: 750m</p> <p><i>External rabbet acoustic gasket, co-extruded, with replaceable rigid base</i> Pkg: 750m</p>
	<p>AGP 4006</p> <p>Guarnizione di battuta in EPDM coestruso, inserimento ad infilare Cfz: 300m</p> <p><i>Rebate gasket in co-extruded EPDM</i> Cfz: 300m</p>		<p>AGP 4085</p> <p>Angoletto vulcanizzato per AGP 4000 Cfz: 400 pz</p> <p><i>Vulcanized corner piece for AGP 4000</i> Pkg: 400pz</p>

	AGP 6280
	<p>Guarnizione di giunzione telaio battente-telaio scorrevole Cfz: 300m</p> <p><i>Side-hung frame/sliding frame interface seal Pkg: 300m</i></p>

	AGP 7007
	<p>Guarnizione vetro esterna da 3mm, filo alluminio, consente la piega a 90° senza taglio Cfz: 250m</p> <p><i>External glazing seal, 3 mm, installed flush with aluminum. Can be bent at a 90° angle without cutting Pkg: 250m</i></p>

	AGP 4203
	<p>Guarnizione vetro interna, 3mm filo fermavetro. Consente la piega a 90° Cfz: 200m</p> <p><i>Inner glazing bead seal, 3mm Pkg: 200m</i></p>

	AGP 4501R
	<p>Guarnizione giunto aperto Cfz: 90m</p> <p><i>Open joint gasket Pkg: 90m</i></p>

	AGP 4204
	<p>Guarnizione vetro interna, 4mm filo fermavetro. Consente la piega a 90° Cfz: 150m</p> <p><i>Inner glazing bead seal, 4mm Pkg: 150m</i></p>

	AGP 4885R
	<p>Angolo vulcanizzato per AGP 4501R Cfz: 400 pz</p> <p><i>Corner joint for AGP 4501R Pkg: 400 pcs</i></p>

	AGP 4205
	<p>Guarnizione vetro interna, 5mm filo fermavetro. Consente la piega a 90° Cfz: 120m</p> <p><i>Inner glazing bead seal, 5mm Pkg: 120m</i></p>

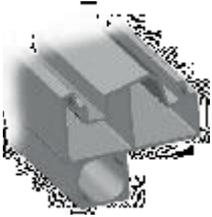
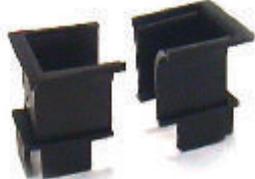
	AGP 7202
	<p>Angolo vulcanizzato per AGP 62172 Cfz: 400 pz</p> <p><i>Corner joint for AGP 62172 Pkg: 400 pcs</i></p>

	AGP 4206
	<p>Guarnizione vetro interna, 6mm filo fermavetro. Consente la piega a 90° Cfz: 100m</p> <p><i>Inner glazing bead seal, 6mm Pkg: 100m</i></p>

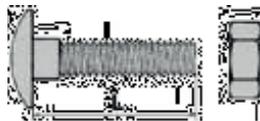
	AGP 4099
	<p>Guarnizione isolamento perimetrale telaio-controtelaio Cfz: 50m</p> <p><i>Frame-subframe perimeter insulating seal Pkg: 50m</i></p>

	<p>AGP 4040</p> <p>Guarnizione chiudi cava 15mm color argento Cfz: 100m</p> <p><i>Frame recess cover strip 15mm and beat sliding version, silver color Pkg: 100m</i></p>		<p>TAC 1000</p> <p>Astina in poliammide Disponibile in grigio e nero Cfz: 250m</p> <p><i>PA rod. Available in color grey and black Pkg: 250m</i></p>
	<p>AGG 3092</p> <p>Giunto per finestrate a nastro Cfz: 65m</p> <p><i>Joint for ribbon windows Pkg: 65m</i></p>		<p>ACP 5058</p> <p>Rotella inserimento guarnizione centrale Cfz: 250 pz</p> <p><i>Gasket fitting roller Pkg: 250 pcs</i></p>
	<p>AGP 4807</p> <p>Spazzolino dim. 4.8X7mm per sottoporta Cfz: 100m</p> <p><i>Under door brush strip 4.8X7mm Pkg: 100m</i></p>	<p>ELENCO ACCESSORI GENERICI</p>	
	<p>AGP 5806</p> <p>Spazzolino dim. 5.8X6mm per profili monoblocco Cfz: 100m</p> <p><i>Brush strip 5.8X6mm for single-unit profiles Pkg: 100m</i></p>		<p>AC 2099</p> <p>Tappino chiudiforo Ø11,5 mm Cfz: 1000 pz</p> <p><i>Hole-closing cap ø11.5mm Pkg: 1000 pcs</i></p>
	<p>AGP 5813</p> <p>Spazzolino dim. mm 5.8X13mm per celino monoblocco Cfz: 100m</p> <p><i>Brush strip 5.8X13mm for single-unit profiles Pkg: 100m</i></p>		<p>ACP 5027</p> <p>Gommino di bloccaggio per fermavetri a contrasto Cfz: 100 pz</p> <p><i>Glazing bead locking rubber strip for PL1404 and PL1407 and tubulars Pkg: 100 pcs</i></p>
	<p>ACP 5035</p> <p>Regolo a muro in nylon Cfz: 250 pz</p> <p><i>Nylon wall spacer Pkg: 250 pcs</i></p>		

	<p>ACP 5036</p> <p>Regolo a muro in metallo Cfz: 100 pz</p> <p><i>Metal wall spacer Pkg: 100 pcs</i></p>		<p>ACP 5083</p> <p>Tappo per riporto centrale versione doppia battuta Cfz: 25 cp</p> <p><i>Astragal plug double rebate type Pkg: 25 pcs</i></p>
	<p>ACP 50128</p> <p>Cappetta scarico acqua in nylon Cfz: 100 pz</p> <p><i>Nylon drainage plug Pkg: 100 pcs</i></p>		<p>ACP 50122</p> <p>Clip fermavetro Cfz: 200 pz</p> <p><i>Glazing bead clip Pkg: 200 pcs</i></p>
	<p>ACP 50128C</p> <p>Cover in alluminio, da abbinare ad ACP 50128. Disponibile in tutte le finiture, verniciate ed ossidate Cfz: 100 pz</p> <p><i>Alluminium cover to ACP 50128 Pkg: 100 pcs</i></p>		<p>ACP 5014</p> <p>Angolino fermavetro tondo Cfz: 160 pz</p> <p><i>Round glazing bead corner Pkg: 160 pcs</i></p>
	<p>ACP 5023</p> <p>Tappo anti intestatura Cfz: 50 cp</p> <p><i>Plug anti-cutter for beadless type profile Pkg: 50 pcs</i></p>		<p>ACP 50535</p> <p>Fresa a due diametri 9/19mm applicazione regolo obliquo ACP 50539 Cfz: 1 pz</p> <p><i>Two diameter cutter for wall spacer fitting Pkg: 1 pcs</i></p>
	<p>ACP 5079</p> <p>Tappo per riporto centrale versione giunto aperto Cfz: 25 cp</p> <p><i>Astragal plug open joint Pkg: 25 pcs</i></p>		<p>ACP 50536</p> <p>Regolo obliquo in zama per viti tradizionali Cfz: 100 pz</p> <p><i>Zamak wall spacer Pkg: 100 pcs</i></p>

	<p align="center">ACP 50537</p> <p>Dima di posizionamento per foratura profilo per applicazione ACP 50536 e ACP 50539 Cfz: 1 pz</p> <p><i>Profile drilling position template for fitting ACP 50536 and ACP 50539</i> Pkg: 1 pcs</p>		<p align="center">ACP 50010</p> <p>Avvolgitore senza placca Cfz: 1 pz</p> <p><i>Winder without plate</i> Pkg: 1 pcs</p>
	<p align="center">ACP 50538</p> <p>Fresa a due diametri per 7/14mm applicazione regolo obliquo per ACP 50536 Cfz: 1 pz</p> <p><i>Two diameter cutter for fitting ACP 50536 wall spacer fitting</i> Pkg: 1 pcs</p>		<p align="center">ACP 50011</p> <p>Placca per avvolgitore Cfz: 1 pz</p> <p><i>Plate for winder</i> Pkg: 1 pcs</p>
	<p align="center">ACP 50539</p> <p>Regolo obliquo in nylon per turbovite Cfz: 100 pz</p> <p><i>Nylon wall spacer</i> Pkg: 100 pcs</p>		<p align="center">ACP 50095</p> <p>Guida cinghia a cassonetto Cfz: 1 pz</p> <p><i>Box belt guide</i> Pkg: 1 pcs</p>
	<p align="center">ACP 5093</p> <p>Tappi cassonetto Cfz: 1 cp</p> <p><i>Box covers</i> Pkg: 1 pairs</p>		<p align="center">ACP 50117D</p> <p>Mensola destra per supporto a squadra ACP 50220 Cfz: 1 pz</p> <p><i>Right bracket for square support ACP 50220</i> Pkg: 1 pcs</p>
	<p align="center">ACP 5095</p> <p>Inviti guida tapparella Cfz: 50 cp</p> <p><i>Roller shutter guide supports</i> Pkg: 50 pcs</p>		<p align="center">ACP 50117S</p> <p>Mensola sinistra per supporto a squadra ACP 50220 Cfz: 1 pz</p> <p><i>Left bracket for square support ACP 50220</i> Pkg: 1 pcs</p>

	ACP 50220
	<p>Supporto a squadro 46X10mm rullo tapparella Cfz: 1 pz</p> <p><i>Square bracket 46x10mm for rolling shutter Pkg: 1 pcs</i></p>

	ACP 51520
	<p>Vite di fissaggio supporto/ mensole Cfz: 200 pz</p> <p><i>Support/bracket fastening screw Pkg: 200 pcs</i></p>

	ACP 50704
	<p>Cassetta semi incasso Cfz: 1 pz</p> <p><i>Semi-embedded box Pkg: 1 pcs</i></p>

	ACP 51001
	<p>Guida cinghia da montante Cfz: 200 pz</p> <p><i>Jamb belt guide Pkg: 200 pcs</i></p>

	ACP 50705
	<p>Avvolgitore con placca nera per cinghia tapparella Cfz: 1 pz</p> <p><i>Winder with black plate for roller shutter belt Pkg: 1 pcs</i></p>

	ACP 51190
	<p>Boccola di giunzione rullo/ puleggia rullo/calotta Cfz: 1 pz</p> <p><i>Joint bushing, for roller/pulley and roller/ cover Pkg: 1 pcs</i></p>

ELENCO ACCESSORI PER GIUNZIONE

	ACP 50825
	<p>Puleggia da 180mm Cfz: 1 pz</p> <p><i>180mm pulley Pkg: 1 pcs</i></p>

	ACP 5001
	<p>Vite Ø8mm per squadrette multifunzione ACP 7001, ACP 7002, ACP 5801 e ACP 5802 Cfz: 1000 pz</p> <p><i>Screw Ø8mm for ACP 7001, ACP 7002, ACP 5801 e ACP 5802 multifunctional corner joints Pkg: 1000 pcs</i></p>

	ACP 50832
	<p>Calotta di supporto per rullo Cfz: 1 pz</p> <p><i>Roller support cover Pkg: 1 pcs</i></p>

	AC 2001
	<p>Vite trilobata per ACP 50420 and ACP 50454 Cfz: 250 pz</p> <p><i>Trilobate screw for ACP 50420 and ACP 50454 Pkg: 250 pcs</i></p>

	<p align="center">ACP 5000</p> <p>Spina Ø8mm per ACP 5020, ACP 5054 e ACP 7220 Cfz: 400 pz</p> <p><i>Pin for ACP 5020, ACP 5054 and ACP 7220 Pkg: 400 pcs</i></p>		<p align="center">ACP 5002</p> <p>Squadretta 23X14mm a pulsante Ø10mm strong - filettata Cfz: 250 pz</p> <p><i>Corner joint 23x14mm with push-button Ø10mm strong - threaded Pkg: 250 pcs</i></p>
	<p align="center">ACP 5800</p> <p>Spina per squadretta multifunzione ACP 5801, ACP 5802, ACP 6235 e ACP 7001 Cfz: 1000 pz</p> <p><i>Pin for ACP 5801, ACP 5802, ACP 6235 and ACP 7001 multifunctional corner joints Pkg: 1000 pcs</i></p>		<p align="center">ACP 5501</p> <p>Squadretta maggiorata 23X35mm a pulsante Cfz: 250 pz</p> <p><i>Oversized bracket 23x35mm with push-button Pkg: 250 pcs</i></p>
	<p align="center">ACP 5008</p> <p>Squadretta allineamento in acciaio inox Cfz: 400 pz</p> <p><i>Alignment corner joint, stainless steel Pkg: 400 pcs</i></p>		<p align="center">ACP 5504</p> <p>Squadretta 23X14mm estrusa angolo variabile min. 30° max.178° Cfz: 20 pz</p> <p><i>Bracket 23x14mm, variable angle, min 30° max 178° Pkg: 20 pcs</i></p>
	<p align="center">ACP 5084</p> <p>Squadretta allineamento con vite di tiraggio per telai e imbotti Cfz: 250 pz</p> <p><i>Alignment corner joint with tightening screw for frames and wall profiles Pkg: 250 pcs</i></p>		<p align="center">ACP 5506</p> <p>Squadretta maggiorata 23X35mm estrusa angolo variabile min. 55° max.315° Cfz: 20 pz</p> <p><i>Oversized bracket 23x35mm, variable angle, min 55° max 315° Pkg: 20 pcs</i></p>
	<p align="center">ACP 50110</p> <p>Squadretta allineamento con eccentrici di tiraggio per ante Cfz: 250 pz</p> <p><i>Alignment corner joint with tightening eccentrics Pkg: 250 pcs</i></p>		<p align="center">ACP 5521</p> <p>Cavallotto a pulsante 23X14mm in pressofuso Cfz: 250 coppie</p> <p><i>Cross junction 23x14mm, die-cast, with push-button Pkg: 250 pairs</i></p>

	<p>ACP 5801</p> <p>Squadretta 23X14mm multifunzione, avvitare, spinare e cianfrinare Cfz: 200 pz</p> <p><i>Multi-purpose bracket 23x14mm, screwing, broaching and crimping Pkg: 200 pcs</i></p>		<p>ACP 7208</p> <p>Cavallotto di allineamento scocca esterna profili raggiati Cfz: 250 dx, 250 sx pz</p> <p><i>Cross junction for rounded profiles Pkg: 250 dx - 250 sx pcs</i></p>
	<p>ACP 5802</p> <p>Squadretta maggiorata 23X35mm multifunzione, avvitare, spinare e cianfrinare Cfz: 100 pz</p> <p><i>Multi-purpose bracket 23x135mm, screwing, broaching and crimping Pkg: 100 pcs</i></p>		<p>ACP 50425</p> <p>Cavallotto cava fermavetro per inglesine Cfz: 1 pz</p> <p><i>Clamp glazing bead for inglesine Pkg: 1 pcs</i></p>
	<p>ACP 5805</p> <p>Squadretta pressofusa 23X14mm angolo variabile min.60° max 120° Cfz: 20 pz</p> <p><i>Bracket 23x14mm variable angle - strong min 60° max 120° Pkg: 20 pcs</i></p>		<p>ACP 50420</p> <p>Cavallotto 23X14mm a scatto in estruso Cfz: 100 pz</p> <p><i>Extruded cross junction 23x14mm Pkg: 100 pcs</i></p>
	<p>ACP 5821</p> <p>Cavallotto 23X14mm in pressofuso con grano e codulo Cfz: 250 pz</p> <p><i>Cross junction 23x14mm die-cast with dowel and shank Pkg: 250 pcs</i></p>		<p>ACP 50454</p> <p>Cavallotto a scatto doppio in estruso Cfz: 100 pz</p> <p><i>Extruded aluminium snap cross junction for transoms Pkg: 100 pcs</i></p>
	<p>ACP 7207</p> <p>Cavallotto di allineamento scocca esterna profili dritti Cfz: 250 dx, 250 sx pz</p> <p><i>Cross junction for flat frame Pkg: 250 dx - 250 sx pcs</i></p>		<p>ACP 50252</p> <p>Martellina Aurora quadro 7mm Cfz: 10 pz</p> <p><i>Aurora Martellina handle 7mm Pkg: 10 pcs</i></p>

ELENCO ACCESSORI DI CHIUSURA

	ACP 50253
	<p>Martellina Aurora con chiave quadro 7mm Cfz: 10 pz</p> <p><i>Aurora martellina handle with key 7mm Pkg: 10 pcs</i></p>

	ACP 50235/S
	<p>Cremonese Aurora monodirezionale sinistra con chiave Cfz: 10 pz</p> <p><i>Left monodirectional Aurora cremonese handle with key Pkg: 10 pcs</i></p>

	ACP 50200
	<p>Cremonese Aurora bidirezionale completa di piastrini antirollio Cfz: 10 pz</p> <p><i>Bidirectional cremonese Aurora handle with anti-roll plates Pkg: 10 pcs</i></p>

	ACP 50233
	<p>Cremonese Aurora bidirezionale, senza manico, completa di piastrini anti rollio Cfz: 10 pz</p> <p><i>Aurora cremonese bidirectional with anti-roll plates, handle excluded Pkg: 10 pcs</i></p>

	ACP 50234
	<p>Cremonese Aurora bidirezionale con chiave Cfz: 10 pz</p> <p><i>Aurora bidirectional cremonese handle with key Pkg: 10 pcs</i></p>

	ACP 50232
	<p>Manico per cremonese Aurora ACP 50233 Cfz: 20 pz</p> <p><i>Cremonese Aurora handle for ACP 50233 Pkg: 20 pcs</i></p>

	ACP 50176
	<p>Cremonese Aurora monodirezionale con antirollio per anta ribalta e scorrevole parallelo Cfz: 10 pz</p> <p><i>Aurora cremonese monodirectional with anti-roll plates for tilt & turn and parallel sliding system Pkg: 10 pcs</i></p>

	ACP 5045
	<p>Blocchetti collegamento cremonese in zama Cfz: 160 pz</p> <p><i>Zamak connection pieces for Cremonese handle Pkg: 160 pcs</i></p>

	ACP 50235/D
	<p>Cremonese Aurora monodirezionale destra con chiave Cfz: 10 pz</p> <p><i>Right monodirectional Aurora cremonese handle with key Pkg: 10 pcs</i></p>

	ACP 50314
	<p>Maniglia EXENS linea Aurora Cfz: 1 pz</p> <p><i>Aurora EXENS handle Pkg: 1 pcs</i></p>

	ACP 50318
	<p>Doppia maniglia EXENS linea Aurora per porte Cfz: 10 pz</p> <p><i>Aurora EXENS double handle for door Pkg: 10 pcs</i></p>

	ACP 50206
	<p>Perno di trascinamento per cremonese Aurora apertura esterna ACP 50204 Cfz: - pz</p> <p><i>Drag pin to combined with ACP 50204 Pkg: - pcs</i></p>

	ACP 50239
	<p>Doppia maniglia Aurora per porte Cfz: 5 pz</p> <p><i>Aurora double handle for door Pkg: 5 pcs</i></p>

	ACP 5022
	<p>Catenacciolo in nylon Cfz: 100 pz</p> <p><i>Bolt Pkg: 100 pcs</i></p>

	ACP 50241
	<p>Basetta copricilindro per doppia maniglia Aurora Cfz: 10 pz</p> <p><i>Base for cylinder dust cap for Aurora double handle Pkg: 10 pcs</i></p>

	ACP 5025
	<p>Terminale asta in nylon Cfz: 200 pz</p> <p><i>Rod terminal Pkg: 200 pcs</i></p>

	ACP 50240
	<p>Quadro lungo per doppia maniglia Aurora 8X135mm Cfz: 10 pz</p> <p><i>Aurora double handle 8x135mm Pkg: 10 pcs</i></p>

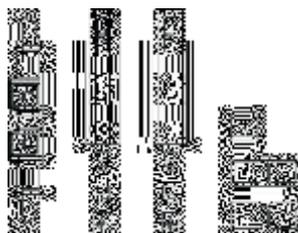
	ACP 5052
	<p>Catenaccioli a spinta in kit in alluminio con eccentrico di registrazione per anta semifissa Cfz: 20 pz</p> <p><i>Metal bolt set Pkg: 20 pcs</i></p>

	ACP 50204
	<p>Cremonese Aurora apertura esterna con tenoni. Abbinare con ACP 50206 Cfz: 20 pz</p> <p><i>External opening Aurora cremonese handle to combined with ACP 50206 Pkg: 20 pcs</i></p>

	ACP 5053
	<p>Giunzione astina per prolunga catenaccioli ACP 5052 Cfz: 100 pz</p> <p><i>Connection rod for extension bolt ACP 5052 Pkg: 100 pcs</i></p>

ACCESSORI
Fittings

	<p align="center">ACP 5024</p> <p>Incontro asta doppio in zama Cfz: 400 pz</p> <p><i>Zamak keeper double rod Pkg: 400 pcs</i></p>		<p align="center">ACP 5026</p> <p>Piastrina sostegno anta Cfz: 400 pz</p> <p><i>Plastic support for leaf Pkg: 400 pcs</i></p>
	<p align="center">ACP 5081</p> <p>Incontro asta singolo in nylon Cfz: 50 pz</p> <p><i>Nylon keeper single rod Pkg: 50 pcs</i></p>		<p align="center">ACP 50312</p> <p>Movimento bidirezionale per maniglia EXENS Cfz: 1 pz</p> <p><i>EXENS bidirectional mechanism for EXENS handle Pkg: 1 pcs</i></p>
	<p align="center">ACP 5082</p> <p>Incontro asta doppio in nylon Cfz: 50 pz</p> <p><i>Nylon double rod keeper Pkg: 50 pcs</i></p>		<p align="center">ACP 50267</p> <p>Meccanismo martellina bidirezionale per bilico Ent. 23/35 mm. Abbinare con ACP 50268 Cfz: 20 pz</p> <p><i>Bidirectional martellina handle mechanism 23/25mm for pivot window. Using with ACP 50268 Pkg: 20 pcs</i></p>
	<p align="center">ACP 5019</p> <p>Riscontro 3a chiusura Cfz: 200 pz</p> <p><i>Keeper for 3rd locking piece Pkg: 200 pcs</i></p>		<p align="center">ACP 50268</p> <p>Perno di collegamento per ACP 50267, L=31mm Cfz: 100 pz</p> <p><i>Connecting pin for ACP 50267, L=31mm Pkg: 100 pcs</i></p>
	<p align="center">ACP 5021</p> <p>Kit 3a chiusura registrabile Cfz: 100 pz</p> <p><i>3rd adjustable locking piece kit Pkg: 100 pcs</i></p>		<p align="center">ACP 5069</p> <p>Cerniera 3 ali 3a componenti inox e piastrini premontati Cfz: 25 pz</p> <p><i>3-wings hinge for 3rd leaf, stainless steel components and pre-assembled plates Pkg: 25 pcs</i></p>



ACP 50175

Kit finestra battente 1 anta: blocchetti di collegamento, incontri, terminali asta, piastrino sostegno anta
Cfz: 200 kit

*1-leaf casement windows kit
Pkg: 200 kit*



ACP 5006

Cerniera 3 ali componenti inox e piastrini premontati, per telai piani
Cfz: 25 pz

*3-wings hinge for flat frames, stainless steel components and pre-assembled plates
Pkg: 25 pcs*



ACP 5005

Cerniera componenti inox e piastrini premontati per telai piani; usare 1 coppia hmax=1800mm per h oltre 1800mm inserire la 3a cerniera
Cfz: 50 pz

*Hinge for flat frames right. Usa a pair of hinge for hmax=1800mm, 3 hinges for h>1800mm
Pkg: 50 pcs*



ACP 5007

Cerniera 3 a anta componenti inox e piastrini premontati; usare 1 coppia hmax=1800 mm per h oltre 1800 mm inserire la 3a cerniera
Cfz: 50 pz

*3rd leaf hinge. Use a pair of hinge for hmax=1800mm, 3 hinges for h>1800mm
Pkg: 50 pcs*



ACP 5005D

Cerniera premontata destra per telai piani; usare 1 coppia hmax=1800mm per h oltre 1800mm inserire la 3a cerniera
Cfz: 50 pz

*Hinge for flat frames, preassembled components and plates. Usa a pair of hinge for hmax=1800mm, 3 hinges for h>1800mm
Pkg: 50 pcs*



ACP 5007D

Cerniera 3 a anta premontata destra, usare 1 coppia hmax=1800mm per h oltre 1800mm inserire la 3a cerniera
Cfz: 50 pz

*3rd leaf hinge, inox component and preassembled plate DX. Use a pair of hinge for hmax=1800mm, 3 hinges for h>1800mm
Pkg: 50 pcs*



ACP 5005S

Cerniera premontata sinistra per telai piani; usare 1 coppia hmax=1800mm per h oltre 1800mm inserire la 3a cerniera
Cfz: 50 pz

*Hinge for flat frames, preassembled components and plates. Usa a pair of hinge for hmax=1800mm, 3 hinges for h>1800mm
Pkg: 50 pcs*



ACP 5007S

Cerniera 3 a anta premontata sinistra, usare 1 coppia hmax=1800mm per h oltre 1800mm inserire la 3a cerniera.
Cfz: 50 pz

*3rd leaf hinge, inox component and preassembled plate SX. Use a pair of hinge for hmax=1800mm, 3 hinges for h>1800mm
Pkg: 50 pcs*

**ACP 5199**

Meccanismo martellina bidirezionale per battente, quadro 7mm
Cfz: 10 pz

*Bidirectional martellina handle mechanism for casement windows, 7mm
Pkg: 10 pcs*

**ACP 9938**

Cerniera Strong a 2 ali, 3° anta anche per telai complanari
Cfz: 20 pz

*2-wing 3rd leaf Strong hinge for flat frame
Pkg: 20 pcs*

**ACP 5043**

Kit cerniere per anta abbinata telai piani (Sormonto interno)
Cfz: 10 pz

*Hinge kit to combine leaf to flat frame
Pkg: 10 pcs*

**ACP 99124**

Cover per cerniera ACP 9918 e ACP 9938
Cfz: 20 pz

*Cover for hinge ACP 9918 and ACP 9938
Pkg: 20 pcs*

**ACP 5013**

Cricchetto vasistas in alluminio
Cfz: 100 pz

*Awning/hopper window finger catch
Pkg: 100 pcs*

**ACP 99125**

Piastrino registrabile universale per le cerniere Strong ACP 9918 e ACP 9938 (usare 1pz per anta)
Cfz: 10 pz

*Adjustable plate for Strong hinge ACP 9918 and ACP 9938
Pkg: 10 pcs*

**ACP 5012**

Cerniera vasistas scatto singolo
Cfz: 25 pz

*Hinge, single snap for bottom hung open in
Pkg: 25 pcs*

**ACP 50123**

Cerniera piatta per porte "va e vieni" doppia azione in alluminio estruso RAL 9010
Cfz: 5 pz

*Plate swig hinge double direction made in aluminium extruded
Pkg: 5 pcs*

**ACP 9918**

Cerniera Strong a 2 ali per telai piani
Cfz: 20 pz

*2-wing Strong hinge for flat frame
Pkg: 20 pcs*

**ACP 9963/60**

Cerniera frontale, 3 ali interasse 60mm
Cfz: 10 pz

*3 wings frontal hinge, 60mm
Pkg: 10 pcs*

	ACP 9963/93
	<p>Cerniera frontale, 3 ali interasse 93 mm Cfz: 10 pz</p> <p><i>3 wings frontal hinge, 93mm Pkg: 10 pcs</i></p>

	ACP 9973
	<p>Kit fissaggio cerniere applicazione frontale 2 ali Cfz: 10 pz</p> <p><i>2-wings front hinge kit Pkg: 10 pcs</i></p>

	ACP 9964/60
	<p>Cerniere frontale 2 ali interasse 60 mm Cfz: 20 pz</p> <p><i>2 wings frontal hinge, 60mm Pkg: 20 pcs</i></p>

	ACP 9974
	<p>Kit fissaggio cerniere applicazione frontale 3 ali Cfz: 10 pz</p> <p><i>3-wings front hinge kit Pkg: 10 pcs</i></p>

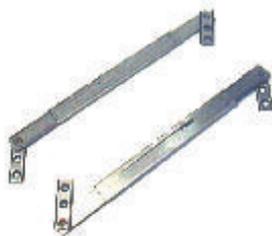
	ACP 9964/93
	<p>Cerniere frontale 2 ali interasse 93 mm Cfz: 20 pz</p> <p><i>2 wings frontal hinge, 93mm Pkg: 20 pcs</i></p>

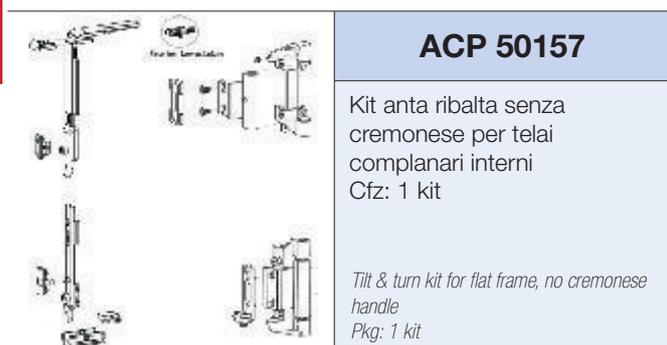
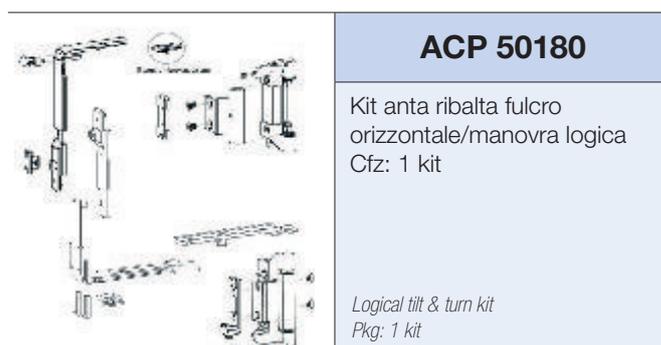
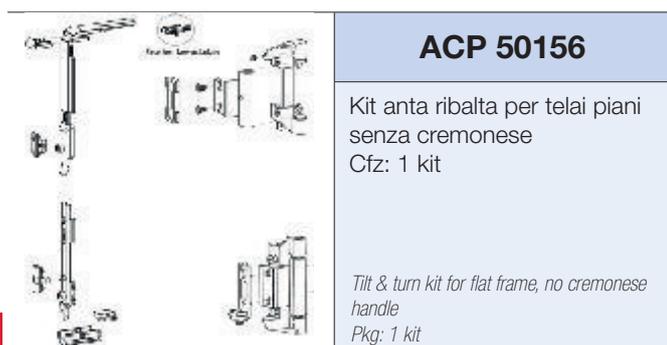
	ACP 9998
	<p>Dima di foratura per cerniere applicazione frontale Cfz: 1 pz</p> <p><i>Front hinge holes template Pkg: 1 pcs</i></p>

	ACP 9909
	<p>Spessore 8mm per cerniere ad applicazione frontale Cfz: 50 pz</p> <p><i>8mm thickness for frontal hinges Pkg: 50 pcs</i></p>

	ACP 5010
	<p>Cerniera vasistas doppio scatto Cfz: 20 coppie</p> <p><i>Hinge, double snap for bottom hung Pkg: 50 pairs</i></p>

	ACP 9915
	<p>Spessore 7mm per cerniere ad applicazione frontale Cfz: 50 pz</p> <p><i>7mm thickness for frontal hinges Pkg: 50 pcs</i></p>

	ACP 5011
	<p>Bracci sporgere telescopici a coppie Cfz: 20 coppie</p> <p><i>Top-hinged telescopic arms for projected windows Pkg: 20 pcs</i></p>



	<p>ACP 50146/541</p> <p>Braccio ribalta manovra logica 541/1500mm. Abbinare ACP 50180 Cfz: 10 pz</p> <p><i>Logical tilt & turn arm 541/1500mm for ACP 50180</i> Pkg: 10 pcs</p>
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	<p>ACP 5057</p> <p>Kit chiusura supplementare verticale Cfz: 1 kit</p> <p><i>Vertical additional kit</i> Pkg: 1 kit</p>
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	<p>ACP 5047</p> <p>Catenacci a leva in kit anta abbinata Cfz: 10 kit</p> <p><i>Locking kit for combined leaf</i> Pkg: 10 pcs</p>
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	<p>ACP 5198</p> <p>Meccanismo martellina monodirezionale per A/R, quadro 7mm Cfz: 10 pz</p> <p><i>Monodirectional handle mechanism for A/R windows, 7mm</i> Pkg: 10 pcs</p>
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	<p>ACP 5049</p> <p>Braccio supplementare per L>1000mm Cfz: 10 pz</p> <p><i>Additional arm for L>1000mm</i> Pkg: 10 pcs</p>
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	<p>ACP 50311</p> <p>Movimento monodirezionale per maniglia EXENS Cfz: 1 pz</p> <p><i>EXENS monodirectional mechanism for EXENS handle</i> Pkg: 1 pcs</p>
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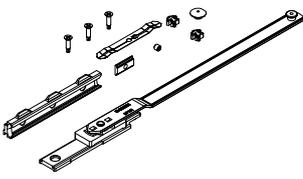
	<p>ACP 50149</p> <p>Braccio supplementare per L>1000mm ribalta manovra logica Cfz: 10 pz</p> <p><i>Logical tilt & turn additional arm for L>1000mm</i> Pkg: 10 pcs</p>
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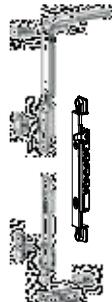
	<p>ACP 5150/S</p> <p>Kit A/R con cerniere a scomparsa SECRET anta sinistra braccio corto - portata max 100kg Cfz: 10 kit</p> <p><i>Secret tilt and turn mechanism with concealed hinges, left, short arm - Max load 100kg</i> Pkg: 10 kit</p>
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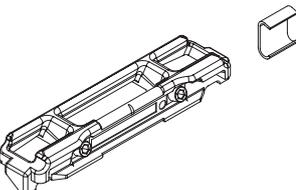
	<p>ACP 5056</p> <p>Kit chiusura supplementare orizzontale / fulcro orizzontale Cfz: 1 kit</p> <p><i>Horizontal additional kit</i> Pkg: 1 kit</p>
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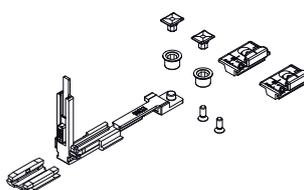
	<p>ACP 5150/D</p> <p>Kit A/R con cerniere a scomparsa SECRET anta destra braccio corto - portata max 100kg Cfz: 10 kit</p> <p><i>Secret tilt and turn mechanism with concealed hinges, right, short arm - Max load 100kg</i> Pkg: 10 kit</p>
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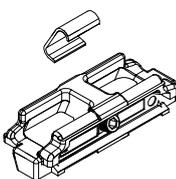
	<p>ACP 5151/S</p> <p>Kit A/R con cerniere a scomparsa SECRET anta sinistra braccio lungo - portata max 100kg Cfz: 10 kit</p> <p><i>Secret tilt and turn mechanism with concealed hinges, left, long arm - Max load 100kg Pkg: 10 kit</i></p>		<p>ACP 5162/S</p> <p>Kit A/R con cerniere a scomparsa SECRET anta sinistra braccio corto - portata max 150kg Cfz: 10 kit</p> <p><i>Secret tilt and turn mechanism with concealed hinges, left, short arm - Max load 150kg Pkg: 10 kit</i></p>
	<p>ACP 5151/D</p> <p>Kit A/R con cerniere a scomparsa SECRET anta destra braccio lungo - portata max 100kg Cfz: 10 kit</p> <p><i>Secret tilt and turn mechanism with concealed hinges, right, long arm - Max load 100kg Pkg: 10 kit</i></p>		<p>ACP 5163/D</p> <p>Kit A/R con cerniere a scomparsa SECRET anta destra braccio lungo - portata max 150kg Cfz: 10 kit</p> <p><i>Secret tilt and turn mechanism with concealed hinges, right, long arm - Max load 150kg Pkg: 10 kit</i></p>
	<p>ACP 5161/D</p> <p>Kit cerniere a scomparsa SECRET anta passiva destra - portata max 100kg Cfz: 10 kit</p> <p><i>Secret concealed hinges, right - Max load 100kg Pkg: 10 kit</i></p>		<p>ACP 5163/S</p> <p>Kit A/R con cerniere a scomparsa SECRET anta sinistra braccio lungo - portata max 150kg Cfz: 10 kit</p> <p><i>Secret tilt and turn mechanism with concealed hinges, left, long arm - Max load 150kg Pkg: 10 kit</i></p>
	<p>ACP 5161/S</p> <p>Kit cerniere a scomparsa SECRET anta passiva sinistra - portata max 100kg Cfz: 10 kit</p> <p><i>Secret concealed hinges, left - Max load 100kg Pkg: 10 kit</i></p>		<p>ACP 5164/D</p> <p>Kit cerniere a scomparsa SECRET anta passiva destra - portata max 150kg Cfz: 10 kit</p> <p><i>Secret concealed hinges, right - Max load 150kg Pkg: 10 kit</i></p>
	<p>ACP 5162/D</p> <p>Kit A/R con cerniere a scomparsa SECRET anta destra braccio corto - portata max 150kg Cfz: 10 kit</p> <p><i>Secret tilt and turn mechanism with concealed hinges, right, short arm - Max load 150kg Pkg: 10 kit</i></p>		<p>ACP 5164/S</p> <p>Kit cerniere a scomparsa SECRET anta passiva sinistra - portata max 150kg Cfz: 10 kit</p> <p><i>Secret concealed hinges, left - Max load 150kg Pkg: 10 kit</i></p>

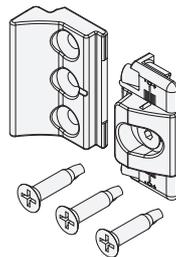
	ACP 5153
	<p>Braccio supplementare SECRET per L > 1000mm da abbinare ad ACP 5151 Cfz: 5 kit</p> <p><i>Secret additional window arm for ACP 5151, L > 1000mm Pkg: 5 kit</i></p>

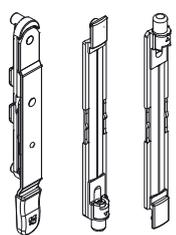
	ACP 5160
	<p>Kit manovra antariabalta SECRET. Abbinare a ACP 5150 e ACP 5151 Cfz: 10 pz</p> <p><i>SECRET tilt and turn kit, for ACP 5150 and ACP 5151 Pkg: 10 pcs</i></p>

	ACP 5152
	<p>Incontro doppio in zama SECRET per finestra 2 ante battente Cfz: 100 pz</p> <p><i>Zamak double keeper for casement window Pkg: 100 pcs</i></p>

	ACP 5155
	<p>Chiusura supplementare per cerniera scomparsa A/R SECRET. Si usa anche in orizzontale per L > 1000mm e tra le cerniere per H > 1200mm Cfz: 10 kit</p> <p><i>Additional locking piece for Secret tilt & turn mechanism. L > 1000mm, H > 1200mm Pkg: 10 pcs</i></p>

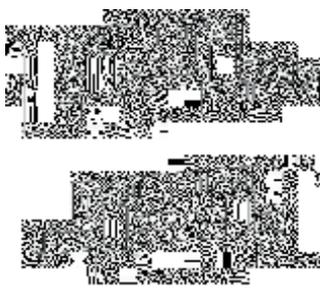
	ACP 5158
	<p>Incontro singolo in zama per catenacciolo superiore anta passiva ribalta SECRET, abbinare a ACP 5160 Cfz: 100 pz</p> <p><i>Zamak single keeper for SECRET passive tilt & turn mechanism Pkg: 100 pcs</i></p>

	ACP 5154
	<p>Rostro di chiusura regolabile per soluzione con cerniere a scomparsa SECRET Cfz: 50 pz</p> <p><i>Registrable beak for SECRET hinge Pkg: 50 pcs</i></p>

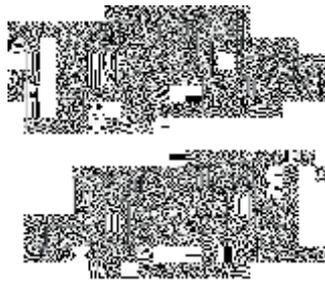
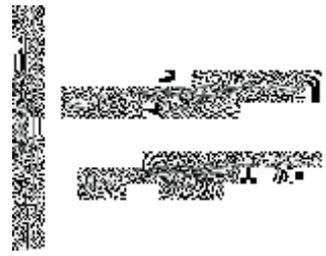
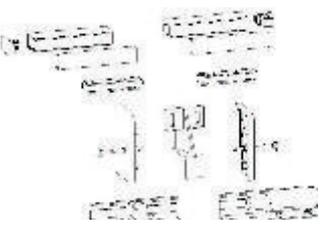
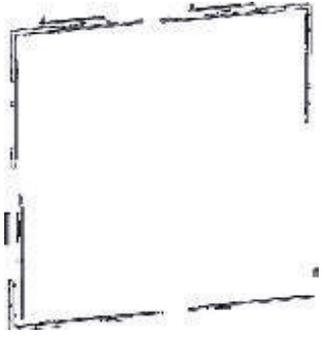
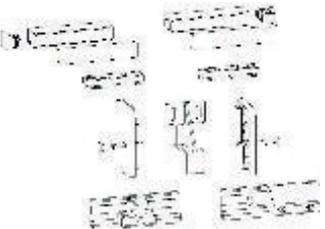
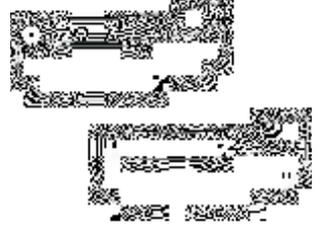
	ACP 5157
	<p>Kit catenacci con manovra bidirezionale SECRET anta passiva Cfz: 10 pz</p> <p><i>Bolt kit and SECRET bidirectional mechanism for passive leaf Pkg: 10 pcs</i></p>

	ACP 5156
	<p>Catenacciolo anta passiva in abbinamento ad anta ribalta SECRET Cfz: 10 pz</p> <p><i>Bolt for passive leaf, SECRET tilt & turn mechanism Pkg: 10 pcs</i></p>

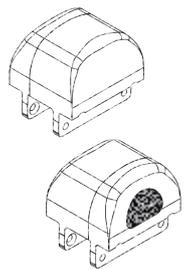
	ACP 5159
	<p>Terminale in zama SECRET, finestre a battente Cfz: 40 pz</p> <p><i>Zamak SECRET rod-end for casement windows Pkg: 40 pcs</i></p>

	ACP 50159D
	<p>Kit base scorrevole parallelo dx portata 150kg per anta Cfz: 1 kit</p> <p><i>Parallel slide base kit, right, capacity 150Kg per leaf Pkg: 1 kit</i></p>

ACCESSORI
Fittings

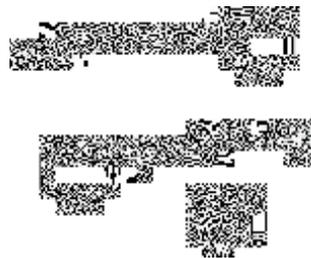
	<p>ACP 50159S</p> <p>Kit base scorrevole parallelo sx portata 150kg per anta Cfz: 1 kit</p> <p><i>Parallel slide base kit, right, capacity 150Kg per leaf Pkg: 1 kit</i></p>		<p>ACP 50163</p> <p>Kit accessori per trasformare il kit manuale ACP 50161 in semiautomatico Cfz: 1 kit</p> <p><i>Accessories kit to make semiautomatic ACP 50161 mechanism Pkg: 1 kit</i></p>
	<p>ACP 50160/1100</p> <p>Kit binari per scorrevole parallelo L anta = da 851mm a 1100mm Cfz: 1 kit</p> <p><i>Parallel slide track kit L=851mm to 1100mm Pkg: 1 kit</i></p>		<p>ACP 50158</p> <p>Kit chiusura 6 punti per bilico/scorrevole parallelo. Abbinare a ACP 5092 e ACP 5092V Cfz: 1 kit</p> <p><i>Pivot closer 6 locking piece set. Combined with ACP 5092 and ACP 5092V Pkg: 1 kit</i></p>
	<p>ACP 50160/1350</p> <p>Kit binari per scorrevole parallelo L anta = da 1101mm a 1350mm Cfz: 1 kit</p> <p><i>Parallel slide track kit L=1101mm to 1350mm Pkg: 1 kit</i></p>		<p>ACP 50162</p> <p>Kit forbici scorrevole parallelo soluzione automatica per ante, fino a L=1600mm di anta utilizzare ACP 50159, da 1600 a 2000mm occorrono carrelli con portata 180kg. Disponibili su richiesta da abbinare alla maniglia ACP 50170 Cfz: 1 kit</p> <p><i>Developed scissor sliders kit for leaf up to 2000mm. Up to 1600mm matching with ACP 50165. From 1600 to 2000mm, use track with capacity 180kg. Available on request only matching with ACP 50170 handle Pkg: 1 kit</i></p>
	<p>ACP 50160/1600</p> <p>Kit binari per scorrevole parallelo L anta = da 1351mm a 1600mm Cfz: 1 kit</p> <p><i>Parallel slide track kit L=1351mm to 1600mm Pkg: 1 kit</i></p>		<p>ACP 50164</p> <p>Kit coperture. Disponibile nelle colorazioni argento ossidato, RAL 9010 e nero elettro-colore Cfz: 1 kit</p> <p><i>Cover kit, finish available: silver, RAL 9010, black Pkg: 1 kit</i></p>
	<p>ACP 50161/1200</p> <p>Kit forbici scorrevole parallelo soluzione manuale per ante fino a L 1200mm, abbinare ad ACP 50165 Cfz: 1 kit</p> <p><i>Developed scissor sliders kit for leaf up to 1200mm, matching with ACP 50165 Pkg: 1 kit</i></p>		

	ACP 50166
	<p>Placchetta di fermo - per trasformare il kit forbici manuale in semiautomatico da abbinare ad ACP 50163</p> <p>Cfz: 1 pz</p> <p><i>Plate to make semiautomatic the developed scissor sliders kit - matching with ACP 50163</i></p> <p><i>Pkg: 1 pcs</i></p>

	ACP 5091M
	<p>Frizione bilico con fermo</p> <p>Cfz: 1 pz</p> <p><i>Pivot clutch with stop</i></p> <p><i>Pkg: 1 pcs</i></p>

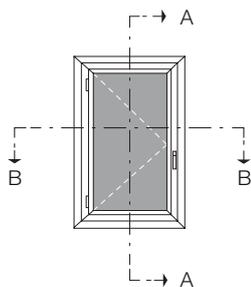
	ACP 50165
	<p>Spessori per forbici per ACP 50161/1260 o ACP 50162</p> <p>Cfz: 1 kit</p> <p><i>Thickness matching with ACP 50161/1200 or ACP 50162</i></p> <p><i>Pkg: 1 kit</i></p>

	ACP 5100
	<p>Kit piastre per frizione bilico ACP 5091M</p> <p>Cfz: 1 kit</p> <p><i>Plate kit for ACP 5091M pivot clutch with stop</i></p> <p><i>Pkg: 1 kit</i></p>

	ACP 50167
	<p>Kit supplementare al kit ACP 50161 per ante oltre L 1200mm da abbinare alle astine ACP 50168 e ACP 50169</p> <p>Cfz: 1 kit</p> <p><i>Additional kit matching with ACP 50168 and ACP 50169, leaf up to 1200mm</i></p> <p><i>Pkg: 1 kit</i></p>

	ACP 50168
	<p>Astina per kit ACP 50167 supplementare per ante da L 1201mm fino a 1350mm</p> <p>Cfz: 1 pz</p> <p><i>Rod for additional kit, leaf 1201mm to 1350mm</i></p> <p><i>Pkg: 1 pcs</i></p>

	ACP 50169
	<p>Astina per kit ACP 50167 supplementare per ante da L 1351mm fino a 1600mm</p> <p>Cfz: 1 pz</p> <p><i>Rod for additional kit, leaf 1351mm to 1600mm</i></p> <p><i>Pkg: 1 pcs</i></p>



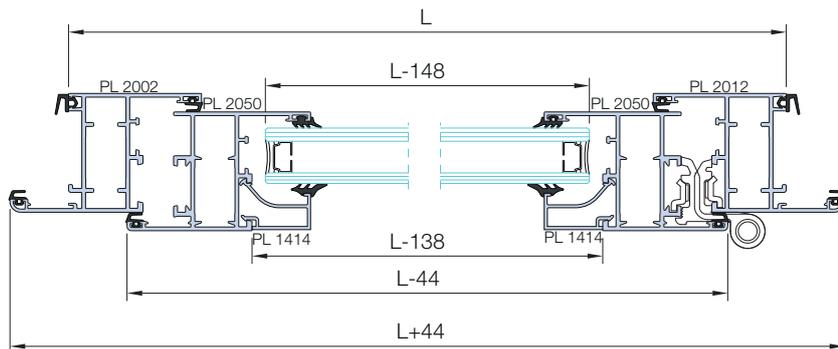
1 leaf window

Finestra
1 anta

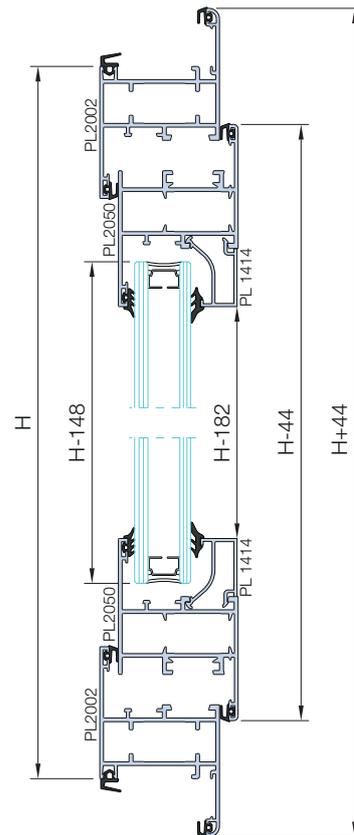
Glass list

Distinta vetri

Pezzi	L	H
1	L-148	H-148



Sez. B-B



Sez. A-A

Distinta profili

Profiles' list

Art.	Descrizione	Pezzi	Misura	Taglio
PL 2002	Traverso telaio <i>tramsom frame</i>	2	L+44	
	Montante telaio <i>mullion frame</i>	2	H+44	
PL 2050	Traverso anta <i>tramsom leaf</i>	2	L-44	
	Montante anta <i>mullion leaf</i>	2	H-44	
PL 1414	Traverso fermavetro <i>tramsom glazing bead</i>	2	L-182	
	Montante fermavetro <i>mullion glazing bead</i>	2	H-138	

Distinta accessori

Accessories' list

Art.	Descrizione	Q.tà
ACP 5801	Squadretta multifunzione <i>multifunctional corner joint</i>	8 pz
ACP 5001	Vite per ACP 5801 <i>screw for ACP 5801</i>	16 pz
ACP 5005	Cerniere <i>hinge</i>	2 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	8 pz
ACP 50200	Cremonese Aurora <i>Aurora cremonese handle</i>	1 pz
ACP 50175	Kit chiusura <i>Locking kit</i>	1 kit
ACP 5035	Regolo muro in nylon <i>nylon wall spacer</i>	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4004 <i>vulcanized corner for AGP 4004</i>	8 pz

Distinte di taglio

Cutting lists

Distinta guarnizioni

Gaskets' list

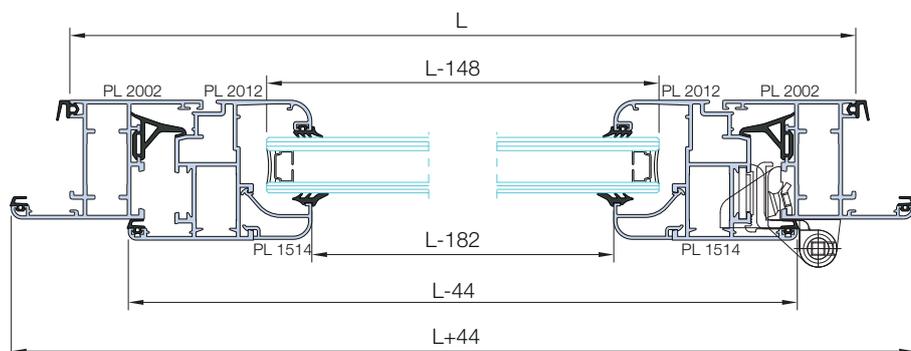
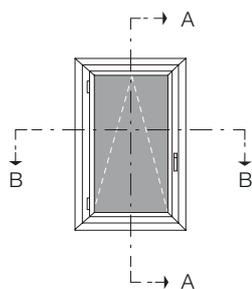
Art.	Descrizione	Pezzi	Misura
AGP 4000	Battuta <i>wall seal</i>	2	L+44
		2	L-44
		2	L-80
		2	H+44
		2	H-44
		2	H-80
AGP 4013	Vetro esterno <i>external glass gasket</i>	2	L-148
		2	H-148
Dipende dal vetro	Vetro interno <i>internal glass gasket</i>	2	L-148
		2	H-148
AGP 4002	Isolamento muro <i>insulation wall</i>	2	L-80
		2	H-80

Tilt & turn 1 leaf Finestra anta a ribalta window 1 anta

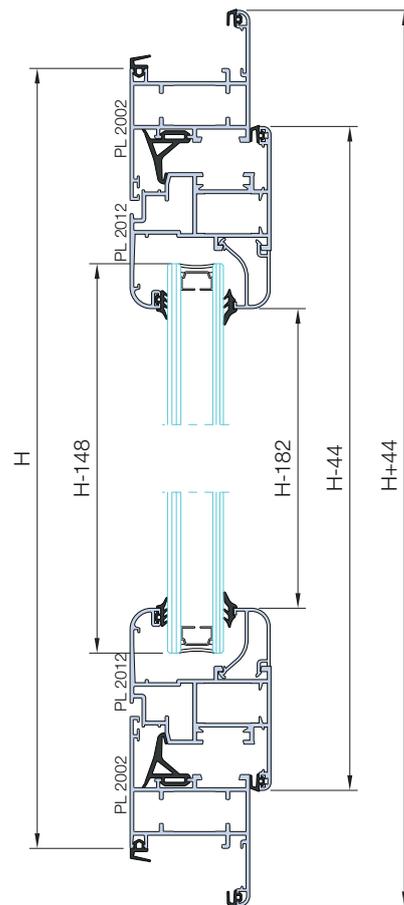
Glass list

Distinta vetri

Pezzi	L	H
1	L-148	H-148



Sez. B-B



Sez. A-A

Distinta profili

Profiles' list

Art.	Descrizione	Pezzi	Misura	Taglio
PL 2002	Traverso telaio <i>tramsom frame</i>	2	L+44	
	Montante telaio <i>mullion frame</i>	2	H+44	
PL 2012	Traverso anta <i>tramsom leaf</i>	2	L-44	
	Montante anta <i>mullion leaf</i>	2	H-44	
PL 1514	Traverso fermavetro <i>tramsom glazing bead</i>	2	L-182	
	Montante fermavetro <i>mullion glazing bead</i>	2	H-182	

Distinta accessori

Accessories' list

Art.	Descrizione	Q.tà
ACP 5801	Squadretta multifunzione <i>multifunctional corner joint</i>	8 pz
ACP 5001	Vite per ACP 5801 <i>screw for ACP 5801</i>	16 pz
ACP 5005	Cerniere <i>hinge</i>	2 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	8 pz
ACP 50200	Cremonese Aurora <i>Aurora cremonese handle</i>	1 pz
ACP 50156	Kit anta ribalta <i>Tilt & turn kit</i>	1 kit
ACP 5046	Braccio ribalta <i>Tilt & turn arm</i>	1 pz
ACP 5035	Regolo muro in nylon <i>nylon wall spacer</i>	4 pz
ACP 50110	Squadretta all. eccentrico <i>corner joint</i>	4 pz
ACP 5014	Angolo fermavetro <i>glazing bead corner</i>	4 pz
AGP 4885R	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4004 <i>vulcanized corner for AGP 4004</i>	8 pz

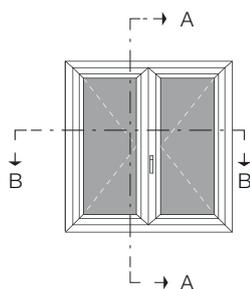
Distinta guarnizioni

Gaskets' list

Art.	Descrizione	Pezzi	Misura
AGP 4000	Battuta <i>wall seal</i>	2	L+44
		2	L-44
		2	H+44
		2	H-44
AGP 4013	Vetro esterno <i>external glass gasket</i>	2	L-148
Dipende dal vetro	Vetro interno <i>internal glass gasket</i>	2	L-148
		2	H-148
AGP 4002	Isolamento muro <i>insulation wall</i>	2	L
AGP 4501R	Pinna giunto aperto <i>open joint gasket</i>	2	H
		2	L-124
AGP 4501R	Pinna giunto aperto <i>open joint gasket</i>	2	H-124

DISTINTE DITAGLIO

Cutting lists



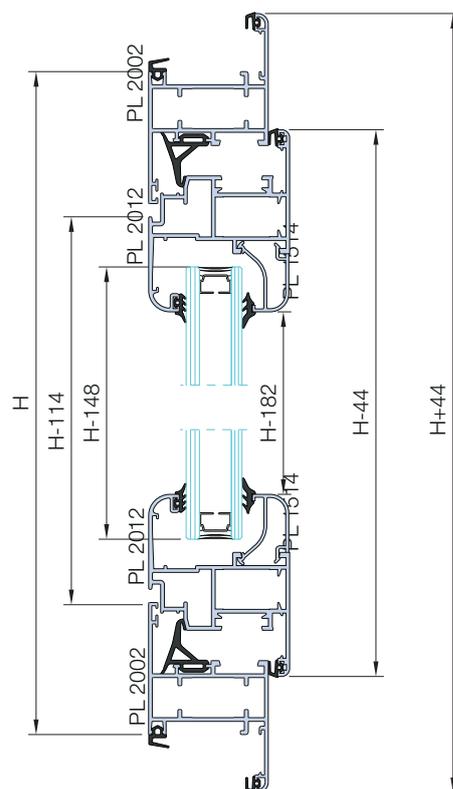
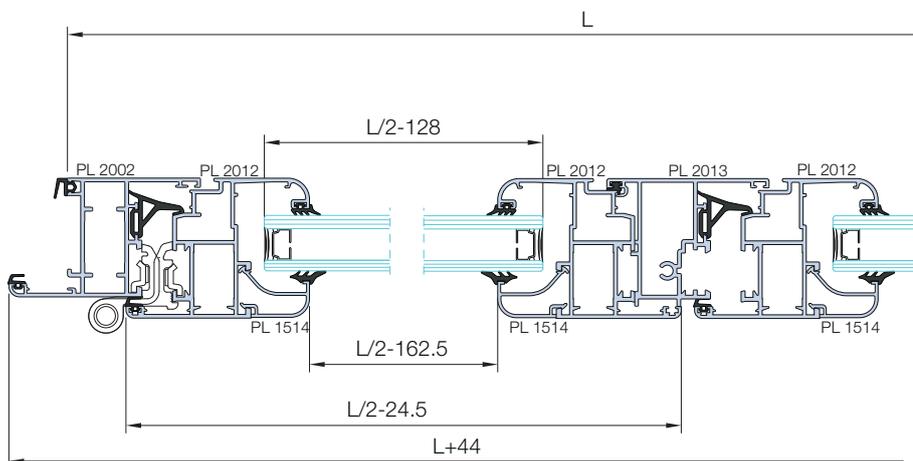
2 leaves window

Finestra 2 ante

Glass list

Distinta vetri

Pezzi	L	H
2	L/2-128	H-148



Sez. A-A

Sez. B-B

Distinta profili

Profiles' list

Art.	Descrizione	Pezzi	Misura	Taglio
PL 2002	Traverso telaio <i>transom frame</i>	2	L+44	
	Montante telaio <i>mullion frame</i>	2	H+44	
PL 2013	Riporto centrale <i>central mullion</i>	1	H-114	
PL 2012	Traverso anta <i>transom leaf</i>	4	H-44	
	Montante anta <i>mullion leaf</i>	4	L/2-24.5	
PL 1514	Traverso fermavetro <i>transom glazing bead</i>	4	H-182	
	Montante fermavetro <i>mullion glazing bead</i>	4	L/2-162.5	

Distinta accessori

Accessories' list

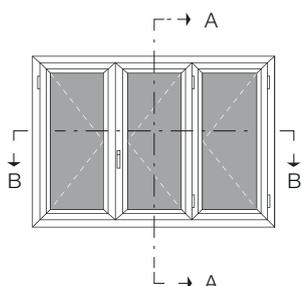
Art.	Descrizione	Q.tà
ACP 5801	Squadretta multifunzione <i>multifunctional corner joint</i>	12 pz
ACP 5001	Vite per ACP 5801 <i>screw for ACP 5801</i>	24 pz
ACP 5005	Cerniere <i>hinge</i>	4 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	8 pz
ACP 50200	Cremonese Aurora <i>Aurora cremonese handle</i>	1 pz
ACP 50175	Kit chiusura <i>locking kit</i>	1 kit
ACP 5022	Catenacciolo <i>bolt</i>	2 pz
ACP 5035	Regolo muro in nylon <i>nylon wall spacer</i>	4 pz
ACP 50110	Squadretta all. eccentrico <i>alignment corner joint</i>	8 pz
ACP 5014	Angolo fermavetro <i>glazing bead corner</i>	8 pz
AGP 4885R	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4004 <i>vulcanized corner for AGP 4004</i>	10 pz
ACP 5079	Tappo di riporto <i>cap</i>	1 cp

Distinte di TAGLIO

Distinta guarnizioni

Gaskets' list

Art.	Descrizione	Pezzi	Misura
AGP 4000		Battuta <i>wall seal</i>	2 L/2-24.5
			2 L-44
			2 H+44
			2 H-44
AGP 4013		Vetro esterno <i>external glass gasket</i>	2 L/2-128
			2 H-148
Dipende dal vetro		Vetro interno <i>internal glass gasket</i>	2 L/2-128
			2 H-148
AGP 4002		2	L H
AGP 4501R		Pinna giunto aperto <i>open joint gasket</i>	2 L-124
			2 H-124
AGP 4006		1	H-114



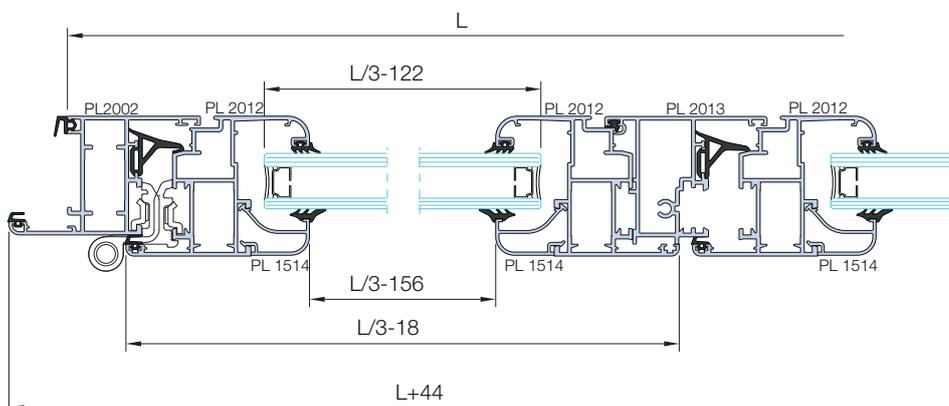
3 leafs
window

Finestra
3 ante

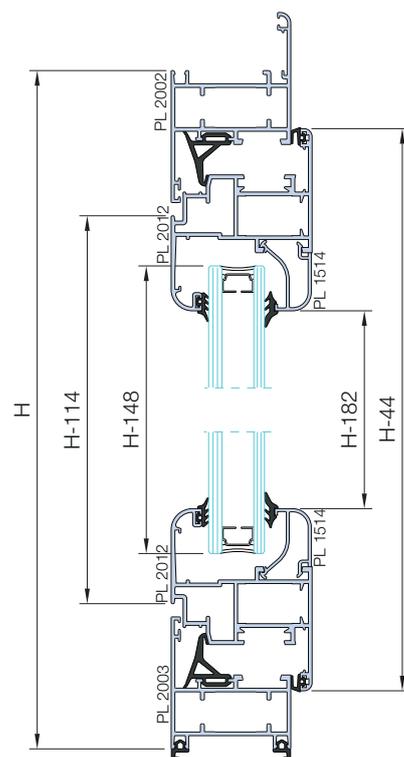
Glass list

Distinta vetri

Pezzi	L	H
3	L/3-122	H-148



Sez. B-B



Sez. A-A

Distinta profili

Profiles' list

Art.	Descrizione	Pezzi	Misura	Taglio
PL 2002	Traverso superiore telaio <i>top transom frame</i>	1	L+44	
	Montante telaio <i>mullion frame</i>	2	H+44	
PL 2003	Traverso inferiore <i>sil transom frame</i>	1	L	
PL 2012	Traverso anta <i>transom leaf</i>	6	H-44	
	Montante anta <i>mullion leaf</i>	6	L/3-18	
PL 1514	Traverso fermavetro <i>transom glazing bead</i>	6	H-182	
	Montante fermavetro <i>mullion glazing bead</i>	6	L/3-156	
PL 2013	Riporto centrale <i>central cap</i>	2	H-114	

Distinta accessori

Accessories' list

Art.	Descrizione	Q.tà
ACP 5801	Squadretta multifunzione <i>multifunctional corner joint</i>	16 pz
ACP 5001	Vite per ACP 5801 <i>screw for ACP 5801</i>	32 pz
ACP 5005	Cerniere <i>hinge</i>	4 pz
ACP 5007	Cerniera 3a anta <i>3rd hinge</i>	2 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	14 pz
ACP 50200	Cremonese Aurora <i>Aurora cremonese handle</i>	1 pz
ACP 50175	Kit chiusura <i>Locking kit</i>	1 kit
ACP 5022	Catenacciolo <i>bolt</i>	4 pz
ACP 5035	Regolo muro in nylon <i>nylon wall spacer</i>	4 pz
ACP 50110	Squadretta all. eccentrico <i>alignment corner joint</i>	12 pz
ACP 5014	Angolo fermavetro <i>glazing bead corner</i>	12 pz
AGP 4885R	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4004 <i>vulcanized corner for AGP 4004</i>	10 pz
ACP 5079	Tappo di riporto <i>plug</i>	2 cp
ACP 5024	Incontro asta <i>single rod keeper</i>	2 pz

Distinta guarnizioni

Gaskets' list

Art.	Descrizione	Pezzi	Misura
AGP 4000	Battuta <i>wall seal</i>	1	L+44
		2	H+44
		4	H-44
		6	L/3-18
AGP 4013	Vetro esterno <i>external glass gasket</i>	6	L/3-112 H-148
Dipende dal vetro	Vetro interno <i>internal glass gasket</i>	6	L/3-122 H-148
AGP 4002	Isolamento muro <i>insulation wall</i>	3 2	L H
AGP 4501R	Pinna giunto aperto <i>open joint gasket</i>	2 4	L-124 H-124
AGP 4006	Battuta giunto aperto <i>rabbet gasket</i>	2	H-114

DISTINTE DITAGLIO

Cutting lists

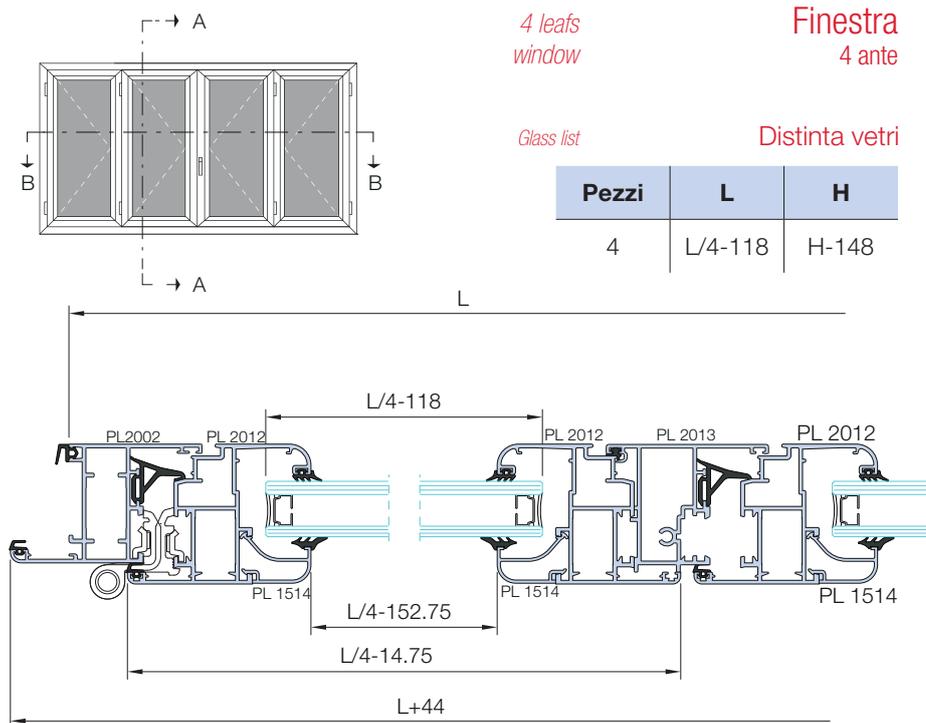
4 leafs window

Finestra
4 ante

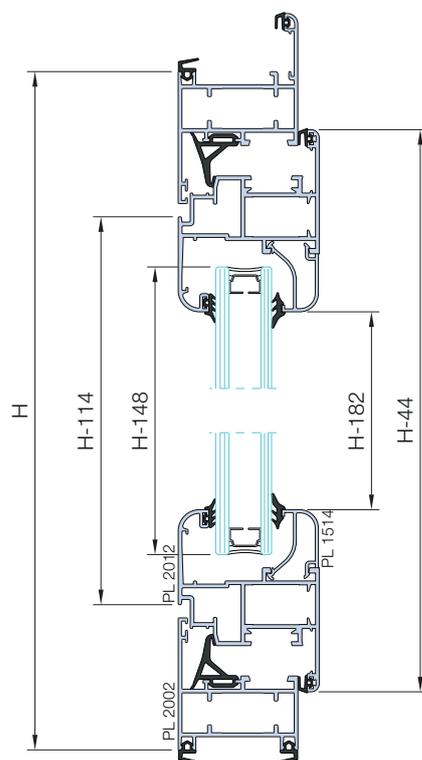
Glass list

Distinta vetri

Pezzi	L	H
4	L/4-118	H-148



Sez. B-B



Sez. A-A

Distinta profili

Profiles' list

DISTINTE DI TAGLIO

Distinta guarnizioni

Gaskets' list

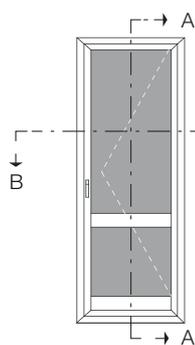
Art.	Descrizione	Pezzi	Misura	Taglio
PL 2002	Traverso superiore telaio <i>top transom frame</i>	1	L+44	
	Montante telaio <i>mullion frame</i>	2	H+44	
PL 2003	Traverso inferiore <i>sil transom frame</i>	1	L	
PL 2012	Traverso anta <i>transom leaf</i>	6	H-44	
	Montante anta <i>mullion leaf</i>	6	L/2-14.75	
PL 1514	Traverso fermavetro <i>transom glazing bead</i>	6	H-182	
	Montante fermavetro <i>mullion glazing bead</i>	6	L/2-152.75	
PL 2013	Riporto centrale <i>fitted base</i>	3	H-114	

Distinta accessori

Accessories' list

Art.	Descrizione	Q.tà
ACP 5801	Squadretta multifunzione <i>multifunctional corner joint</i>	20 pz
ACP 5001	Vite per ACP 5801 <i>screw for ACP 5801</i>	40 pz
ACP 5005	Cerniere <i>hinge</i>	4 pz
ACP 5007	Cerniera 3a anta <i>3rd hinge</i>	4 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	18 pz
ACP 50200	Cremonese Aurora <i>Aurora cremonese handle</i>	1 pz
ACP 50175	Kit chiusura <i>Locking arm</i>	1 kit
ACP 5022	Catenacciolo <i>bolt</i>	6 pz
ACP 5035	Regolo muro in nylon <i>nylon wall spacer</i>	4 pz
ACP 50110	Squadretta all. eccentrico <i>alignment corner joint</i>	16 pz
ACP 5014	Angolo fermavetro <i>glazing bead corner</i>	16 pz
AGP 4885R	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4004 <i>vulcanized corner for AGP 4004</i>	12 pz
ACP 5079	Tappo di riporto <i>plug</i>	3 cp
ACP 5024	Incontro asta <i>single rod keeper</i>	4 pz

Art.	Descrizione	Pezzi	Misura
AGP 4000		1	L+44
		2	H+44
		5	H-44
		8	L/4-14
AGP 4013		6	L/4-118
		6	H-148
Dipende dal vetro		6	L/4-118
		6	H-148
AGP 4002		3	L
		2	H
AGP 4501R		2	L-124
		4	H-124
AGP 4006		3	H-114



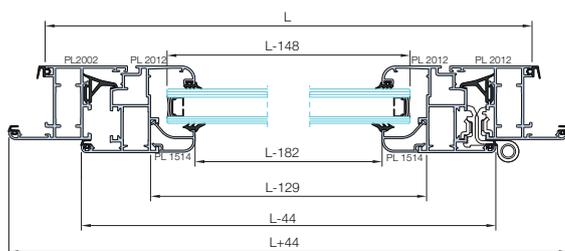
1 leaf
door

Porta finestra
1 anta

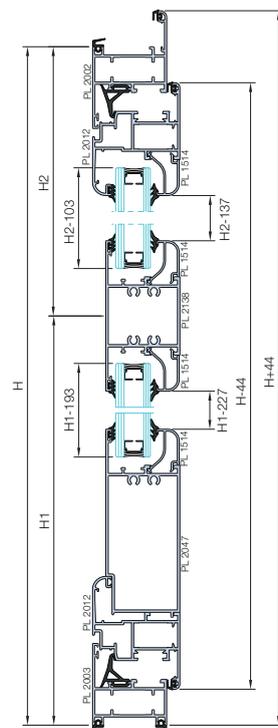
Glass list

Distinta vetri

Pezzi	L	H
1	L-148	H1-193
1	L-148	H2-103



Sez. B-B



Sez. A-A

Distinta profili

Art.	Descrizione	Pezzi	Misura	Taglio
PL 2002	Traverso superiore telaio <i>top transom frame</i>	1	L+44	
	Montante telaio <i>mullion frame</i>	2	H+44	
PL 2003	Traverso inferiore telaio <i>sil transom frame</i>	1	L	
PL 2012	Traverso anta <i>transom leaf</i>	2	L-44	
	Montante anta <i>mullion leaf</i>	2	H-44	
PL 2138	Fascia <i>cross piece</i>	1	L-129	
PL 1514	Traverso fermavetro <i>transom glazing bead</i>	4	L-182	
	Montante fermavetro <i>mullion glazing bead</i>	2	H1-227	
	Montante fermavetro <i>mullion glazing bead</i>	2	H2-137	
PL 2047	Zoccolo riportato <i>fitted base</i>	1	L-129	

Distinta accessori

Art.	Descrizione	Q.tà
ACP 5801	Squadretta multifunzione <i>multifunctional corner joint</i>	8 pz
ACP 5001	Vite per ACP 5801 <i>screw for ACP 5801</i>	16 pz
ACP 5005	Cerniere <i>hinge</i>	3 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	6 pz
ACP 50200	Cremonese Aurora <i>Aurora cremonese handle</i>	1 pz
ACP 50175	Kit chiusura <i>Locking kit</i>	1 kit
ACP 5035	Regolo muro in nylon <i>nylon wall spacer</i>	6 pz
AGP 4085	Angolo vulcanizzato per AGP 4004 <i>vulcanized corner for AGP 4004</i>	6 pz
ACP 5014	Angolo fermavetro <i>glazing bead corner</i>	8 pz
ACP 50110	Squadretta all. eccentrico <i>alignment corner joint</i>	4 pz
AGP 4885R	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz

Distinta guarnizioni

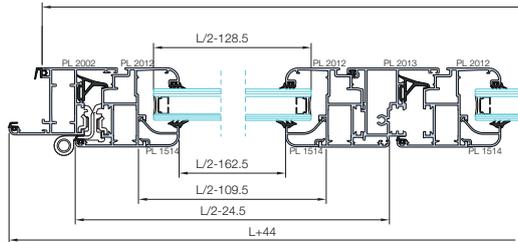
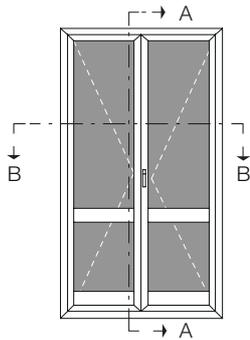
Art.	Descrizione	Pezzi	Misura
AGP 4000		1	L+44
		2	H+44
		2	H-44
		2	L-44
AGP 4013		4	L-148
		2	H1-193
		2	H2-103
Dipende dal vetro		4	L-148
		2	H1-193
		2	H2-103
AGP 4002		3	L
		2	H
AGP 4501R		2	L-124
		2	H-124

2 leaf s door

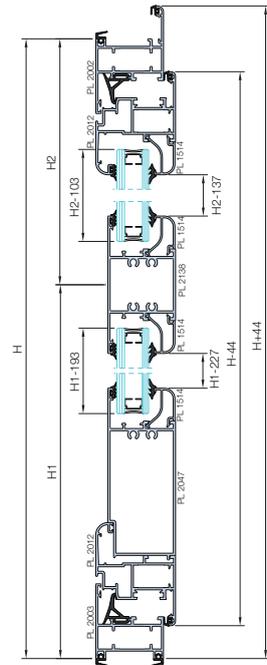
Porta finestra
2 ante

Glass list

Distinta vetri



Sez. B-B



Sez. A-A

Distinta profili

Profiles' list

Art.	Descrizione	Pezzi	Misura	Taglio
PL 2002	Traverso superiore telaio <i>top transom frame</i>	1	L+44	
	Montante telaio <i>mullion frame</i>	2	H+44	
PL 2003	Traverso inferiore telaio <i>sil transom leaf</i>	1	L	
PL 2012	Traverso anta <i>transom leaf</i>	2	L/2-24.5	
	Montante anta <i>mullion leaf</i>	2	H-44	
PL 2138	Fascia <i>cross piece</i>	1	L/2-109.5	
PL 1514	Traverso fermavetro <i>transom glazing bead</i>	4	L/2-162.5	
	Montante fermavetro <i>mullion glazing bead</i>	2	H1-227	
	Montante fermavetro <i>mullion glazing bead</i>	2	H2-137	
PL 2047	Zoccolo riportato <i>fitted base</i>	2	L/2-109.5	
PL 2013	Riporto centrale <i>central cap</i>	1	H-114	

Accessories' list

Art.	Descrizione	Q.tà
ACP 5801	Squadretta multifunzione <i>multifunctional corner joint</i>	12 pz
ACP 5001	Vite per ACP 5801 <i>screw for ACP 5801</i>	24 pz
ACP 5005	Cerniere <i>hinge</i>	6 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	10 pz
ACP 50200	Cremonese Aurora <i>Aurora cremonese handle</i>	1 pz
ACP 50175	Kit chiusura <i>Locking kit</i>	1 kit
ACP 5022	Catenacciolo <i>bolt</i>	2 pz
ACP 5579	Tappo di riporto <i>plug</i>	1 cp
ACP 5035	Regolo muro in nylon <i>nylon wall spacer</i>	6 pz
AGP 4085	Angolo vulcanizzato per AGP 4004 <i>vulcanized corner for AGP 4004</i>	8 pz
ACP 5014	Angolo fermavetro <i>glazing bead corner</i>	16 pz
ACP 50110	Squadretta all. eccentrico <i>alignment corner joint</i>	8 pz
AGP 4885R	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz

DISTINTE DI TAGLIO

Cutting lists

Distinta guarnizioni

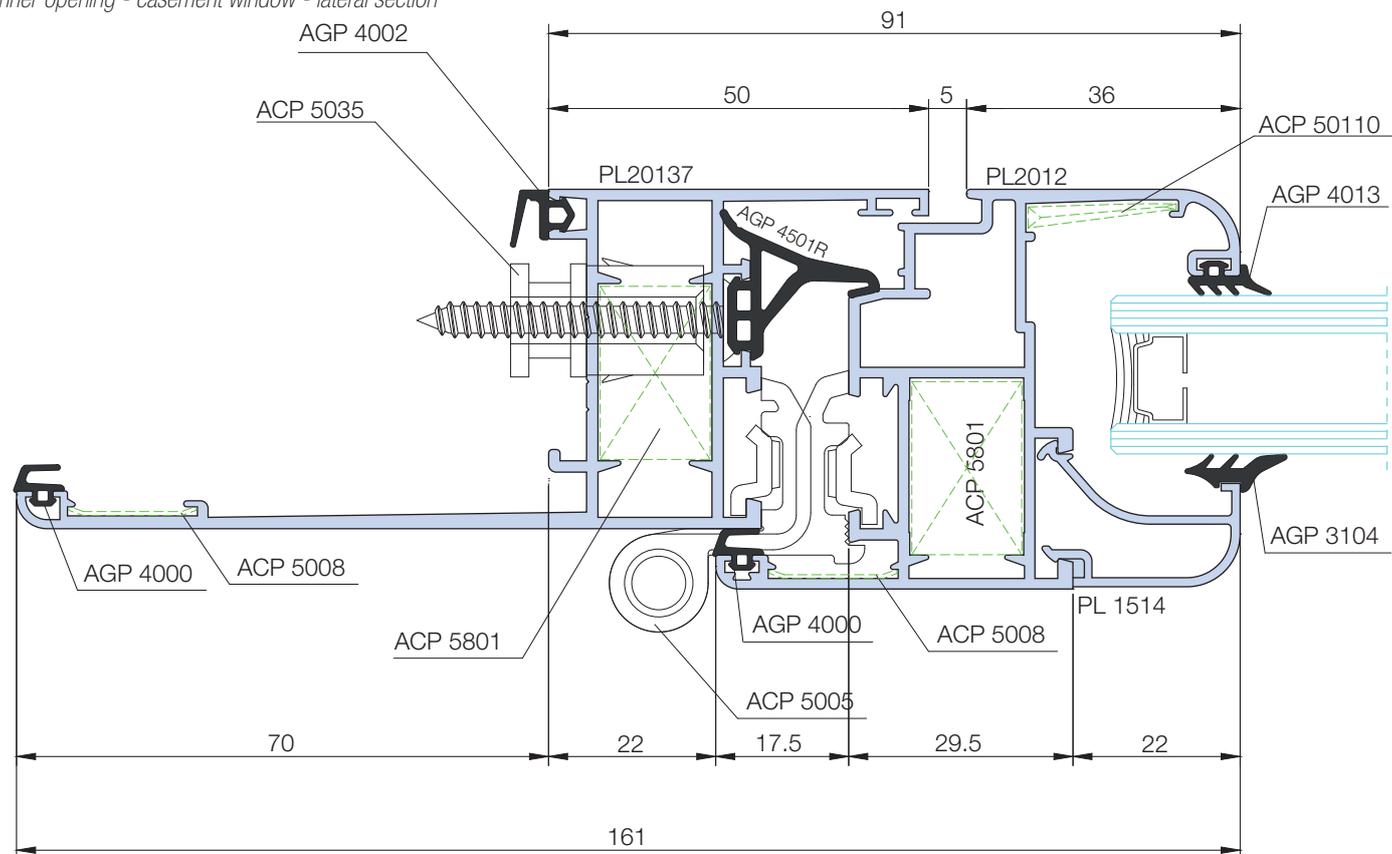
Gaskets' list

Art.	Descrizione	Pezzi	Misura
AGP 4000	Battuta <i>wall seal</i>	1	L+44
		2	H+44
		4	L/2-24.5
		3	H-44
AGP 4013	Vetro esterno <i>external glass gasket</i>	8	L/2-128.5
		4	H1-193
		4	H2-103
Dipende dal vetro	Vetro interno <i>internal glass gasket</i>	8	L/2-128.5
		4	H1-193
		4	H2-103
AGP 4002	Isolamento muro <i>insulation wall</i>	2	L-124
		3	H-124
AGP 4501R	Pinna giunto aperto <i>open joint gasket</i>	1	H-114

Nodo 01

Apertura interna - finestra a battente - nodo laterale

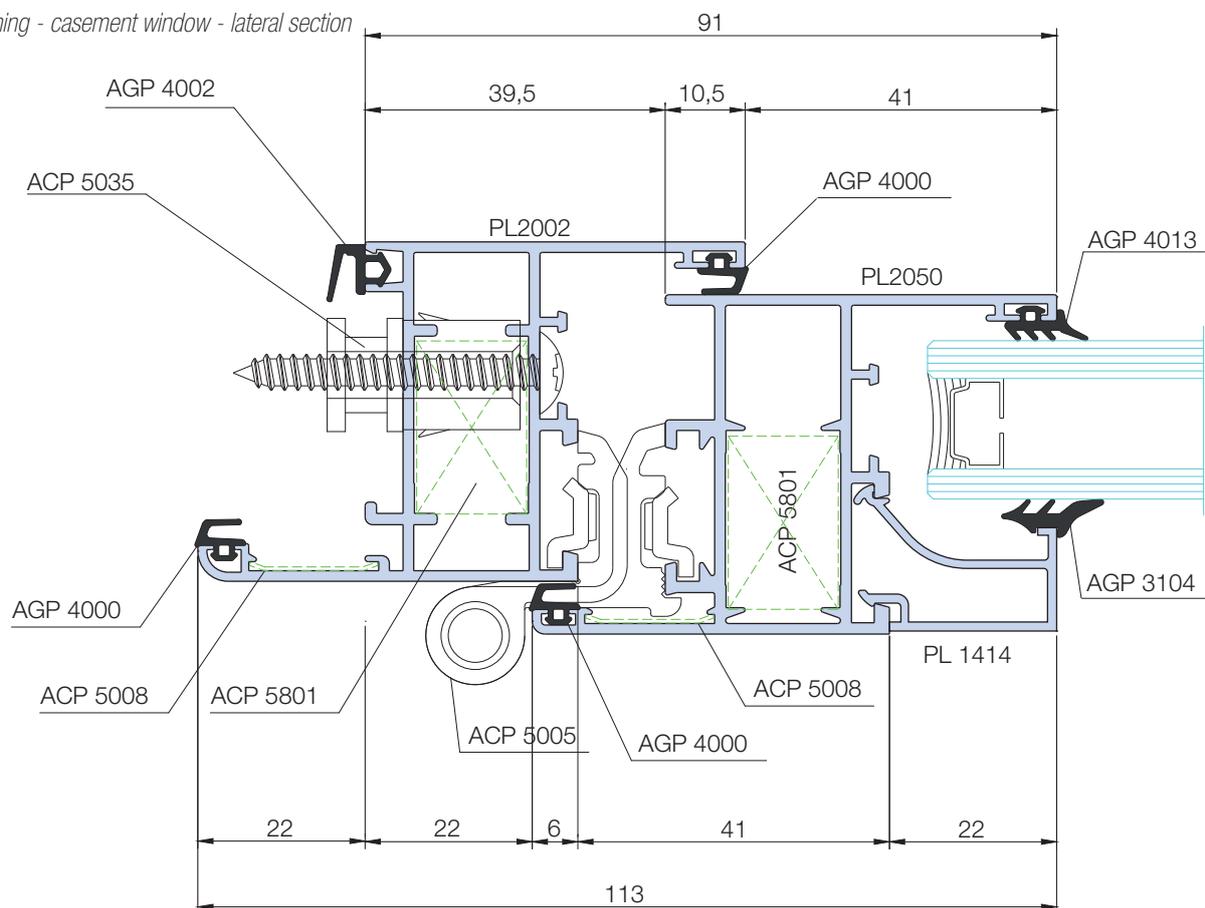
Inner opening - casement window - lateral section



Nodo 02

Apertura interna - finestra a battente - nodo laterale

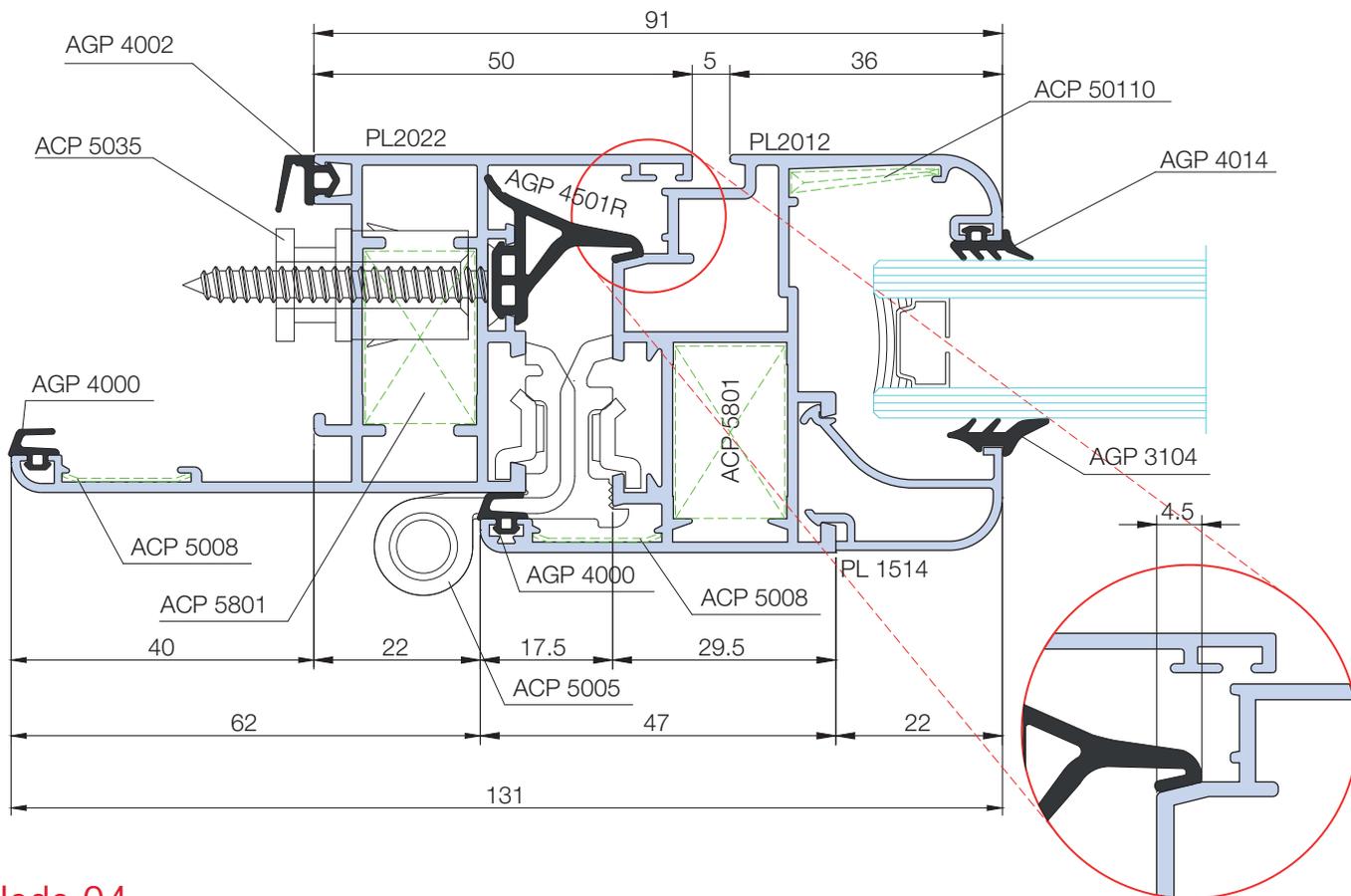
Inner opening - casement window - lateral section



Nodo 03

Apertura interna - finestra a battente - nodo laterale

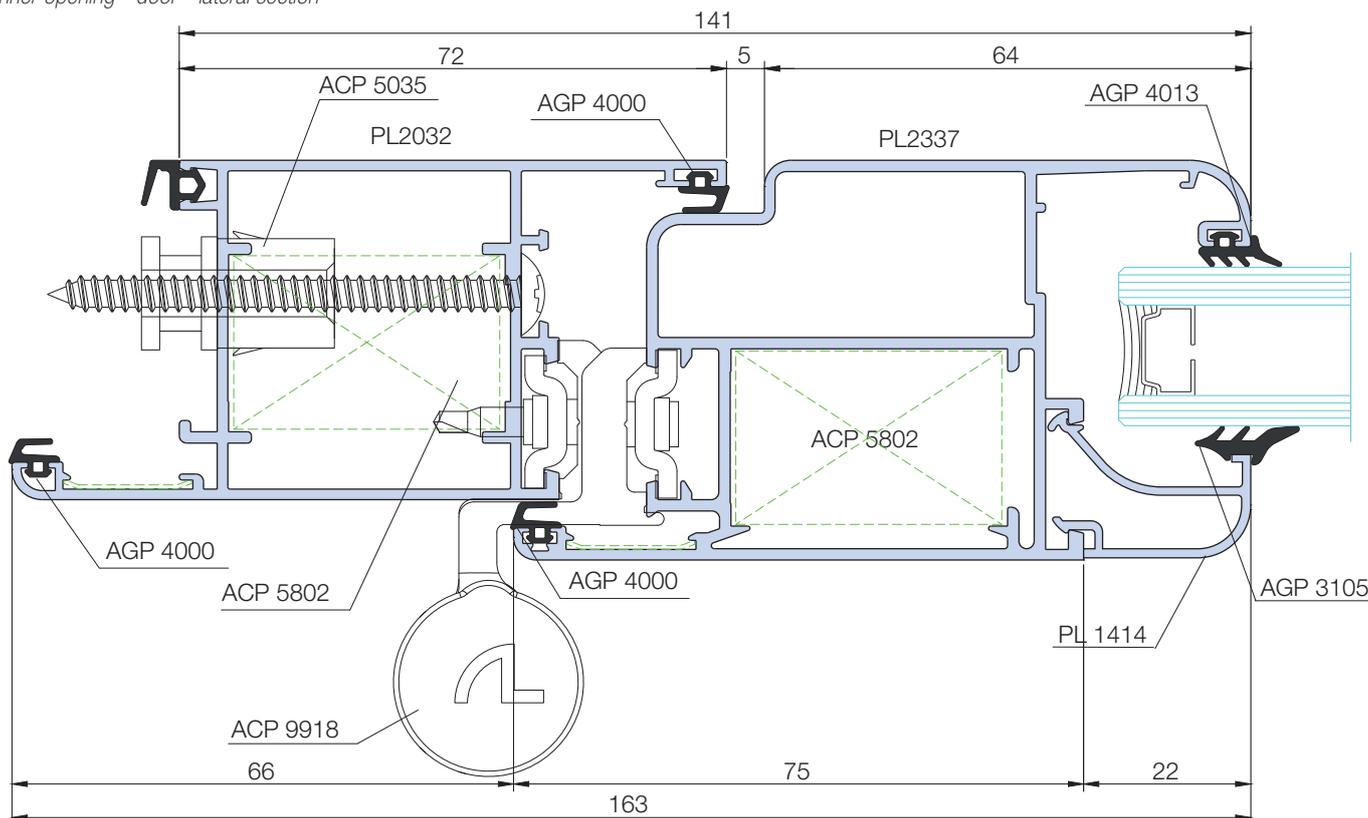
Inner opening - casement window - lateral section



Nodo 04

Apertura interna - porta - nodo laterale

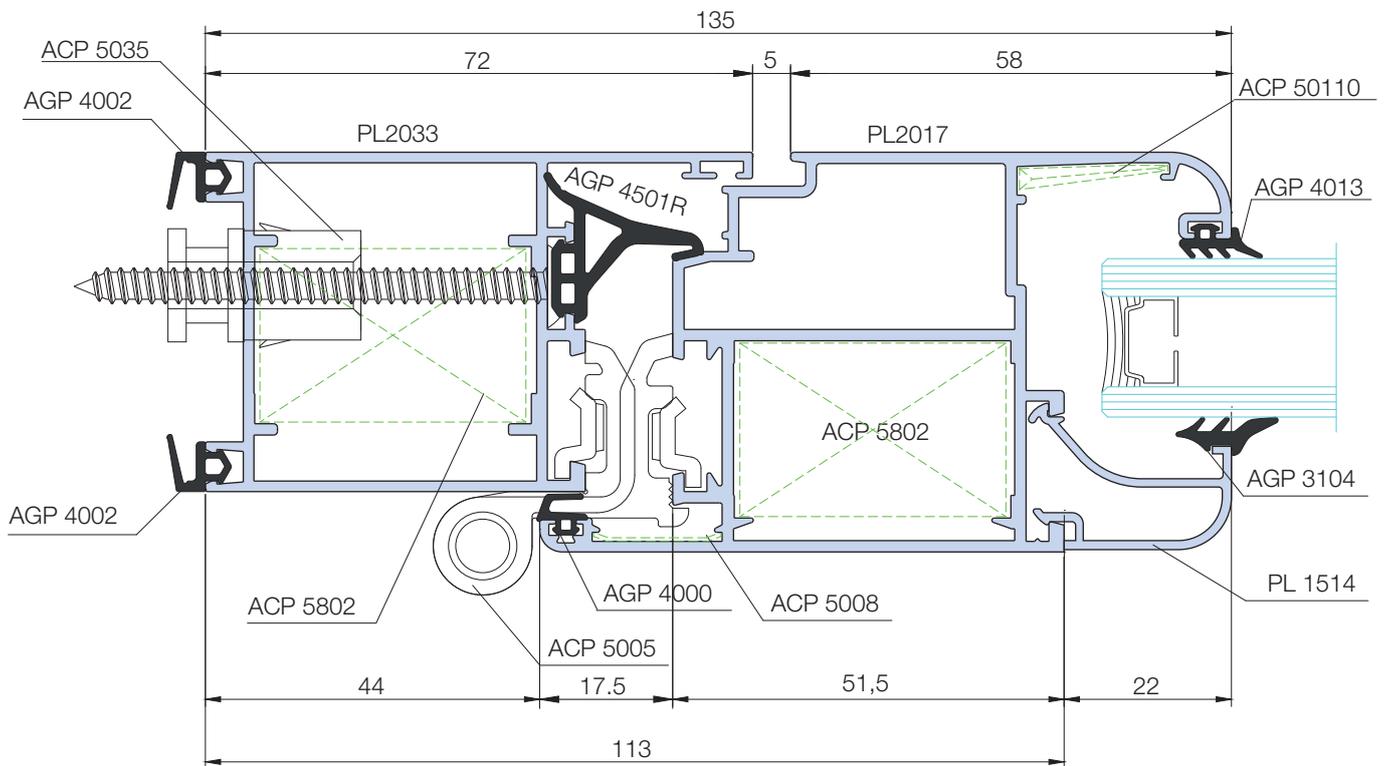
Inner opening - door - lateral section



Nodo 05

Apertura interna - finestra a battente - nodo laterale

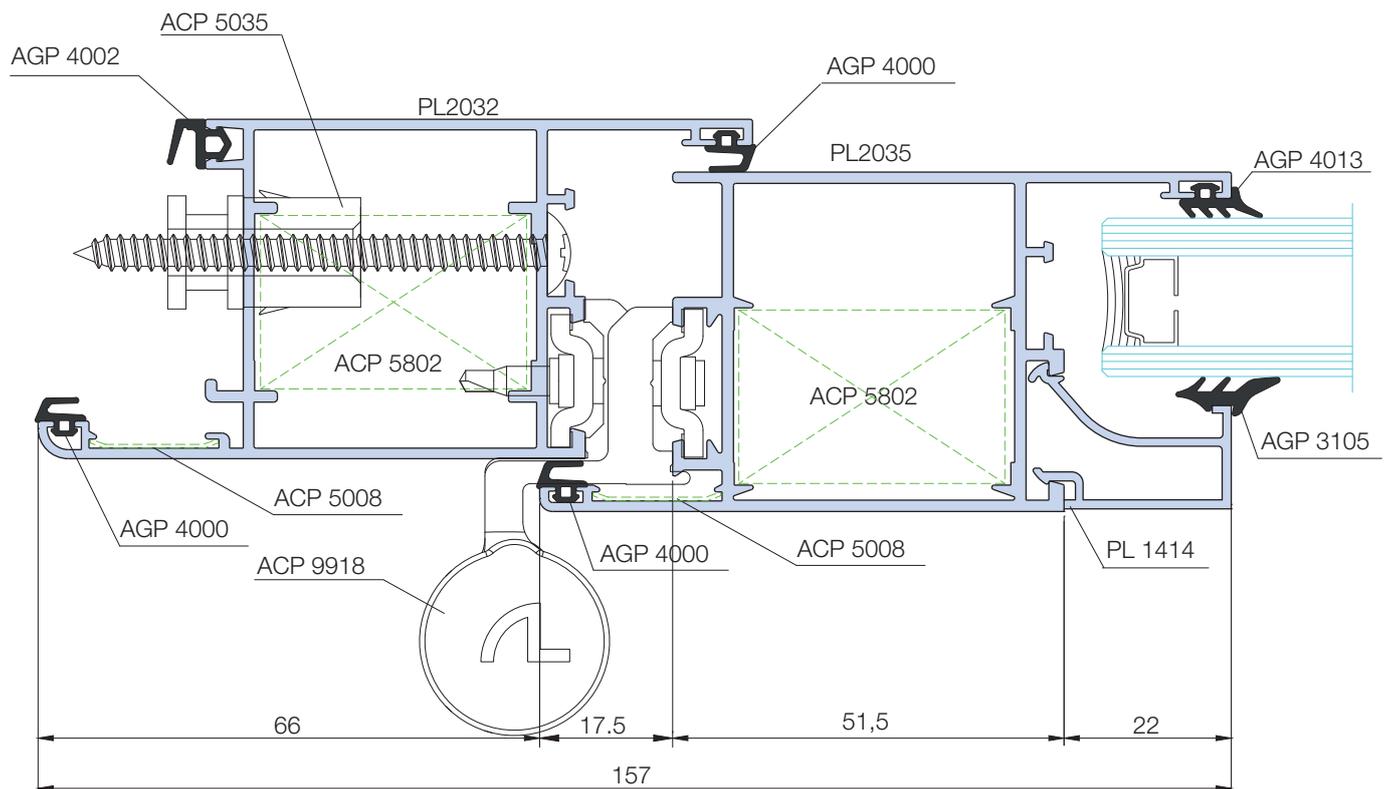
Inner opening - casement window - lateral section



Nodo 06

Apertura interna - porta - nodo laterale

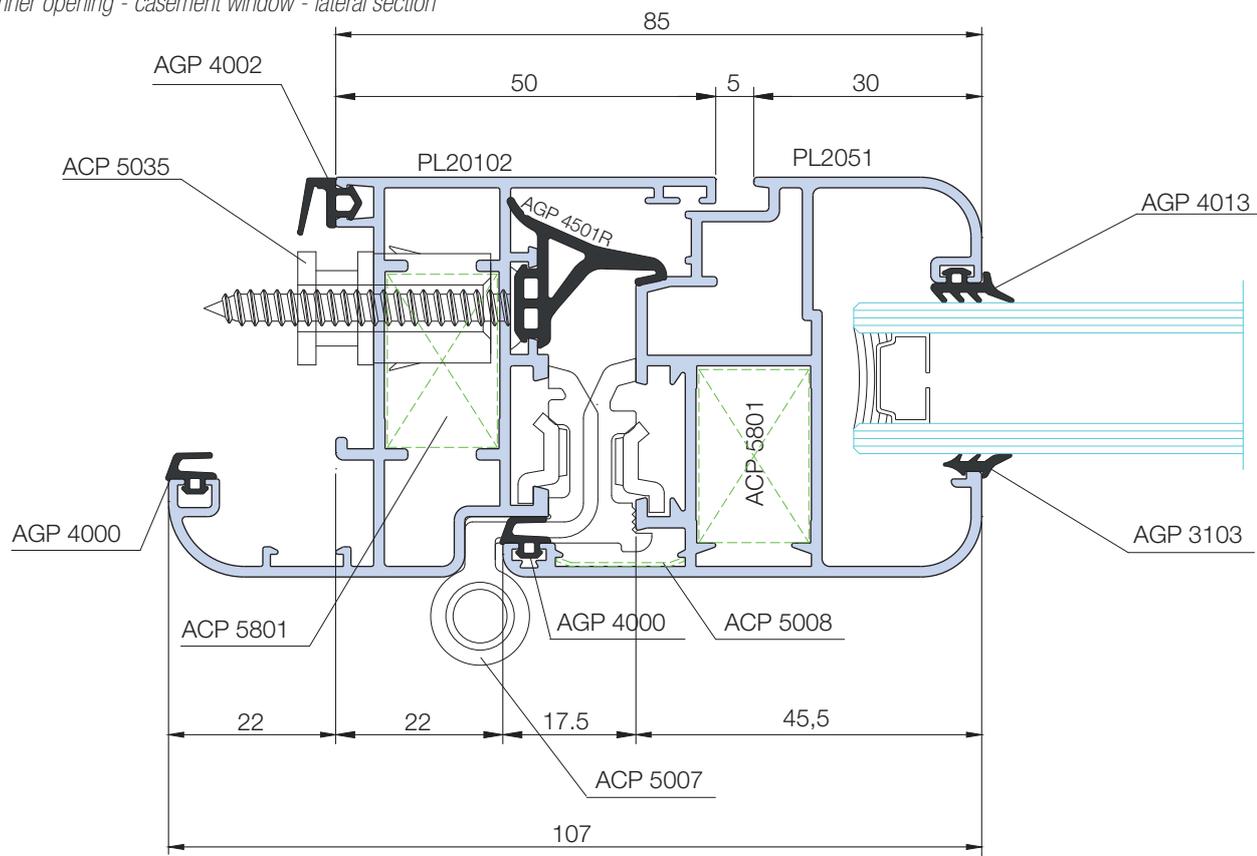
Inner opening - door - lateral section



Nodo 07

Apertura interna - finestra a battente - nodo laterale

Inner opening - casement window - lateral section

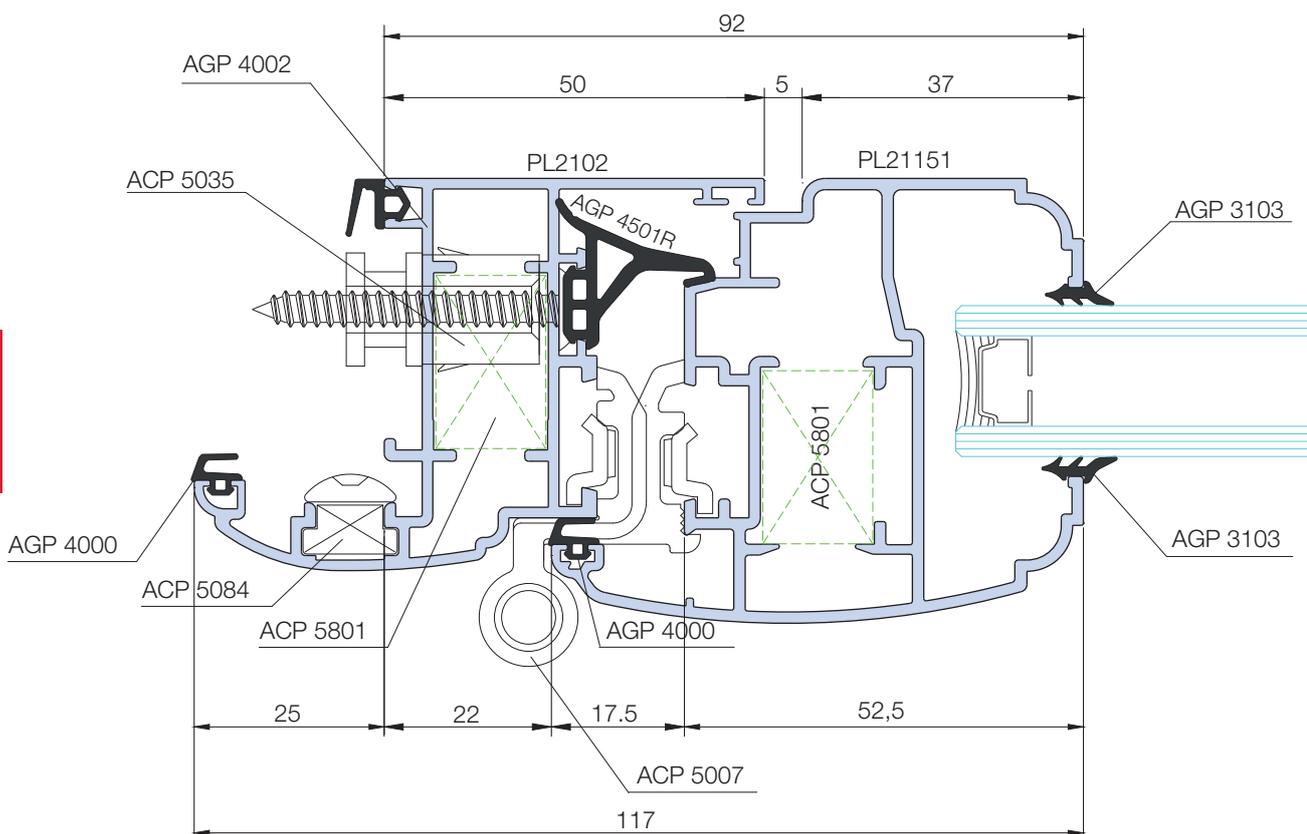


23

Nodo 08

Apertura interna - finestra a battente - nodo laterale

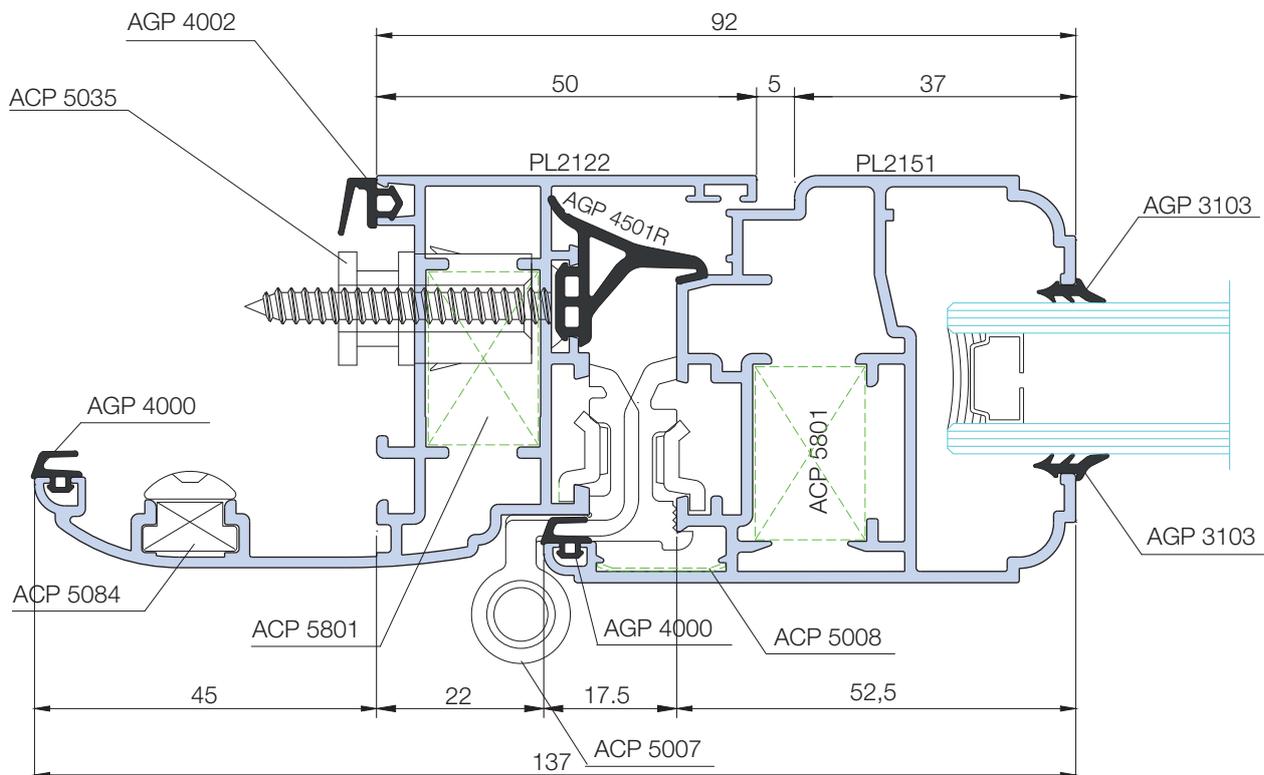
Inner opening - casement window - lateral section



Nodo 09

Apertura interna - finestra a battente - nodo laterale

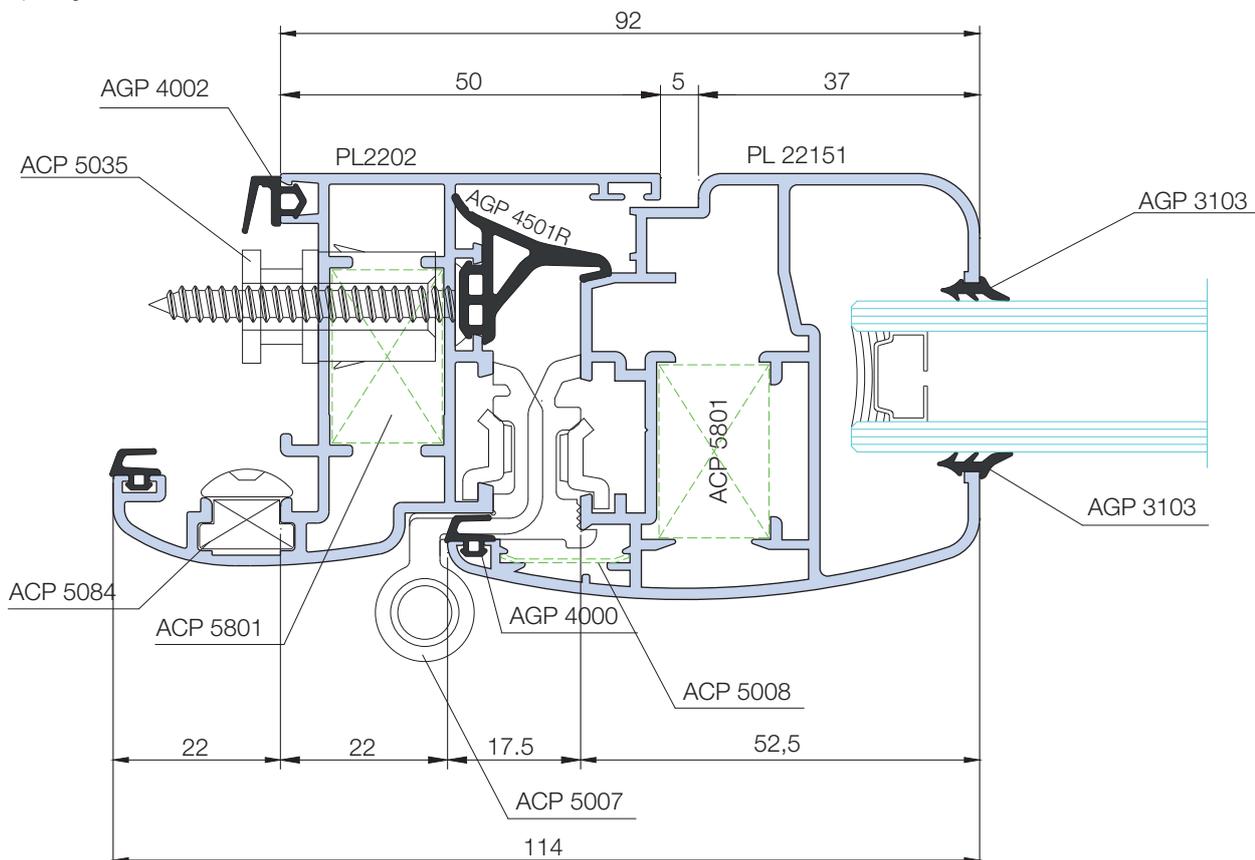
Inner opening - casement window - lateral section



Nodo 10

Apertura interna - finestra a battente - nodo laterale

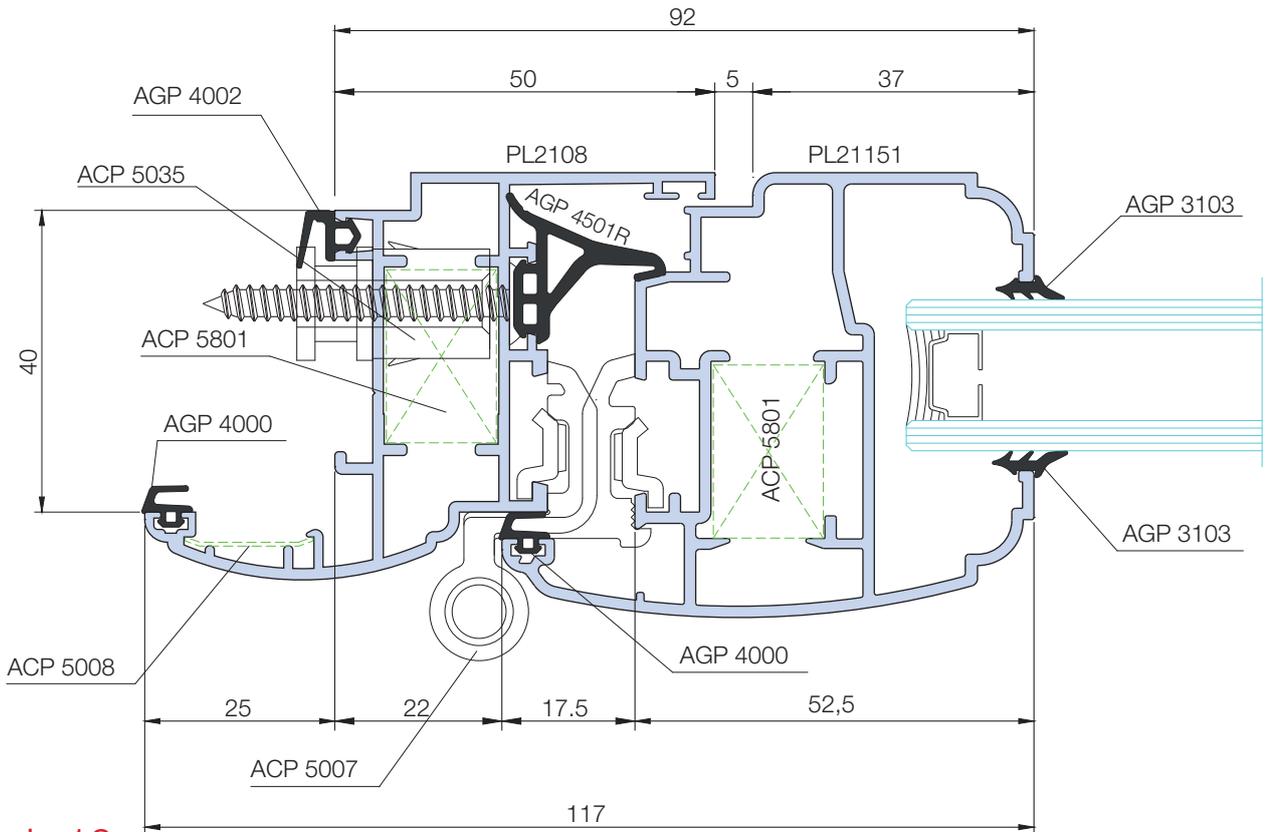
Inner opening - casement window - lateral section



Nodo 11

Apertura interna - finestra a battente - nodo laterale

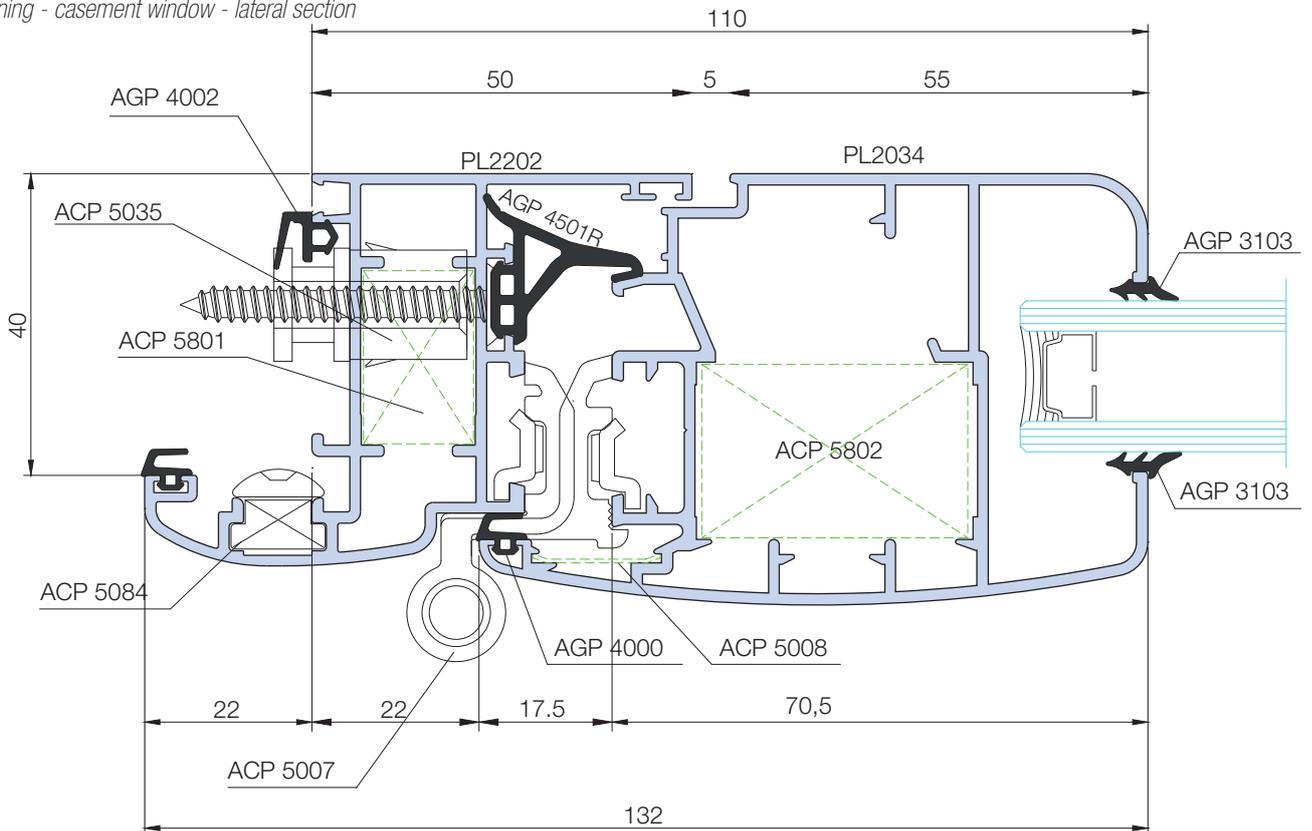
Inner opening - casement window - lateral section



Nodo 12

Apertura interna - finestra a battente - nodo laterale

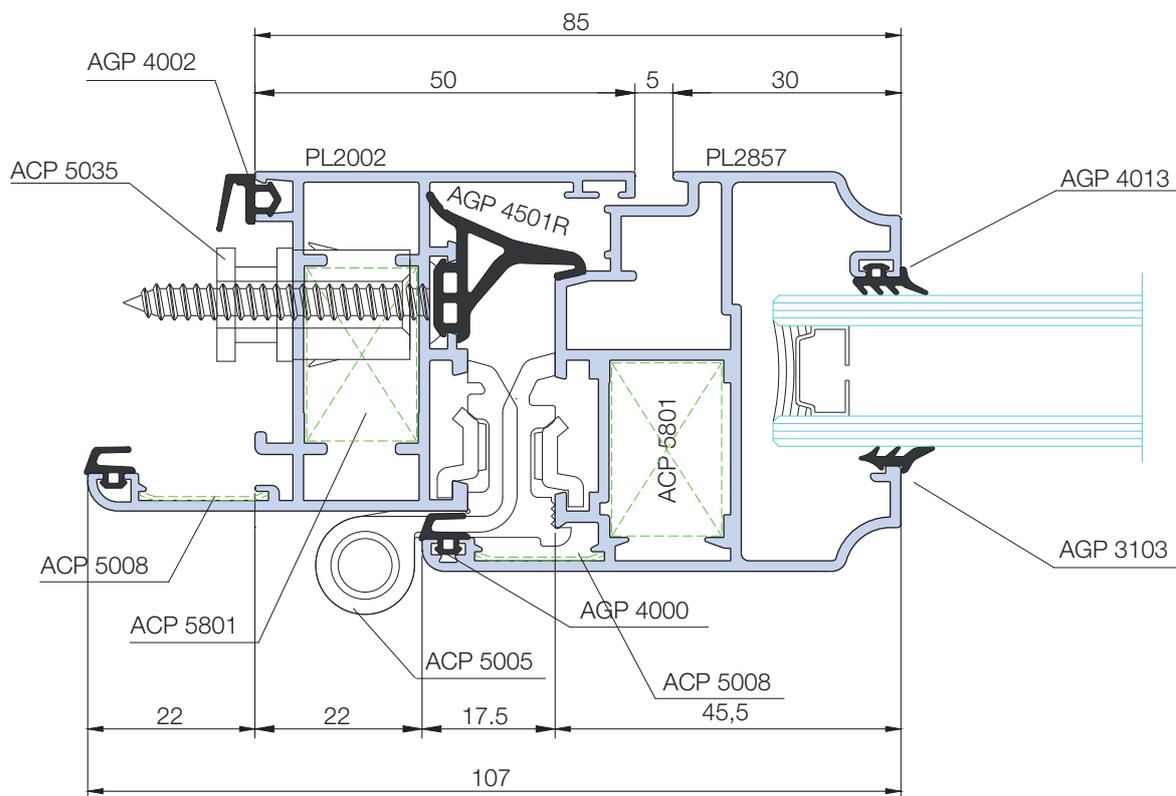
Inner opening - casement window - lateral section



Nodo 13

Apertura interna - finestra a battente - nodo laterale

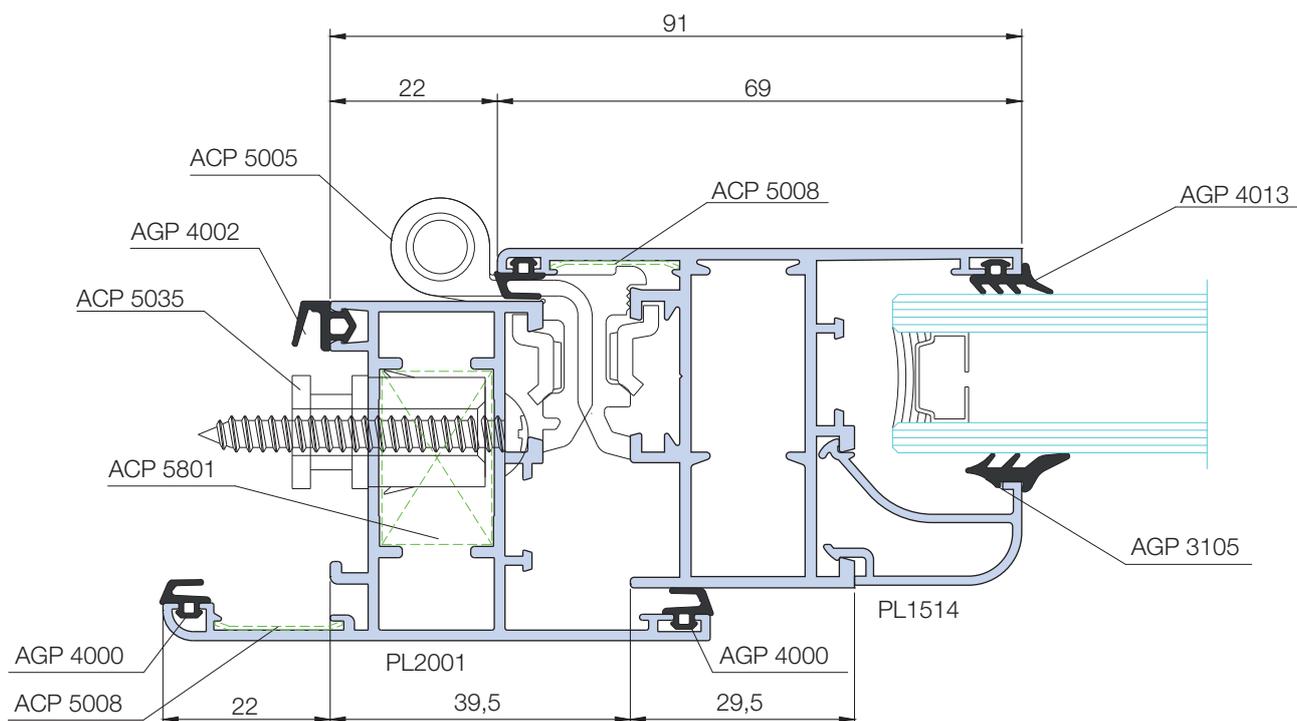
Inner opening - casement window - lateral section



Nodo 14

Apertura esterna - finestra a battente - nodo laterale

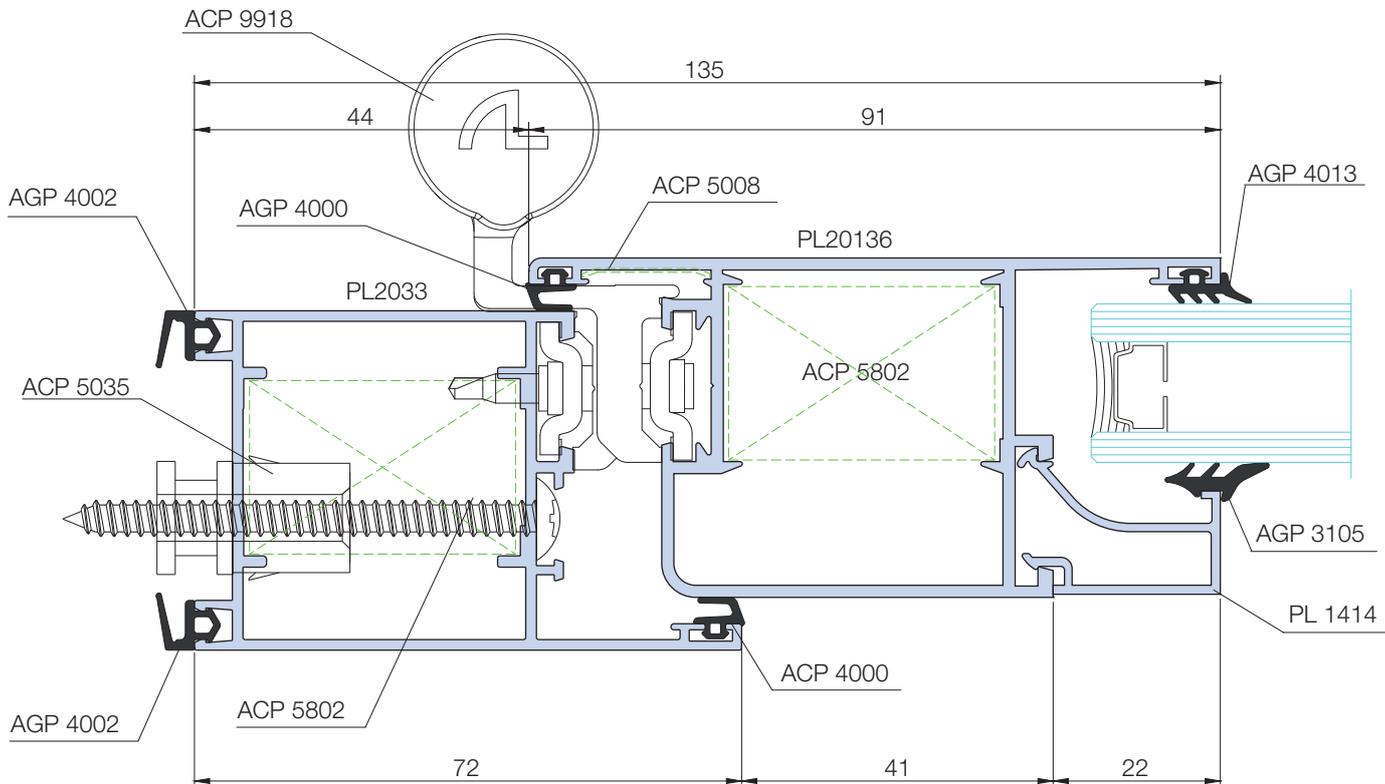
External opening - casement window - lateral section



Nodo 15

Apertura esterna - porta - nodo laterale

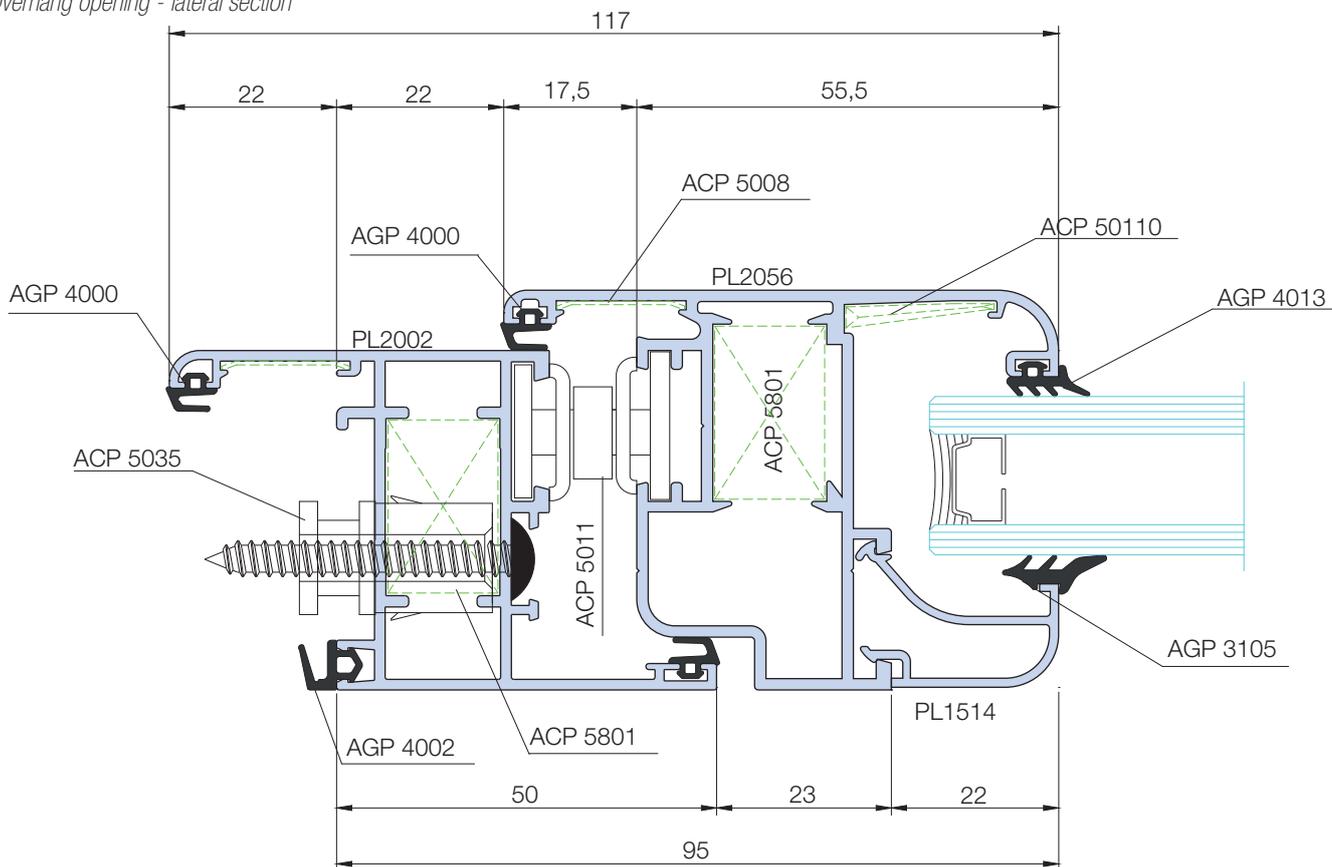
External opening - door - lateral section



Nodo 16

Apertura a sporgere - nodo laterale

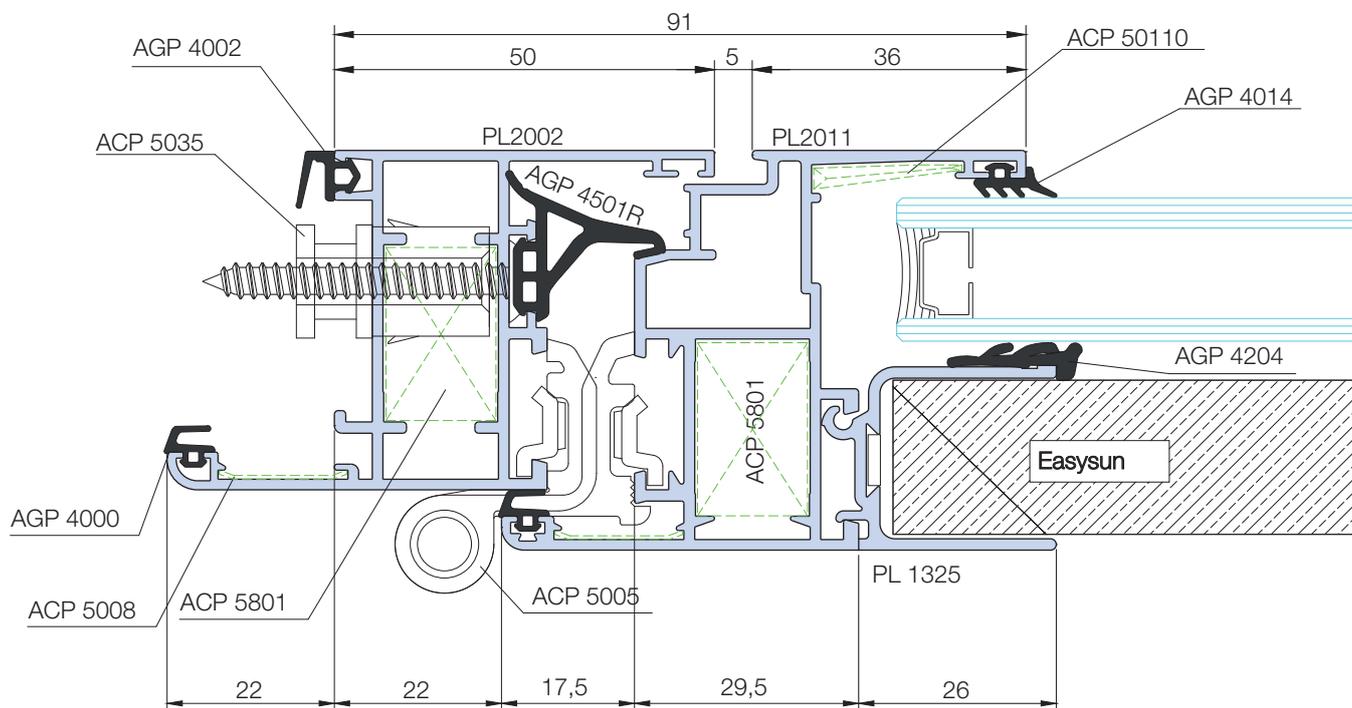
Overhang opening - lateral section



Nodo 17

Apertura interna - finestra a battente con Easysun integrata - nodo laterale

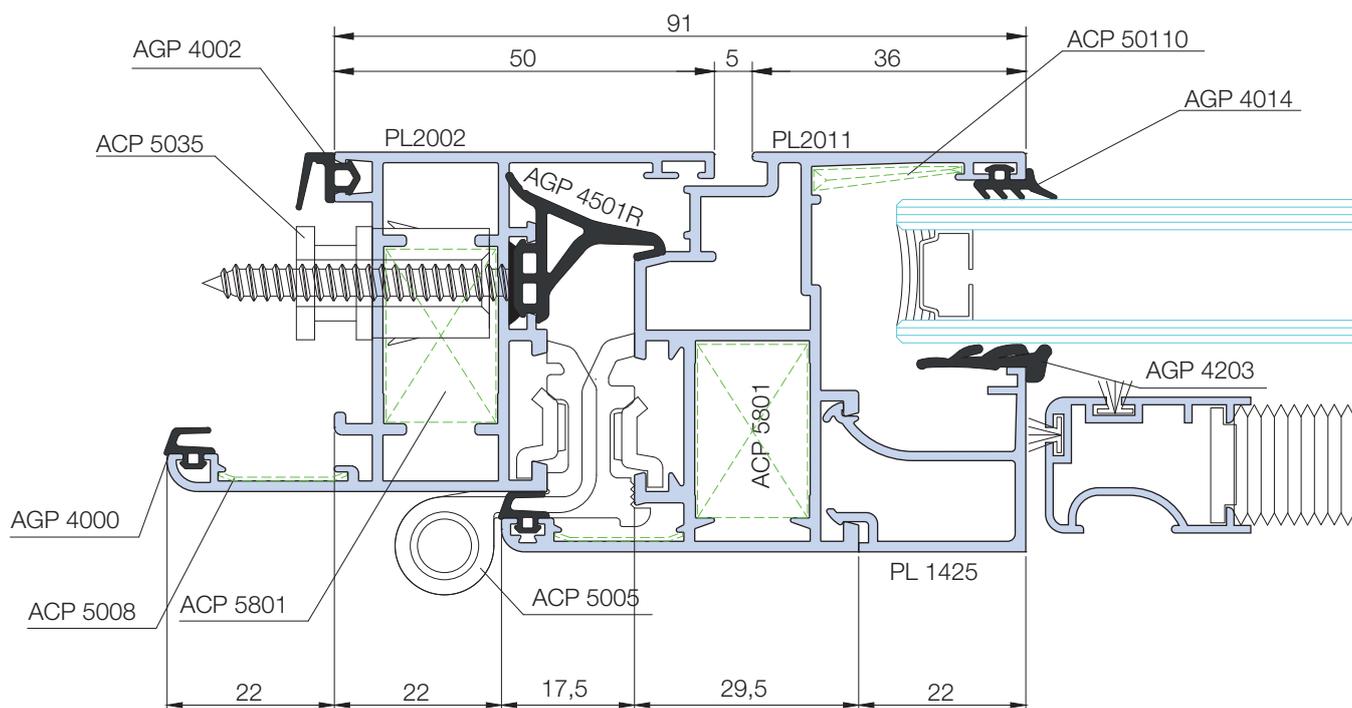
Inner opening - casement window with Easysun - lateral section



Nodo 18

Apertura interna - finestra a battente con oscurante integrato - nodo laterale

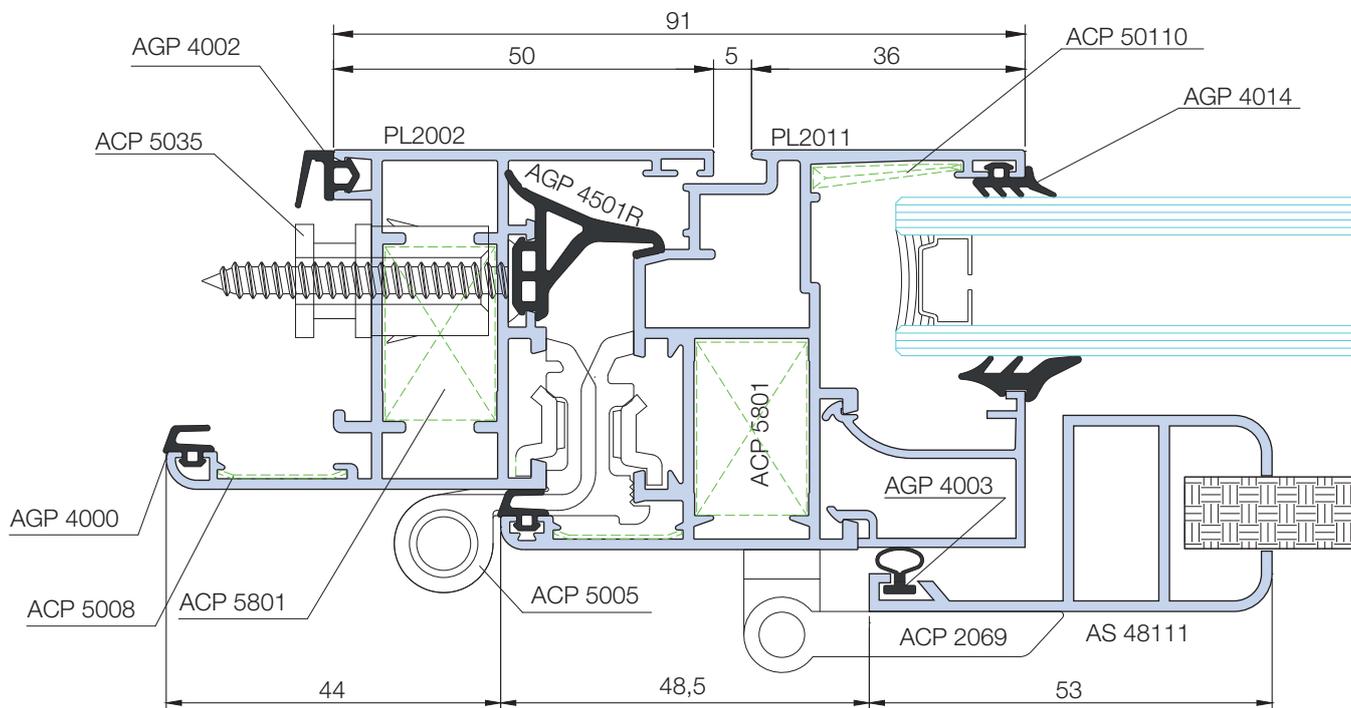
Inner opening - casement window with integrated blind - lateral section



Nodo 19

Apertura interna - finestra a battente con oscurante - nodo laterale

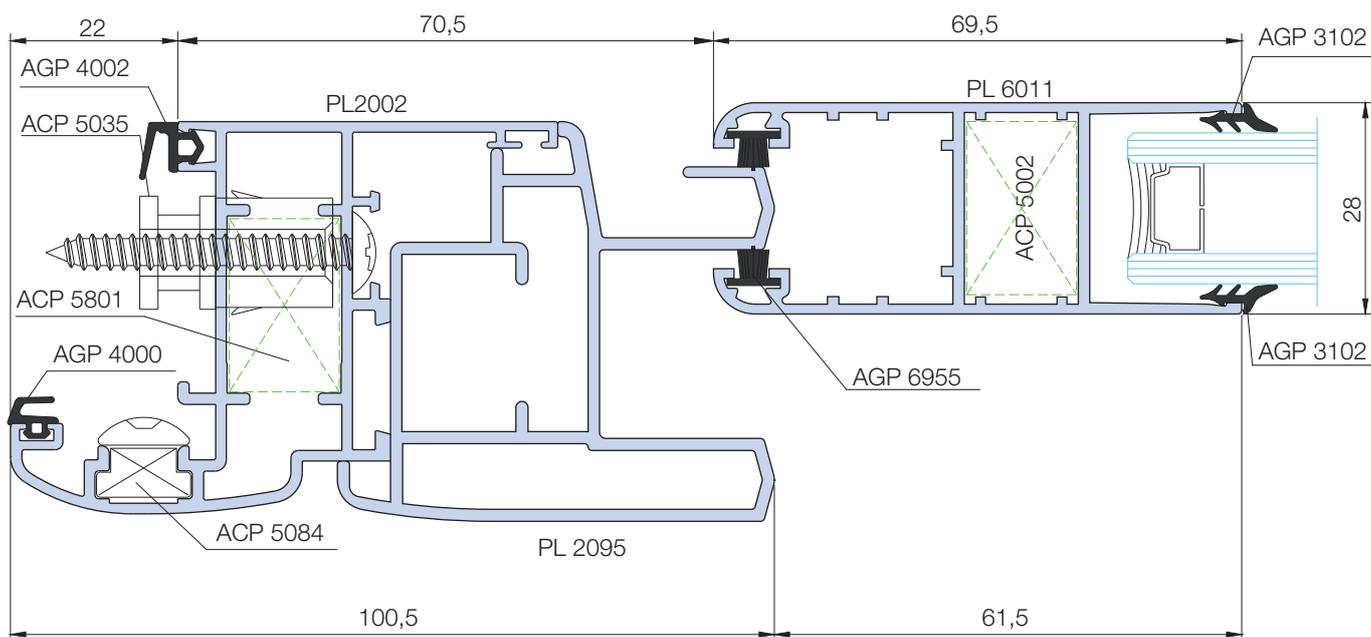
Inner opening - casement window with integrated blind - lateral section



Nodo 20

Abbinamento Slide 60 - nodo laterale

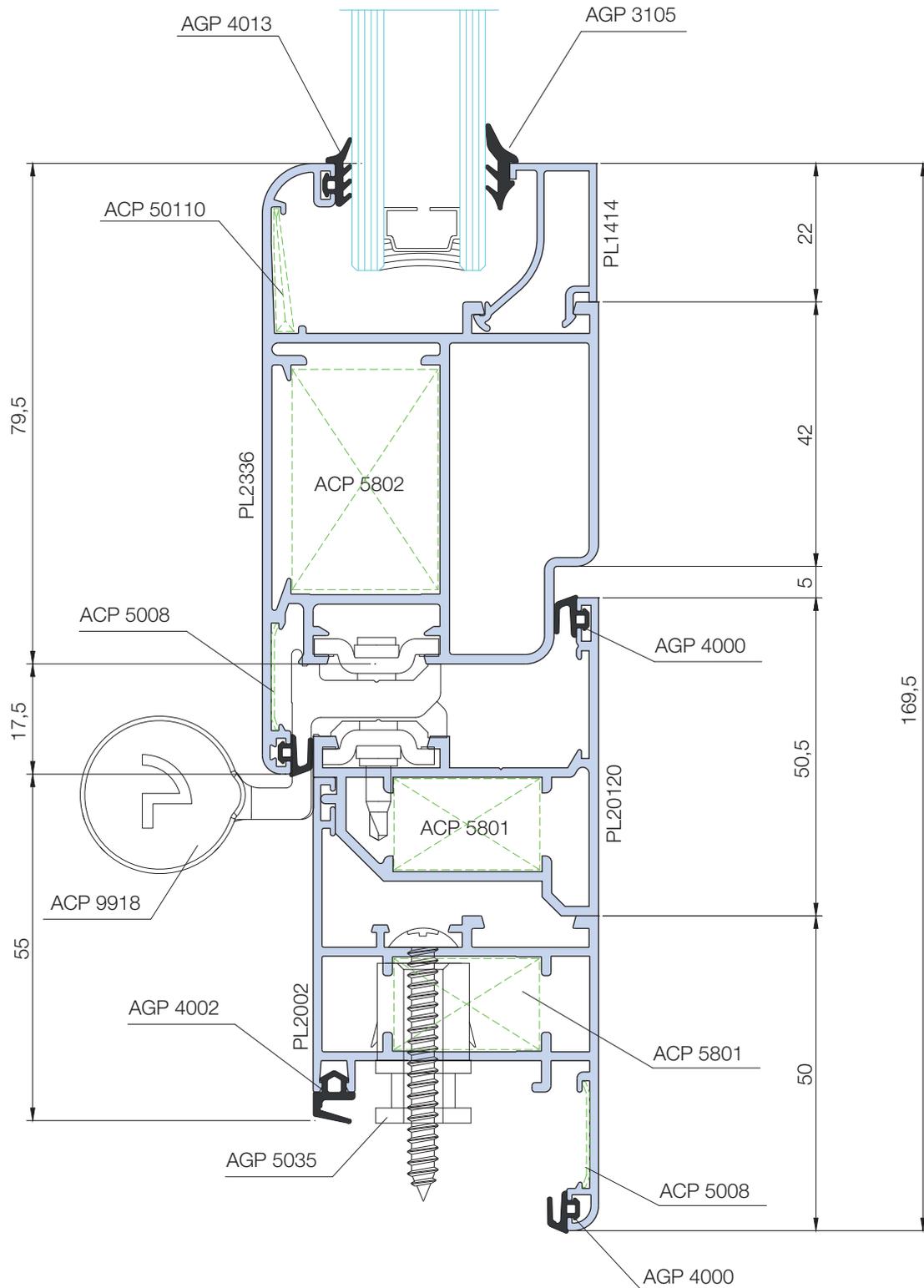
Slide 60 march - lateral section



Nodo 21

Apertura esterna - porta + fisso - nodo laterale

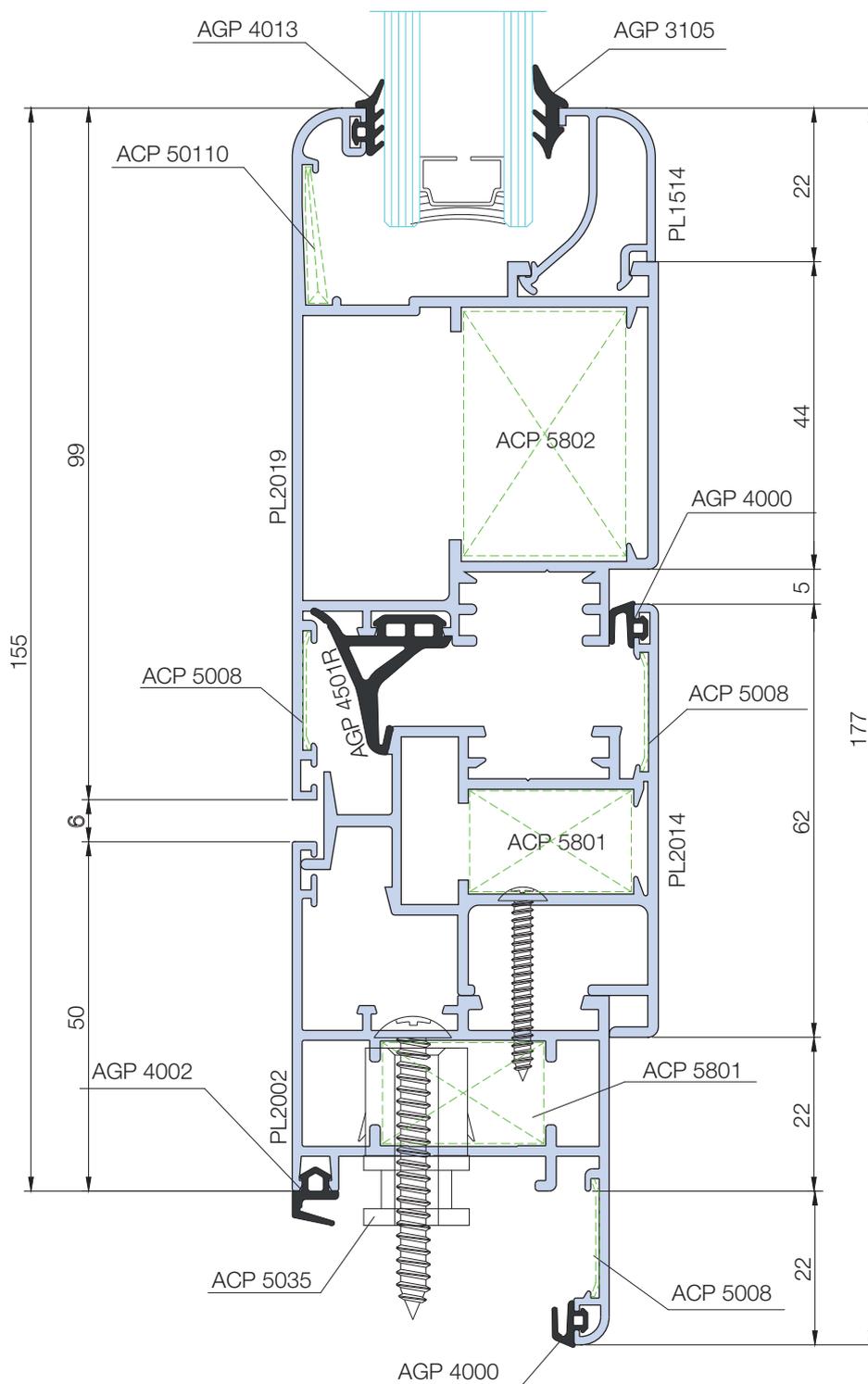
External opening - door with fixed - lateral section



Nodo 22

Bilico - nodo inferiore

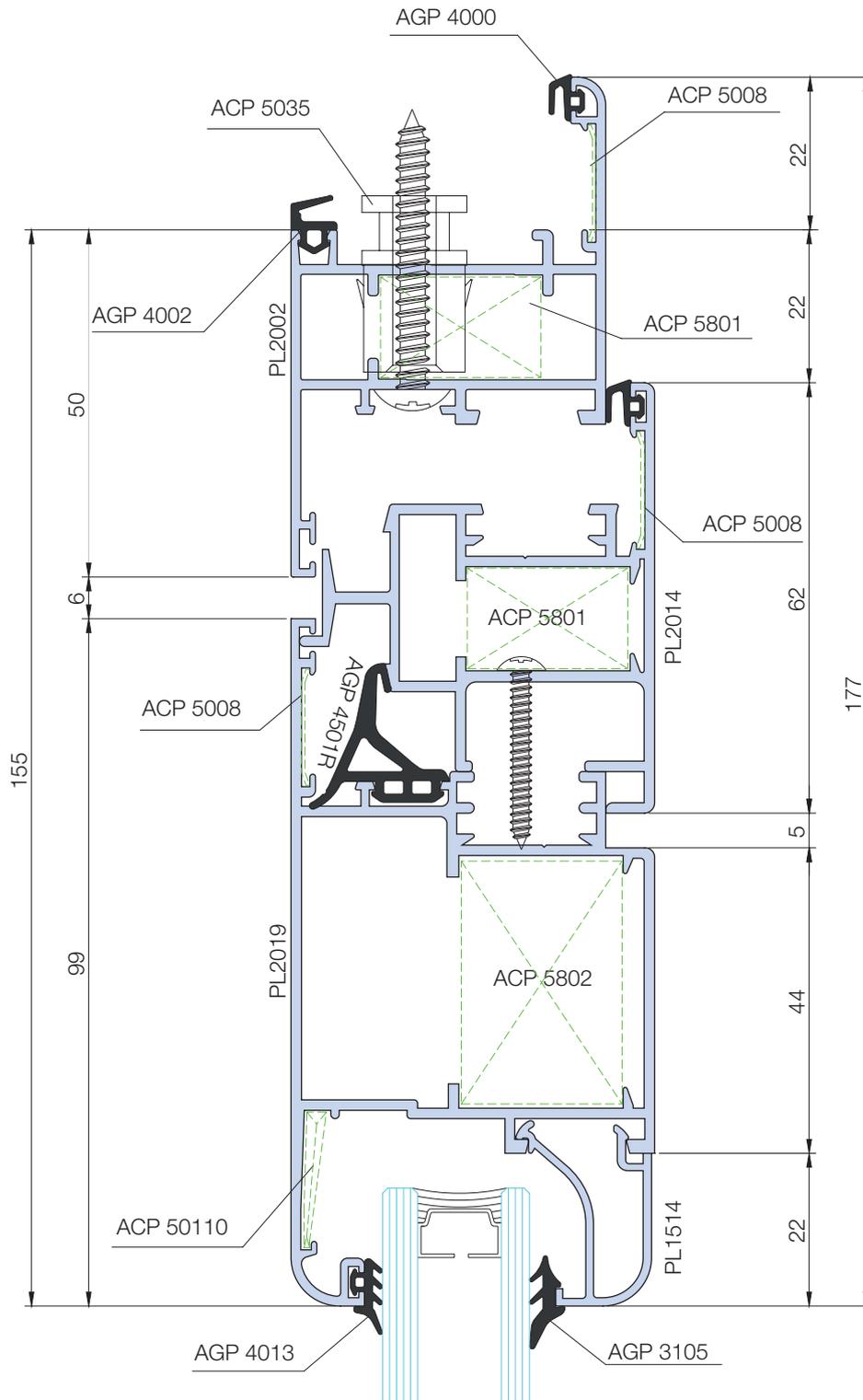
Pivot window - Bottom section



Nodo 23

Bilico - nodo superiore

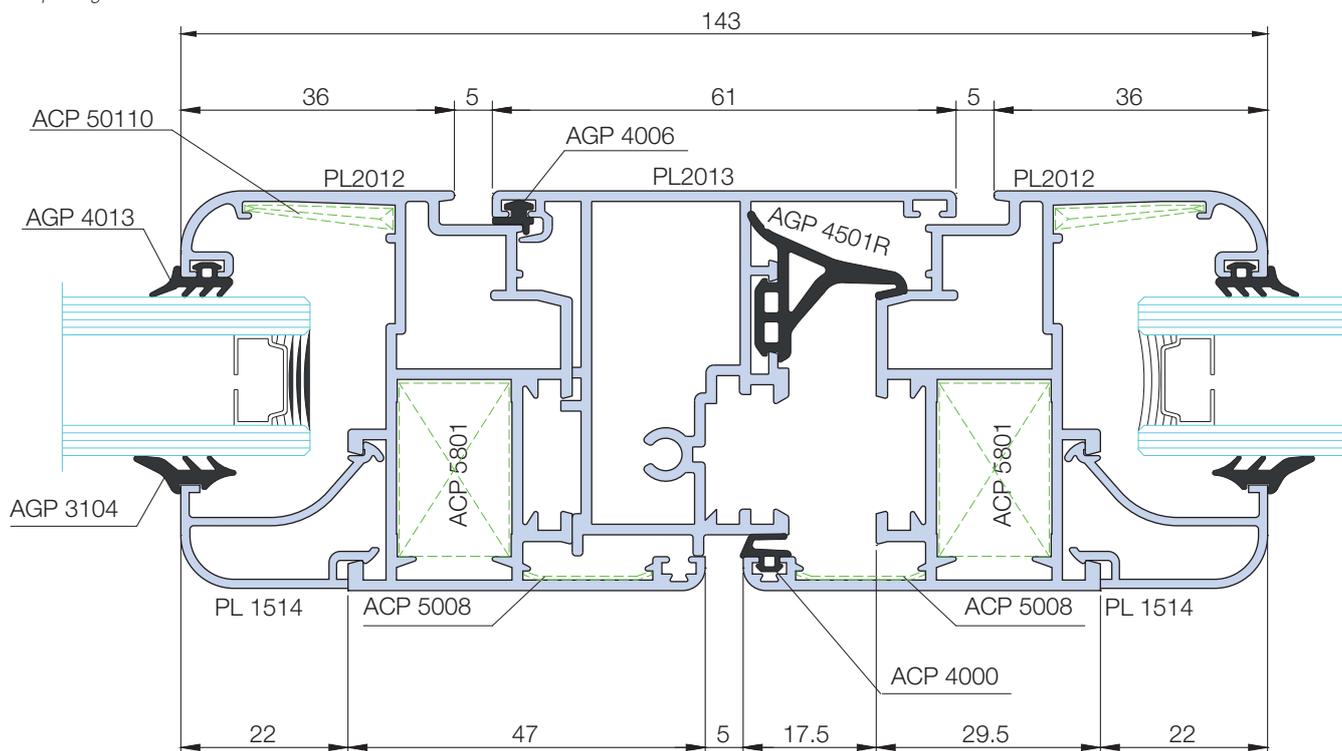
Pivot window - Top opening



Nodo 24

Apertura interna - finestra a battente - nodo centrale

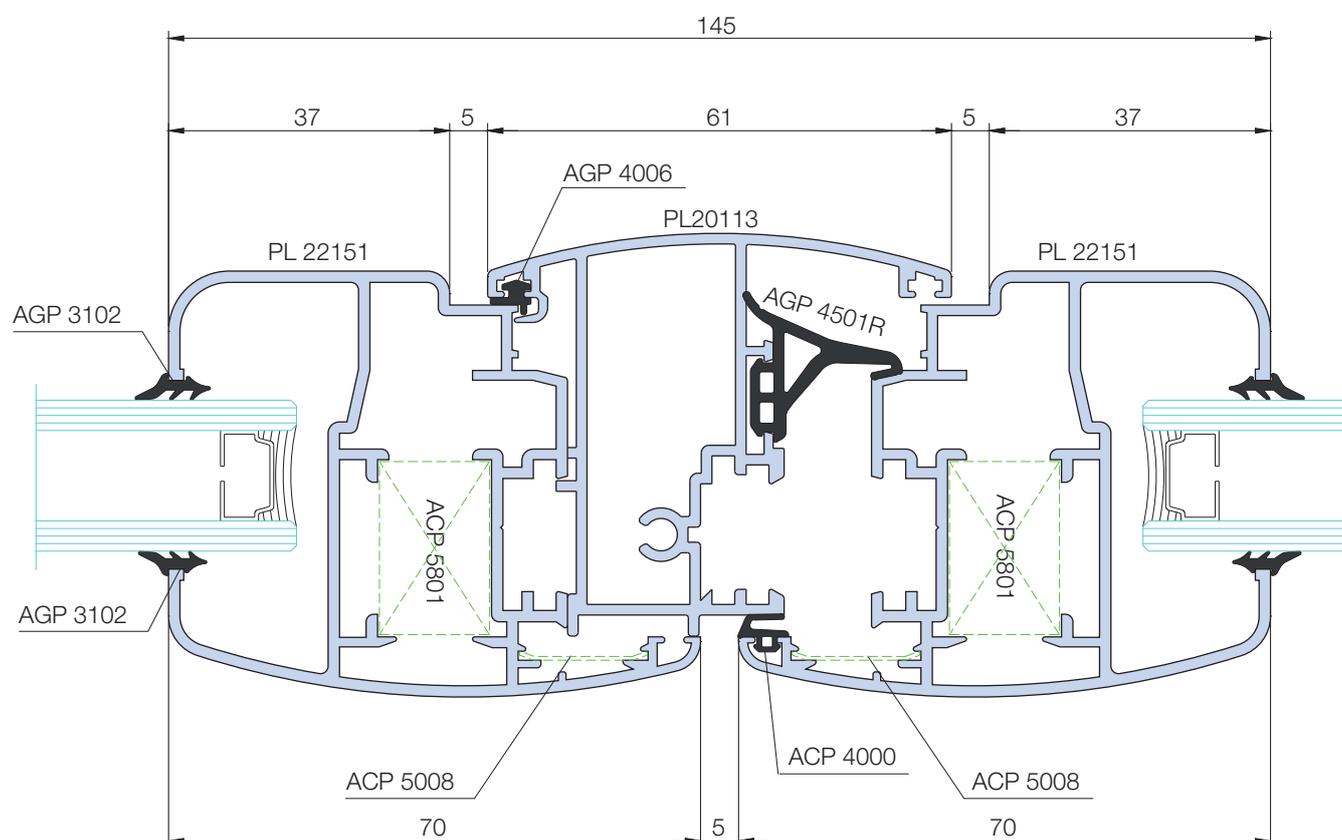
Inner opening - casement window - central section



Nodo 25

Apertura interna - finestra a battente - nodo centrale

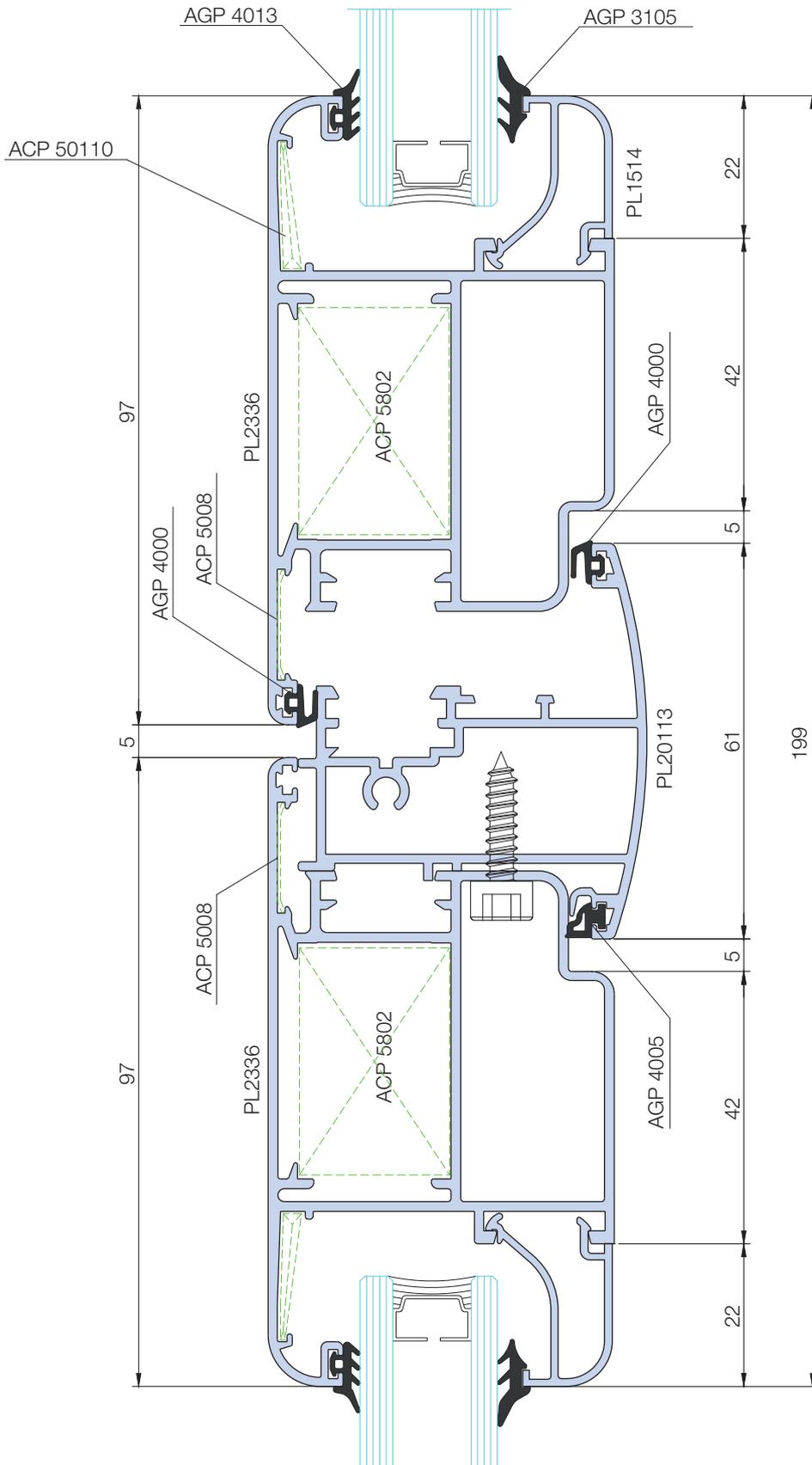
Inner opening - casement window - central section



Nodo 26

Apertura esterna - porta - nodo centrale

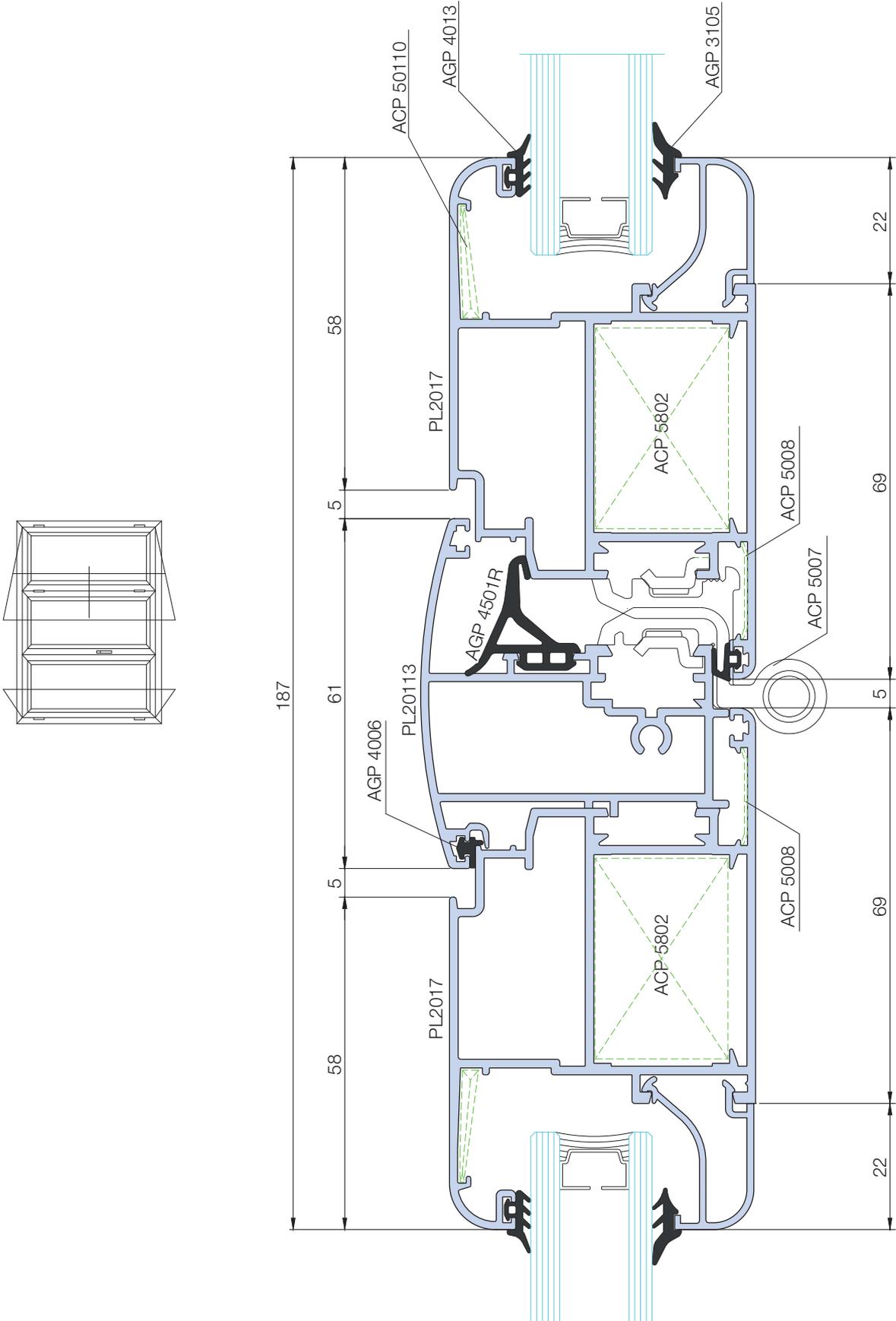
External opening - door - central section



Nodo 27

Apertura interna - finestra a battente 3 ante - nodo centrale

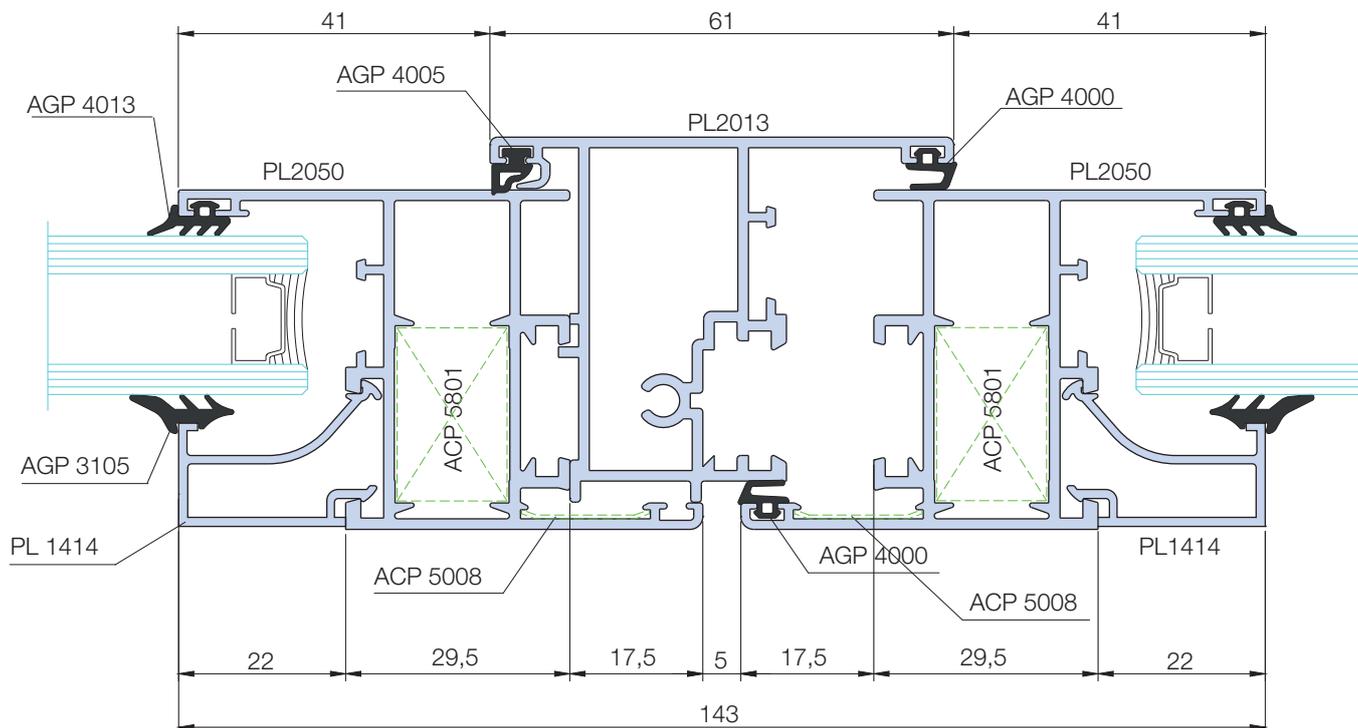
Inner opening - 3 leafs casement window - central section



Nodo 28

Apertura interna - finestra a battente - nodo centrale

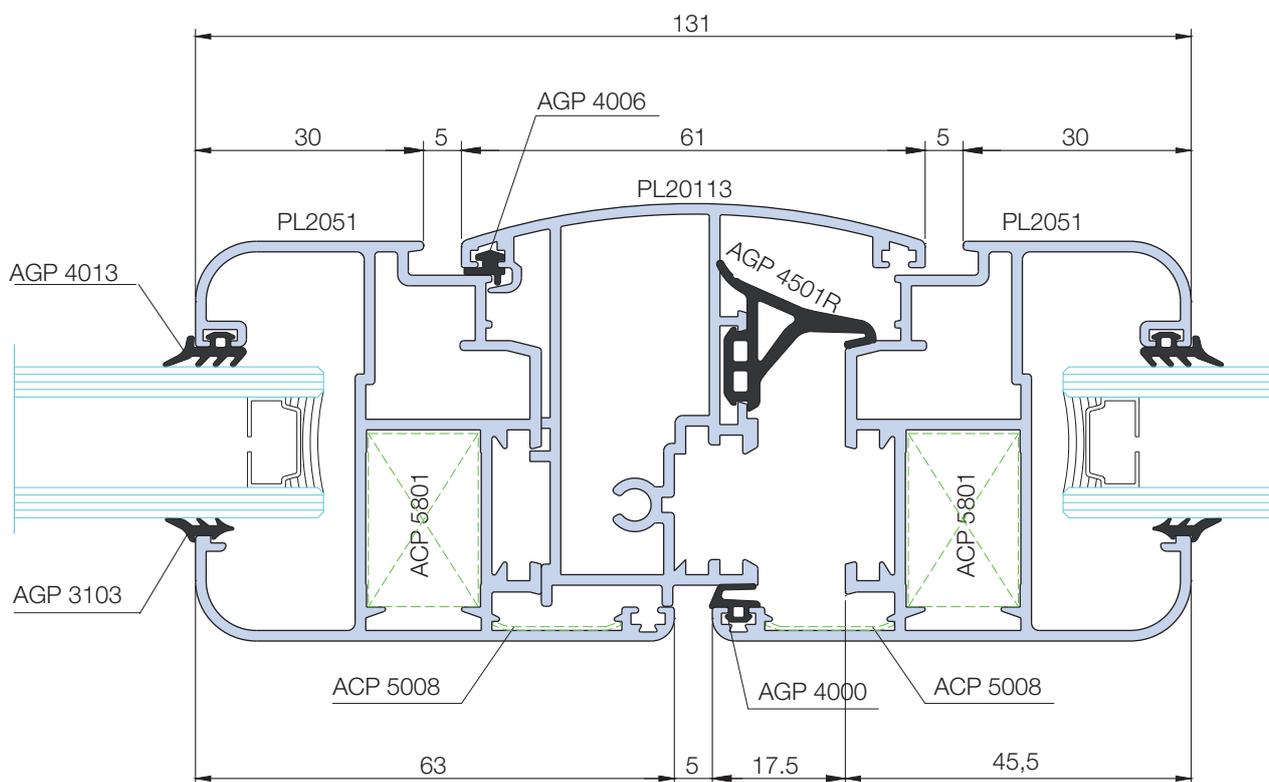
Inner opening - casement window - central section



Nodo 29

Apertura interna - finestra a battente - nodo centrale

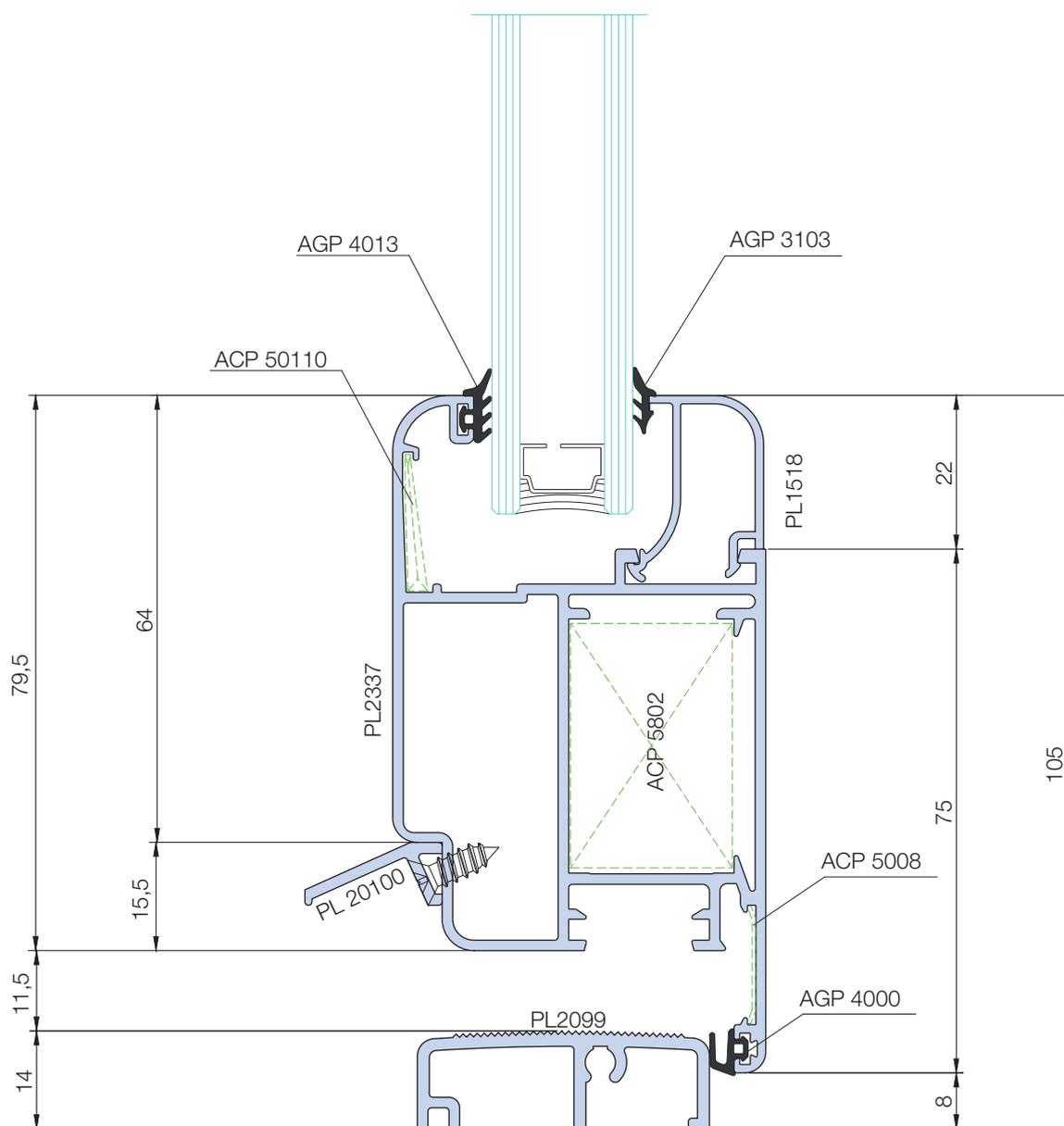
Inner opening - casement window - central section



Nodo 30

Apertura interna - porta - nodo soglia calpestabile

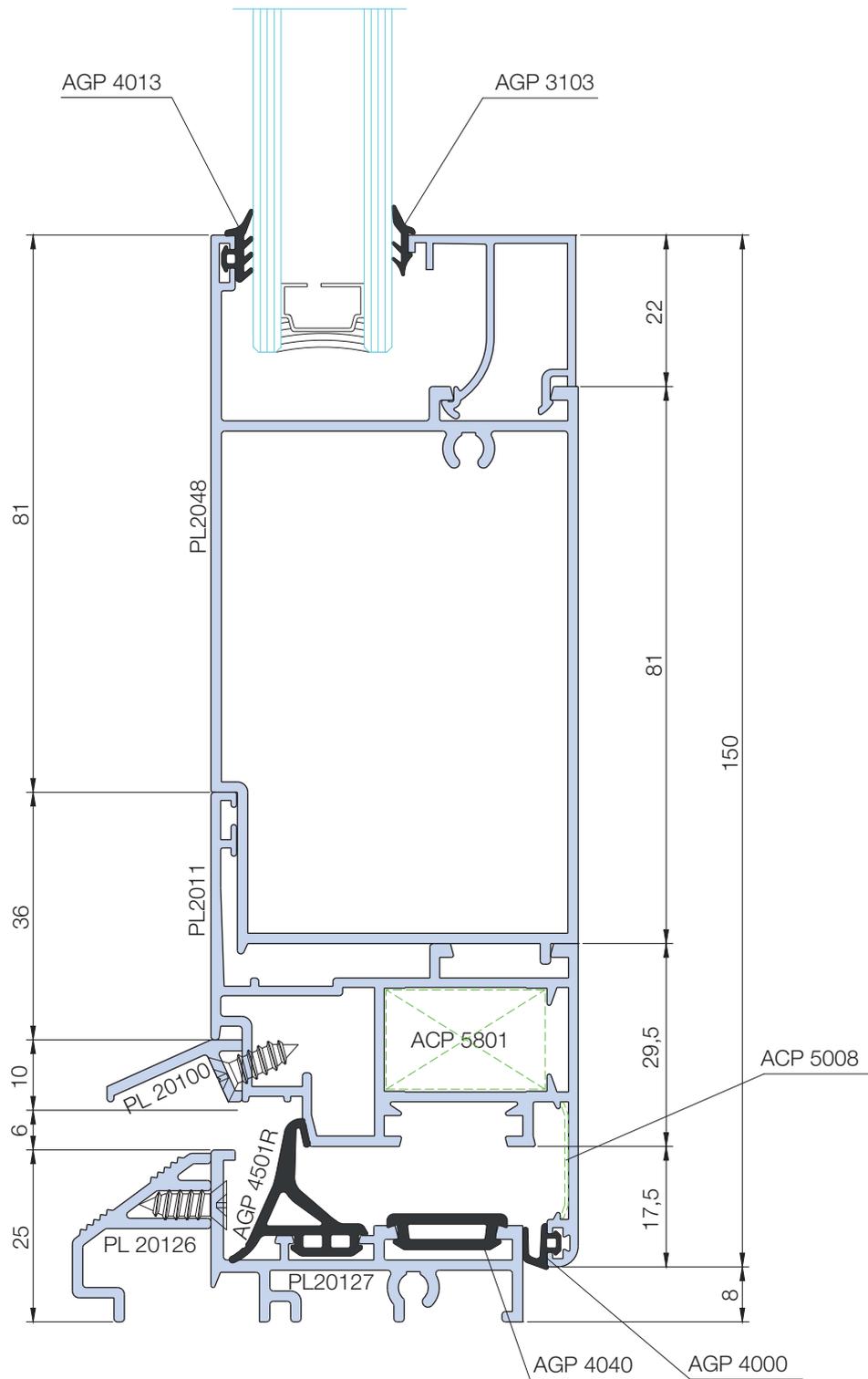
Inner opening - door - Threshold section



Nodo 31

Apertura interna - finestra a battente - nodo soglia ribassata

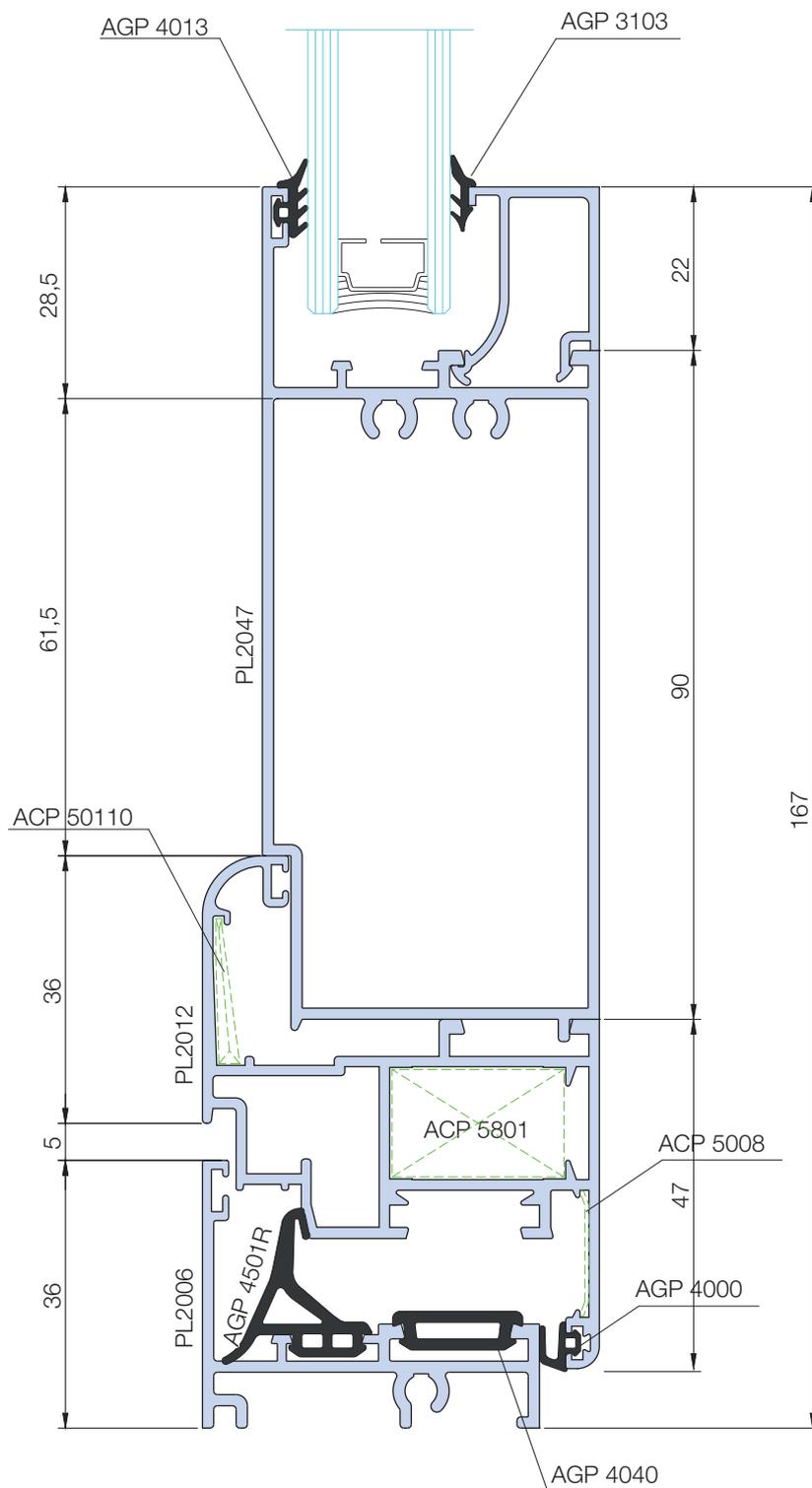
Inner opening - casement window - Lowered threshold section



Nodo 32

Apertura interna - finestra a battente - nodo soglia

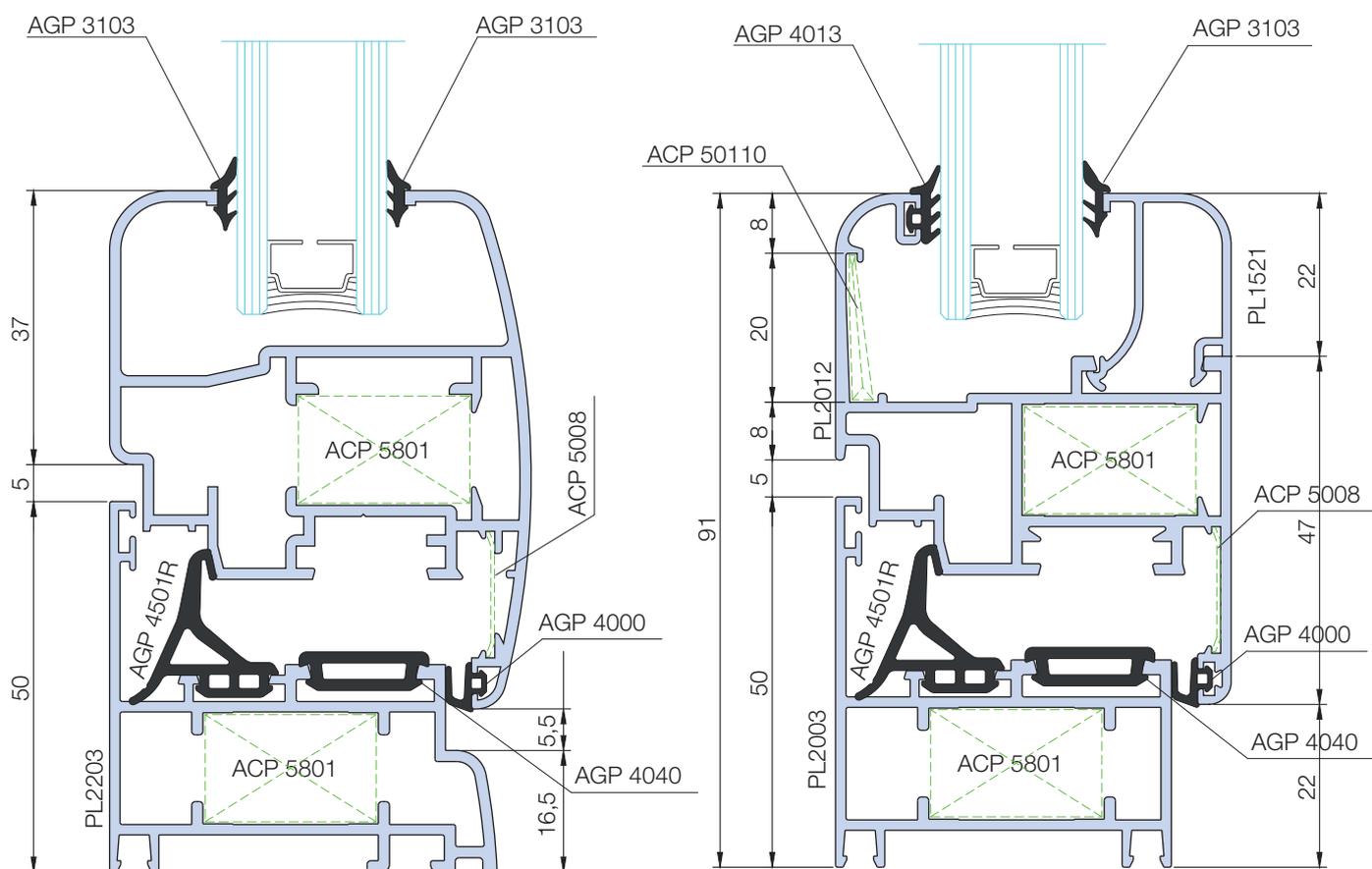
Inner opening - casement window - Threshold section



Nodo 33

Apertura interna - finestra a battente - nodo davanzale

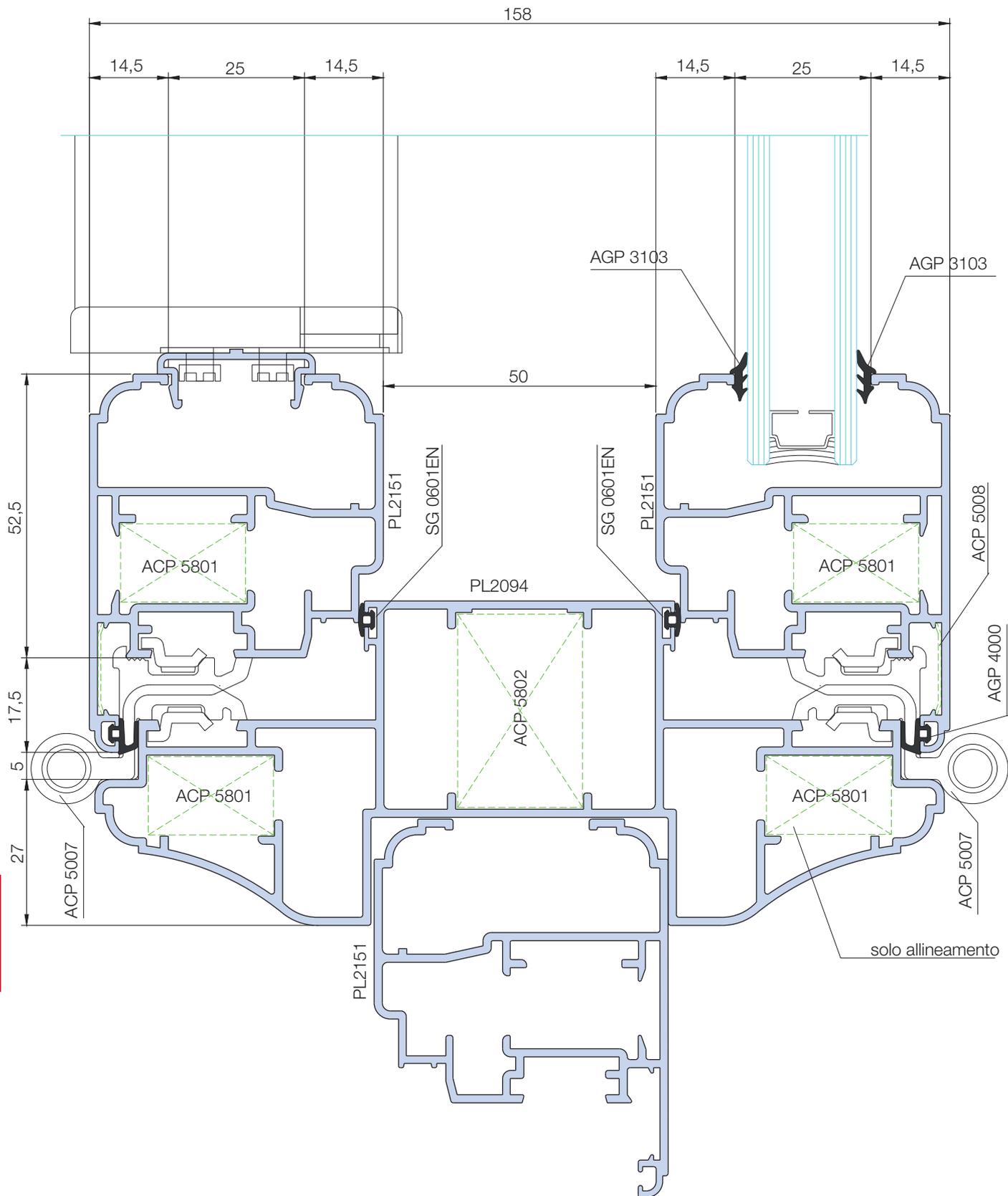
Inner opening - casement window - sill section



Nodo 34

Apertura scopello - finestra a battente con persiana

Scopello opening - casement window with blind

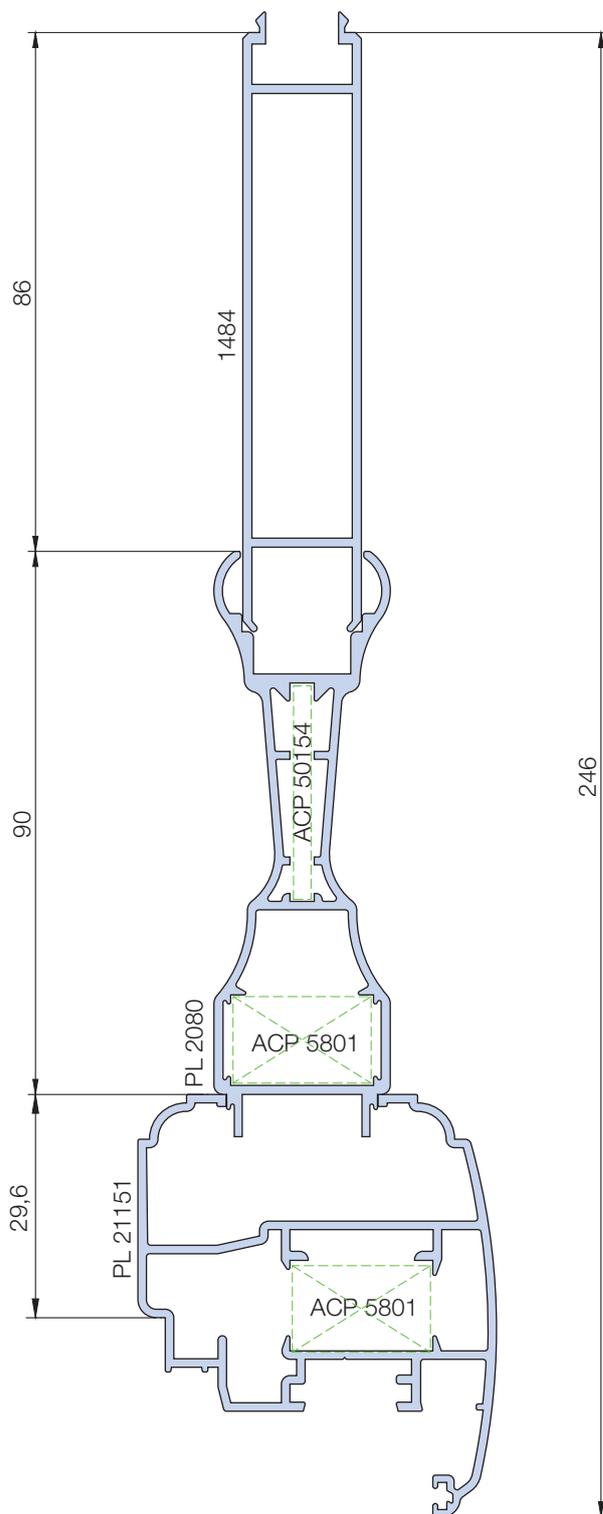
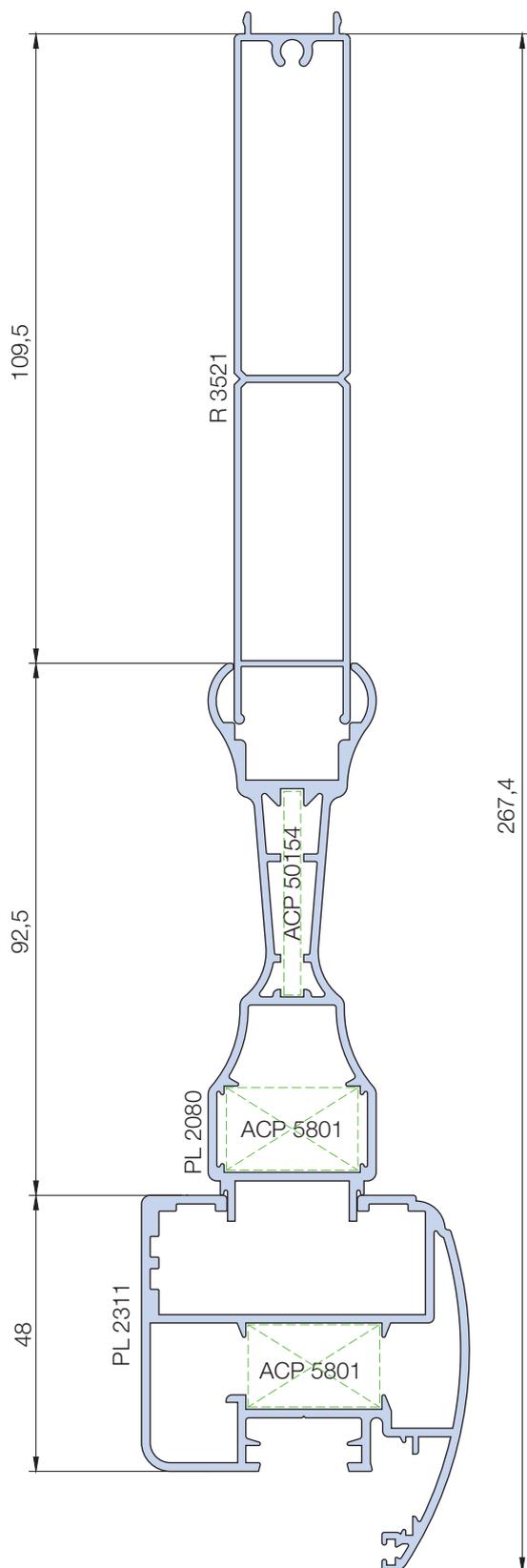


NODI E SEZIONI
 Sections

Nodo 35

Doghe e profilo cornice

Slats and frame profile

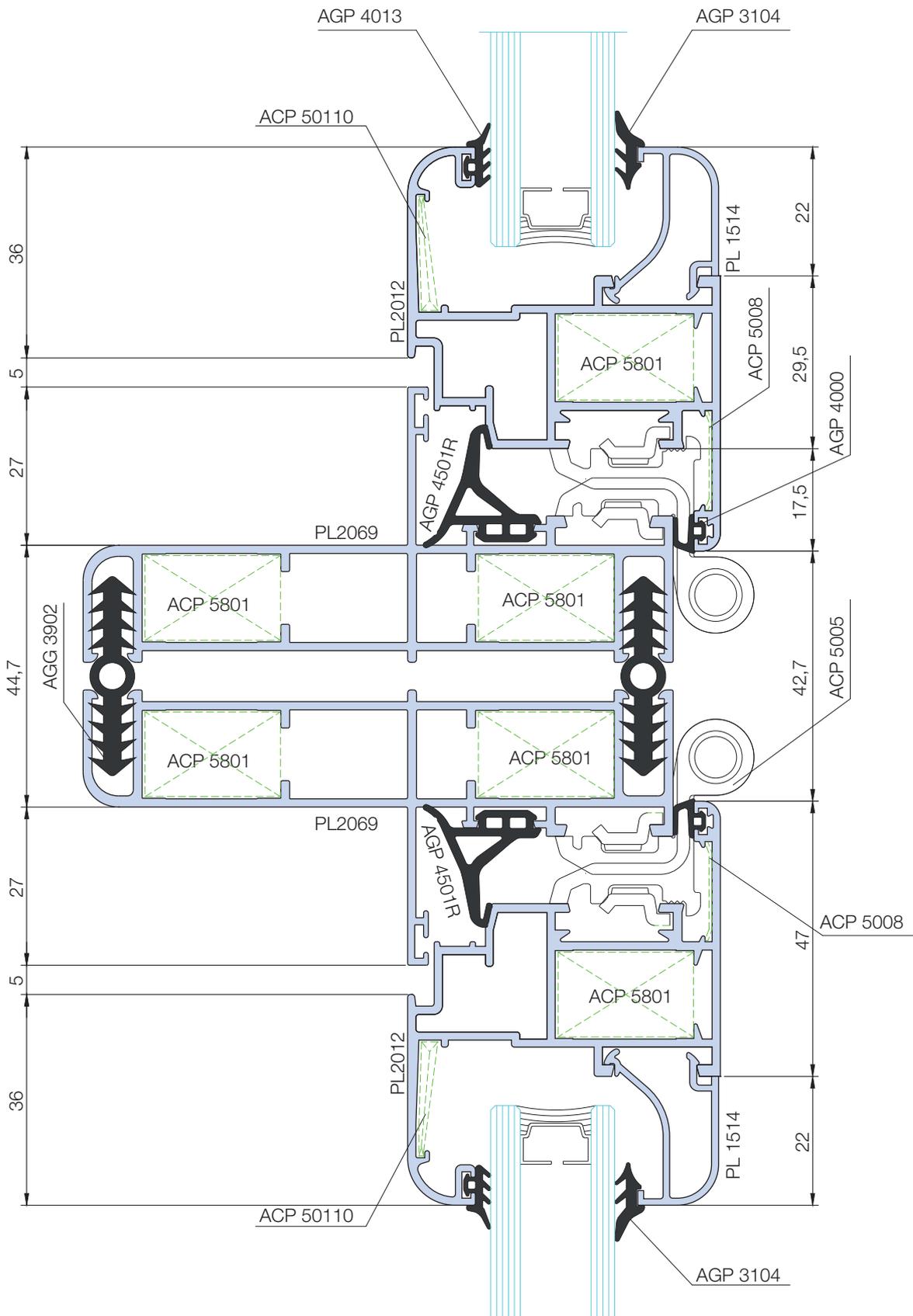


Il profilo PL 2080 può essere abbinato ad ante vetro infilare cava 25-22,5mm e può ricevere doghe di 19,5-20mm.

Nodo 36

Finestra a nastro - giunto di dilatazione

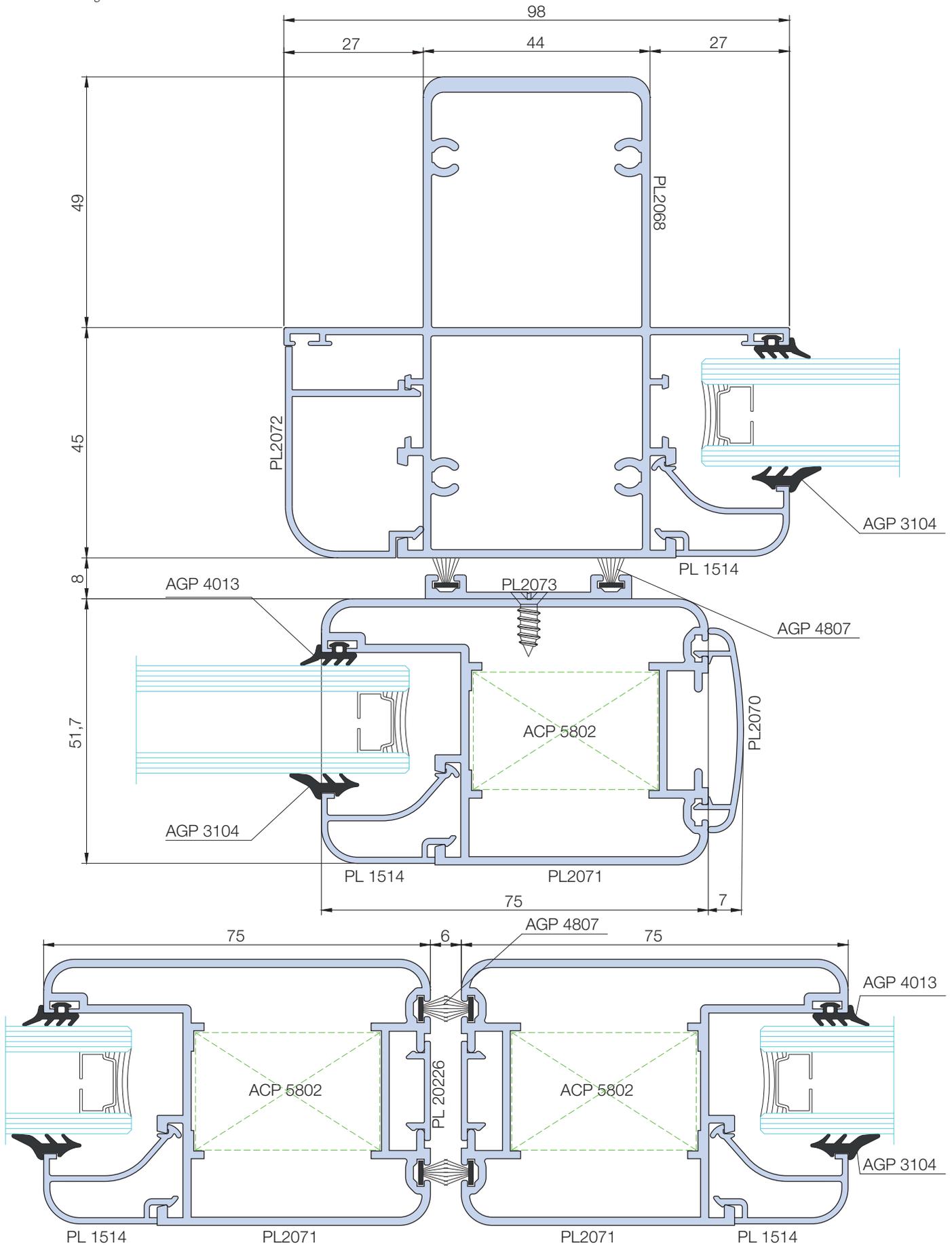
Ribbon window - expansion joint



Nodo 37

Porta scorrevole automatica - nodo laterale e centrale

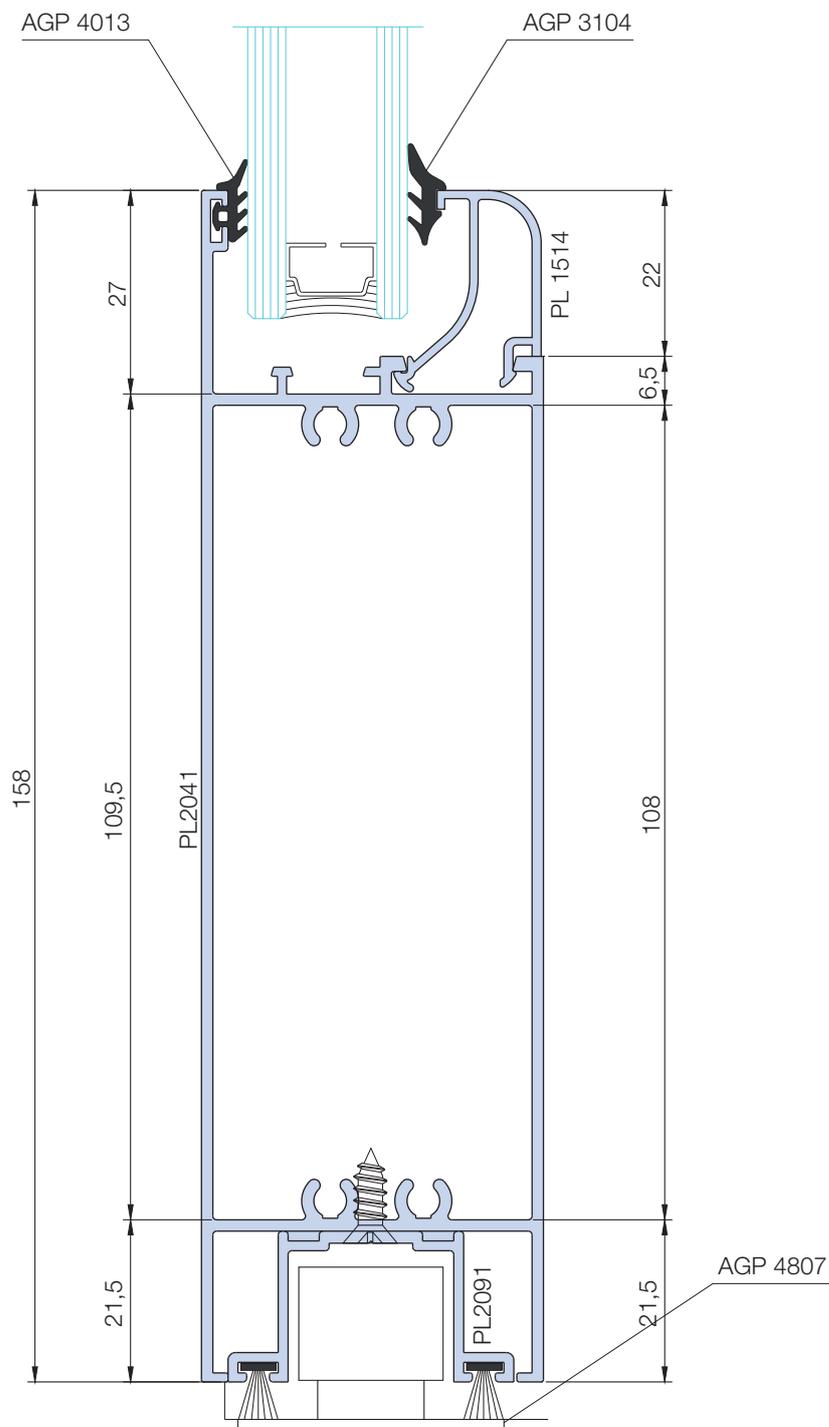
Automatic sliding door - lateral and central section



Nodo 38

Porta scorrevole automatica - nodo soglia

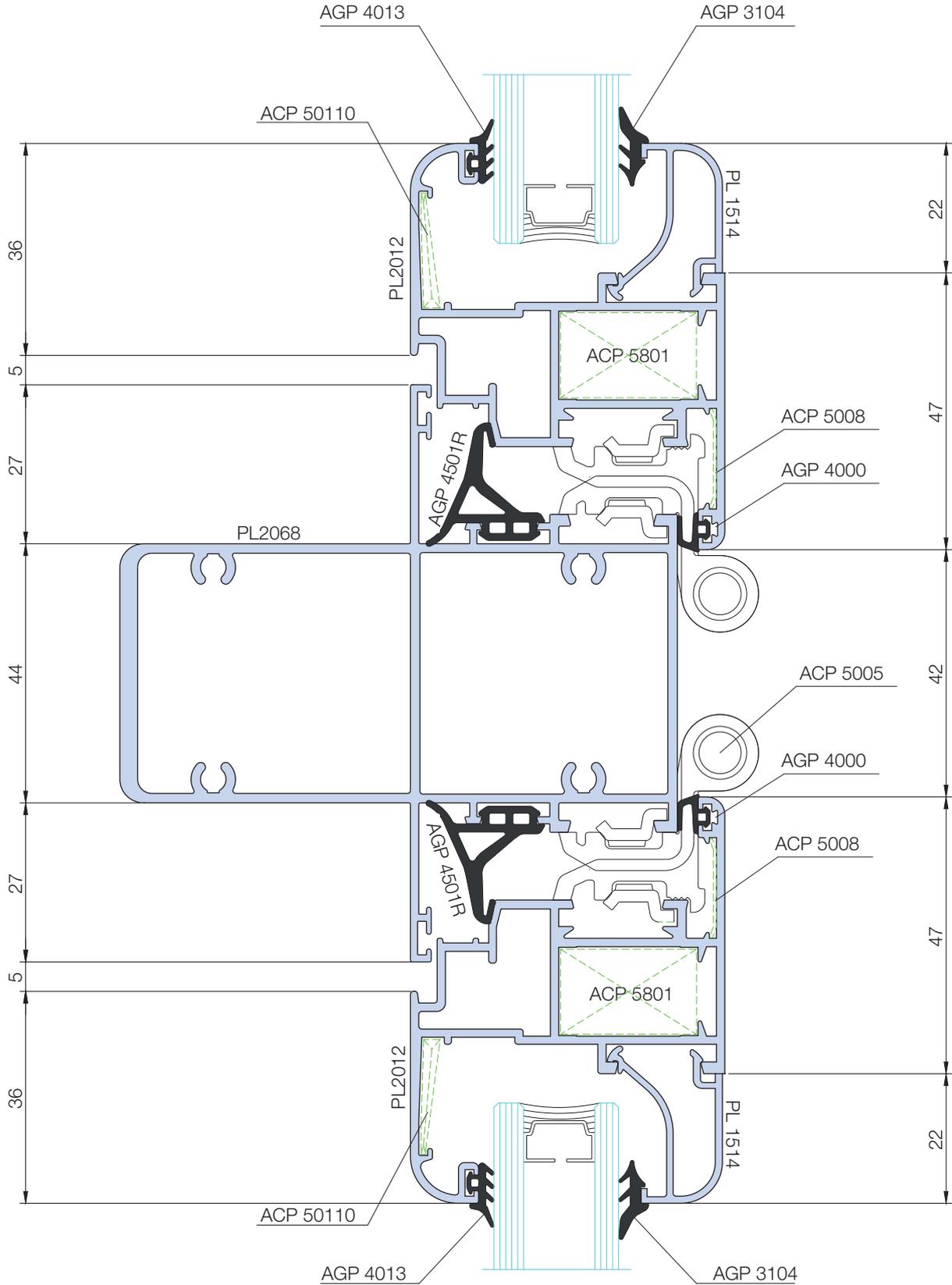
Automatic sliding door - threshold section



Nodo 39

Finestra a nastro - pilastro con due apribili

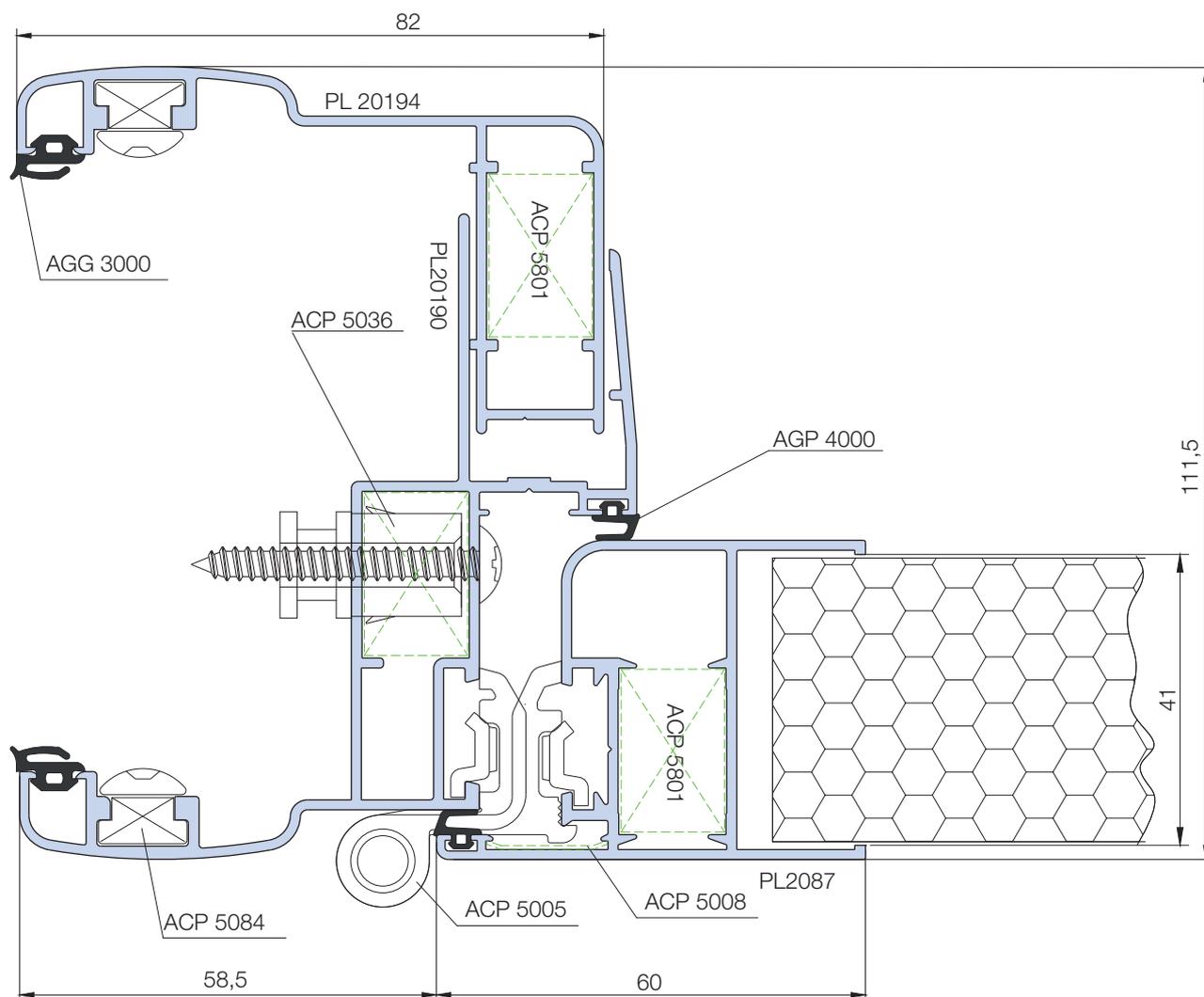
Ribbon window - expansion joint



Nodo 40

Porta interna - nodo laterale

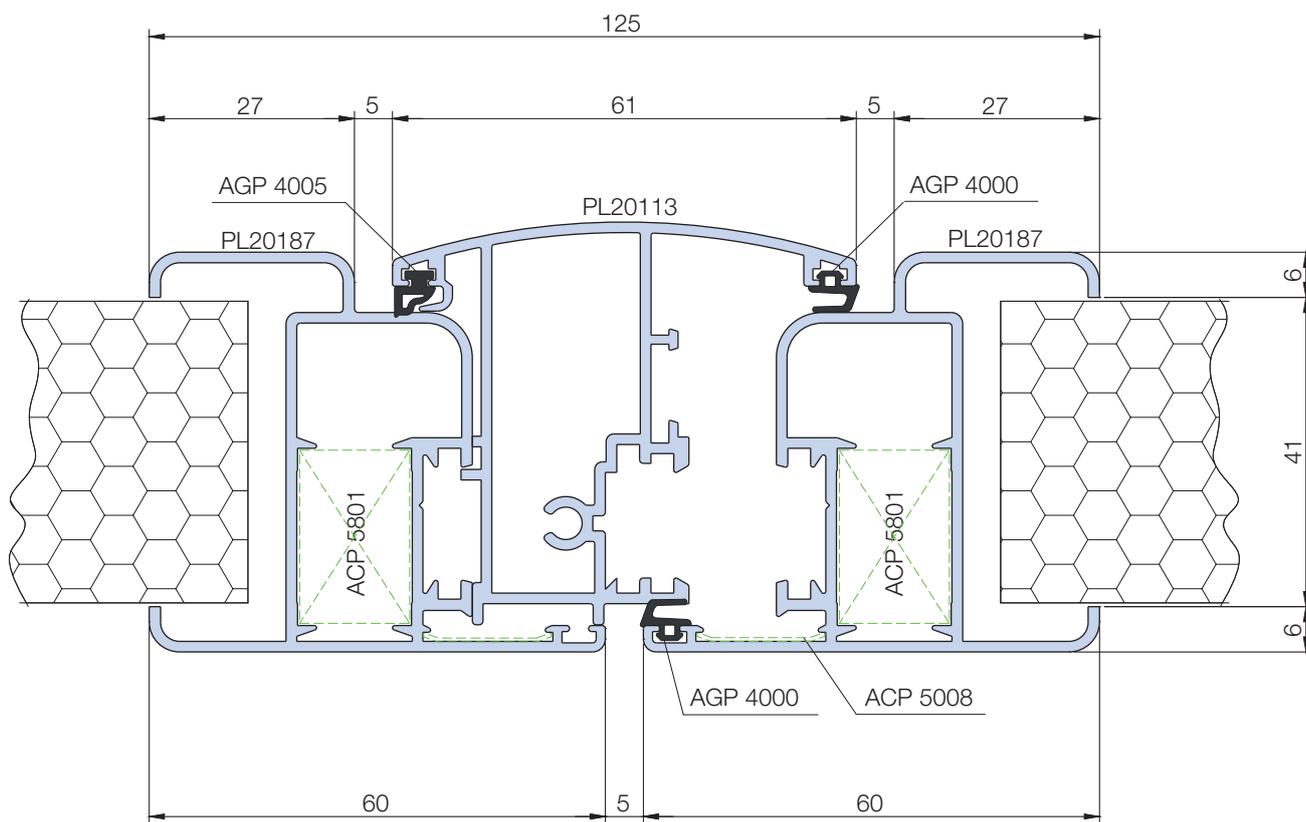
Interior door - lateral section



Nodo 41

Porta interna - nodo centrale

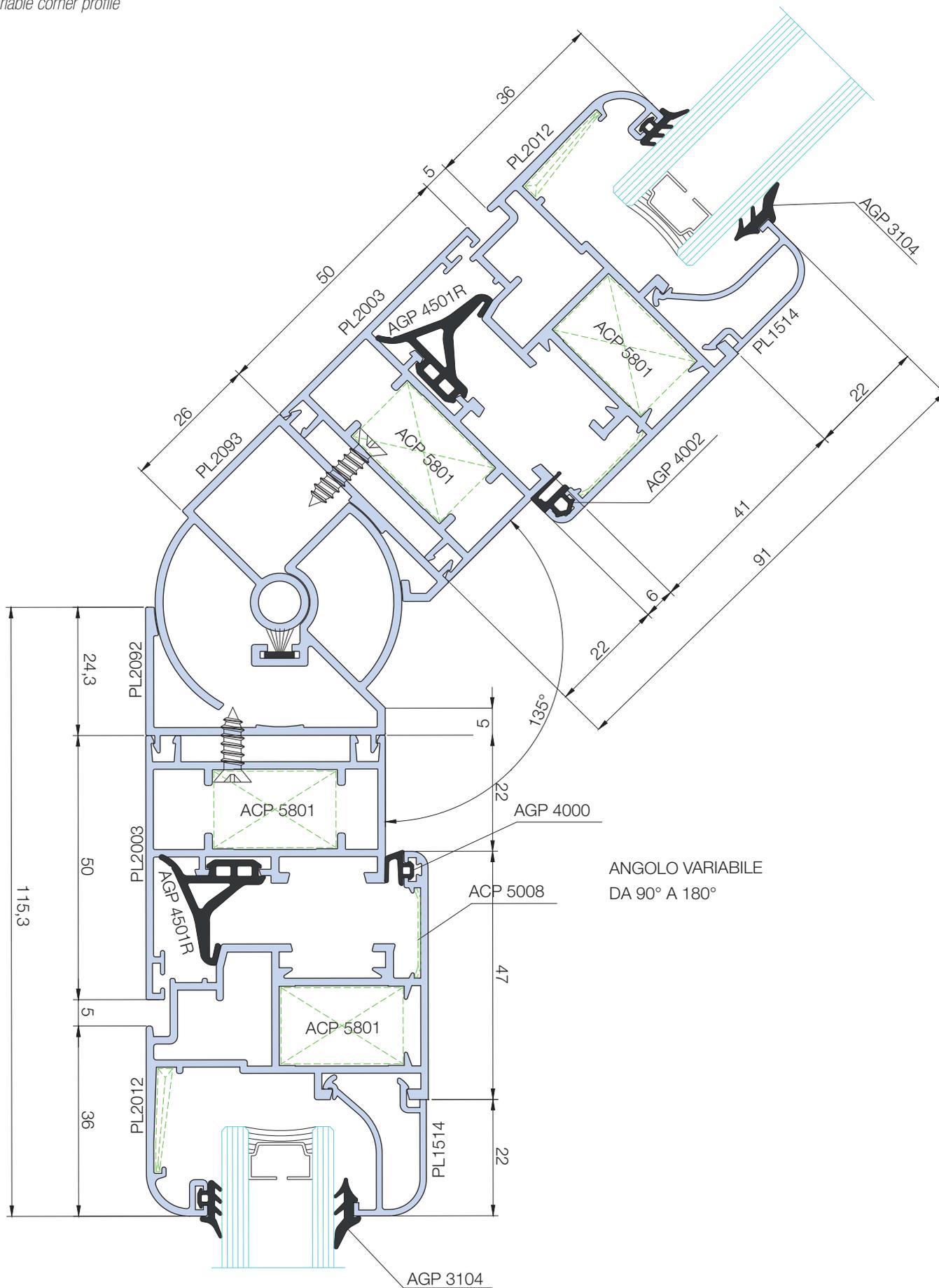
Interior door - central section



Nodo 42

Profilo angolo variabile

Variable corner profile

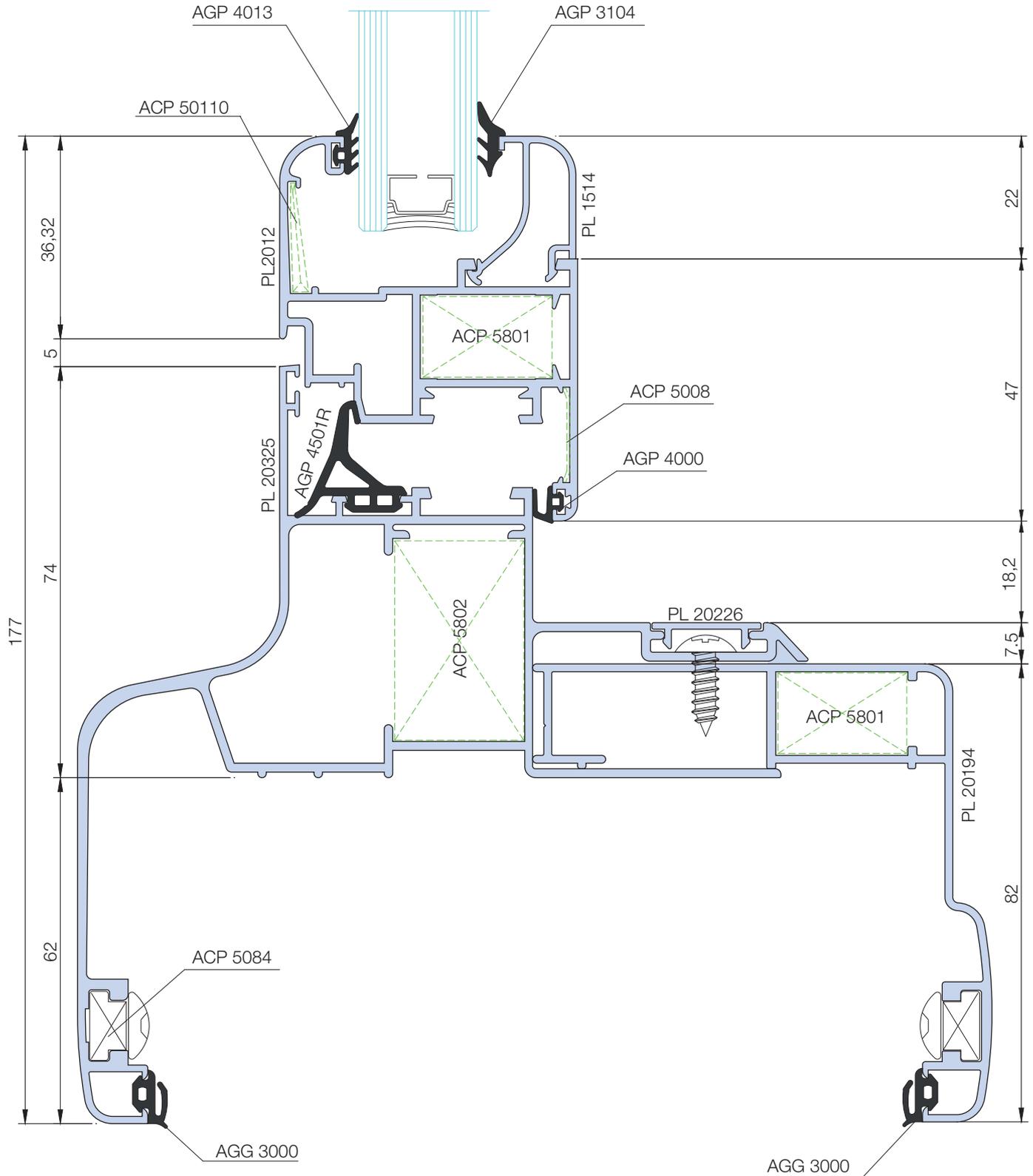


NODI E SEZIONI
Sections

Nodo 43

Telaio capannoni con imbotte - nodo perimetrale

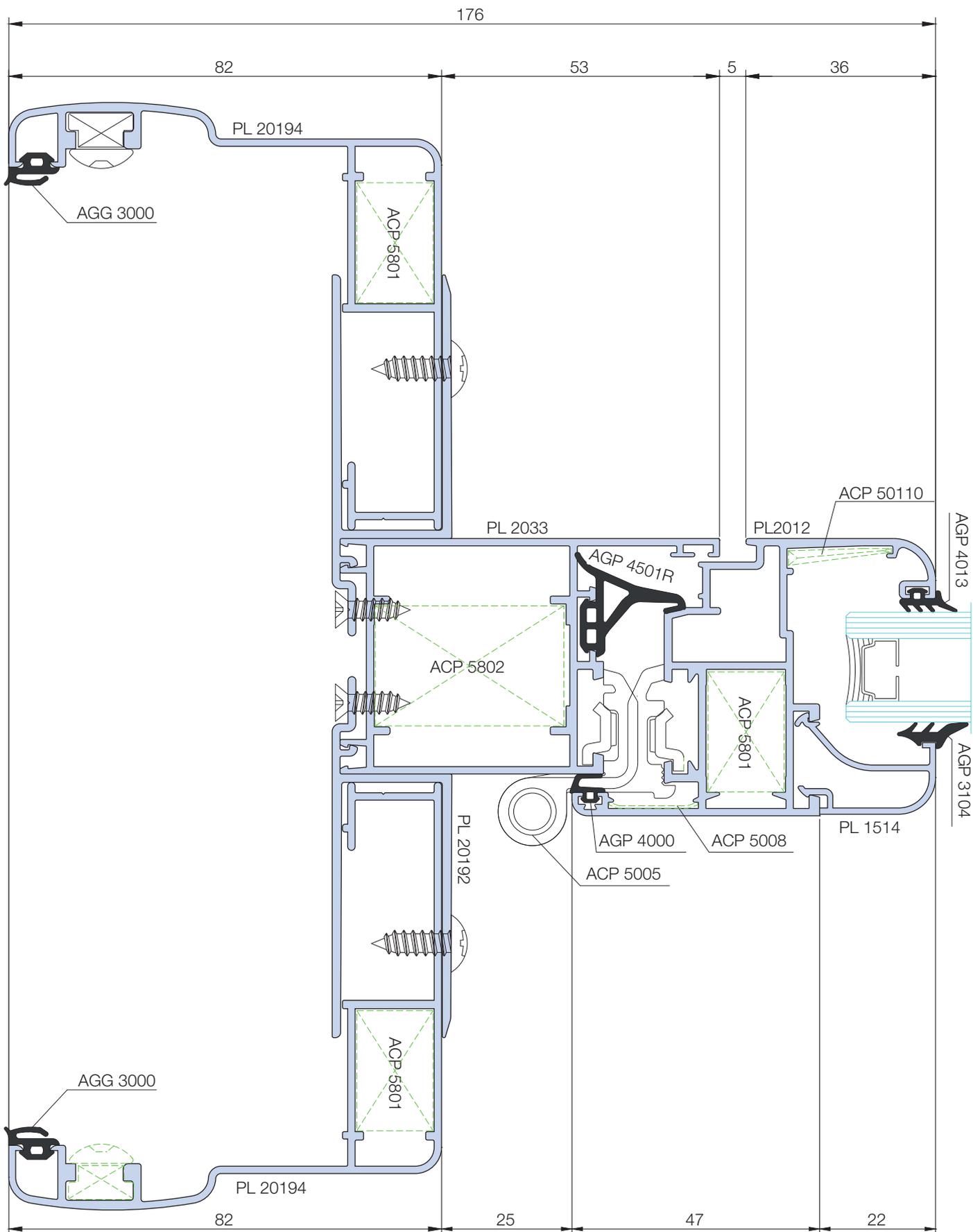
Industrial shed with double wall profile - perimetral section



Nodo 44

Telaio porta imbotti - nodo perimetrale

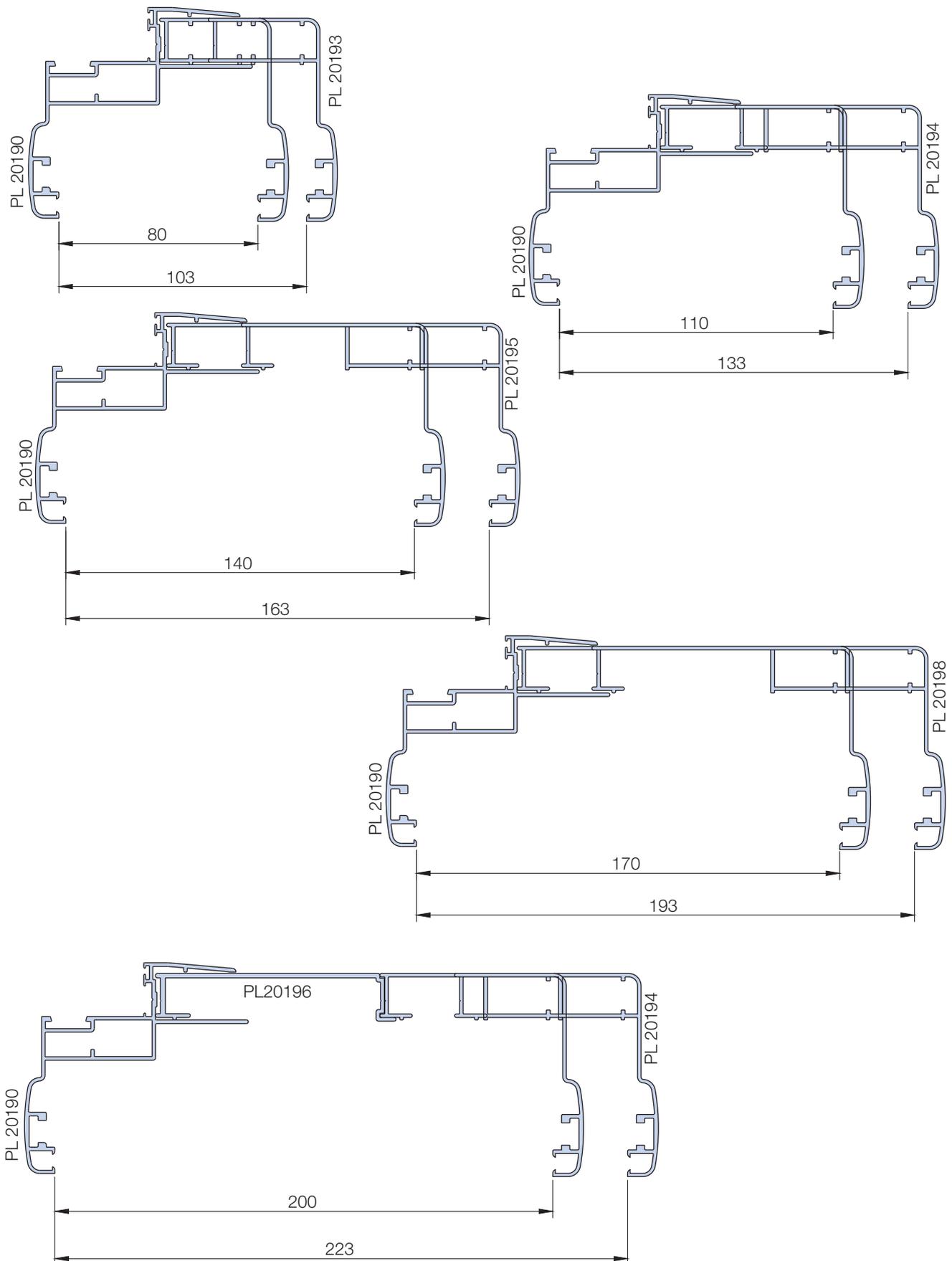
Industrial shed with double wall profile - perimetral section



Nodo 45

Imbotte porte interne - range d'applicazione

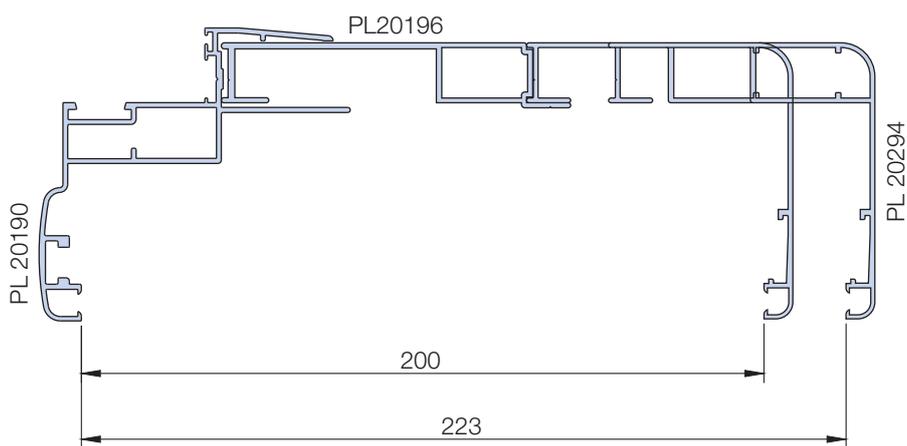
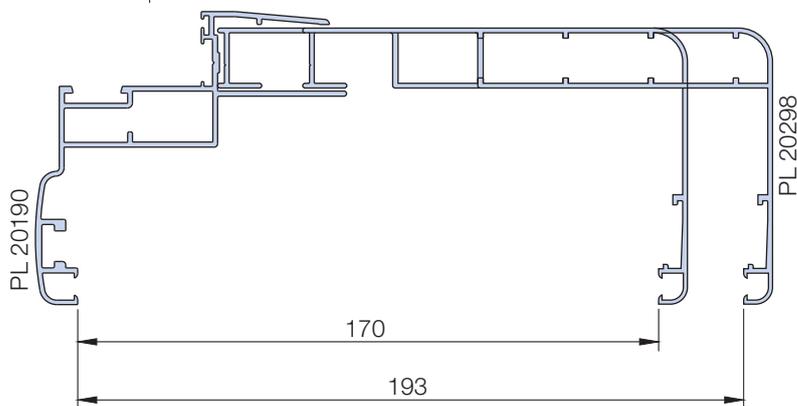
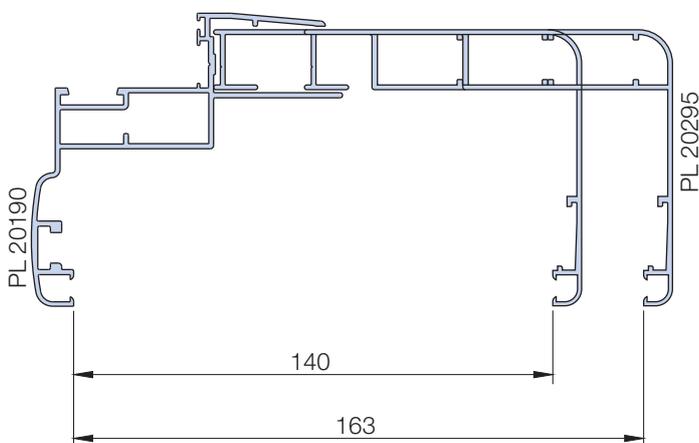
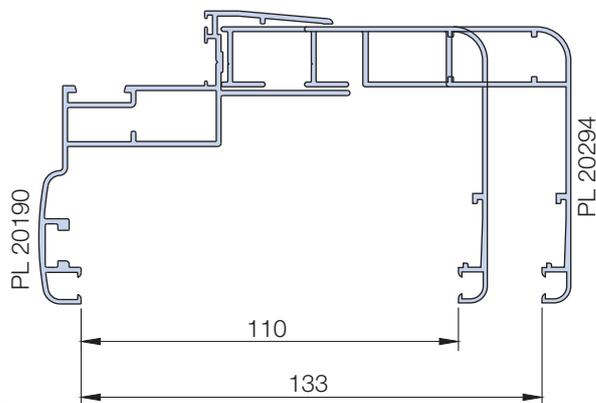
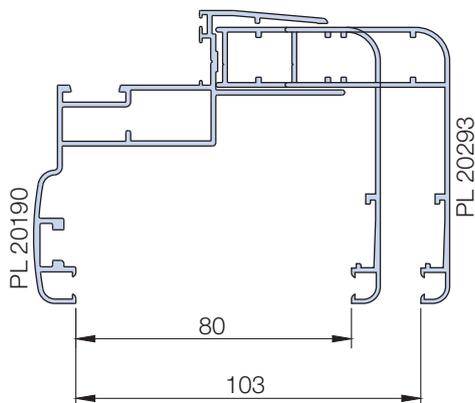
Industrial shed with double wall profile - wall range



Nodo 46

Imbotite porte interne - range d'applicazione

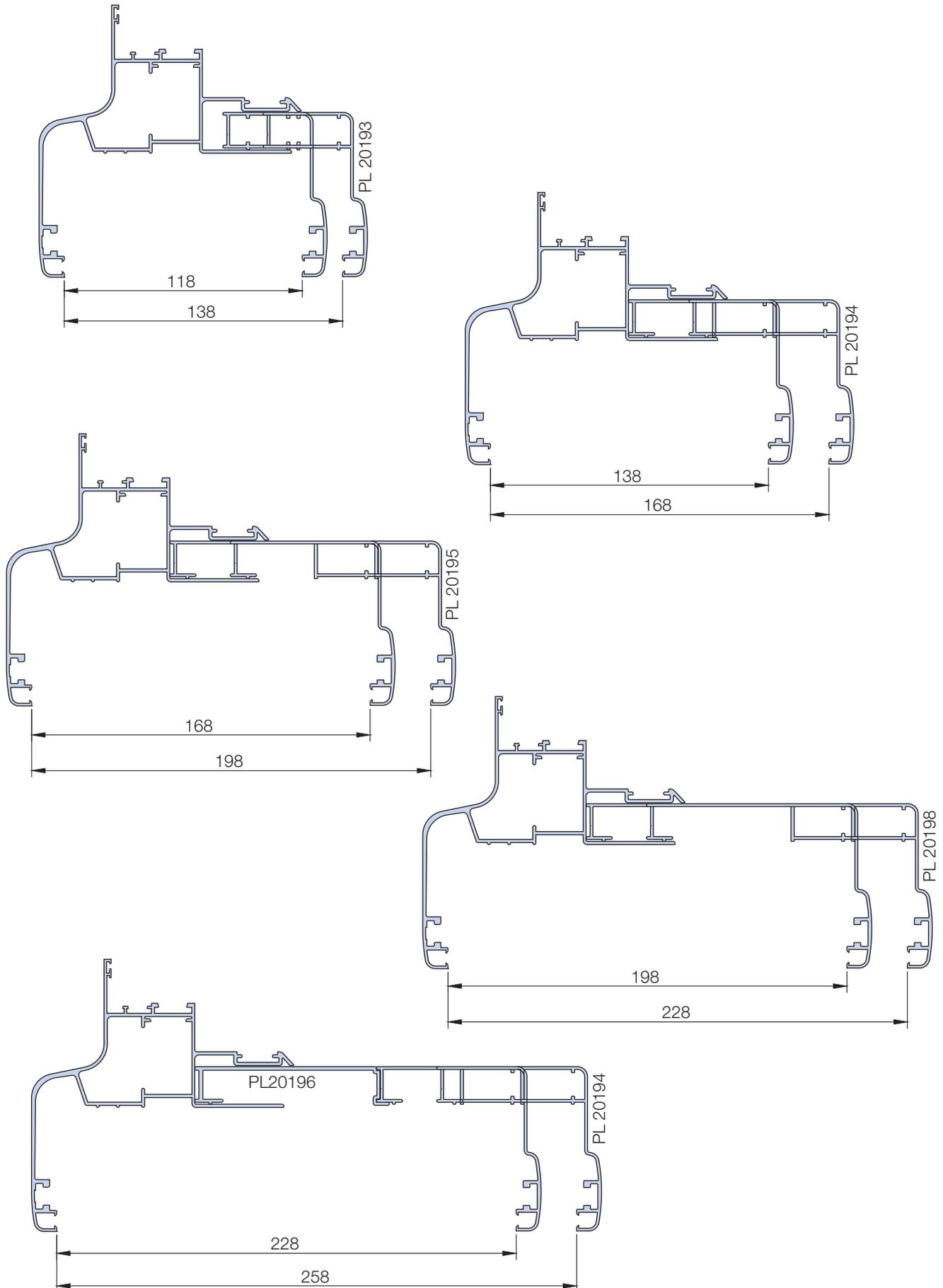
Industrial shed with double wall profile - wall range



Nodo 47

Imbotte porte interne - range d'applicazione

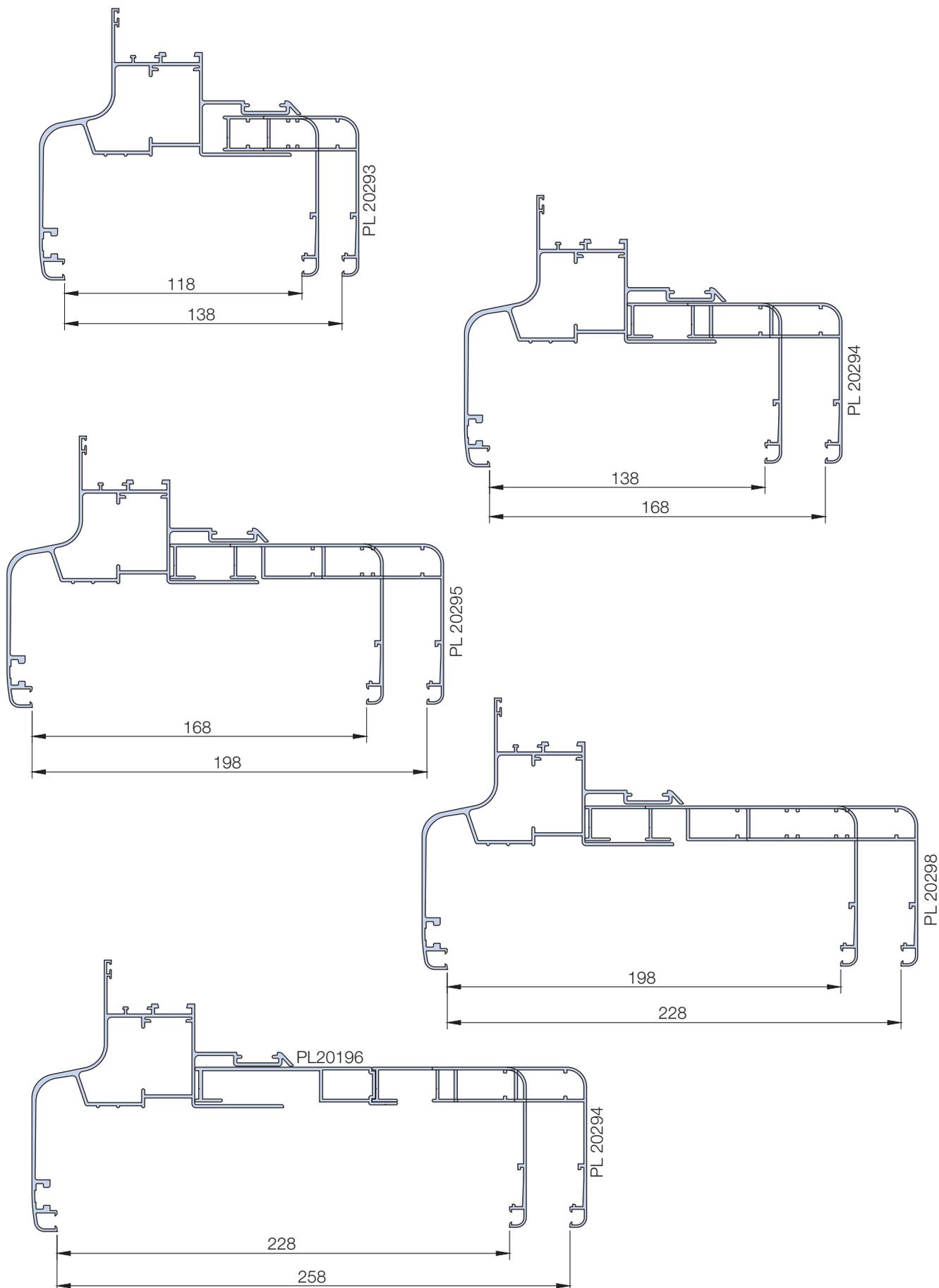
Industrial shed with double wall profile - wall range



Nodo 48

Imbotte porte interne - range d'applicazione

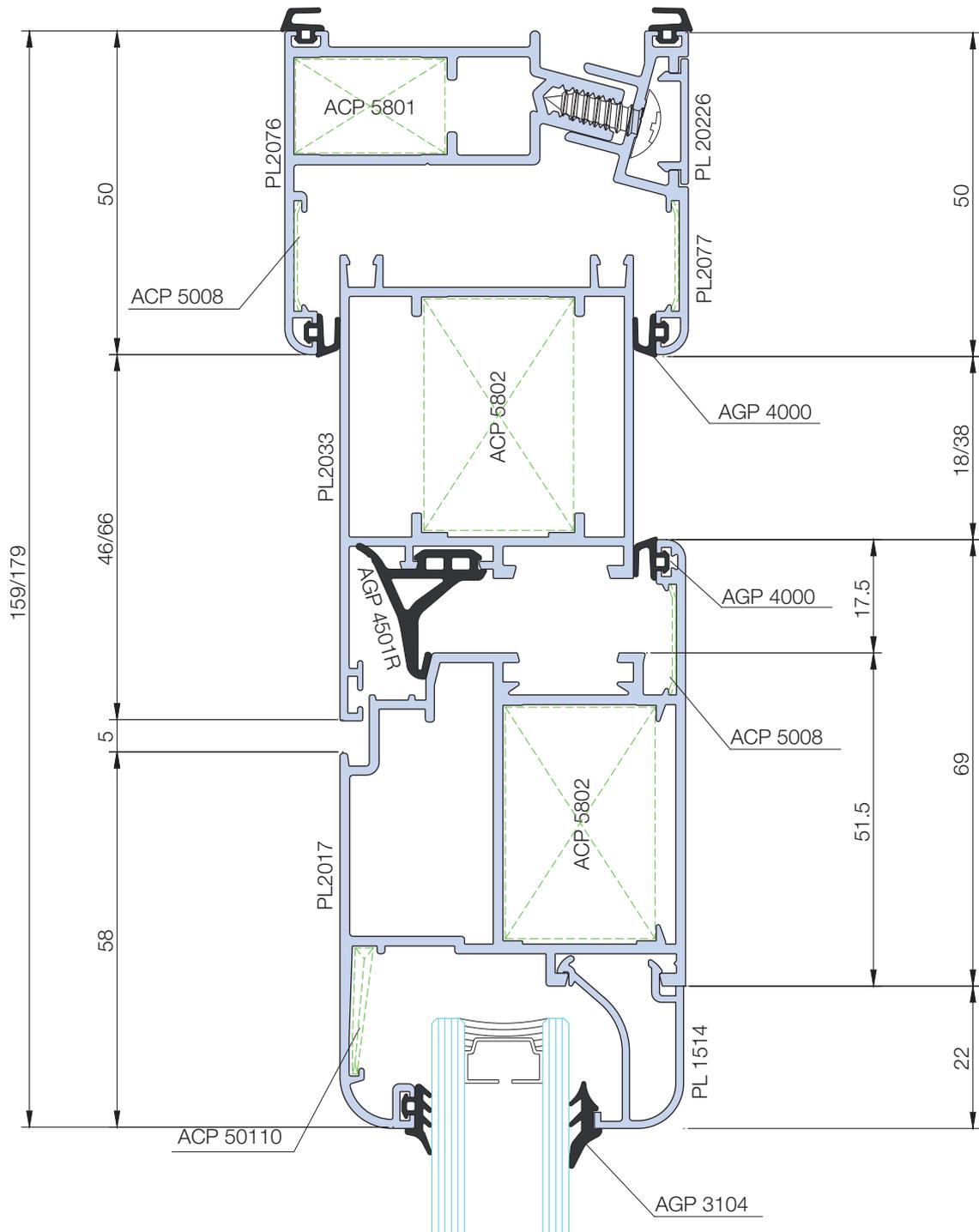
Industrial shed with double wall profile - wall range



Nodo 49

Finestra a nastro - nodo superiore

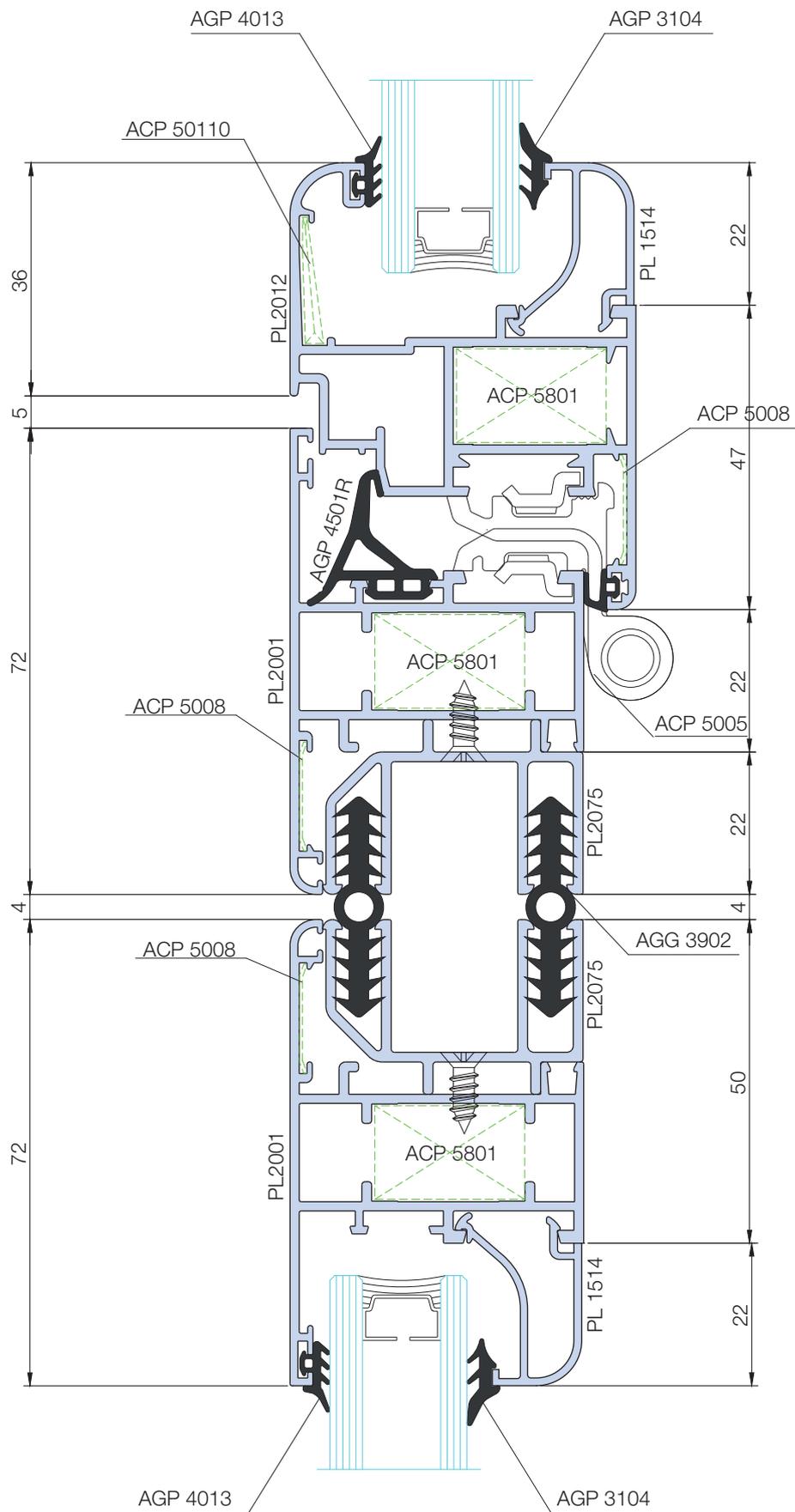
Ribbon window - top node



Nodo 50

Finestra a nastro - giunto di dilatazione

Ribbon window - expansion joint

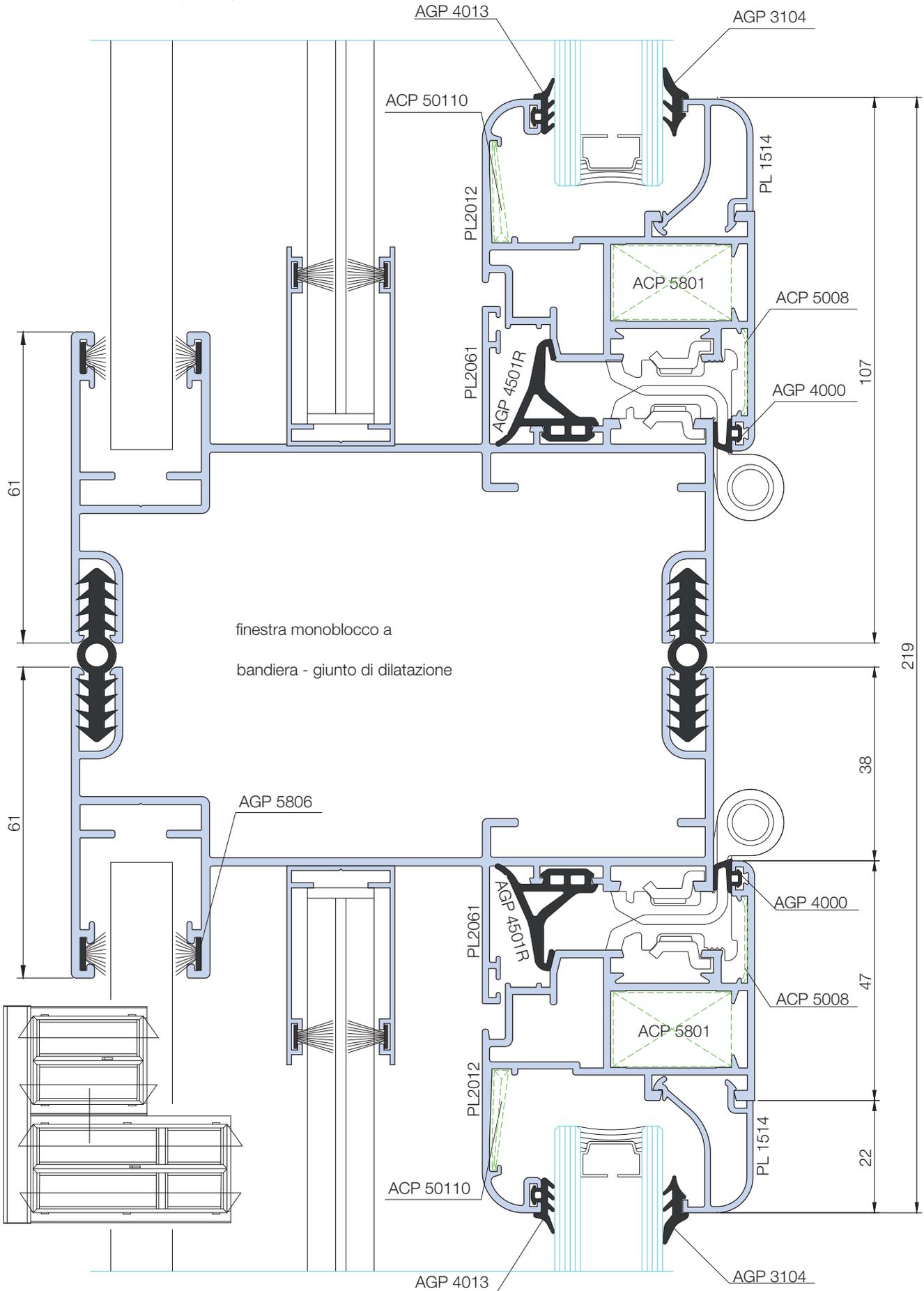


Nodo 51

Finestra monoblocco a bandiera - giunto di dilatazione

Single unit casement window - expansion joint

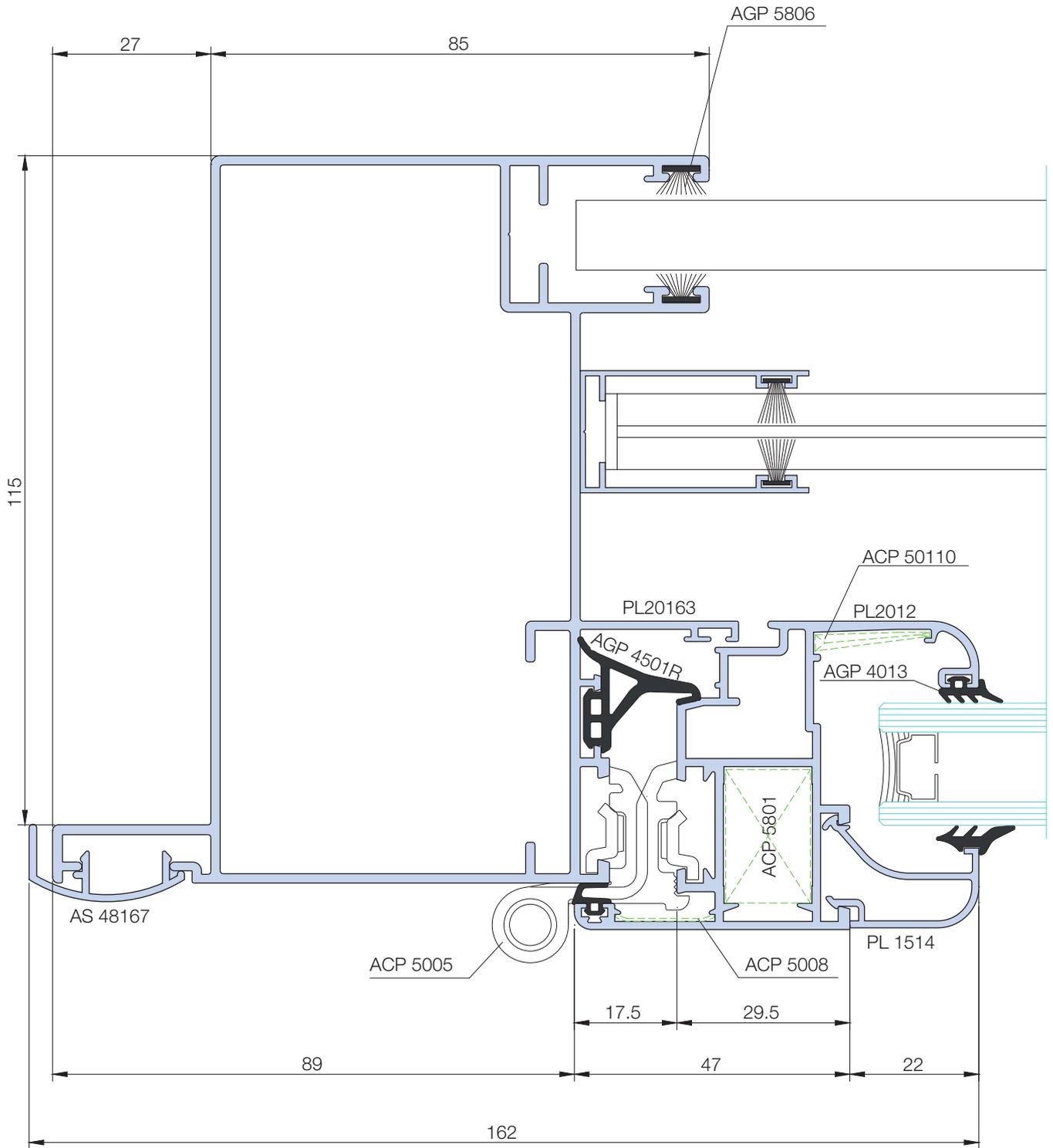
ATTENZIONE
NODO FUORI SCALA



Nodo 52

Monoblocco chiuso con zanzariera - nodo laterale

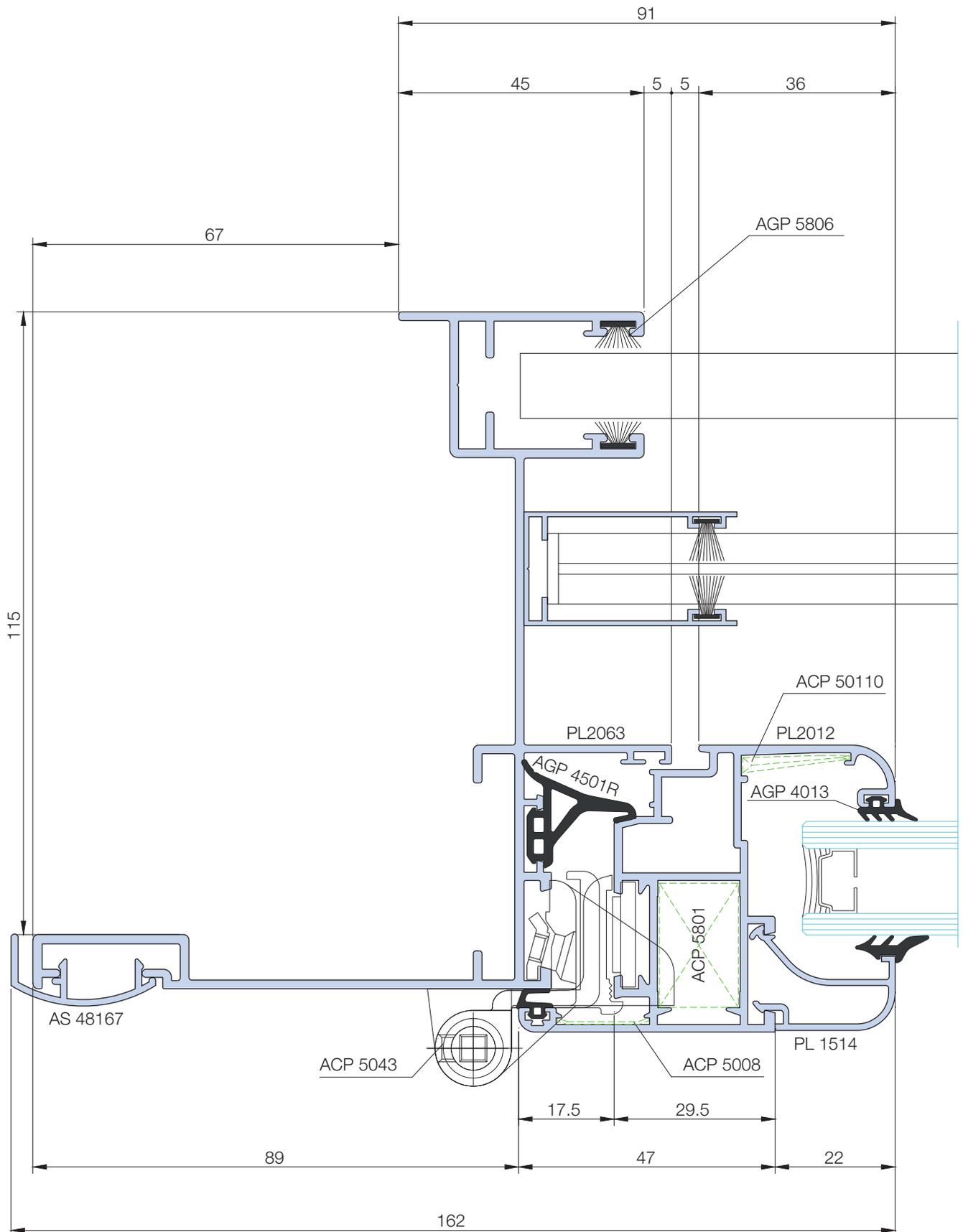
Close single unit with mosquito net - lateral section



Nodo 53

Monoblocco aperto anta ribalta con zanzariera - nodo laterale

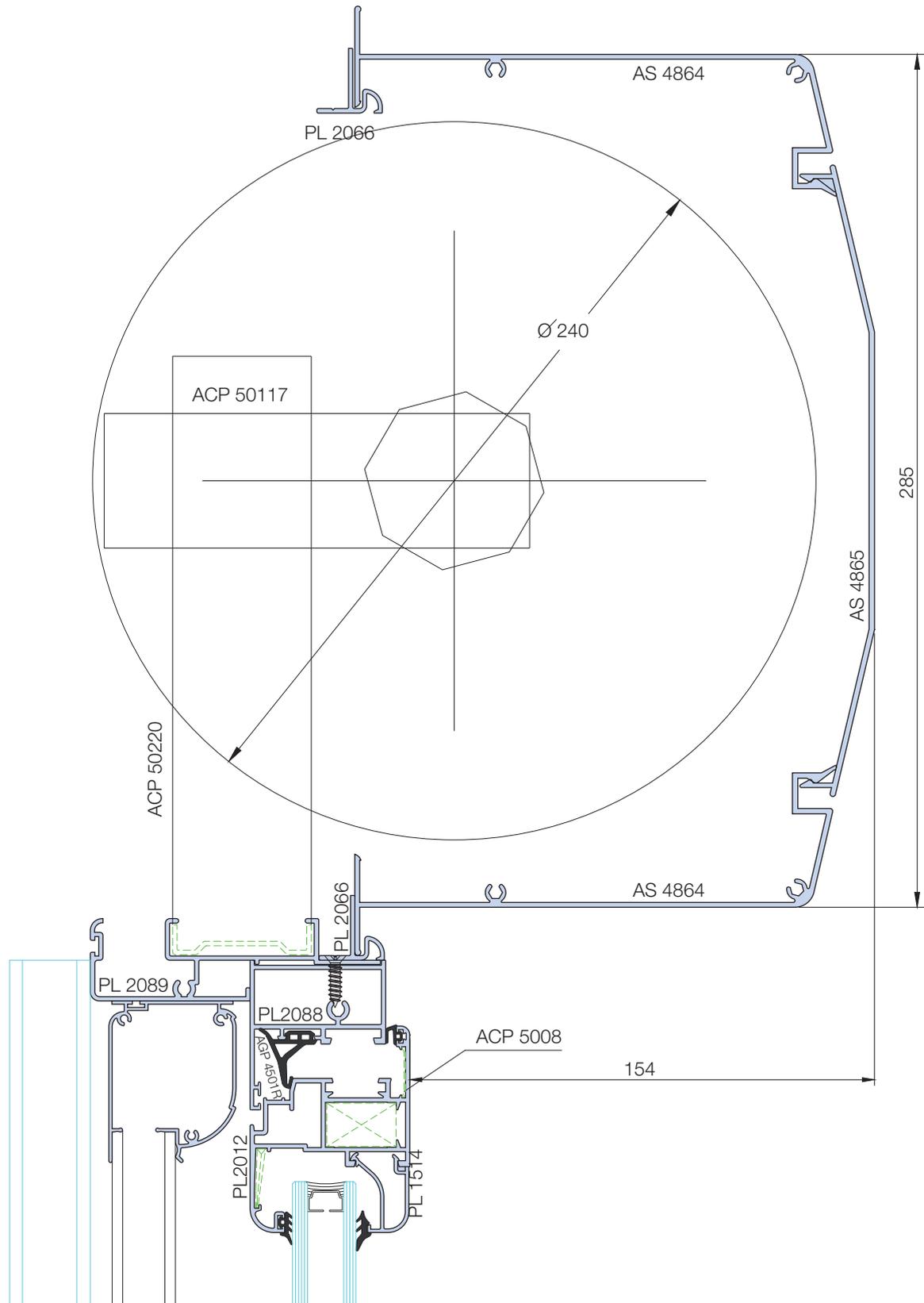
Open Tilt & turn single unit casement window with mosquito net - lateral section



Nodo 54

Cassonetto monoblocco con zanzariera

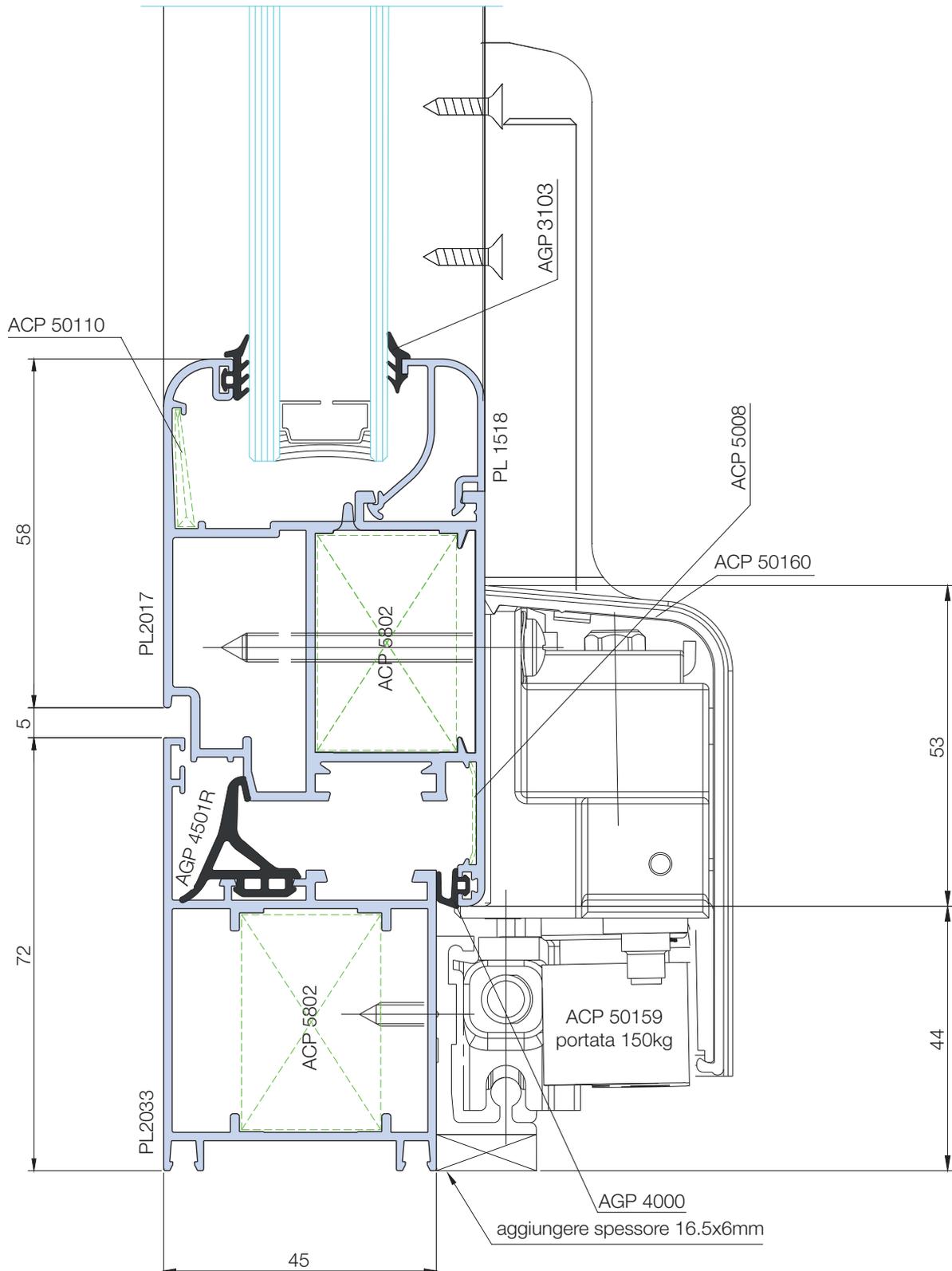
Single unit with mosquito net



Nodo 55

Scorrevole parallelo - nodo inferiore

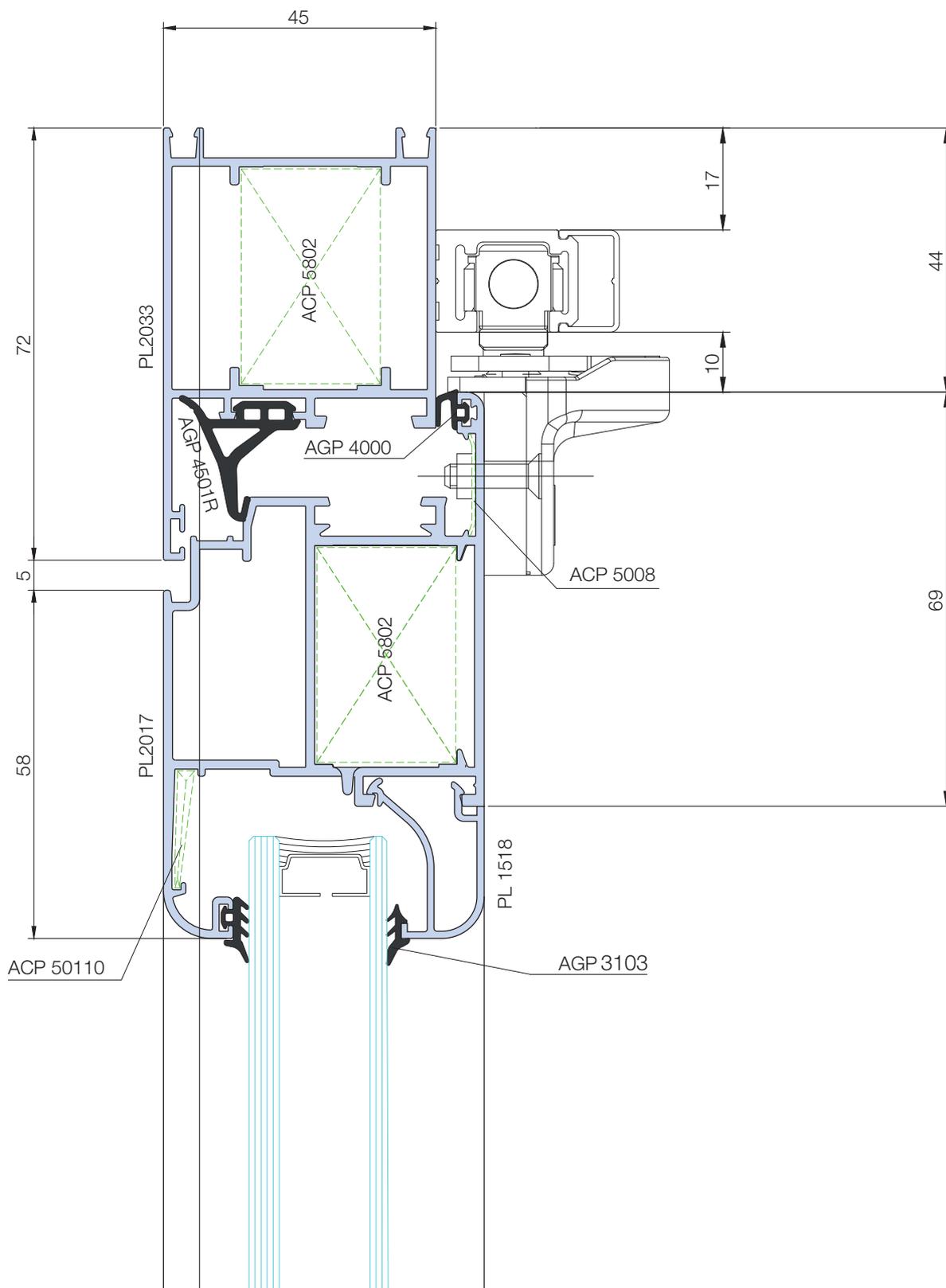
Parallel sliding - lowered section



Nodo 56

Scorrevolo parallelo - nodo superiore

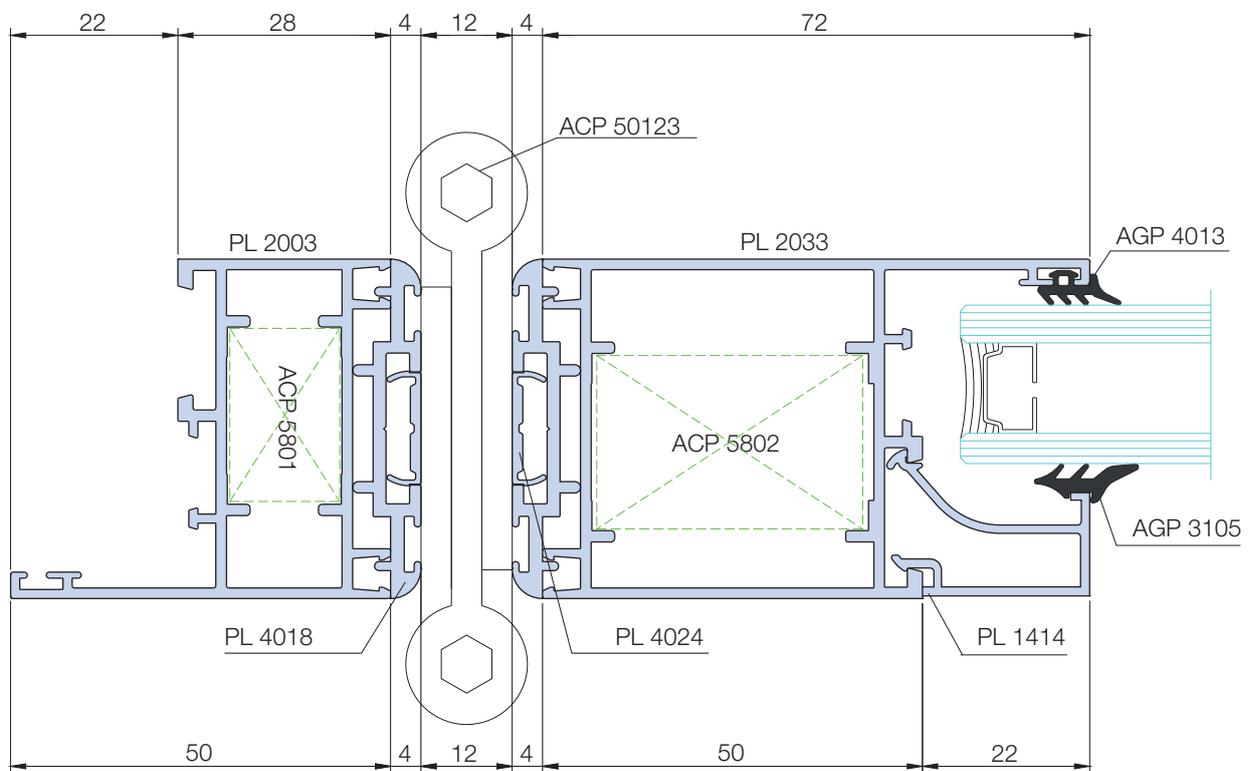
Parallel sliding - top section



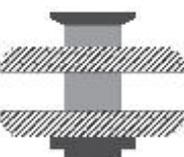
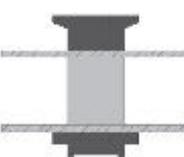
Nodo 57

Apertura va e vieni - nodo laterale

Up and coming opening - laterla section



ELENCO ATTEZZATURE

	<p>punzonatrice <i>punching machine</i></p>		<p>pantografo / fresa /centro di lavoro <i>pantograph / cutter / working center</i></p>
	<p>MCT PL 01 PT</p> <p>Gruppo frese per Planet 45 escluso vetro infilare PL2040, PL2041, PL20138</p> <p><i>Cutting machine for the Planet 45 serie, except glass insert profiles</i></p>		<p>MCT PL 350 431/45</p> <p>Fresa per intestatura fer-mavetri arrotondati qualora si volessero tagliare a 45° senza utilizzare gli angoletti. Il kit è utilizzabile sulle intestatrici EM140G</p> <p><i>Cutter stack for rounded glazing beads when a 45° cut is desired without using the angles the kit can be used on EM140G milling machines</i></p>
	<p>MCT PL 02 PT</p> <p>Gruppo frese per serie Planet 45 solo profili vetro ad infilare modanati tipo: PL2152, PL2153, PI 21148</p> <p><i>Cutting machine for the Planet 45 serie, glass insert and molded profiles only</i></p>		<p>MCT PL JOLLY</p> <p>Punzonatrice parziale per eseguire tutte le lavorazioni specifiche della serie Planet: 45, 50TT, 62TT, Matic, Elite Door e parziali Nathura, Slide, squadrette e aerazione vetro su anta</p> <p><i>This punching machine performs all the specific machining for the Planet range: 45, 50TT, 62TT, Matic, Elite Door and partials Nathura and Slide</i></p>
	<p>MCT PL 06 PT</p> <p>Gruppo frese per serie Planet 45 solo vetro ad infilare tipo: PL2052, PL20148</p> <p><i>Cutting machine for the Planet 45 serie, glass insert profiles only</i></p>		<p>MCT PL 402 01 96</p> <p>Polmoncino per lavorazione squadretta a spinare Planet</p> <p><i>Pneumatic machine for machining brackets to be pinned of the Planet range</i></p>
	<p>MCT PL 10 PT</p> <p>Gruppo frese per serie Planet 45 porte interne tipo PL20152</p> <p><i>Cutting machine for the Planet 45 serie for interior door profiles</i></p>		<p>MCT PL 402 01 98</p> <p>Polmoncino per lavorazione squadretta con pulsante da 10,5 mm</p> <p><i>Pneumatic machine for machining brackets with pushbutton 10.5mm</i></p>
	<p>MCT PL 14460</p> <p>Punzonatrice completa per eseguire tutte le lavorazioni specifiche delle serie: Planet 45, 50 PLUS, 62 PLUS, 72 PLUS, Nathura70, 82, 92 Matic 50 PLUS, 62 PLUS, 72 PLUS, Elite door 72, telai Slide 80/160, Slidewood 160</p> <p><i>Full punching for machining for: Planet 45, 50TT, 62TT, 72HT Nathura70, 82, 92, Matic 50 plus, 62 plus, 72 plus, Elite Door 72 and Slide 80/106, Slidewood 160</i></p>		



EM 140G

Intestatrici per fermavetri arrotondati con morsa e gruppo frese

Glazing bead fixing machine



MCT PL 400 03 63

Controsagoma per intestatura fermavetri arrotondati qualora si volessero tagliare a 45° senza utilizzar gli angoletti. Il kit è utilizzabile sulle intestatrici EM140G

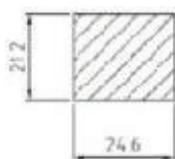
Counterprofile for rounded glazing beads when a 45° cut is desired without using the angles the kit can be used on EM140G milling machines



ACP 6000

Kit controsagome per troncatrici Emmegi

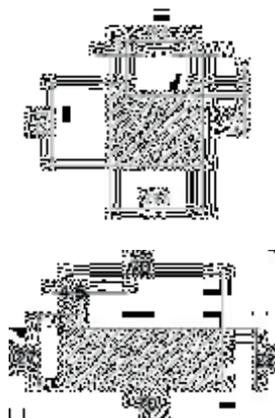
Shape Kit for Emmegi machine



ACP 6001

Kit controsagome per troncatrici (escluso Emmegi)

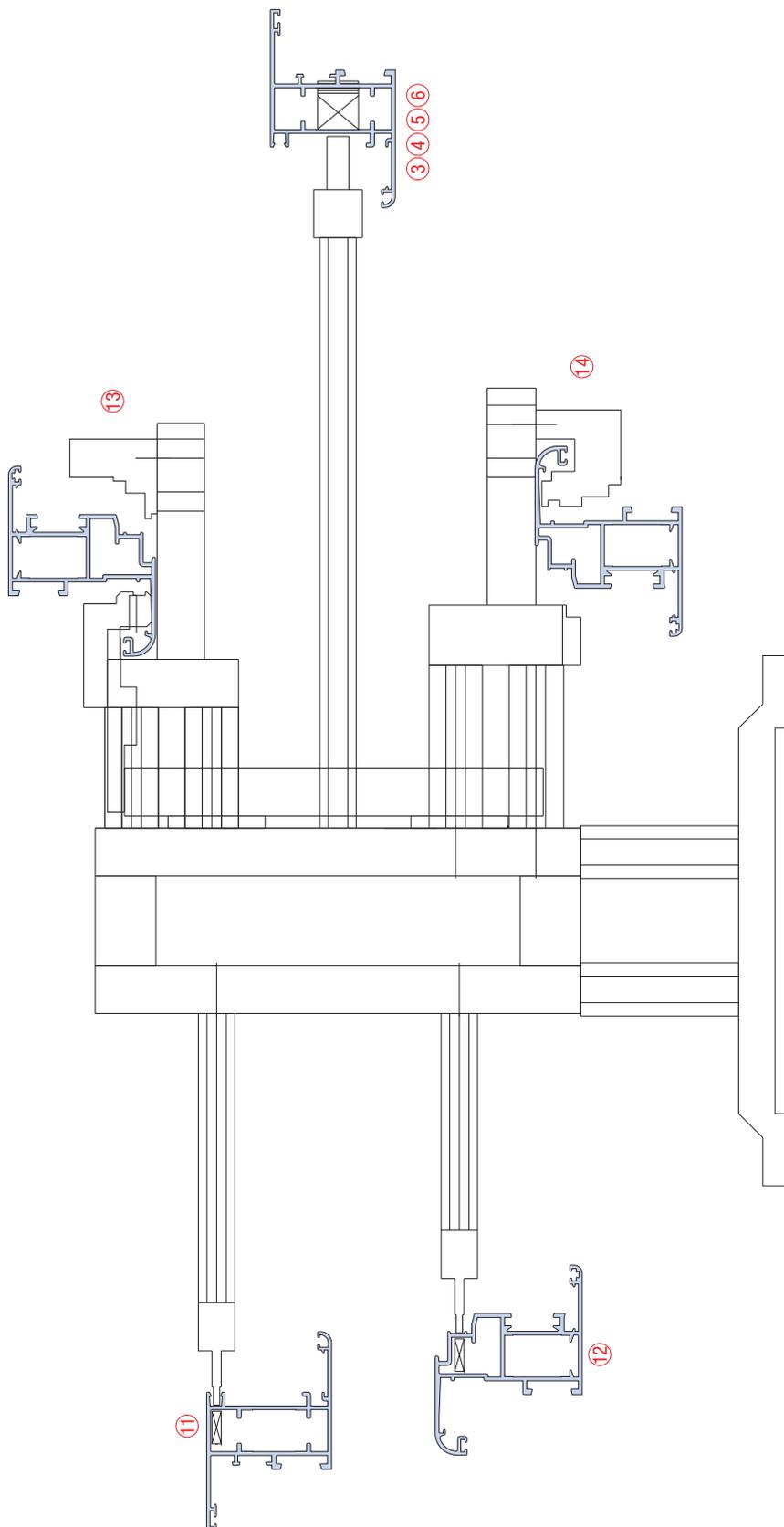
Shape Kit for Emmegi machine



MCT PL JOLLY

Punzonatrice Planet MCT PL JOLLY

Planet MCT PL JOLLY punching machine



Legenda:

- ③ Lav. Foro Ø10.5mm + asola 14X6mm per fissaggio squadretta / Ø10.5mm hole + 14X6mm slot machining for fixing bracket
- ④ Lav. Foro Ø10.5mm per fissaggio cavallotto / Ø10.5mm hole + machining for fixing clamp
- ⑤ Lav. Foro Ø8mm per fissaggio cavallotto / Ø8mm hole mach. for fixing clamp
- ⑥ Lav. Foro Ø8mm per fissaggio squadretta multifunzionale / Ø8mm hole mach. for fixing multi-purpose bracket
- ⑪ Foro Ø3mm per spina ACP 5030 squadretta ACP 50153, ACP 50154 / Ø3mm hole for pin ACP 5030 bracket ACP 50153, ACP 50154
- ⑫ Foro Ø4mm per vite ACP 50155 squadretta ACP 50153, ACP 50154 / Ø4mm hole for screw ACP 50155 bracket ACP 50153, ACP 50154
- ⑬ Asola interna per areazione anta / internal slot for leaf ventilation
- ⑭ Asola esterna per areazione anta / external slot for leaf ventilation

MCT PL 14460

Punzonatrice completa MCT PL 14460

Milling machine MCT PL 14460

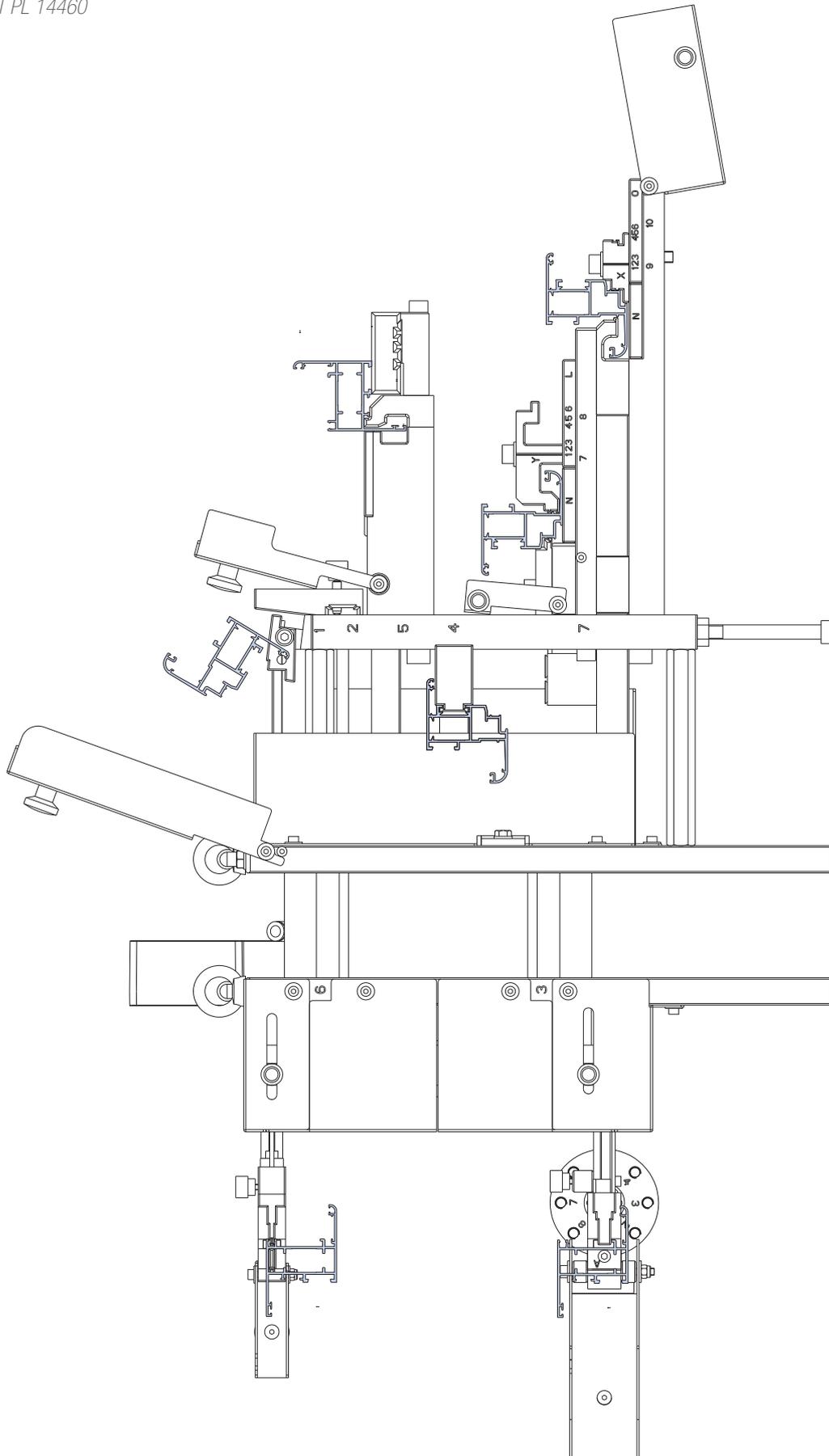


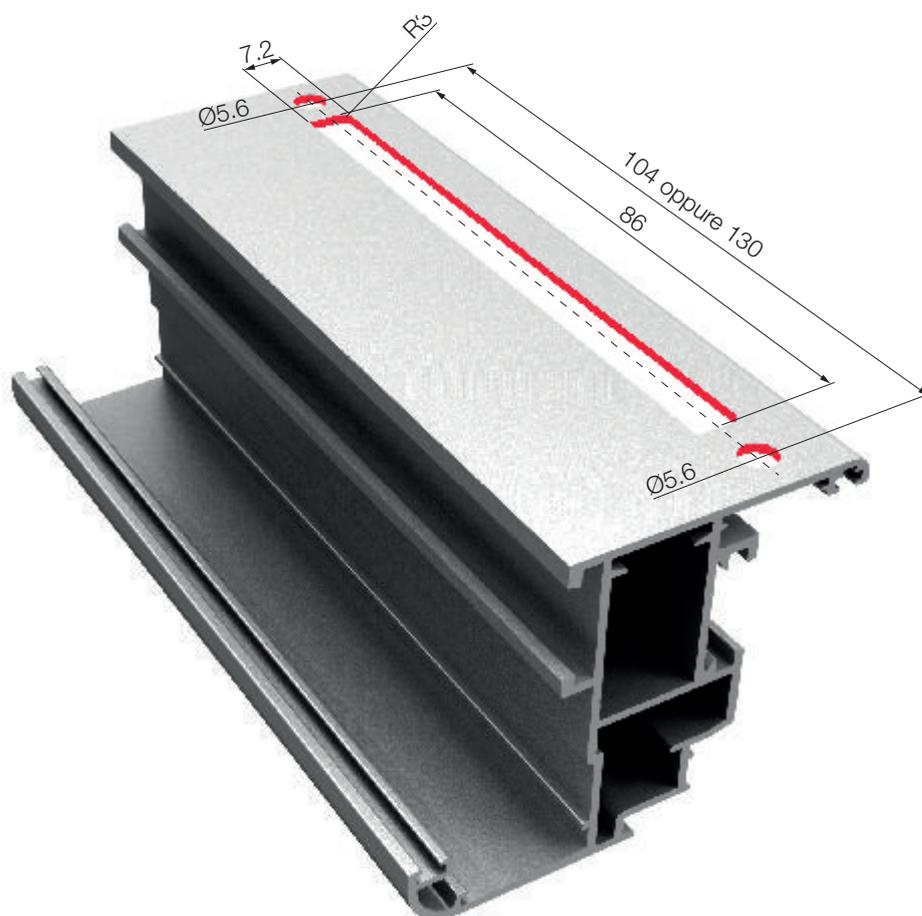
	Immagine lavorazione	Descrizione lavorazione	Lavorazione con punzonatrice MCT PL JOLLY	Lavorazione con punzonatrice MCT PL 14460
1		Asola e fori bloccaggio cremonese interasse 104mm oppure 130mm <i>Slot and holes locking cremonese bolt centre distance 104mm or 130mm</i>	no	si
2		Foro astina di testa 8mm oppure passante <i>Hole for head rod 8mm or passing</i>	no	si
3		Foro Ø10.5mm per aggancio e asola 14x6 per chiave squadretta a pulsante <i>Ø10.5mm hole for fastening and 14x6 slot for push-button bracket key</i>	si	si
4		Foro Ø10.5mm per fissaggio cavalletto <i>Ø10.5mm hole for fixing clamp</i>	si	si
5		Foro Ø8mm per fissaggio cavalletto <i>Ø8mm hole for fixing clamp</i>	si	si
6		Foro Ø8mm per spina o vite squadretta multifunzione <i>Ø8mm hole for pin or screw multi-purpose bracket</i>	si	si

	Immagine lavorazione	Descrizione lavorazione	Lavorazione con punzonatrice MCT PL JOLLY	Lavorazione con punzonatrice MCT PL 14460
7		Scarico acqua 31x6mm <i>31x6mm water drainage</i>	no	si
8		Spuntatura alette passaggio astina <i>Trimming of rod passage fins</i>	no	si
9		Asola interna per areazione anta <i>Internal slot for leaf ventilation</i>	si	si
10		Asola esterna per areazione anta <i>External slot for leaf ventilation</i>	si	si

L1

Asola e fori bloccaggio cremonese interasse 104mm oppure 130mm

Slot and holes locking for cremonese bolt centre distance 104mm or 130mm

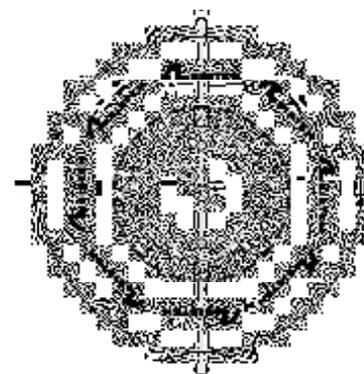
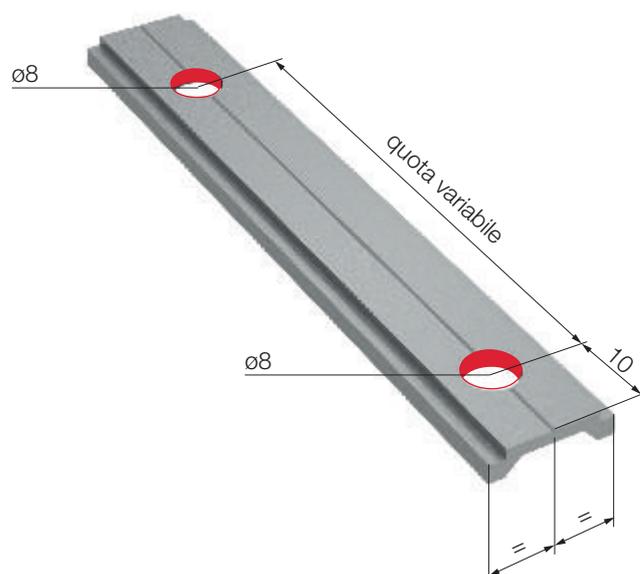


L2

Foro astina di testa 8mm oppure passante.

Utilizza astina in alluminio AS 1000 oppure in poliammide in bobina TAC 1000

8mm head hole

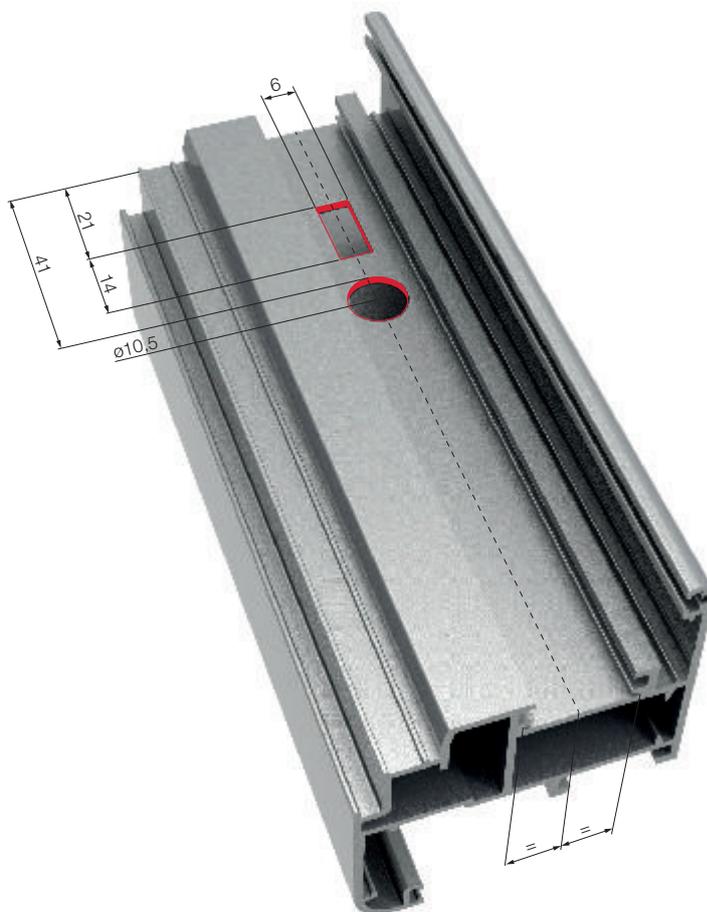


TAC 1000

L3

Foro Ø10.5mm per aggancio e asola 14x6 per chiave squadretta a pulsante

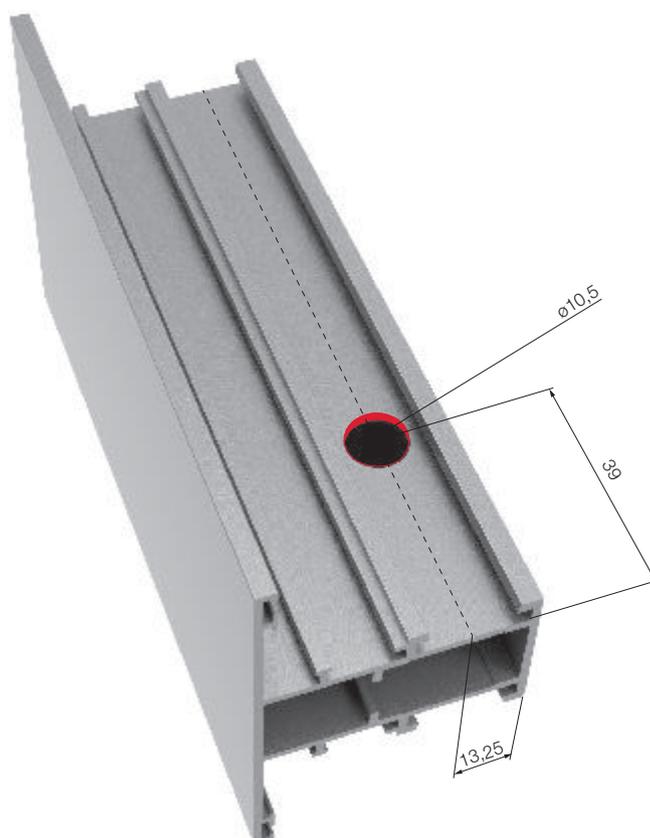
Ø10.5mm hole for fastening and 14X6 slot for push-button bracket key



L4

Foro Ø10.5mm

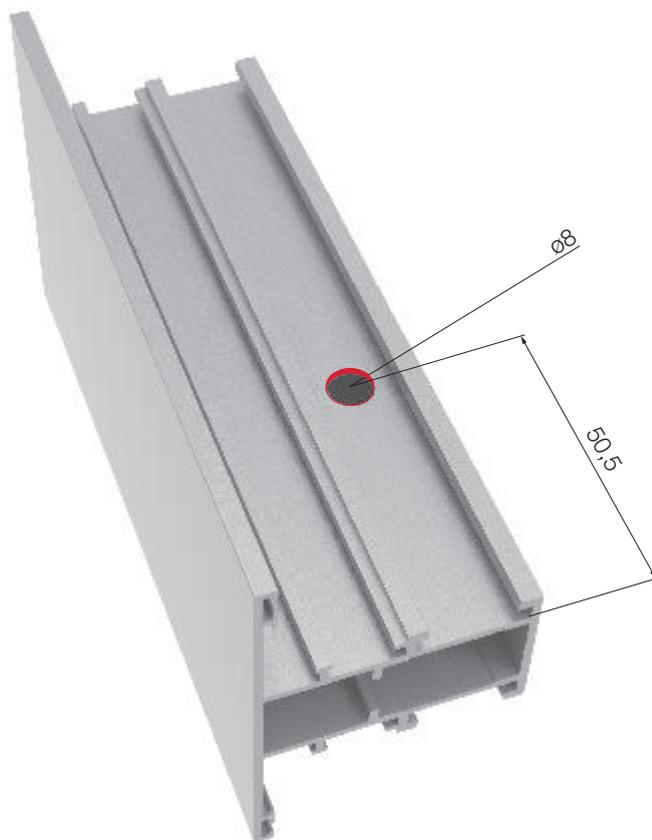
Ø10.5mm hole for fixing clamp



L5

Foro Ø8mm per fissaggio cavallotto

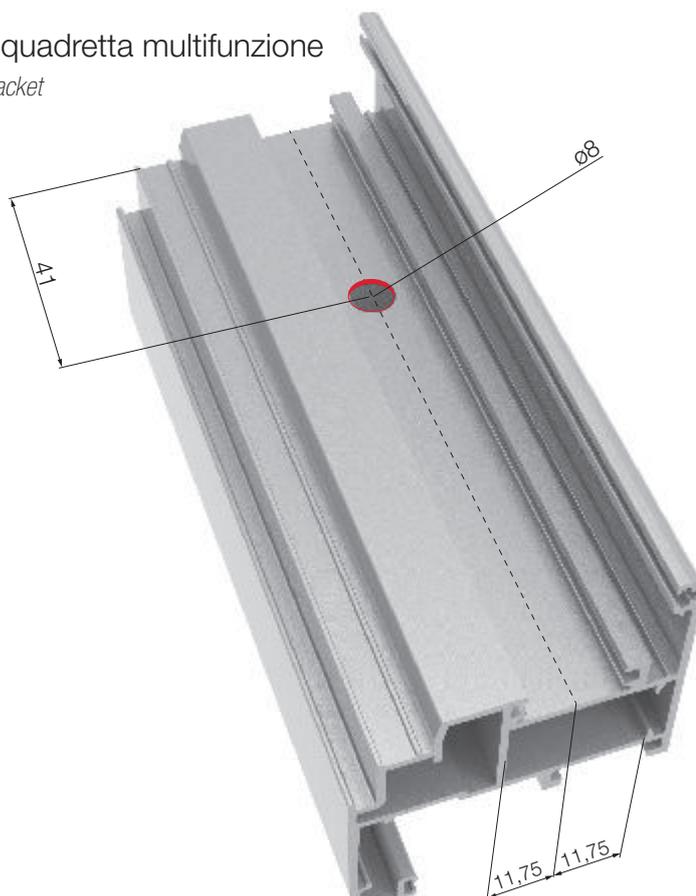
Ø8mm hole for fixing clamp



L6

Foro Ø8mm per spina o vite squadretta multifunzione

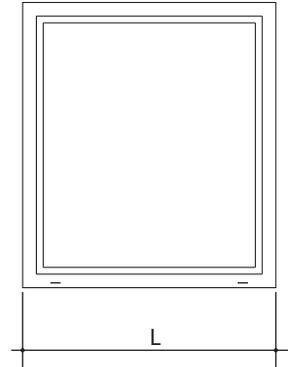
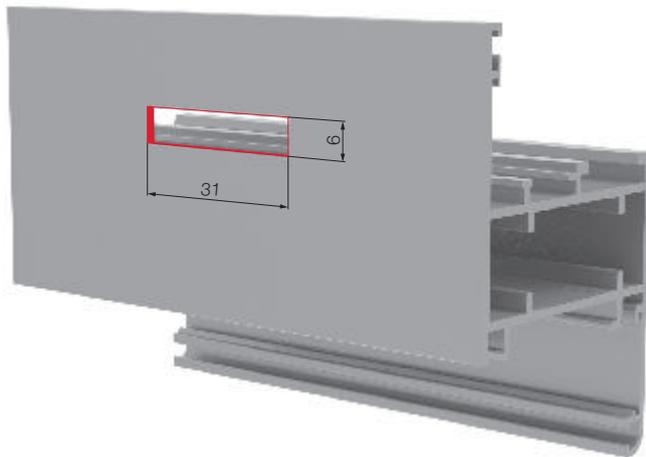
Ø8mm hole for pin or screw multi-propose bracket



L7

Scarico acqua 31x6mm

31x6mm hole for fixing clamp

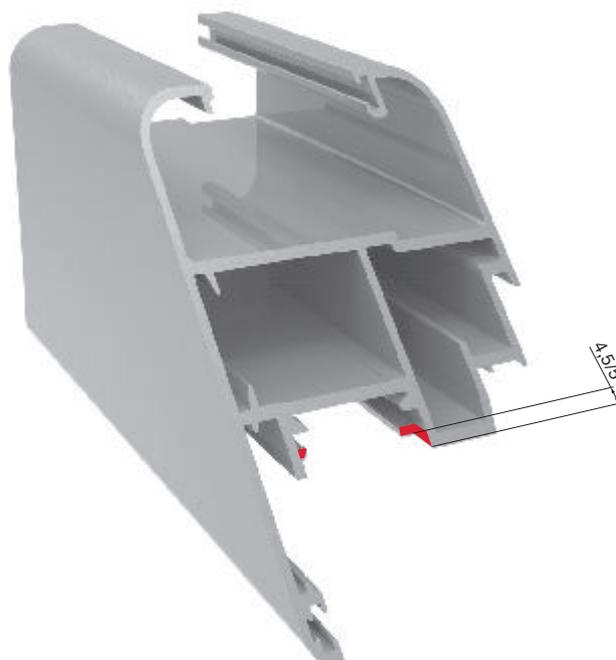


DIMENSIONI L	Q.TA' DRENAGGI
fino a 1000	3
da 1000 a 1500	4
oltre 1500	min. 6 / 1 ogni 400mm

L8

Spuntatura aletta per passaggio astina

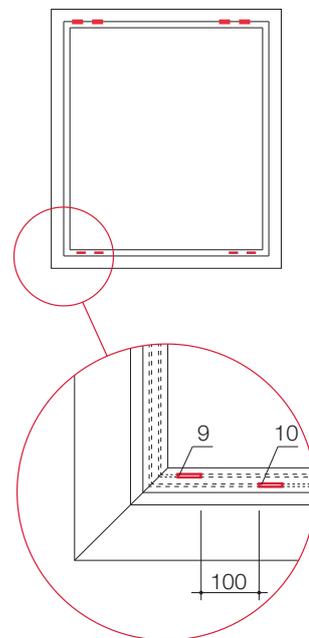
Cut frame for rod assembly



L9

Asola interna per aerazione anta

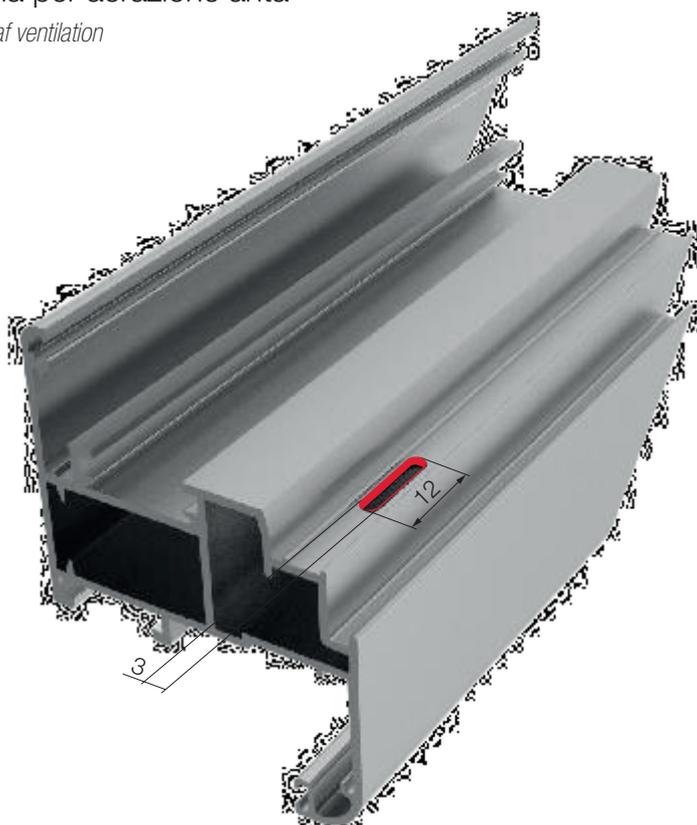
Internal slot for leaf ventilation



L10

Asola esterna per aerazione anta

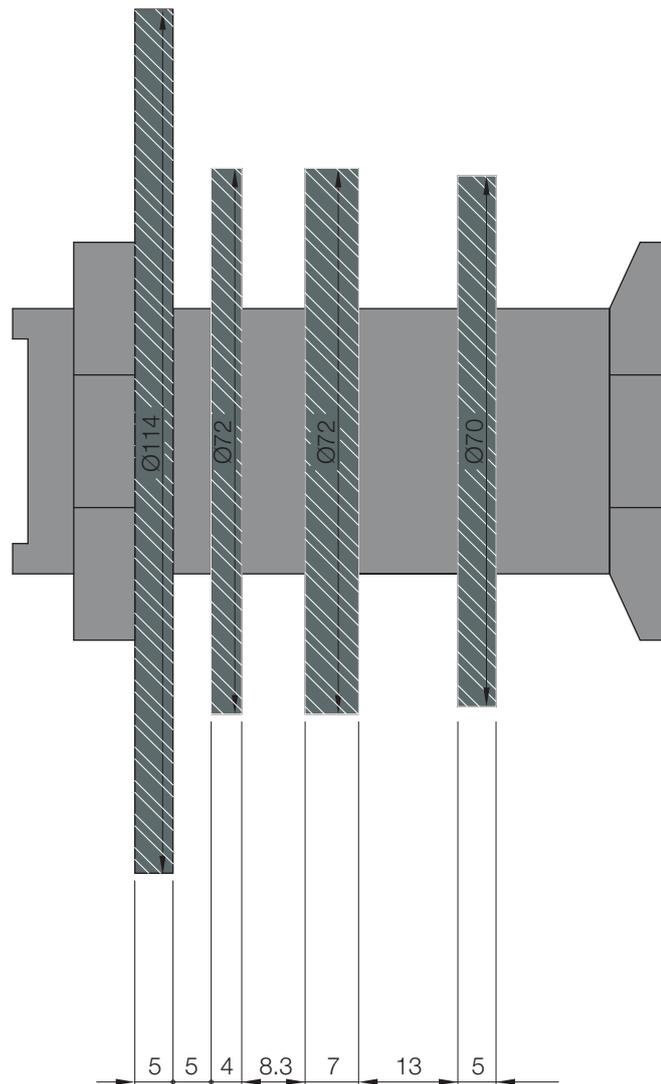
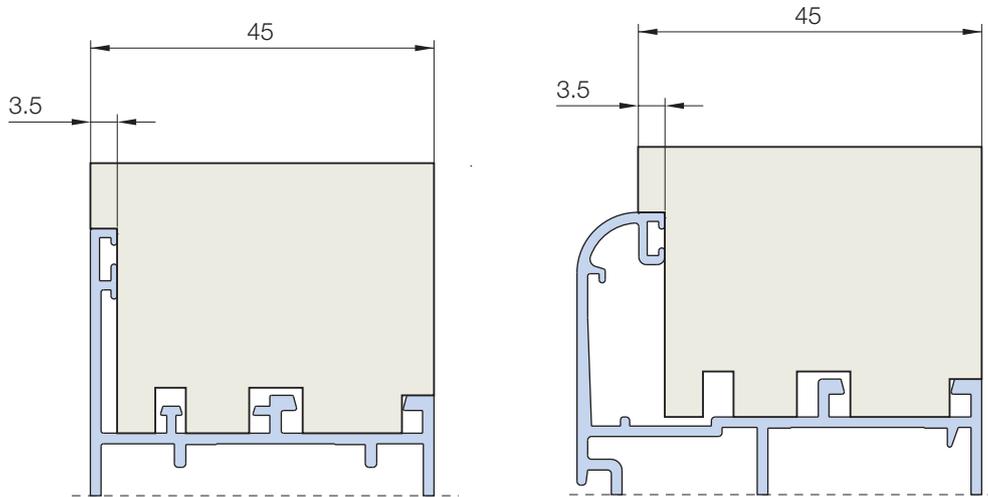
External slot for leaf ventilation



L11 

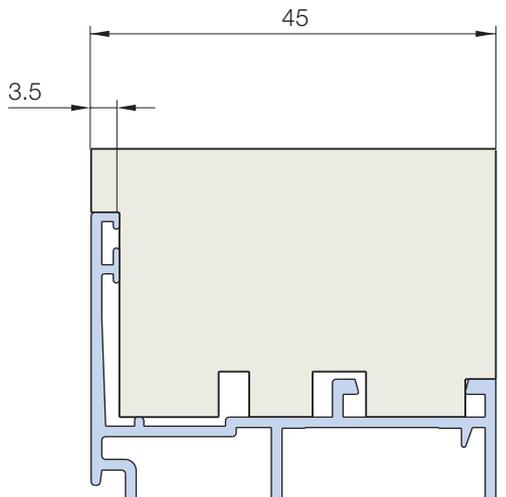
Gruppo frese MCT PL 01 PT. Questo gruppo frese lavora tutti i profili della serie Planet 45 tranne quelli per il vetro ad infilare.

This cutter unit works Planet 45 profiles, except glass insert

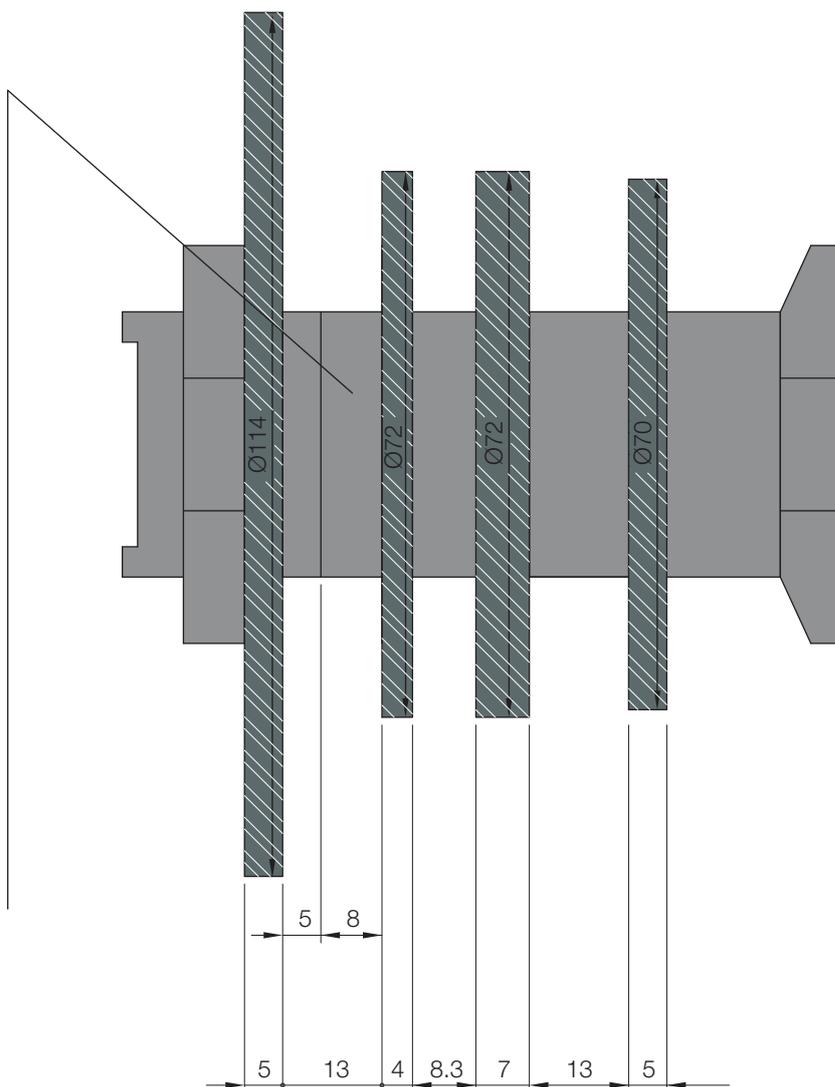


L12

Gruppo frese MCT PL 01 PT. Questo gruppo frese lavora esclusivamente i profili per le ante lisce da 53mm della serie Planet 45
This cutter unit works Planet 45 flat profiles, 53mm



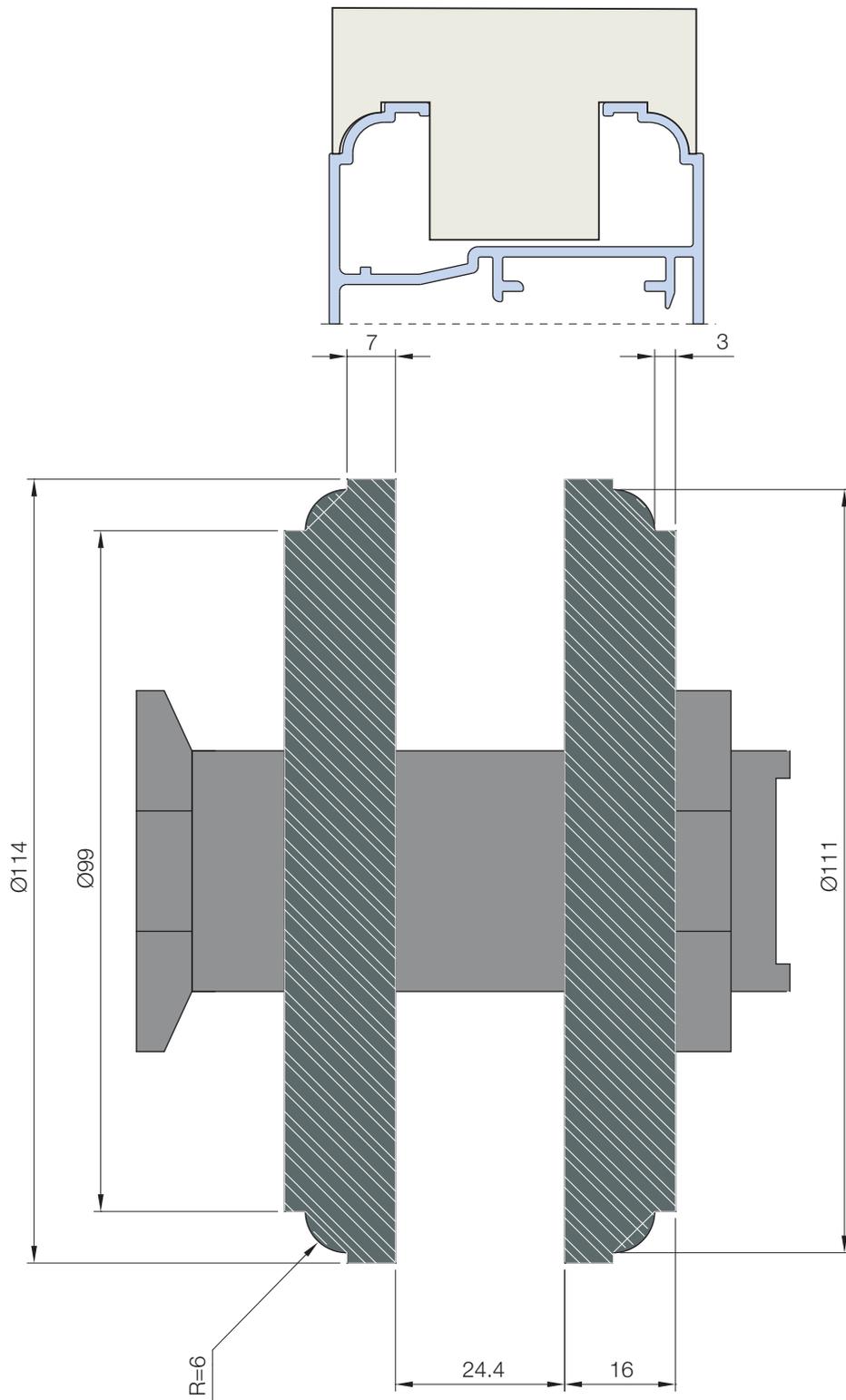
Occorre aggiungere il distanziale da 8mm che è incluso nel kit
Should be added 8mm spacer which is included in the kit



L13 

Gruppo frese MCT PL 02 PT. Questo gruppo frese lavora esclusivamente i profili vetro ad infilare per le ante modanate PL21151, PL2151 e PL2028

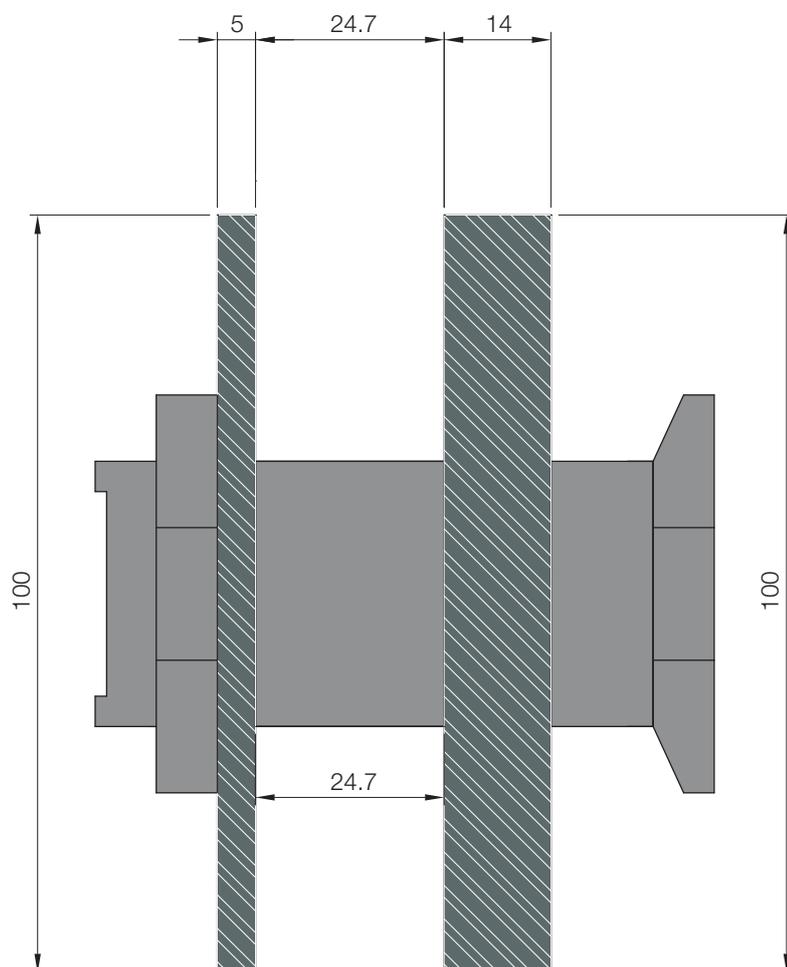
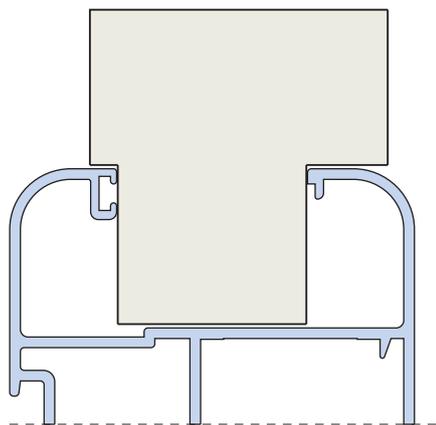
This cutter unit works Planet 45 glass insert profile for molded leaves PL21151, PL2151 and PL2028



L14

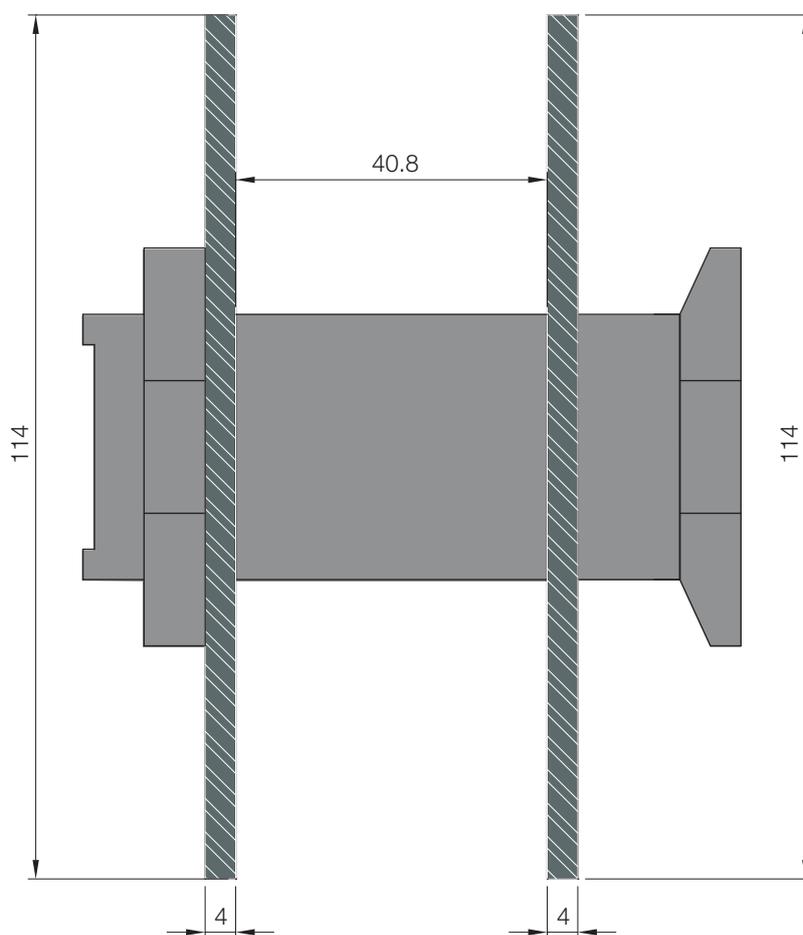
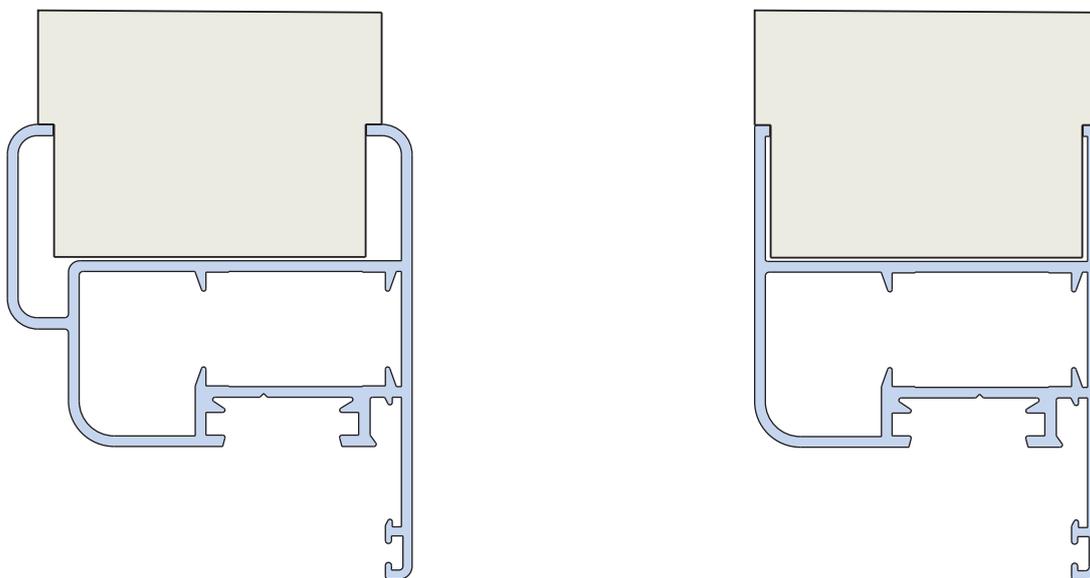
Gruppo frese MCT PL 06 PT. Questo gruppo frese serie Planet 45 solo vetro ad infilare (spazio vetro 25mm)

This cutter unit works Planet 45 glass insert profile, 25mm glazing spacer



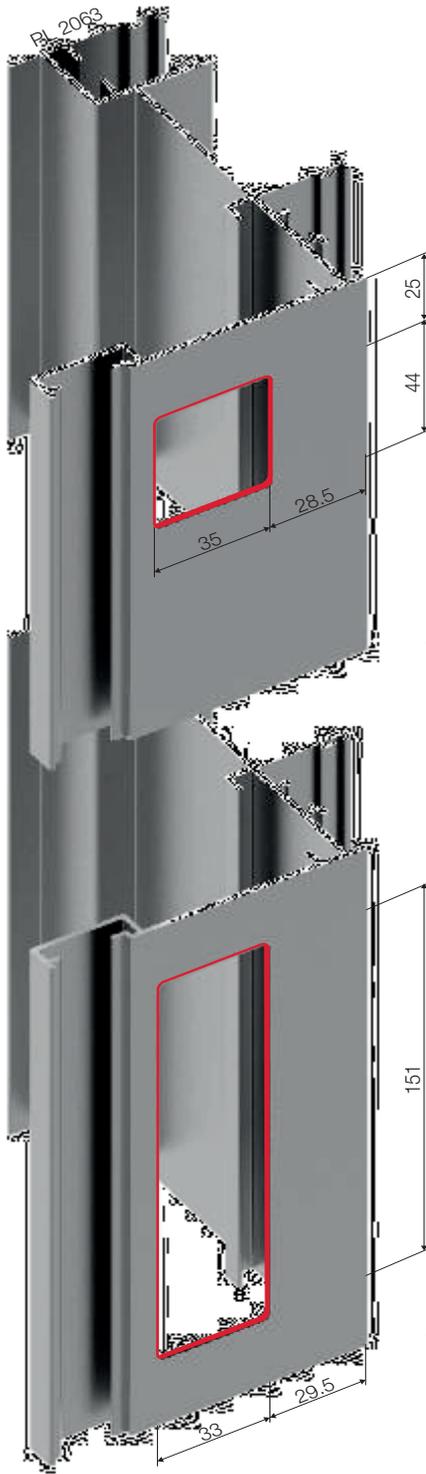
L15 

Gruppo frese MCT PL 10 PT
Gruppo frese per serie Planet 45 porte interne
This cutter unit works Planet 45, interior door



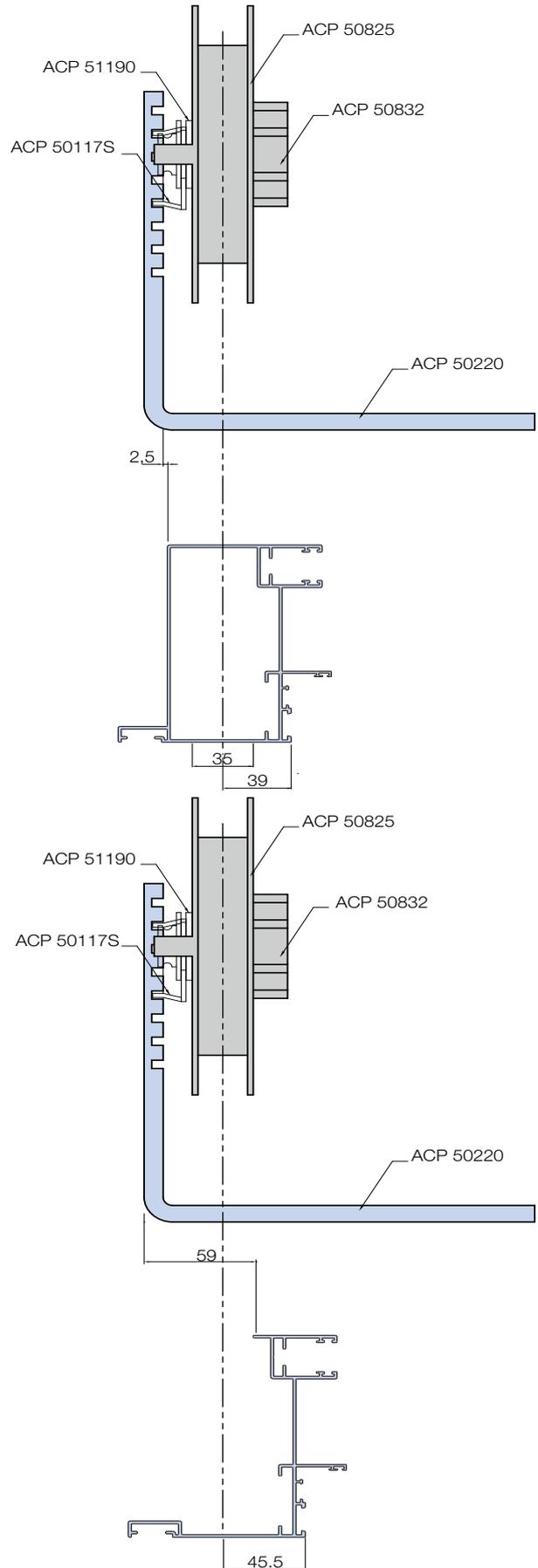
L16

Lavorazione spalla monoblocco
Machining of single-unit shoulder



**MONTAGGIO
ACP 51001**

**MONTAGGIO
ACP 50705**



L17

Lavorazione fori per montaggio squadretta maggiorata angolo variabile ACP 5506

Oversize corner cleat ACP 5506 assembly

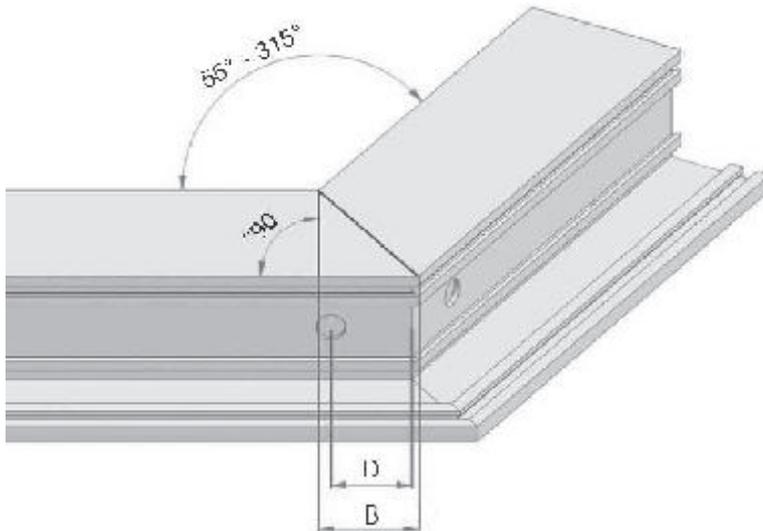
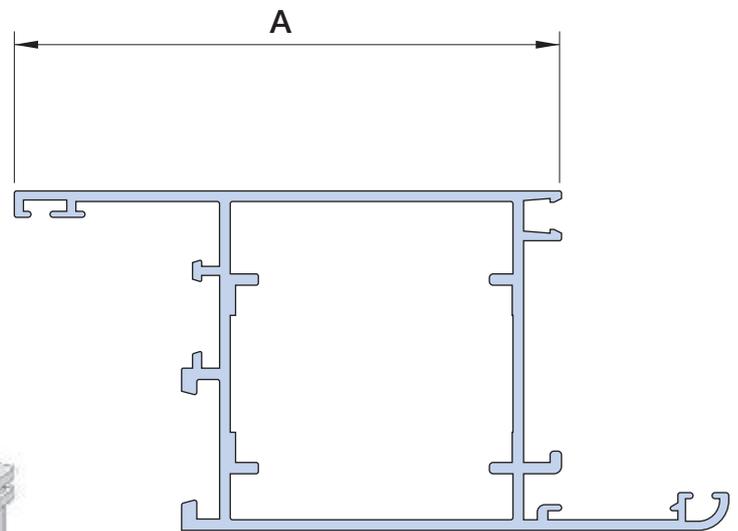


PROCEDURA PER ACP 5506

- stabilito l'angolo di taglio del profilo misurare la quota B
- eseguire il calcolo come suggerito nella formula in basso
- visto l'ampio campo di regolazione delle squadrette, la misura ottenuta può essere arrotondata + o - al mm

PROCEDURE FOR ACP 5506

- identify the cut angle, gauge the dimension B
- make calculations (as the bottom formula)
- the obtained value can be round off + or - mm



Per calcolare l'asse di foratura

$$D = 25 + (7 \times B \div A)$$

A = larghezza profilo

B = proiezione (a 90°) verticale intorno al lato esterno

Esempio con B = 35 mm A = 50 mm

$$D = 25 + (7 \times 35 \div 50) = 30 \text{ mm}$$

L18

Lavorazione fori per montaggio squadrette angolo variabile ACP 5504/ ACP 5805

Machining of holes to fit variable corner brackets ACP 5504/ ACP 5805

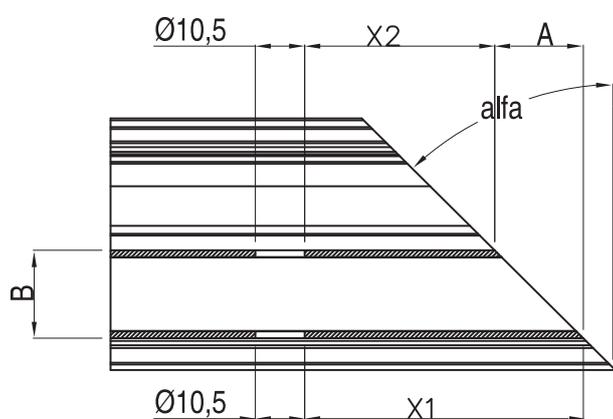


PROCEDURA PER ACP 5504

- stabilito l'angolo di taglio del profilo, misurare la quota A o determinarla in linea teorica applicando la seguente formula:
 $A = B \times \tan(\text{alfa})$
- sommare o detrarre al coefficiente C la metà della quota A (prima determinata) per ottenere la distanza di foratura X1 esterna oppure X2 per la distanza interna
- visto l'ampio campo di regolazione delle squadrette, la misura ottenuta può essere arrotondata + o - al mm

PROCEDURE FOR ACP 5504

- once the profile cut angle has been established, measure value A or determine it theoretically by applying the following formula: $A = B \times \tan(\text{alfa})$
- add to or subtract from the coefficient C half of value A (previously determined) to obtain the external drilling distance X1 the internal drilling distance X2
- the obtained value can be round off + or - mm



PROCEDURA PER ACP 5805

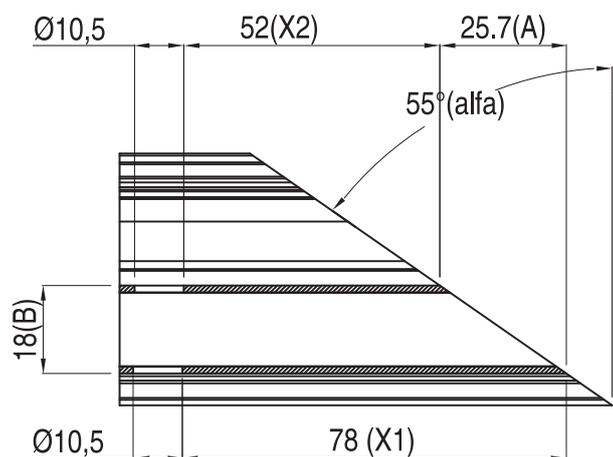
Per questa squadretta valgono le stesse regole per il calcolo di A, mentre per X1 il coefficiente da aggiungere è sempre 41mm
PERTANTO: $X1 = A + 41$

PROCEDURE FOR ACP 5805

For this bracket the same rules apply for the calculation of A, whereas for X1 the coefficient to be added is always 41mm. Therefore: $X1 = A + 41$

Angolo = alfa	Angle = alfa
$A = B \times \tan(\text{alfa})$	$A = B \times \tan(\text{alfa})$
$C = 65$	$C = 65$
$X1 = C + (A/2)$	$X1 = C + (A/2)$
$X2 = C - (A/2)$	$X2 = C - (A/2)$

Esempio con angolo di taglio alfa = 55°
Example of alpha cutting angle = 55°

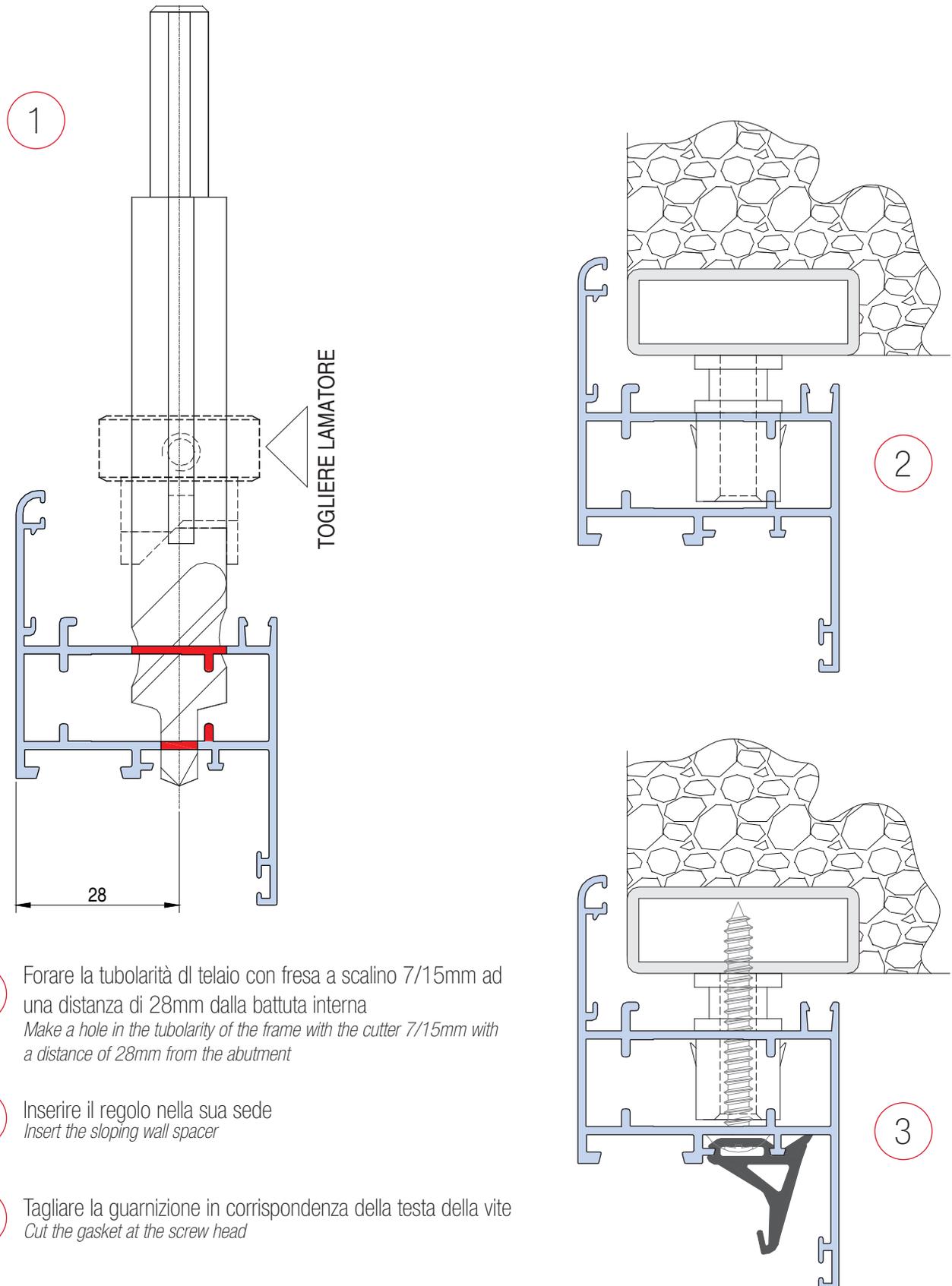


Angolo = 55
 $A = 18 \times (\tan \text{ di } 55)$
 $C = 65$ (art.0910.10)
 $X1 = 65 + (25.71/2) = 77.85$ circa
 $X2 = 65 - (25.71/2) = 52.15$ circa
 arrotondare
 $X1 = 78$
 $X2 = 52$
 Angle = 55
 $A = 18 \times (\tan \text{ of } 55)$
 $C = 65$ (art.0910.10)
 $X1 = 65 + (25.71/2) = 77.85$ approximately
 $X2 = 65 - (25.71/2) = 52.15$ approximately
 round up/down
 $X1 = 78$
 $X2 = 52$

L19

Lavorazione regolo a muro

Sloping wall spacer working



1 Forare la tubolarità di telaio con fresa a scalino 7/15mm ad una distanza di 28mm dalla battuta interna
Make a hole in the tubularity of the frame with the cutter 7/15mm with a distance of 28mm from the abutment

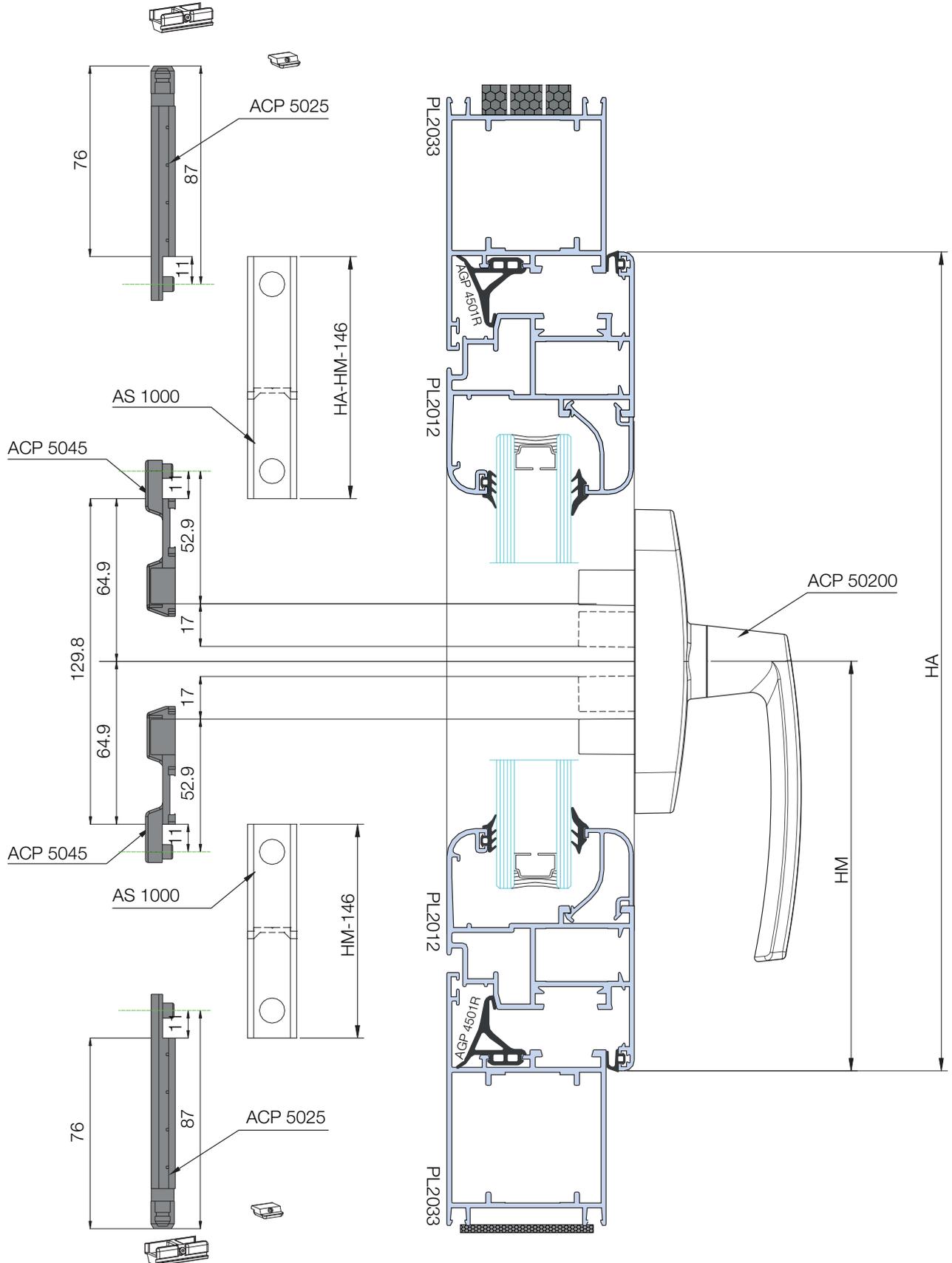
2 Inserire il regolo nella sua sede
Insert the sloping wall spacer

3 Tagliare la guarnizione in corrispondenza della testa della vite
Cut the gasket at the screw head

L20

Lavorazione taglio astina per kit ACP 50175

Leaf closure rod cutting for ACP 50175



M1

Applicazione ACP 5801 - ACP 5802

Inserire la squadretta ACP 5801 - ACP 5802 e chiudere l'angolo scegliendo tra le opzioni che seguono.

ACP 5801 - ACP 5802 - ACP 7001 application

Insert corner cleat and close the corner by choosing one of the following options.

Kit coltelli
per cianfrinatura
Crimping kit

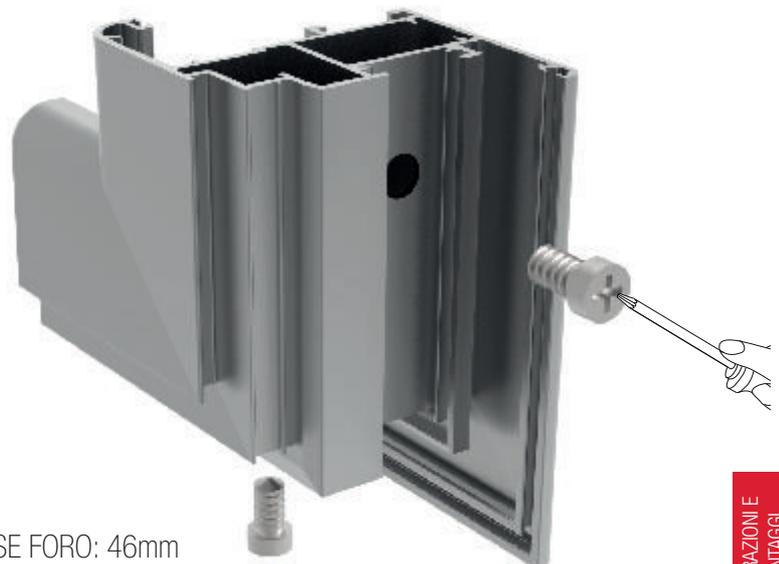


1 Cianfratura tramite l'apposito kit
Crimping using the appropriate kit



2 Spinatura tramite la spina ACP 5800, foro Ø8 di punzonatrice
Broaching using pin ACP 5800, Ø8 hole by punching machine

3 Avvitatura con vite ACP 5001, foro Ø8 di punzonatrice
Screwing with screw ACP 5001, Ø8 hole by punching machine
Dare un giro per lato, fino a che la testa della vite va A FILO PROFILO



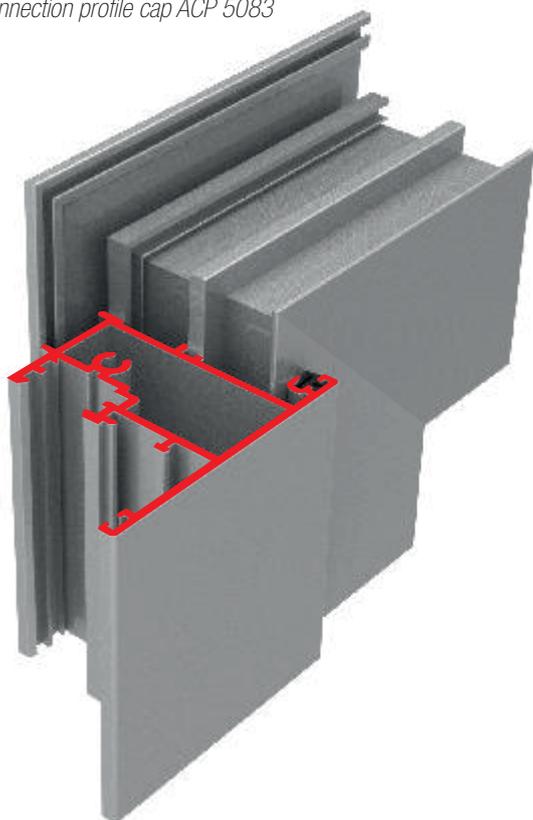
INTERASSE FORO: 46mm

Hole centre distance: 46mm

M2

Montaggio tappo riporto centrale ACP 5083/ ACP 5079

Fitting the central connection profile cap ACP 5083



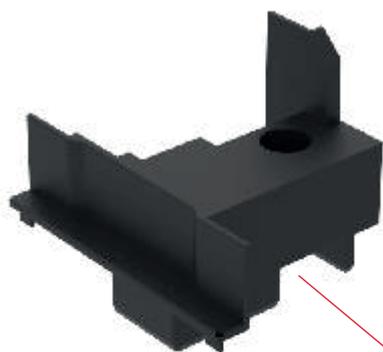
Prima di montare il tappo di riporto centrale occorre sigillare le zone evidenziate nel disegno

Before installing astragal cap, seal areas shown on drawing



Avvitare con vite TC-CE4,8

Screwing with screw TC-CE4,8



ACP 5083

Nel caso di versione giunto aperto, dopo aver inserito il tappo ACP5079, accostare la pinna centrale incollando la zona di contatto

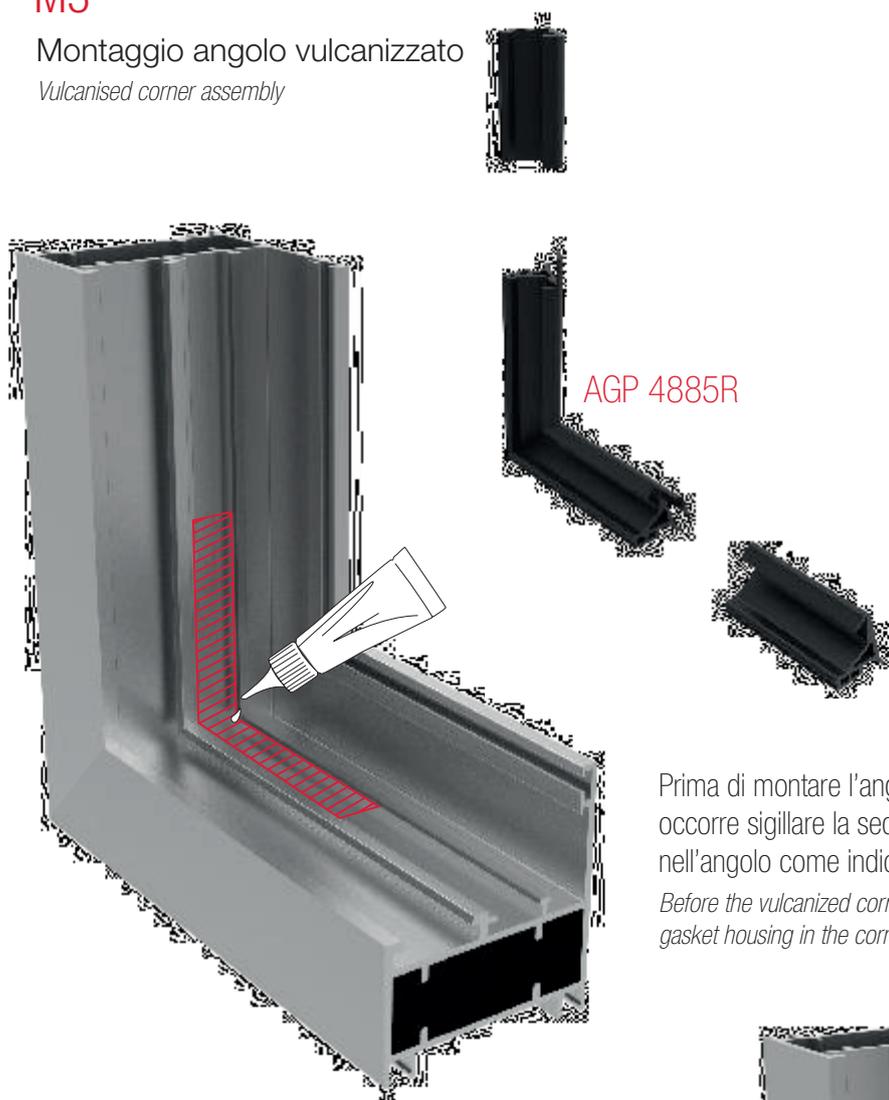
In open joint solution, glue the central fins' contact area after fitting the cap ACP5079



M3

Montaggio angolo vulcanizzato

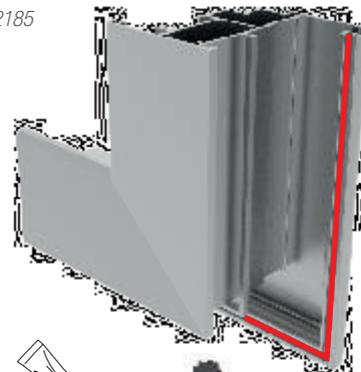
Vulcanised corner assembly



ATTENZIONE

Sequenza valida anche per sigillare l'angolo vulcanizzato AGP 4085 e guarnizione AGP 4000

Sealing AGP 4085 AND AGP 4000 like in the description for AGP 62185



AGP 4085

inserire la guarnizione nella sede appropriata (indicata in rosso)

insert the gasket in the correct position

Prima di montare l'angolo vulcanizzato occorre sigillare la sede della guarnizione nell'angolo come indicato in figura

Before the vulcanized corner assembly, seal the gasket housing in the corner

Dopo aver montato l'angolo vulcanizzato accostare la pinna incollando la zona di contatto

After the vulcanized corner assembly, place the fin gluing the contact area



AGP 4501R

Sul traverso inferiore del telaio praticare un cordolo di sigillante sotto la guarnizione centrale e per tutta la lunghezza del traverso

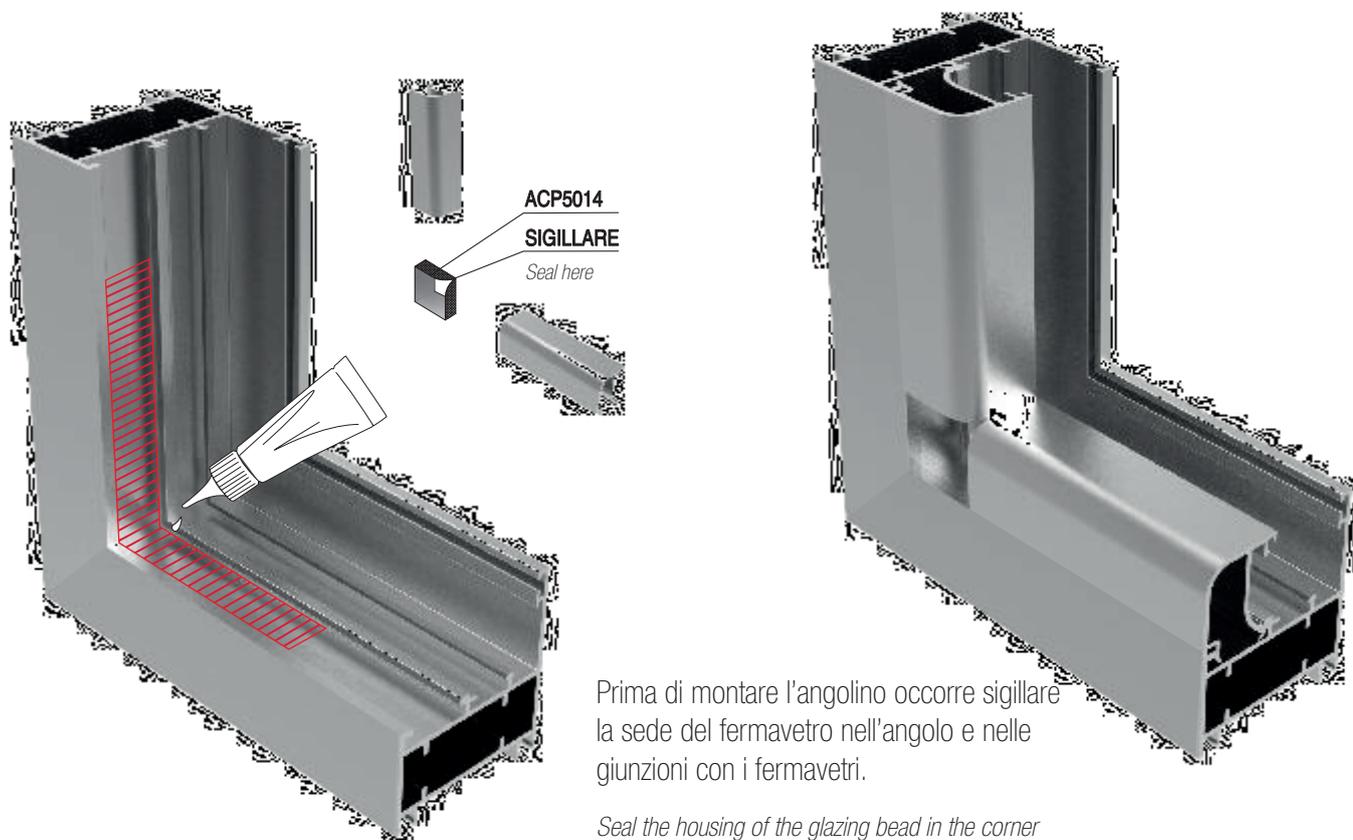
Make a sealing bead under the central gasket along the whole length of the sill transom frame



M4

Montaggio angolino fermavetri ACP 5014

Glazing bead corner assembly



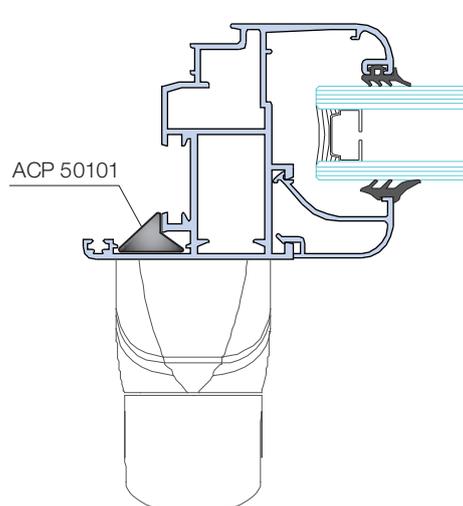
Prima di montare l'angolino occorre sigillare la sede del fermavetro nell'angolo e nelle giunzioni con i fermavetri.

Seal the housing of the glazing bead in the corner and the joints with the glazing beads before the corner assembly

M5

Montaggio piastrino antirollio cremonese Aurora ACP 50200

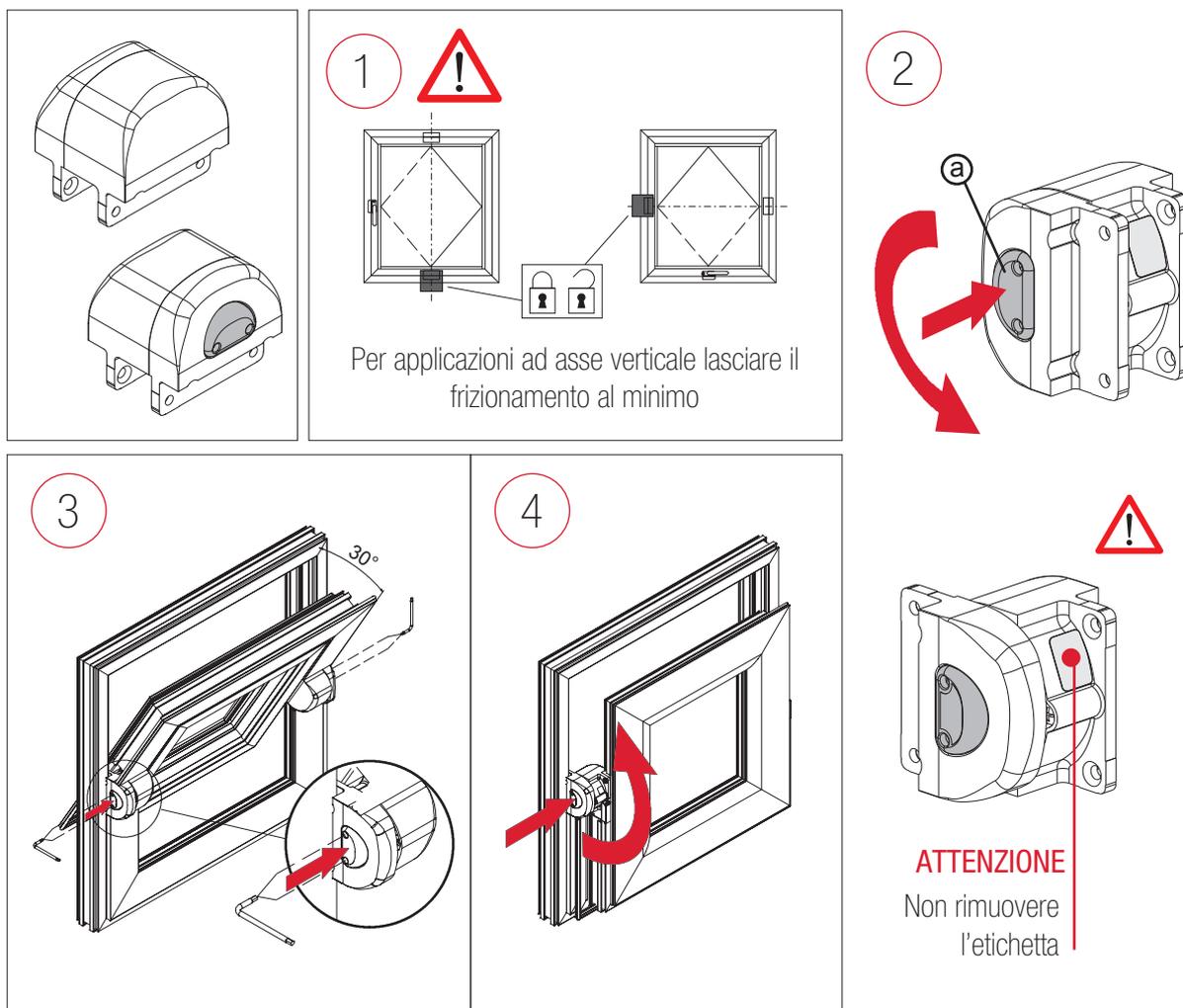
Anti-roll plate for Aurora cremonese ACP 50200 handel assembly



M6

Montaggio frizione bilico con fermo ACP 5091M

ACP 5091M pivot clutch with stop assembly



La frizione può essere applicata sia su finestre a bilico verticale che orizzontale: in caso di bilico orizzontale stabilire su quale lato dell'infisso (destra o sinistra) si desidera posizionare la frizione con blocco. In caso di bilico verticale, la frizione con blocco dovrà essere posizionata sul lato inferiore (1).

A) Apertura e Chiusura dell'anta:

- Impiegando la frizione è possibile aprire l'anta fino ad un angolo di 30°. Sarà possibile aprire l'anta semplicemente spingendola in avanti; arrivata a 30° gradi troverà il fine corsa. Questa è la posizione di areazione e di ricambio d'aria (3).
- Nel caso l'utente finale voglia aprire l'anta di un angolo maggiore di 30° è necessario spingere il pulsante blocco/sblocco (3) posto su una delle due frizioni.
- Quando l'anta sarà ruotata di 180° il pulsante di "blocco /sblocco" bloccherà automaticamente l'anta in questa posizione.
- Per portare l'anta in posizione di chiusura l'utente dovrà spingere nuovamente il pulsante di "blocco/sblocco" (4).

B) Frizionamento dell'apertura:

La frizione (sia il pezzo con pulsante che il pezzo senza) consente di impostare la forza necessaria per aprire e chiudere l'anta tramite due viti di frizionamento poste su entrambi i pezzi della coppia (3). Il frizionamento delle due frizioni deve essere uniforme in modo che la forza di attrito sia equamente ripartita tra i due pezzi.

NOTA BENE

Per applicazioni ad asse verticale lasciare il frizionamento al minimo.

The clutch can be fitted to both vertical and horizontal pivot windows:

if installing a horizontal window, identify on which side of the unit (RH or LH) you wish to install the block with release button.

If installing a vertical window, the block with release button must be installed at its base (1).

A) Opening and closing the window:

- *The Techclutch enables the window to be opened up to 30°. To open the window, simply push it forwards; once it has arrived at 30° it stops opening. This is the ventilation and fresh air position (3).*
- *If you wish to open the window more than 30°, push the button (3) on the release block.*
- *When the window is opened to 180°, the release button automatically secures the window in this position. This is a safety feature, since it prevents the window closing unexpectedly and causing damage or injury. Furthermore, it facilitates cleaning the external pane since the window is secured in position.*
- *To close the window, press the release button once more (4).*

B) Force adjustment

The clutch (both blocks) allows you to set the force required to open and close the window with the friction adjuster screws on each block (3).

The two blocks must be set to the same force setting so that they both exert the same friction.

ATTENTION

For vertical axis installations, leave the friction setting at its minimum.

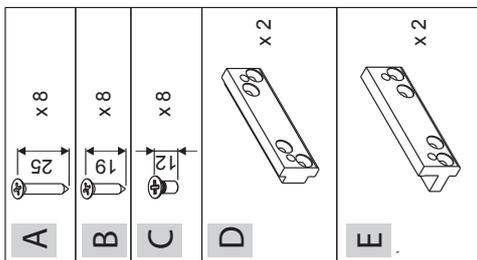


Fig.1

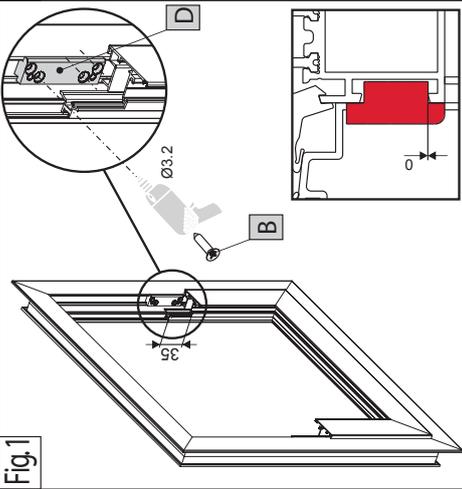


Fig.2

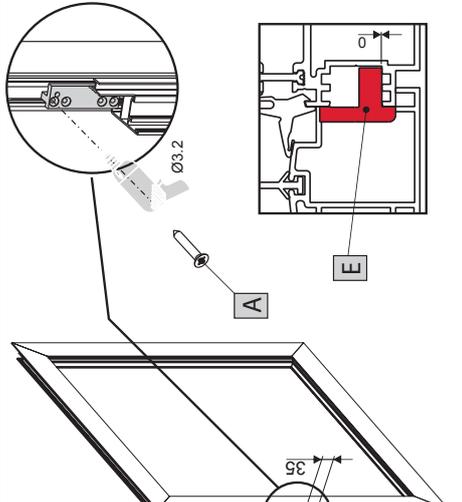
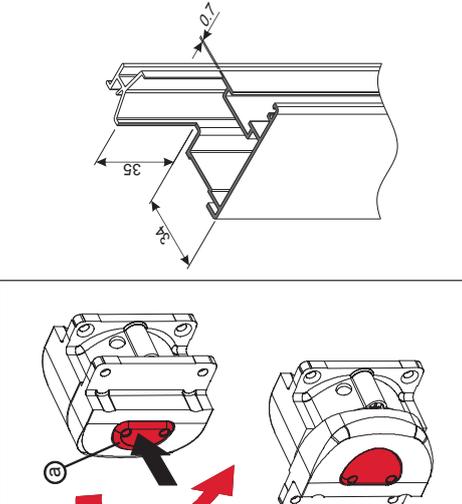
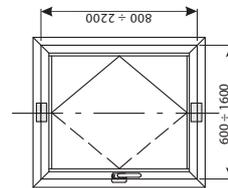


Fig.3

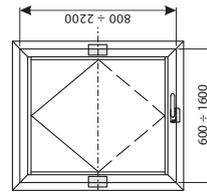


PESO MASSIMO DELL'ANTA (alluminio e vetro):
100Kg
MAXIMUM WING WEIGHT (aluminium and glass):
100Kg



EXAMPLE
1300HX1000L = 30 mm
1625HX1475L = 15 mm

PESO MASSIMO DELL'ANTA (alluminio e vetro):
120Kg
MAXIMUM WING WEIGHT (aluminium and glass):
120Kg



EXAMPLE
1400HX1000L = 34 mm
1725HX1475L = 17 mm

PESO MASSIMO DELL'ANTA (alluminio e vetro):
120Kg
MAXIMUM WING WEIGHT (aluminium and glass):
120Kg

Spessore massimo del vetro impiegabile (senza camera d'aria) (mm)
Maximum possible thickness of glass (without air-space) (mm)

2200	31	27	24	21	19	18	16	15	14	13
2100	32	28	25	22	20	19	17	16	15	14
2000	34	30	26	24	21	20	18	17	16	15
1900	36	31	28	25	22	21	19	18	16	15
1800	38	33	29	26	24	22	20	19	17	16
1700	40	35	31	28	25	23	21	20	18	17
1600	42	37	33	30	27	25	23	21	20	18
1500	42	40	35	32	29	26	24	22	21	20
1400	42	42	38	34	31	28	26	24	22	21
1300	42	42	41	36	33	30	28	26	24	23
1200	42	42	42	40	36	33	30	28	26	25
1100	42	42	42	42	39	36	33	31	29	27
1000	42	42	42	42	42	40	36	34	32	30
900	42	42	42	42	42	42	41	38	35	33
800	42	42	42	42	42	42	42	41	38	35

H ALTEZZA ANTA (mm) - WINDOW HEIGHT (mm)
L LARGHEZZA ANTA (mm) - WINDOW WIDTH (mm)

FASE 1: Verificare, sulle tabelle delle portate, che l'infisso che si vuole realizzare rispetti le dimensioni e le portate consentite, a seconda che si debba realizzare una finestra a bilico orizzontale o verticale.

FASE 2: Eseguire le lavorazioni sui profili di riporto utilizzata.

FASE 3: Montare le piastre di fissaggio D sul telaio mediante le viti autofilettanti B (fig. 1) e le piastre di fissaggio E sull'anta mediante le viti autofilettanti A (fig. 2), facendo coincidere il centro della piastra con la mezzeria dell'infisso. Usare le piastre come dima per la realizzazione dei fori per le viti di fissaggio.

FASE 4: Ruotare di 180° i due corpi frizione (fig. 3). Per ruotare la frizione con blocco occorre premere il pulsante di sblocco (a).

FASE 5: Montare i due gruppi frizione sull'anta mediante le quattro viti C di M5x12. Posizionare l'anta sul telaio (fig. 4) e fissare le frizioni alle piastre del telaio utilizzando le altre 4 viti C di M5x12 in dotazione.

FASE 6: Premere il pulsante di sblocco della frizione e portare l'anta in posizione di chiusura, ruotandola di 180°.

SETTAGGIO DEL FRIZIONAMENTO

Utilizzando l'apposita chiave a brugola di 3mm in dotazione alla frizione, regolare uniformemente le quattro viti di registrazione delle frizioni, raggiungibili attraverso gli appositi fori presenti nei pulsanti di sblocco.

NOTA BENE

Per applicazioni ad asse verticale lasciare il frizionamento al minimo.

STEP 1: Check that the window you are installing is within the specified load capacity and dimensions, which will also depend on whether it is a vertical or horizontal pivot window.

STEP 2: Machine the additional profiles to match the series of profiles in question as shown in page 1.

STEP 3: Fit the D securing plates to the frame by means of the B self-threading screws (pic. 1) and the E securing plates to the sash by means of the A self-threading screws (pic. 2), with the centre of the plates aligned with the centre line of the window. Use the plates as a template to drill the mounting screws holes.

STEP 4: Rotate the two clutch bodies by 180° (pic. 3) To rotate the clutch, press the release button (a).

STEP 5: Fit the two clutch units to the window sash, by means of the 4 C screws M5x12. Locate the sash to the frame (pic. 4) and secure the clutches to the frame plates using the other 4 provided M5x12 screws.

STEP 6: Press the clutch release button and move the sash to the closed position by rotating it through 180°.

FRICITION ADJUSTMENT

Use the 3mm hex key provided with the clutch to set the four friction adjuster screws, through the holes in the release buttons.

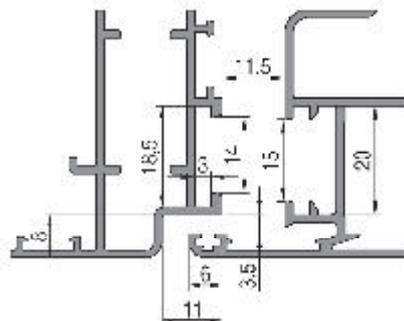
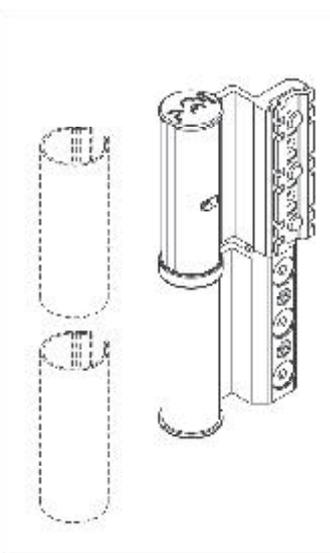
ATTENTION

For vertical-axis applications, leave the clutch at the minimum.

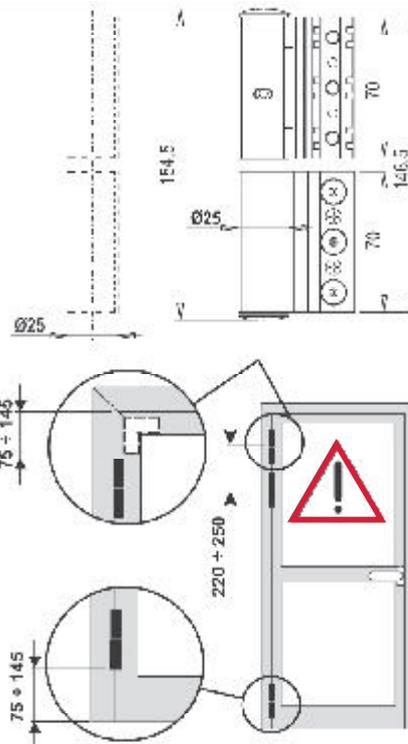
M7

Applicazione cerniere strong ACP 9938 per telai complanari interni

Hinge ACP 9938 for internal complanar frames assembly



PROFILI PL 20102 + PL 2337



CE	AlsiSTEM s.r.l.	11
	Vis. G. Reiss Romoli, 267 10148 Torino Italy	
0757	3FR-229-11-000	
EN 1935:2002		3 7 4 0 1 4 1 1 1

GRAFICO PER IL CALCOLO DEL PESO MASSIMO EFFETTIVO DELL'ANTA
CHART FOR CALCULATING THE ACTUAL MAX. SASH WEIGHT

H Altezza anta (mm) - Wing height (mm)	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
L Larghezza anta (mm) - Wing width (mm)													
3000	1	1	1	1	1	1	1	1	0,95	0,84	0,76		
2900	1	1	1	1	1	1	1	1	0,86	0,80	0,74		
2800	1	1	1	1	1	1	1	0,93	0,85	0,76	0,71		
2700	1	1	1	1	1	1	1	0,98	0,79	0,72	0,68		
2600	1	1	1	1	1	1	1	0,93	0,83	0,75	0,69	0,65	
2500	1	1	1	1	1	1	1	0,87	0,78	0,71	0,67	0,63	
2400	1	1	1	1	1	1	0,93	0,61	0,74	0,66	0,64	0,61	
2300	1	1	1	1	1	1	0,85	0,76	0,70	0,65	0,61	0,59	
2200	1	1	1	1	1	0,91	0,80	0,72	0,67	0,63	0,59	0,57	
2100	1	1	1	1	1	0,85	0,75	0,66	0,64	0,60	0,57	0,55	
2000	1	1	1	1	0,91	0,79	0,71	0,65	0,61	0,56	0,55	0,53	
1900	1	1	1	1	0,83	0,73	0,67	0,62	0,58	0,56	0,53	0,52	
1800	1	1	1	0,90	0,77	0,69	0,63	0,59	0,56	0,54	0,52	X	
1700	1	1	1	0,82	0,71	0,65	0,60	0,57	0,54	0,52	X	X	
1600	1	1	0,89	0,75	0,67	0,61	0,57	0,54	0,52	X	X	X	
1500	1	1	0,80	0,68	0,63	0,59	0,55	0,52	X	X	X	X	
1400	1	0,88	0,73	0,64	0,59	0,55	0,52	X	X	X	X	X	
1300	1	0,78	0,67	0,60	0,56	0,52	X	X	X	X	X	X	
1200	1						X	X	X	X	X	X	

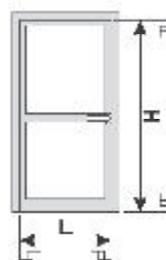
PORTATE MASSIME - MAXIMUM LOADS

100 kg	120 kg	100 kg

**CON FRENO IN APERTURA
WITH OPENING BRAKE**

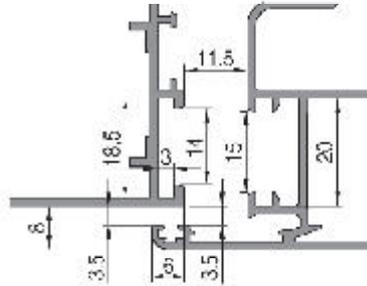
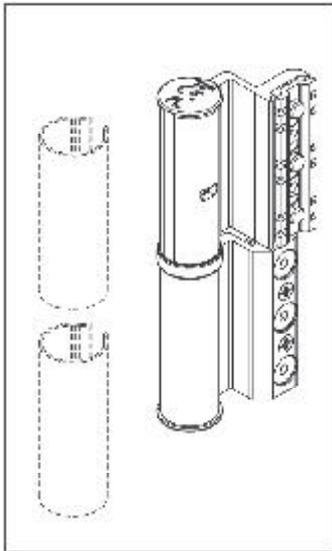
	70 kg
--	--------------

X Dimensioni non realizzabili
Not possible dimensions

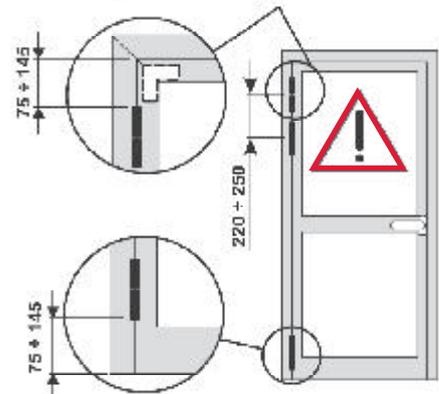
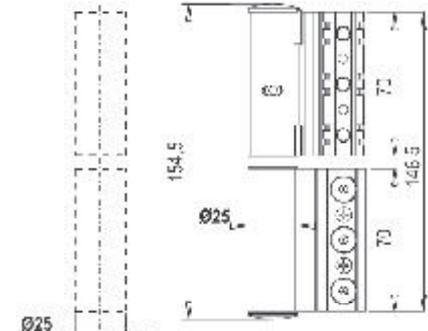


M8

Applicazione cerniere strong ACP 9918 per telai piani Hinge ACP 9918 for flat frames assembly



PROFILI PL 2033 + PL 2337



CE		Alsistem s.p.a. Via G. Reiss Romoli, 257 10140 Torino Italy	11
0757	BPR-228-1-038		
EN1935:2002		4	7 6 0 1 4 1 13

GRAFICO PER IL CALCOLO DEL PESO MASSIMO EFFETTIVO DELL'ANTA
CHART FOR CALCULATING THE ACTUAL MAX. SASH WEIGHT

3000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0,93	0,84	0,76				
2900	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0,88	0,80	0,74				
2800	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0,93	0,83	0,76	0,71			
2700	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0,88	0,79	0,72	0,68			
2600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0,93	0,83	0,73	0,65			
2500	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0,87	0,78	0,71	0,67	0,63		
2400	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0,93	0,81	0,74	0,68	0,64		
2300	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0,85	0,76	0,70	0,65	0,61	0,59	
2200	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0,91	0,80	0,72	0,67	0,63	0,59	0,57
2100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0,85	0,75	0,68	0,64	0,60	0,57	0,55
2000	1	1	1	1	1	0,91	0,79	0,71	0,65	0,61	0,58	0,56	0,53											
1900	1	1	1	1	1	0,83	0,73	0,67	0,62	0,58	0,56	0,53	0,52											
1800	1	1	1	1	1	0,90	0,77	0,69	0,63	0,59	0,56	0,54	0,52	X	X									
1700	1	1	1	1	1	0,82	0,71	0,65	0,60	0,57	0,54	0,52	X	X										
1600	1	1	0,89	0,75	0,67	0,61	0,57	0,54	0,52	X	X	X	X											
1500	1	1	0,80	0,69	0,63	0,58	0,55	0,52	X	X	X	X	X											
1400	1	0,88	0,73	0,64	0,59	0,55	0,52	X	X	X	X	X	X											
1300	1	0,78	0,67	0,60	0,56	0,52	X	X	X	X	X	X	X											
1200	1	0,78	0,67	0,60	0,56	0,52	X	X	X	X	X	X	X											
	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800											
	Larghezza anta (mm) - Wing width (mm)																							

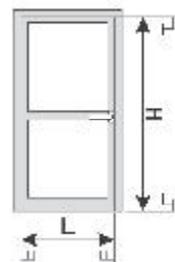
PORTATE MASSIME - MAXIMUM LOADS

120 kg 150 kg 120 kg

80 kg

CON FRENO IN APERTURA
WITH OPENING BRAKE

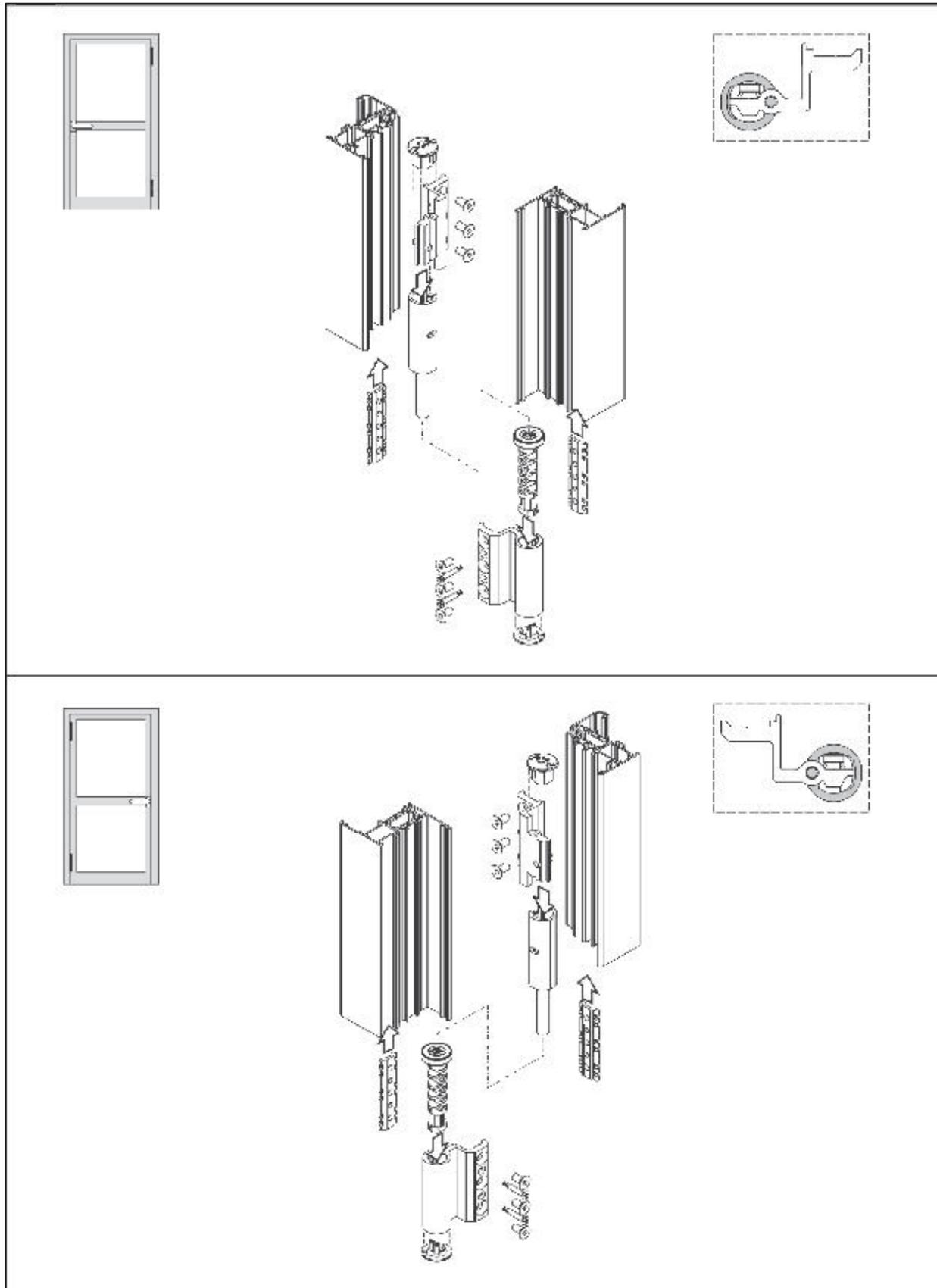
X Dimensioni non realizzabili
Not possible dimensions



M9

Applicazione cerniere strong

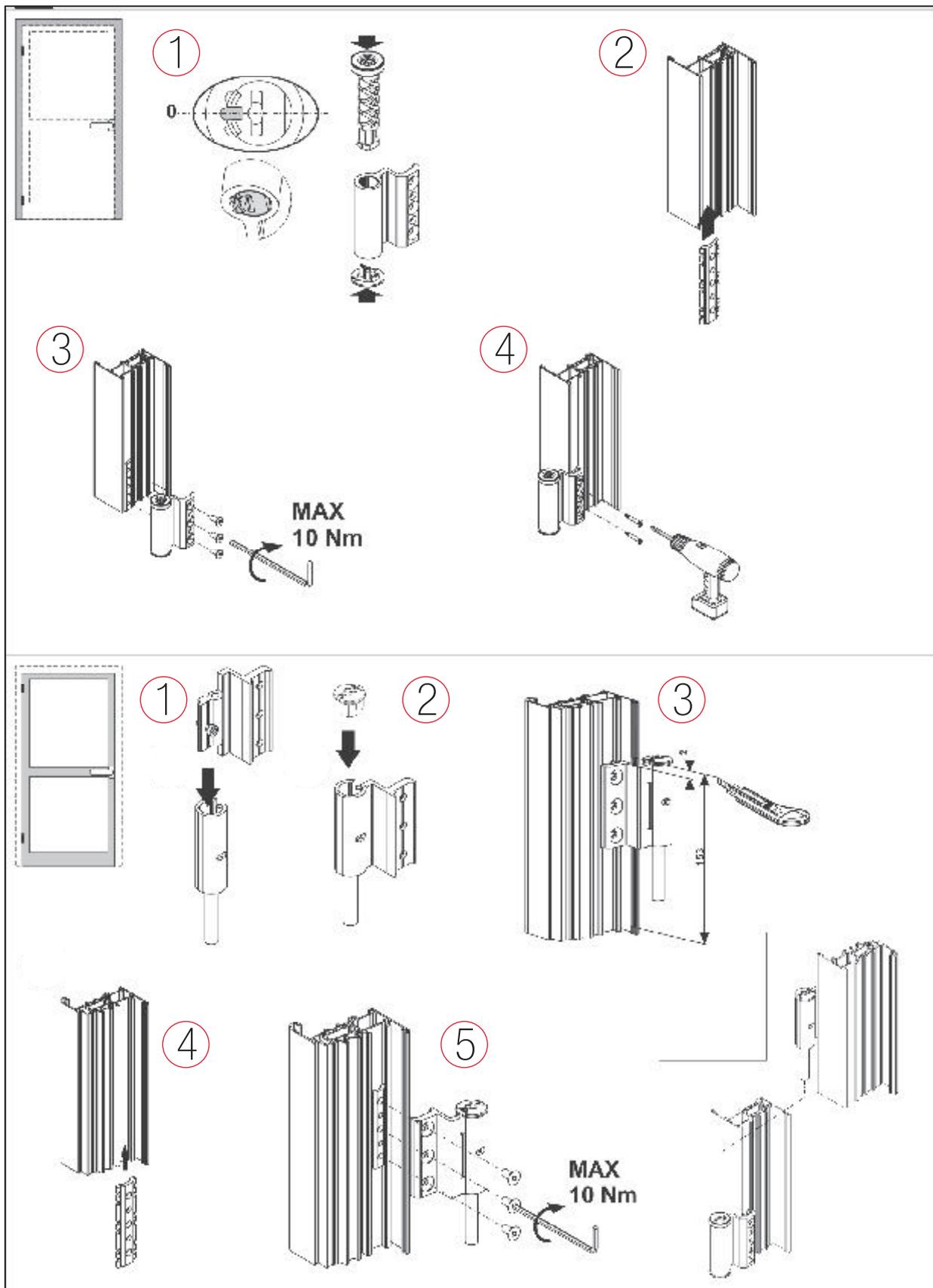
Strong hinge assembly



M10

Applicazione cerniere strong

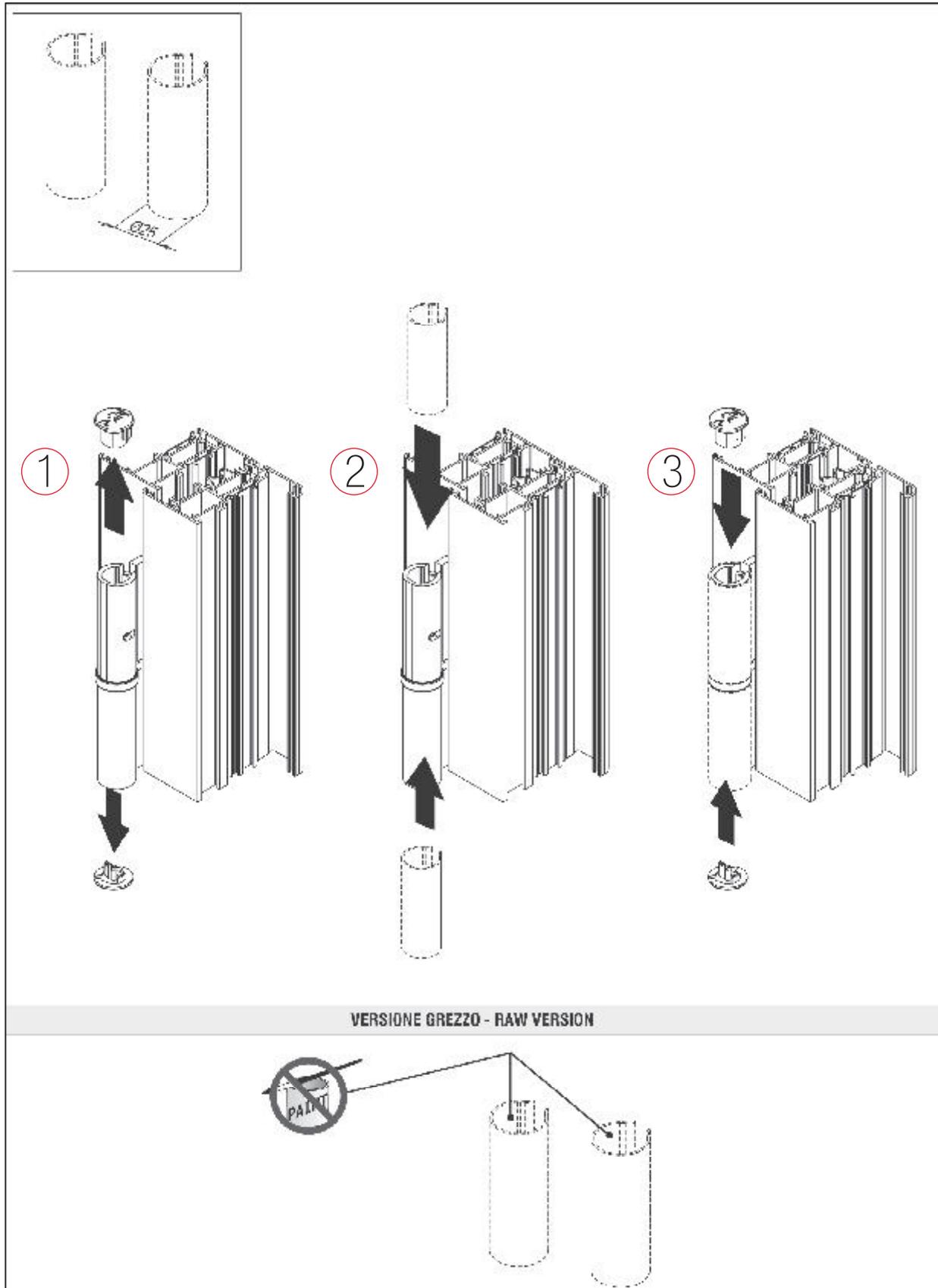
Strong hinge assembly



M11

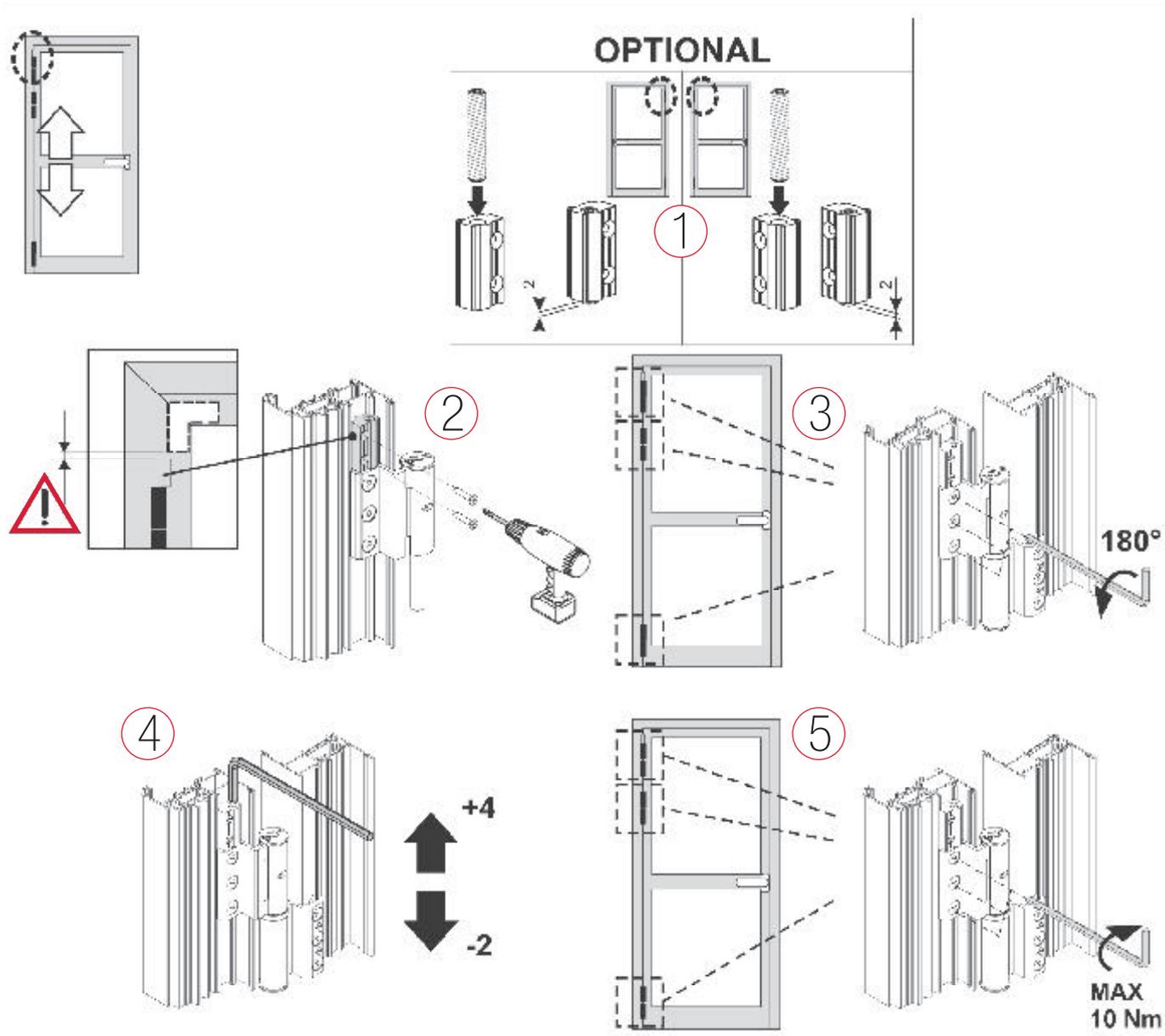
Applicazione cover universale ACP 99124 per cerniere strong

Universal cover ACP 99124 assembly for Strong hinges



M12

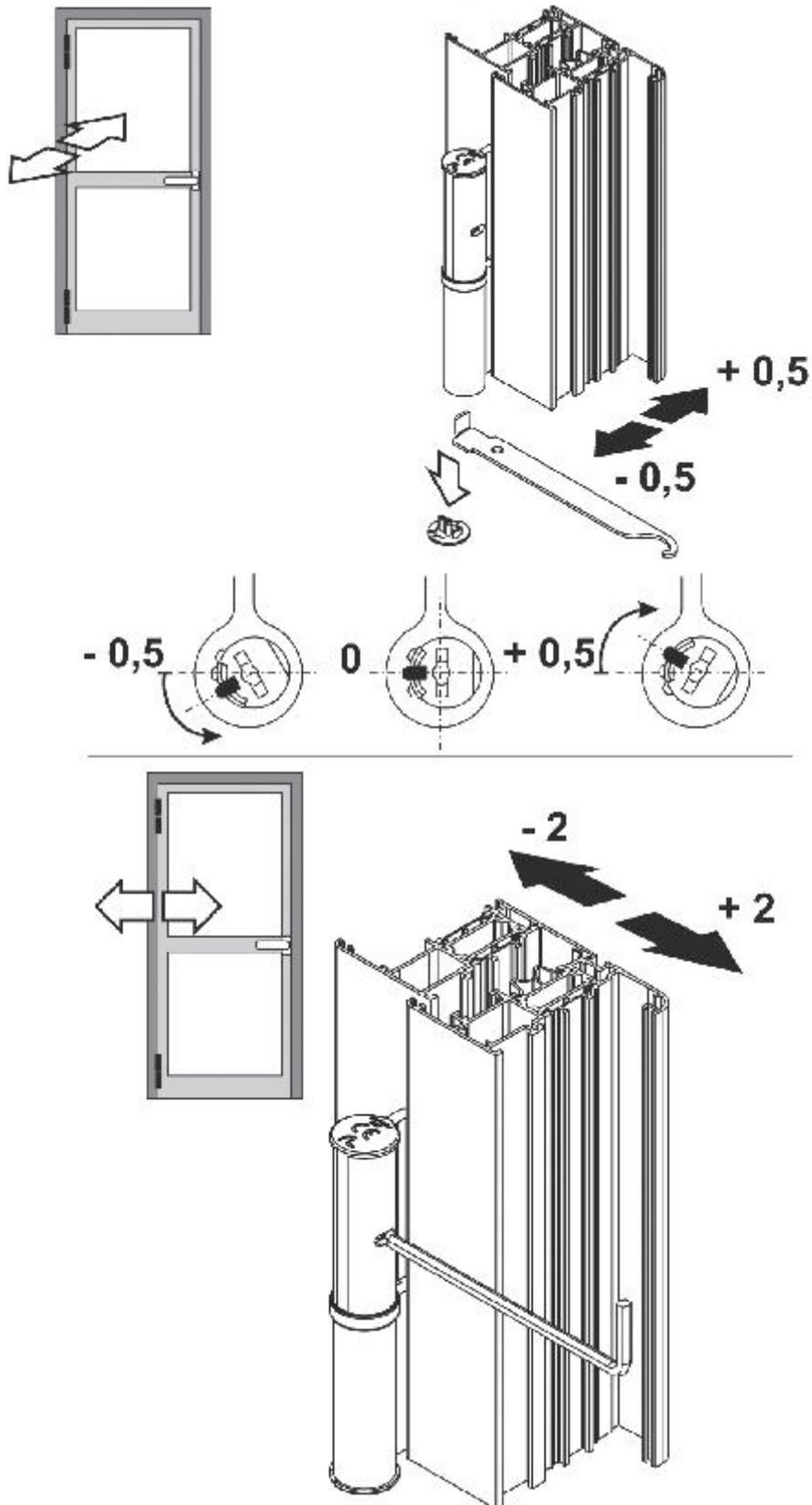
Applicazione di piastrino di regolazione ACP 99125 per cerniere strong
Universal cover ACP 99125 assembly for Strong hinges



M13

Utilizzo chiave di regolazione ACP 99126 per cerniere strong

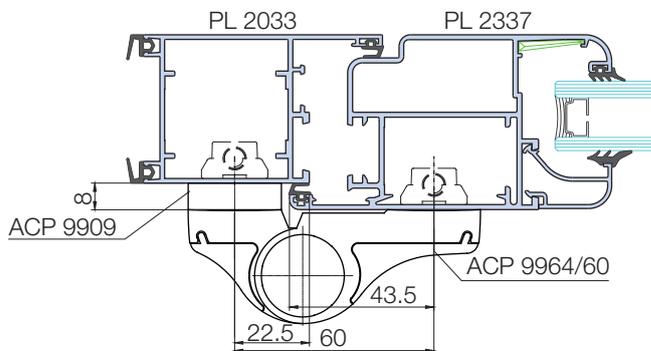
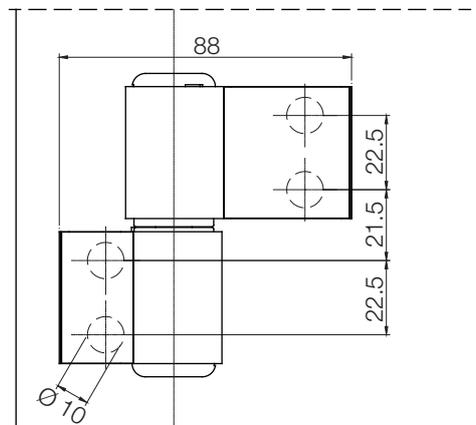
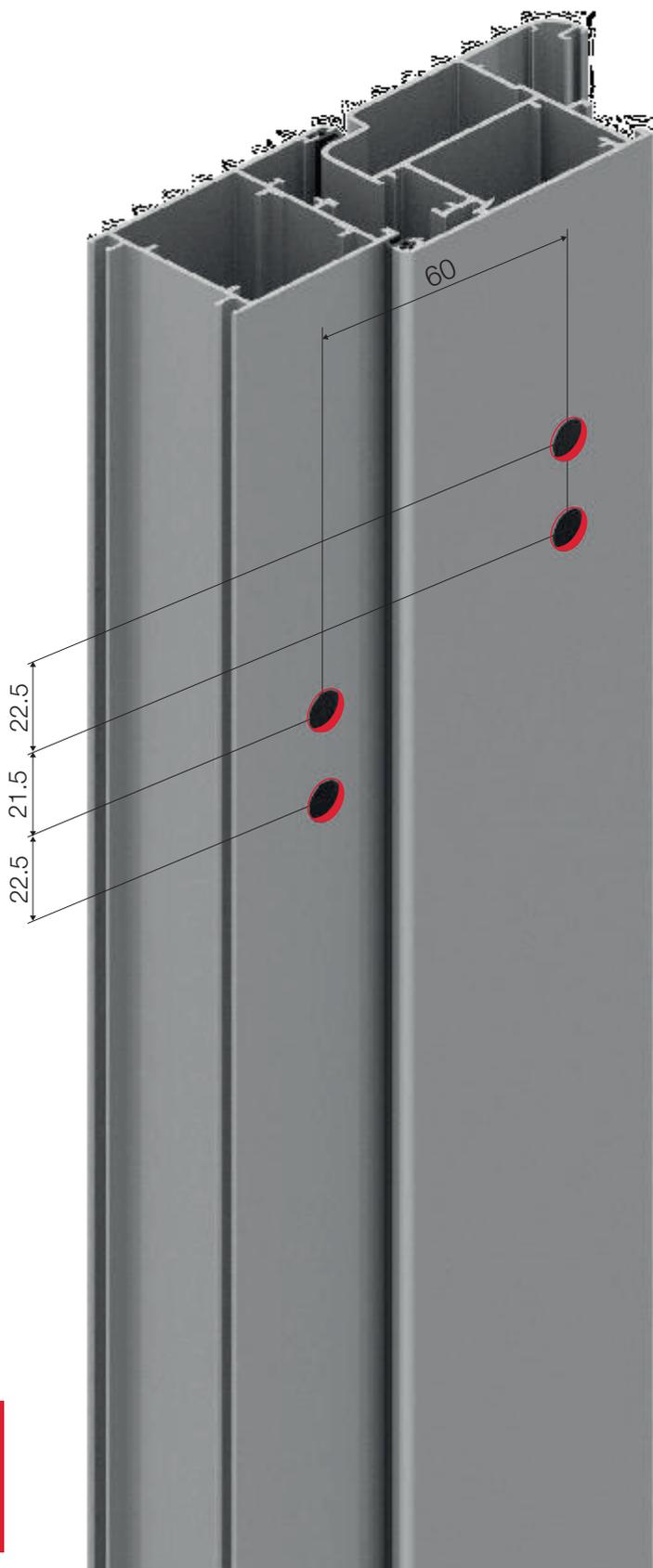
ACP 99126 adjustment key using for Strong hinges



M14

Applicazione cerniere frontali ACP 9964/60 interasse 60mm

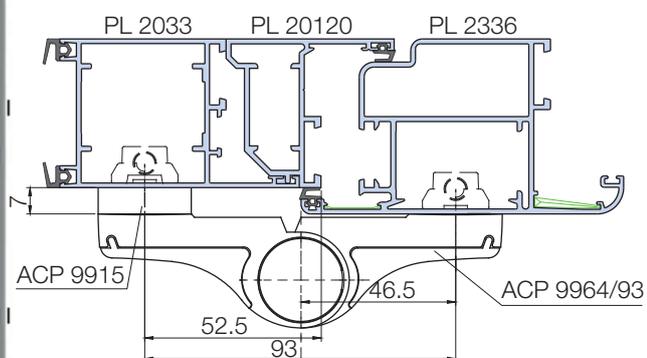
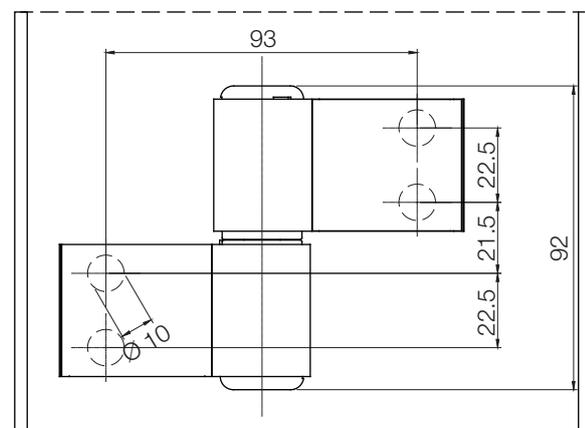
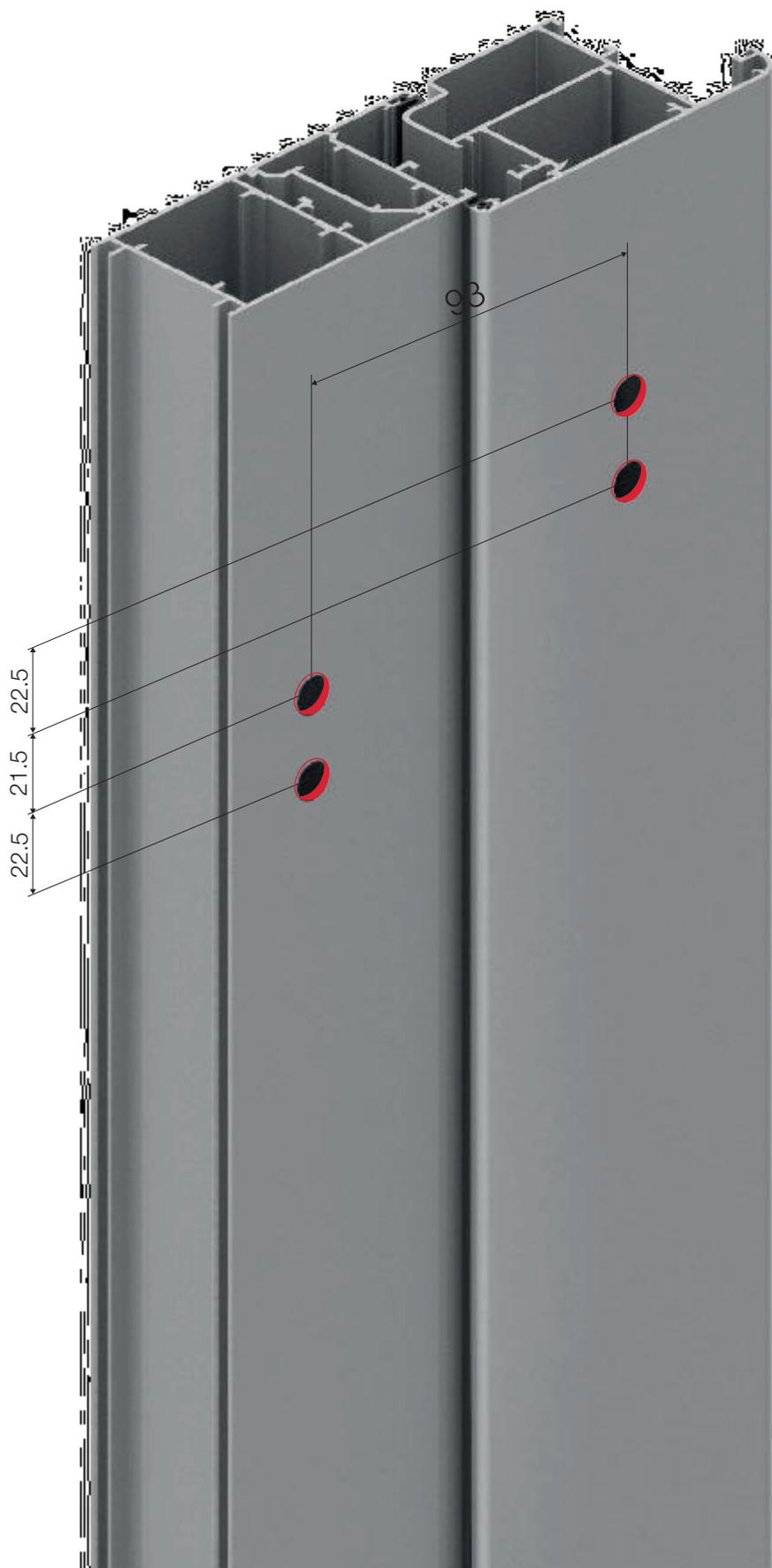
Front hinges ACP 9964/60 application, centre distance 60mm



M15

Applicazione cerniere frontali ACP 9964/93 interasse 93mm

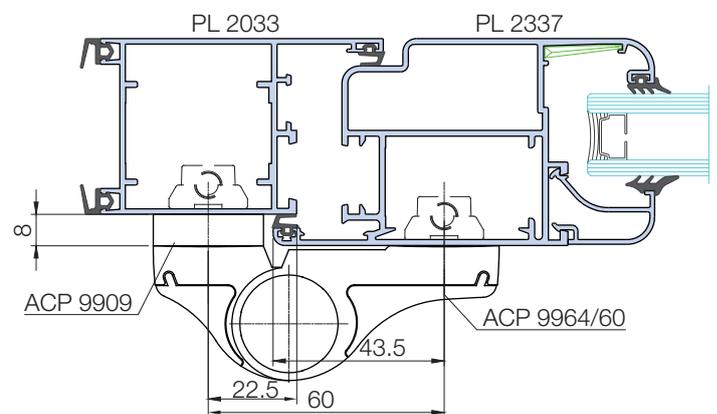
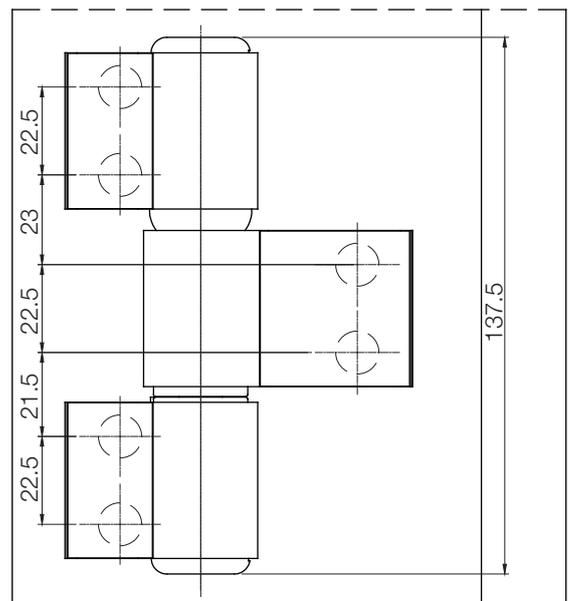
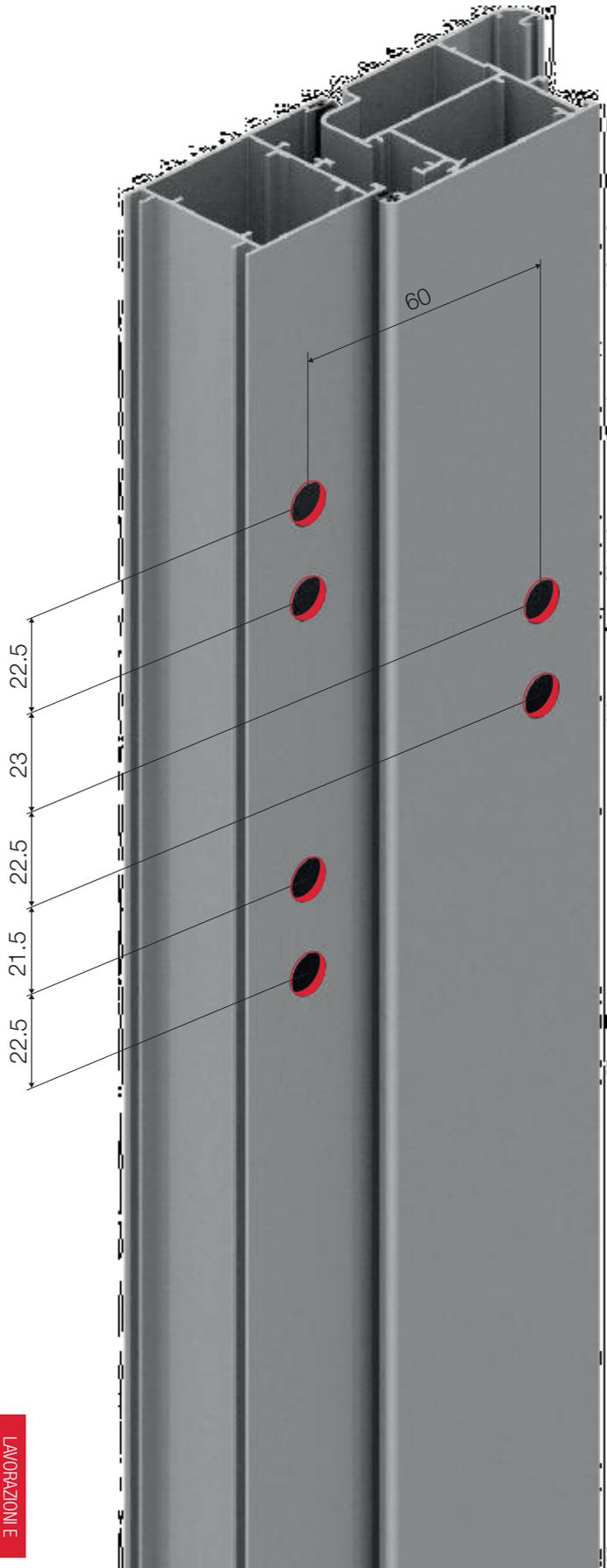
Front hinges ACP 9964/93 application, centre distance 93mm



M16

Applicazione cerniere frontali ACP 9963/60 interasse 60mm

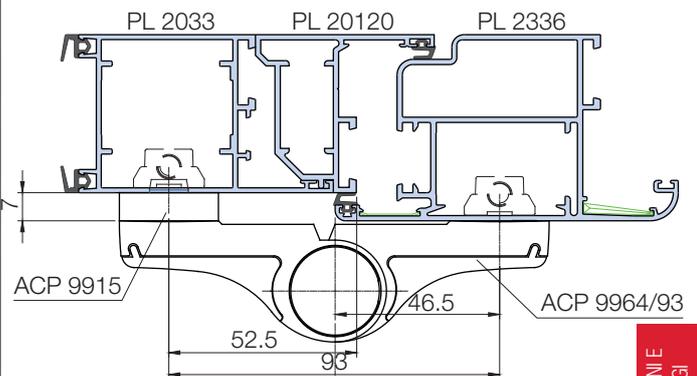
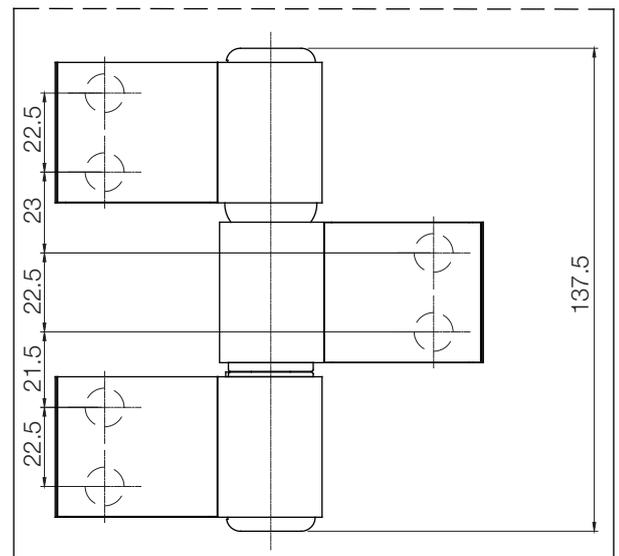
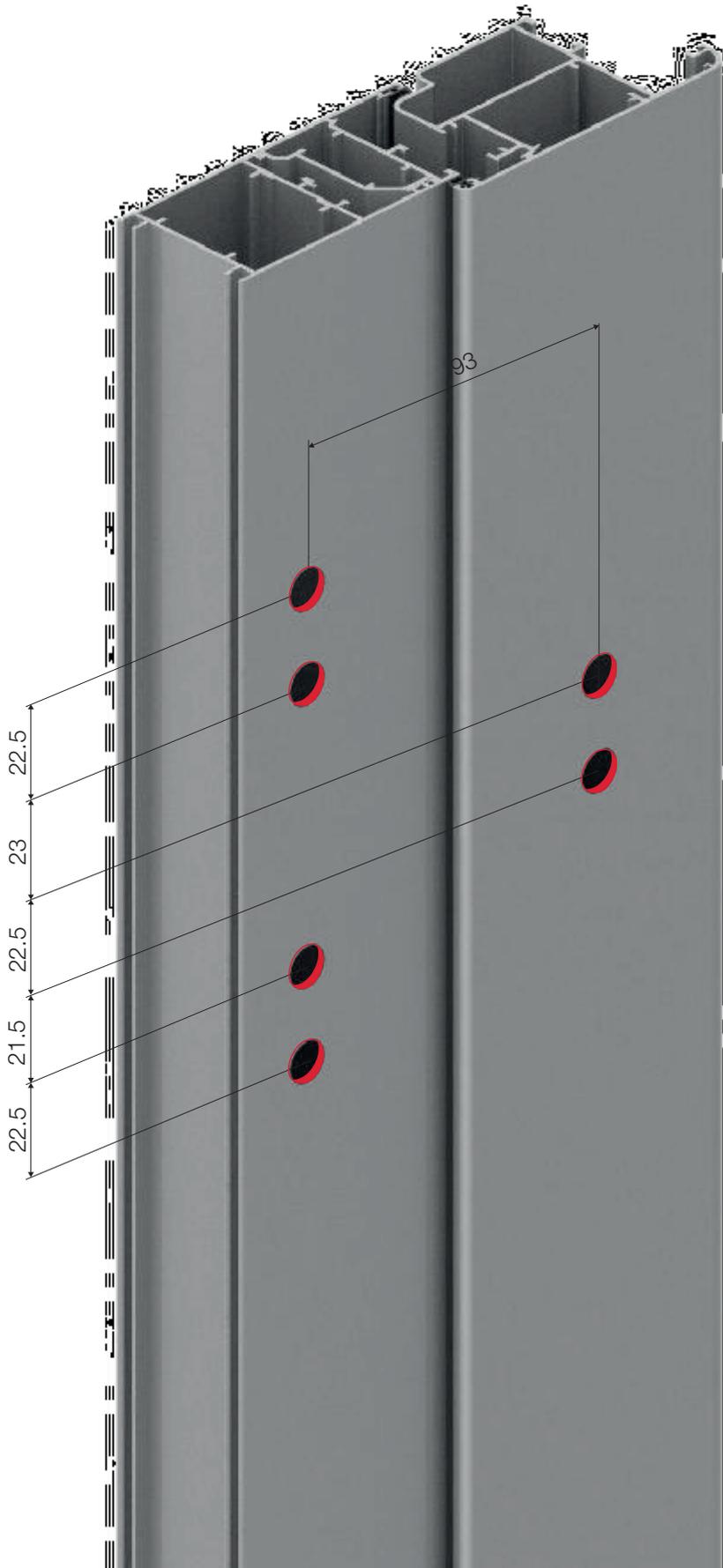
Front hinges ACP 9963/60 application, centre distance 60mm



M17

Applicazione cerniere frontali ACP 9963/93 interasse 93mm

Front hinges ACP 9963/93 application, centre distance 93mm



M18

Montaggio SECRET anta a ribalta

SECRET tilt & turn hinge assembly

PESO MASSIMO DELL'ANTA (ALLUMINIO E VETRO)

Maximum wing weight (aluminium and glass)

2500	100	100	100	100	100	100	100	100	100	100	100	100
2400	100	100	100	100	100	100	100	100	100	100	100	100
2300	100	100	100	100	100	100	100	100	100	100	100	100
2200	100	100	100	100	100	100	100	100	100	100	100	100
2100	100	100	100	100	100	100	100	100	100	100	100	100
2000	100	100	100	100	100	100	100	100	100	100	100	100
1900	100	100	100	100	100	100	100	100	100	100	100	100
1800	100	100	100	100	100	100	100	100	100	100	100	100
1700	100	100	100	100	100	100	100	100	100	100	100	98
1600	100	100	100	100	100	100	100	100	100	100	99	92
1500	100	100	100	100	100	100	100	100	100	100	93	87
1400	100	100	100	100	100	100	100	100	100	93	87	81
1300	100	100	100	100	100	100	100	94	87	80	80	75
1200	100	100	100	100	100	100	95	87	80	74	74	69
1100	100	100	100	100	100	100	95	87	79	73	68	
1000	100	100	100	100	100	96	87	79	72	67		
900	100	100	100	98	87	78	71	65				
800	100	100	99	87	77	69	63					
700	100	100	87	76	67	61						
600												
	445	500	600	700	800	900	1000	1100	1200	1300	1400	1500

Altezza anta (mm)
Wing height (mm)

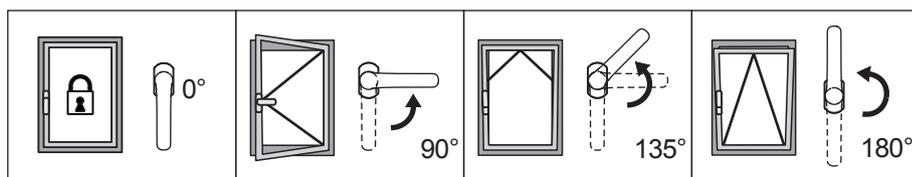
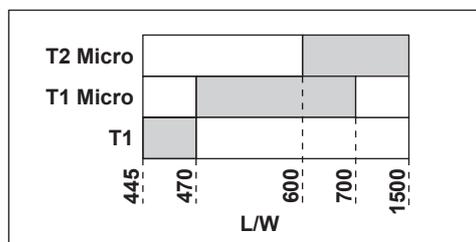
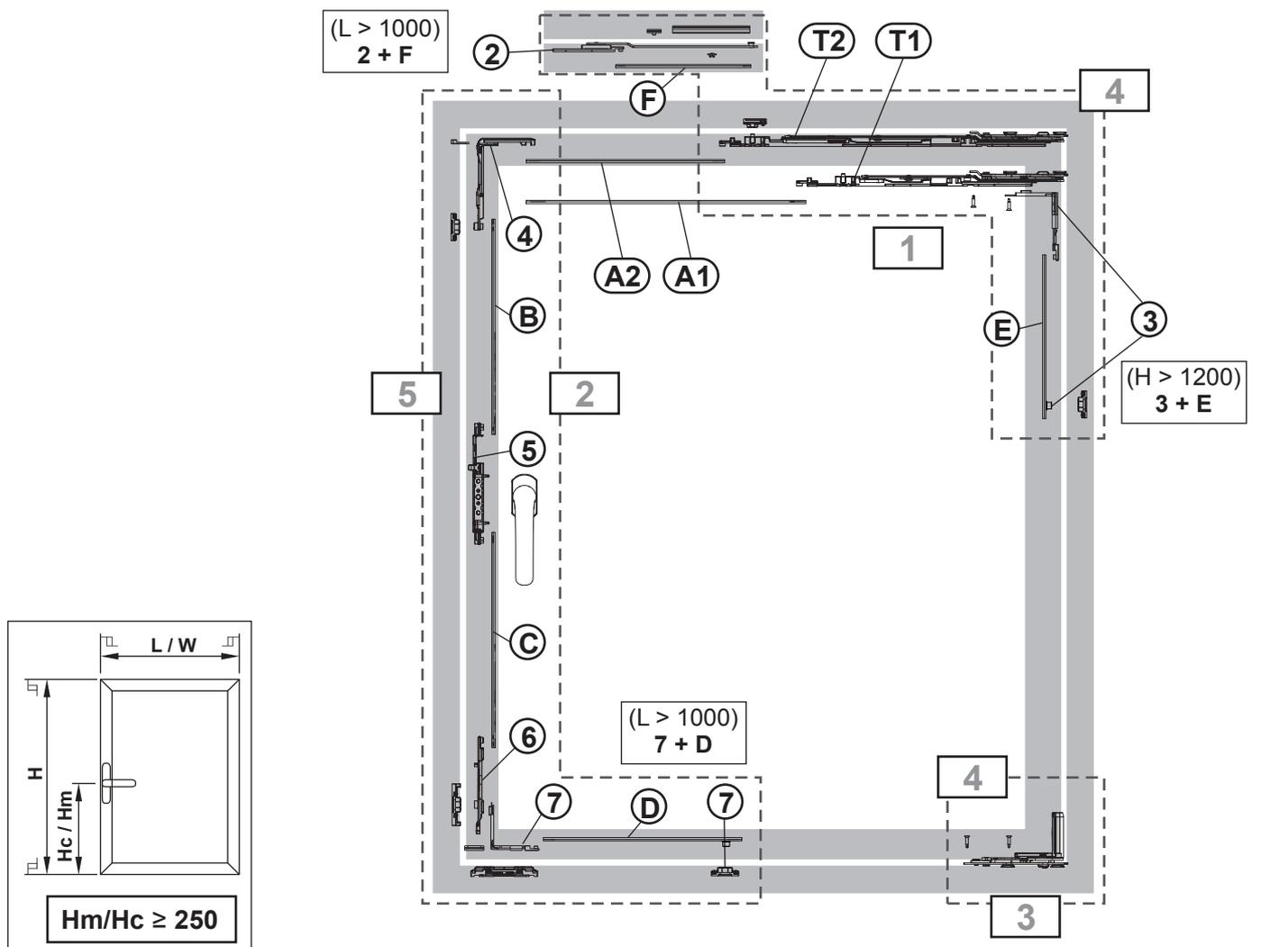
Larghezza anta (mm)
Wing width (mm)



Non realizzabile
Not possible

Le portate e il perfetto funzionamento dell'accessorio vengono garantiti solo se non vi sono impedimenti nella movimentazione dell'anta che forzino in modo anomalo le cerniere (ad esempio spallature, tappi od altri elementi di arresto).

The capacities and correct functioning of the accessory are only guaranteed if there are no obstacles preventing movement of the wing which force the hinges excessively (such as protrusions, stoppers or other stop elements)



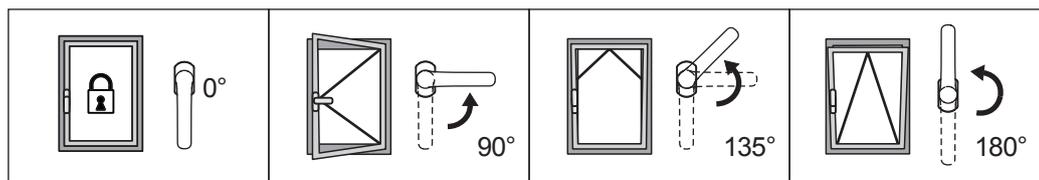
2500		<p>A1=L-415 B=H-Hc-207 C=Hc-207 E=H/2-69</p>		<p>A1=L-415 B=H-Hc-207 C=Hc-207 E=H/2-69</p>		<p>A2=L-538 B=H-Hc-207 C=Hc-207 E=H/2-69</p>		<p>F=L-633 B=H-Hc-207 C=Hc-207 D=L/2-69 E=H/2-69</p>	
1200		<p>A1=L-415 B=H-Hc-207 C=Hc-207</p>		<p>A1=L-415 B=H-Hc-207 C=Hc-207</p>		<p>A2=L-538 B=H-Hc-207 C=Hc-207</p>		<p>F=L-633 B=H-Hc-207 C=Hc-207 D=L/2-69</p>	
600	445	T1	470	T1 Micro	700	T2 Micro	1000	T2 Micro	1500

Sotto i 470mm non si può montare la microventilazione

It's not possible to use microventilation for < 470mm

Oltre i 1000mm occorre il braccio supplementare

Usage additional arm for >1000mm



CHIUSA

Closed window

BATTENTE

Casement window

MICRO VENTILAZIONE

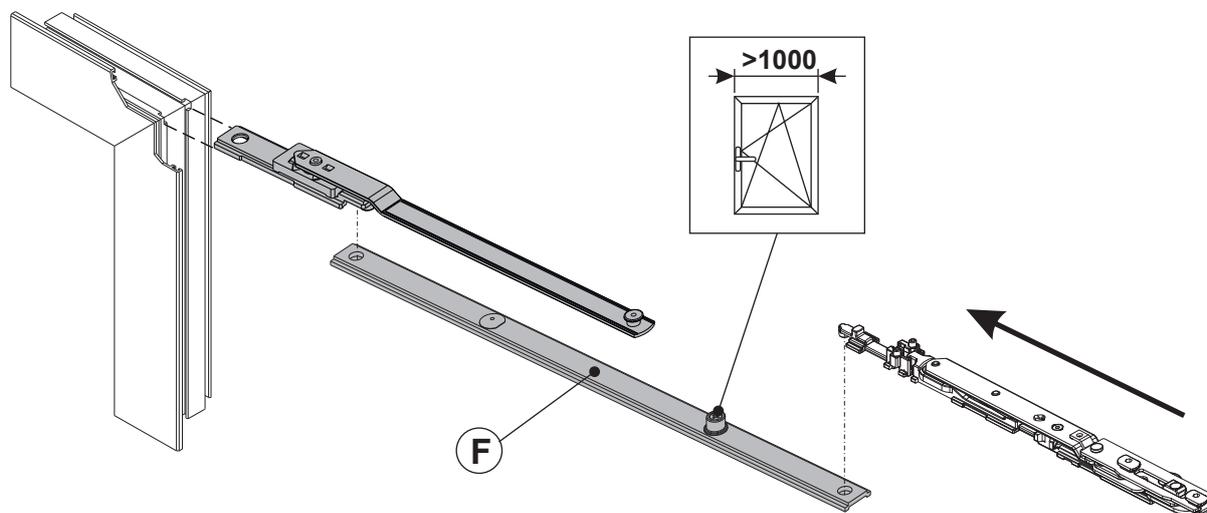
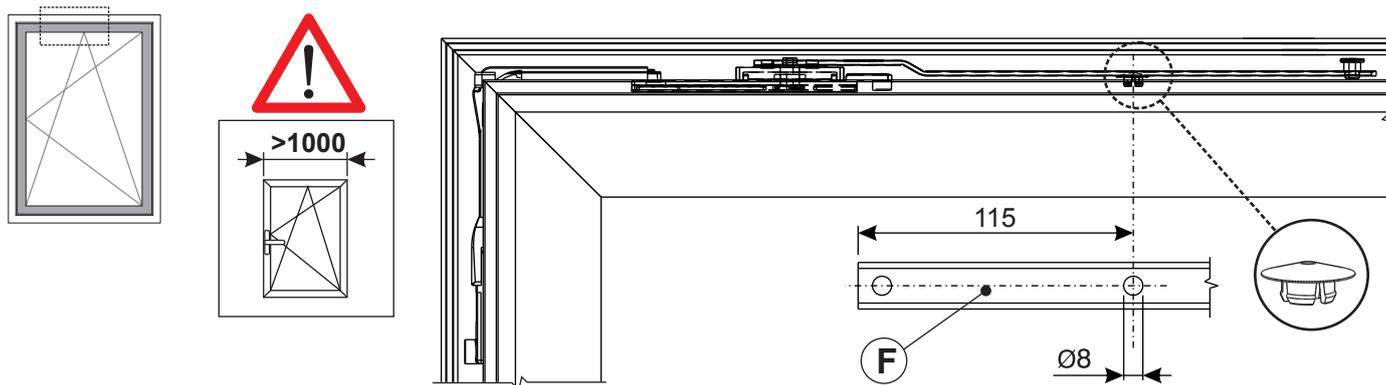
Microventilation

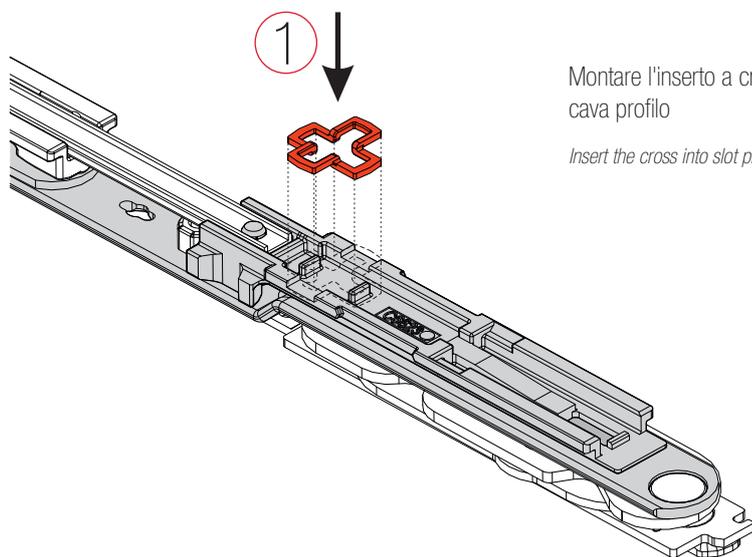
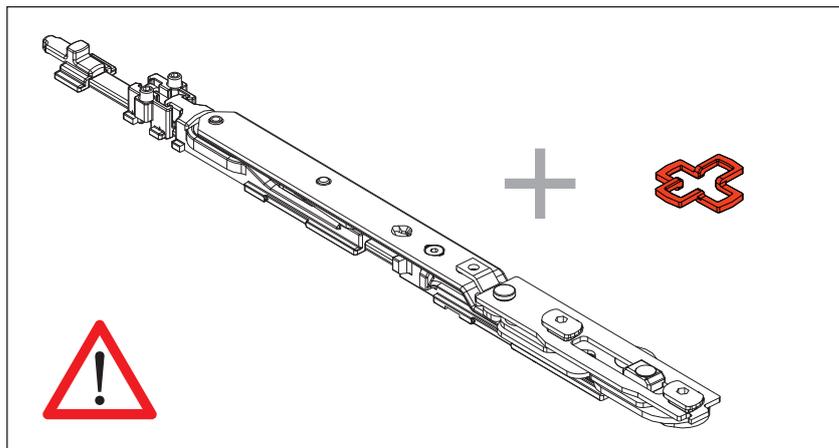
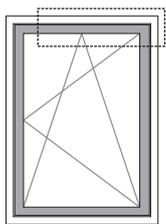
ANTA A RIBALTA

Tilt & Turn window

Montaggio del braccio supplementare ACP 5153 per aperture superiori a 1000mm

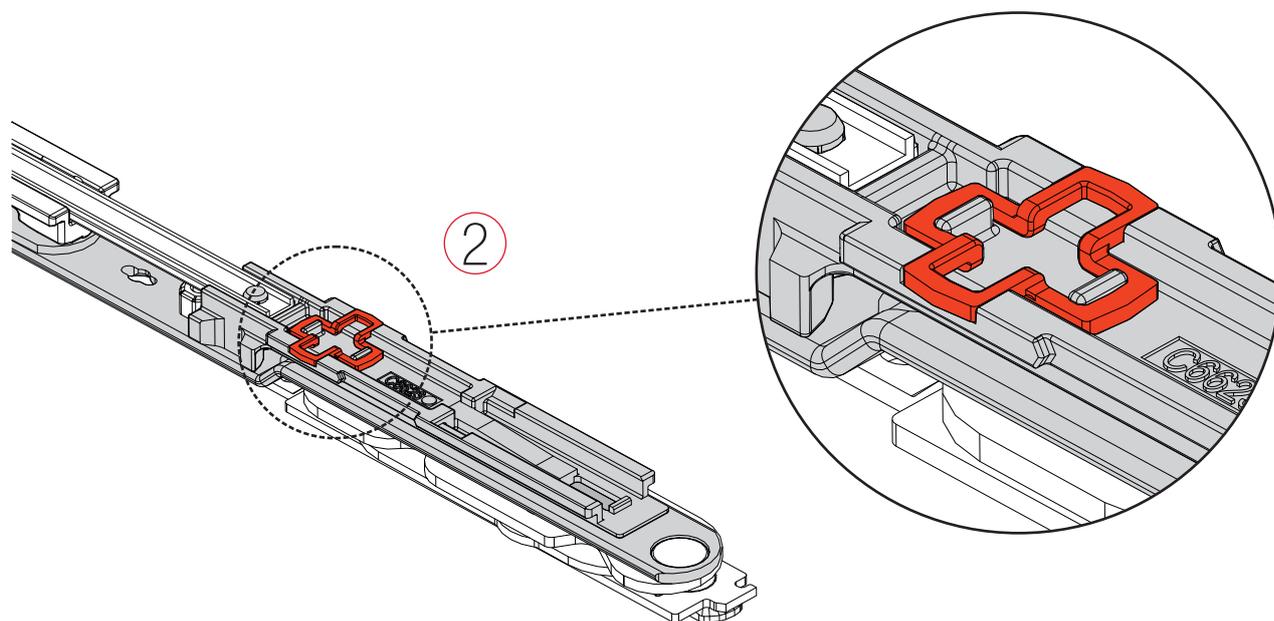
Usage additional arm ACP 5153 for >1000m

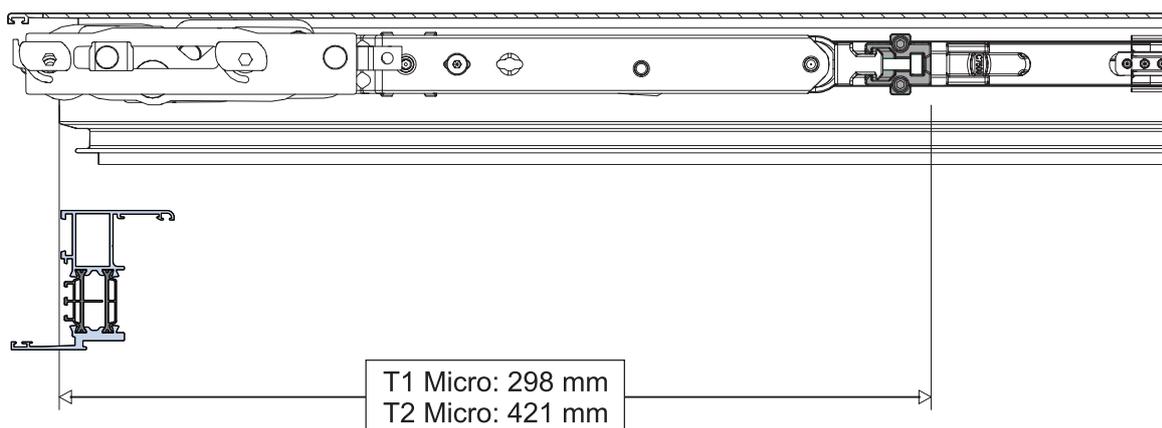
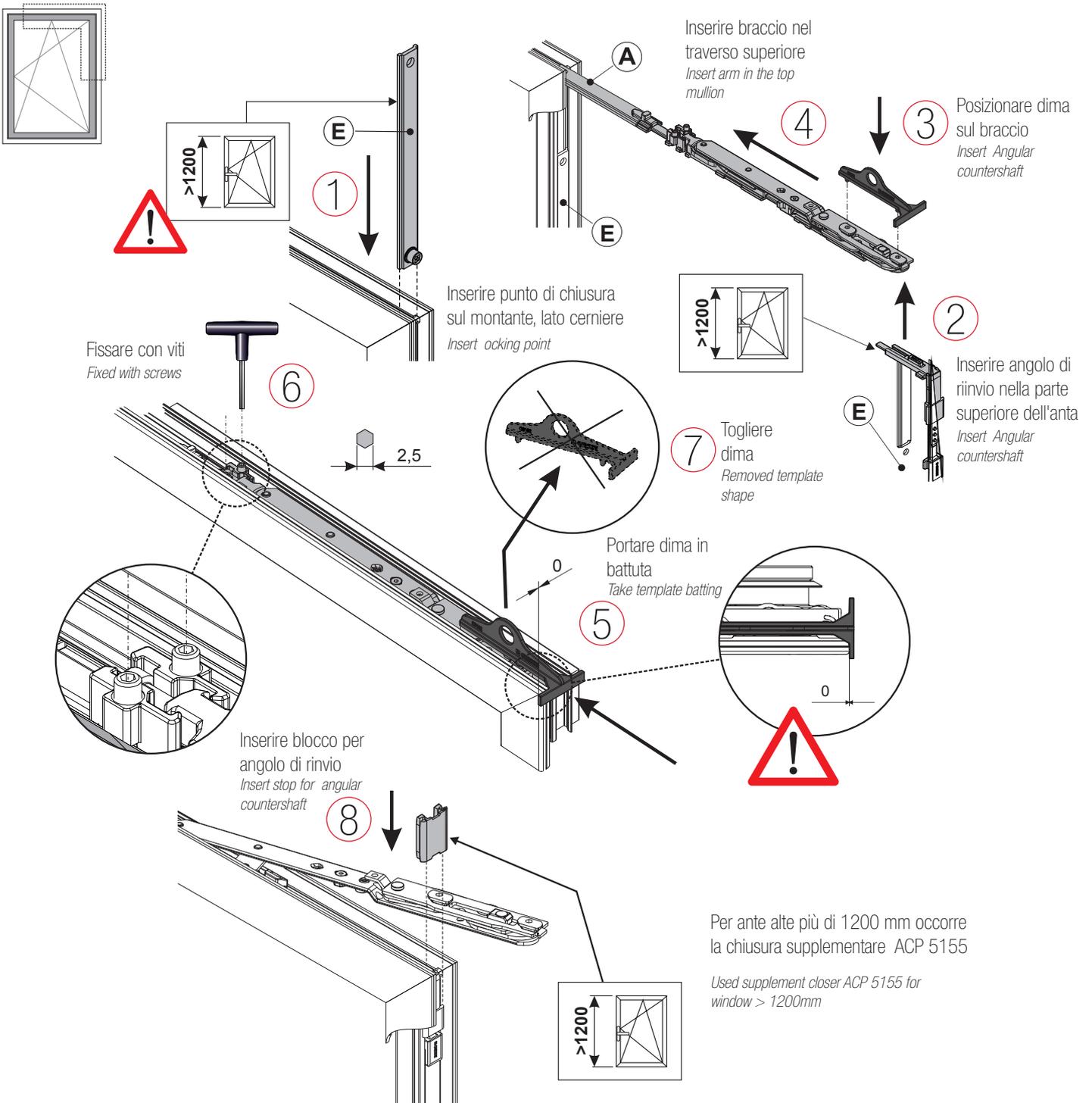




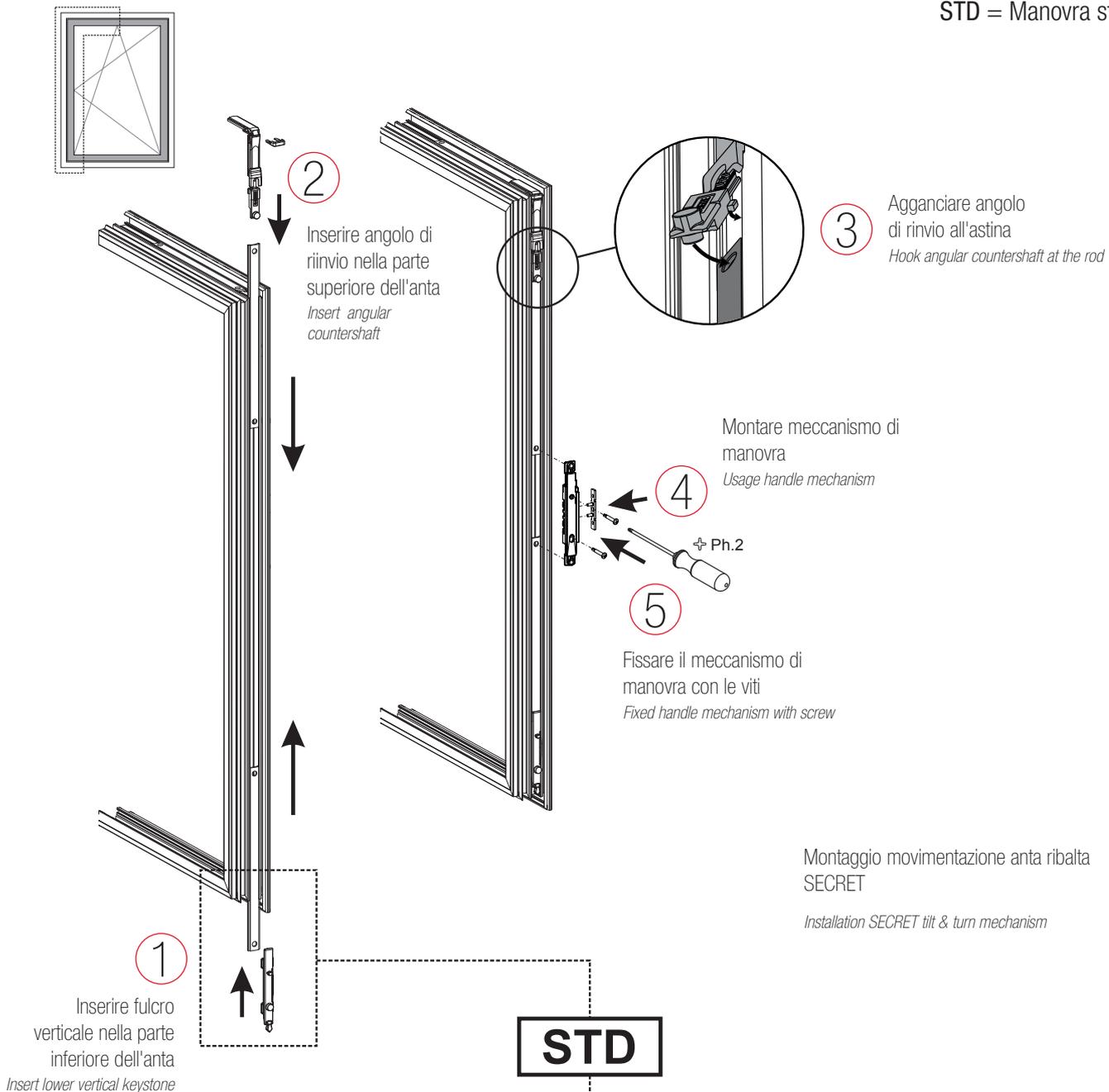
Montare l'inserto a croce prima di inserire il braccio per eliminare i giochi con la cava profilo

Insert the cross into slot profile

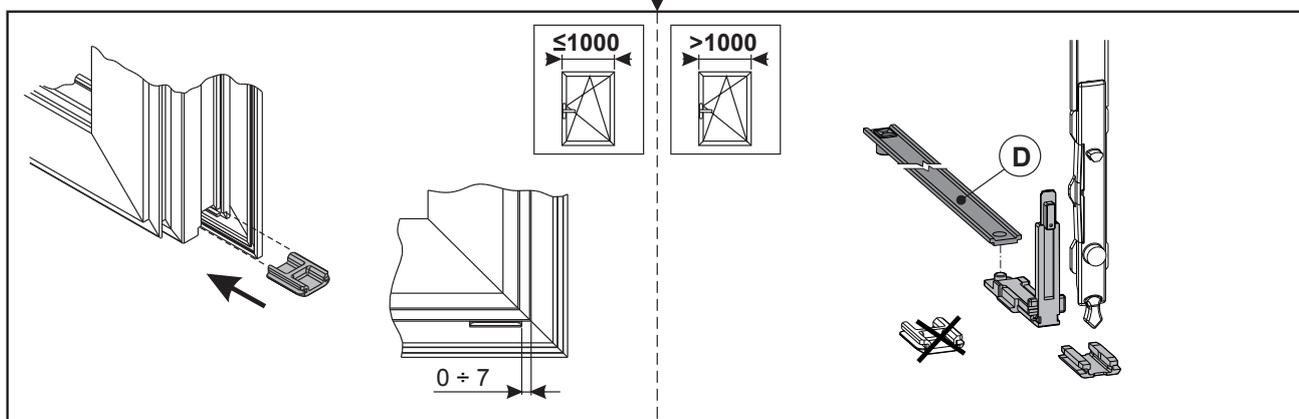




STD = Manovra standard

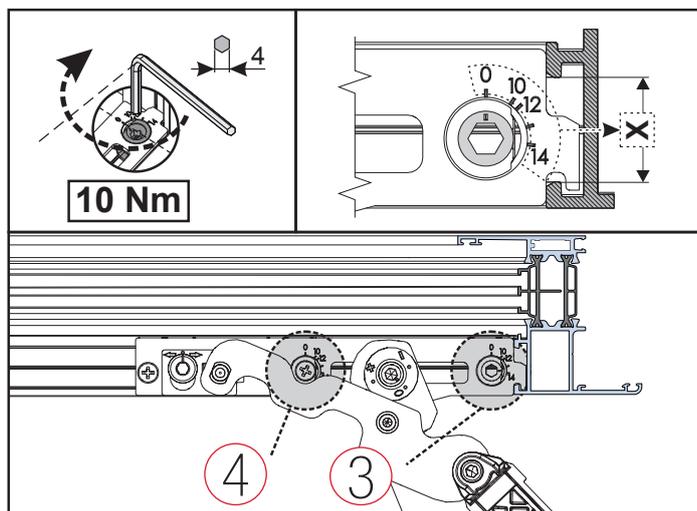
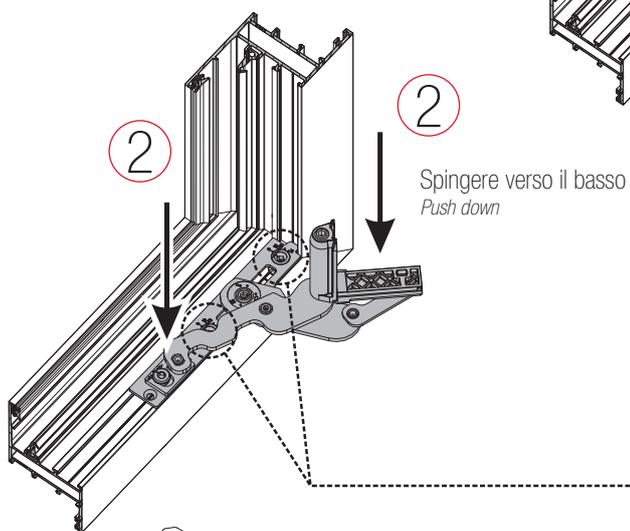
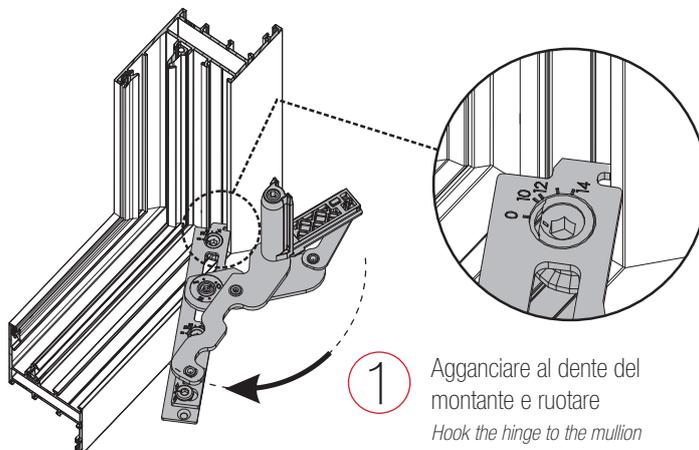


STD

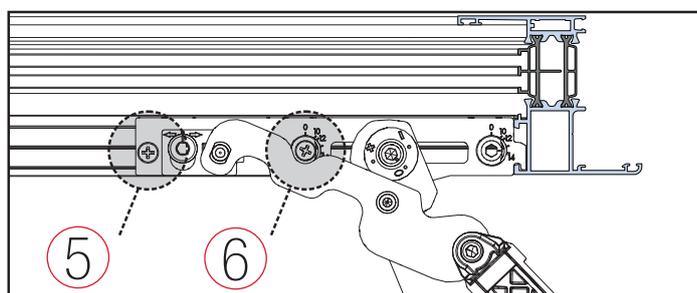
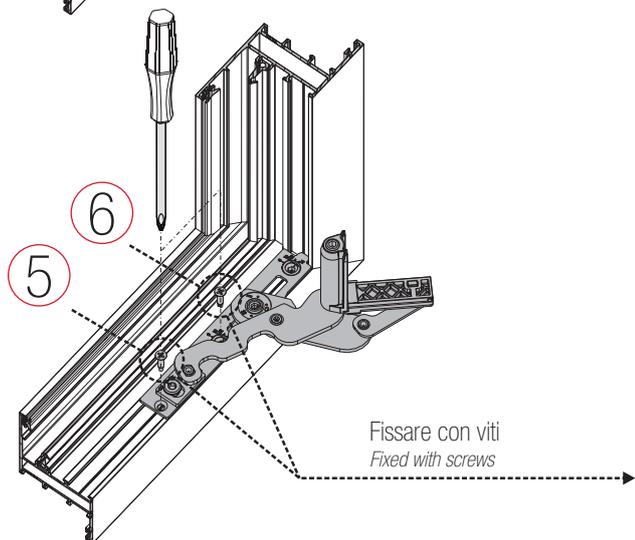




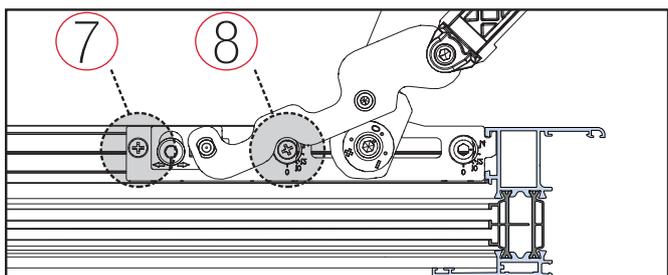
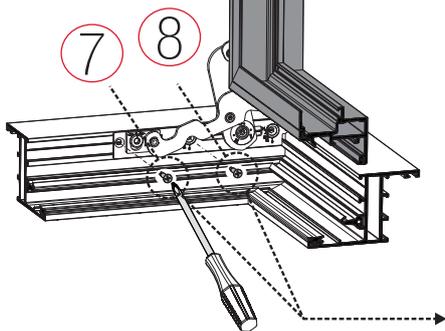
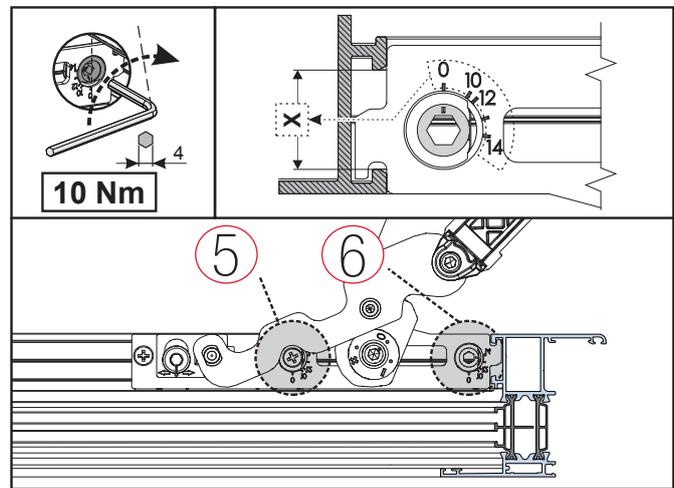
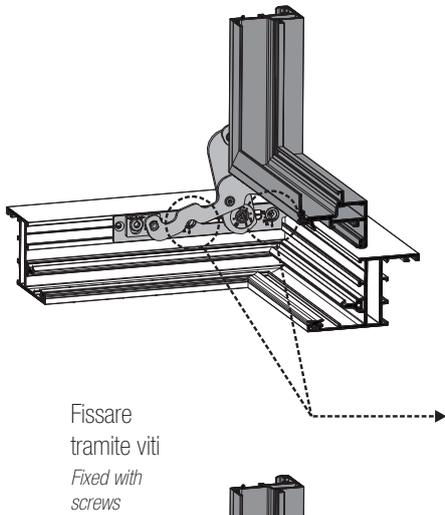
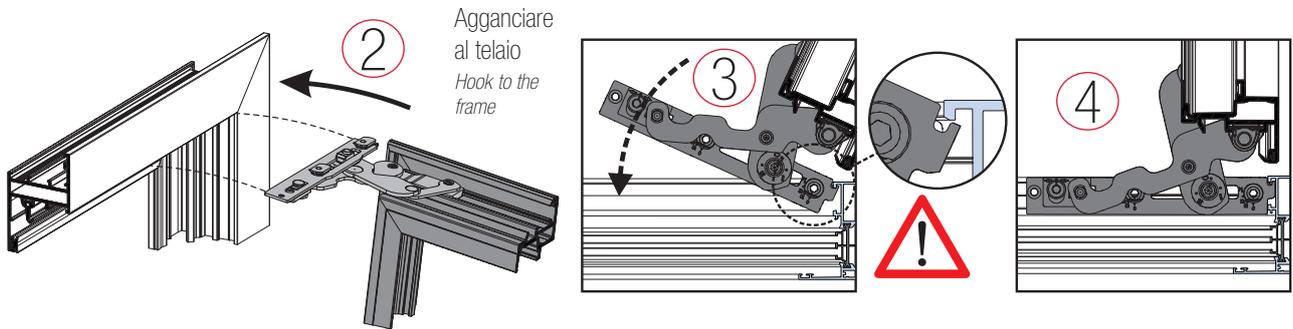
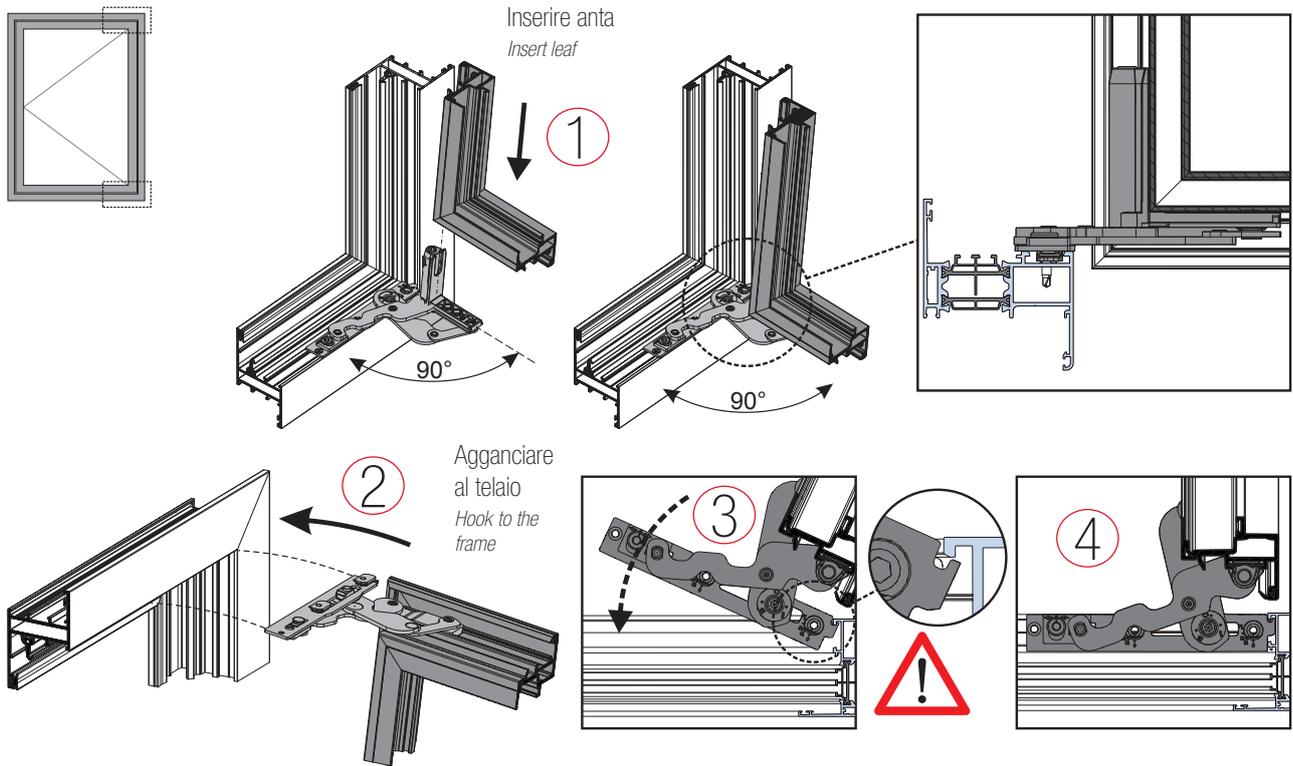
Montaggio cerniera SECRET
Installation SECRET hinge



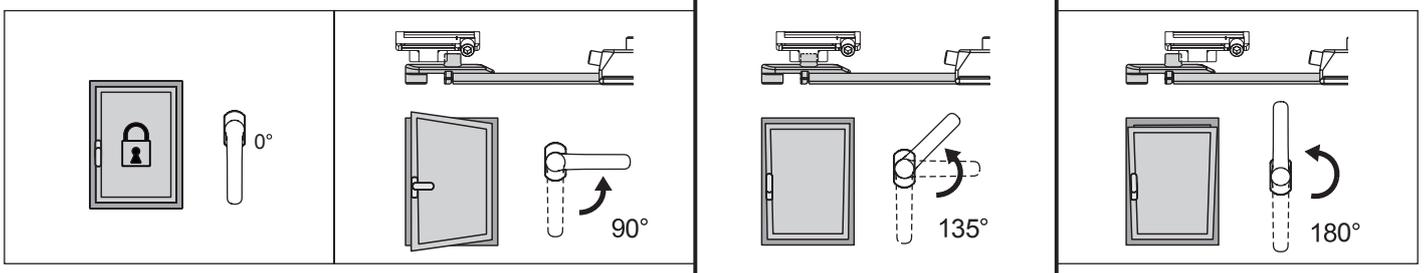
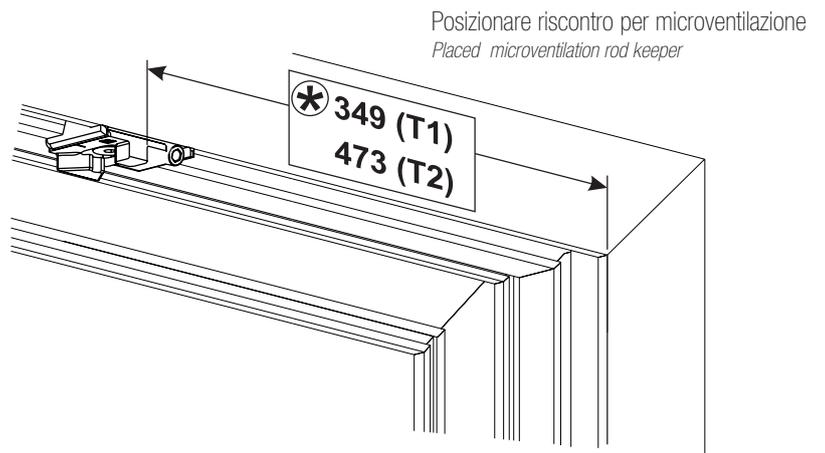
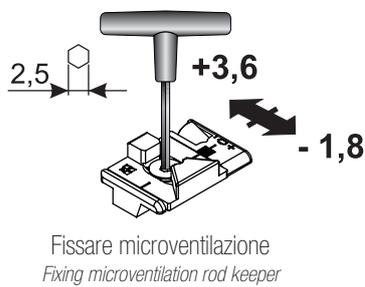
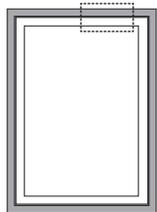
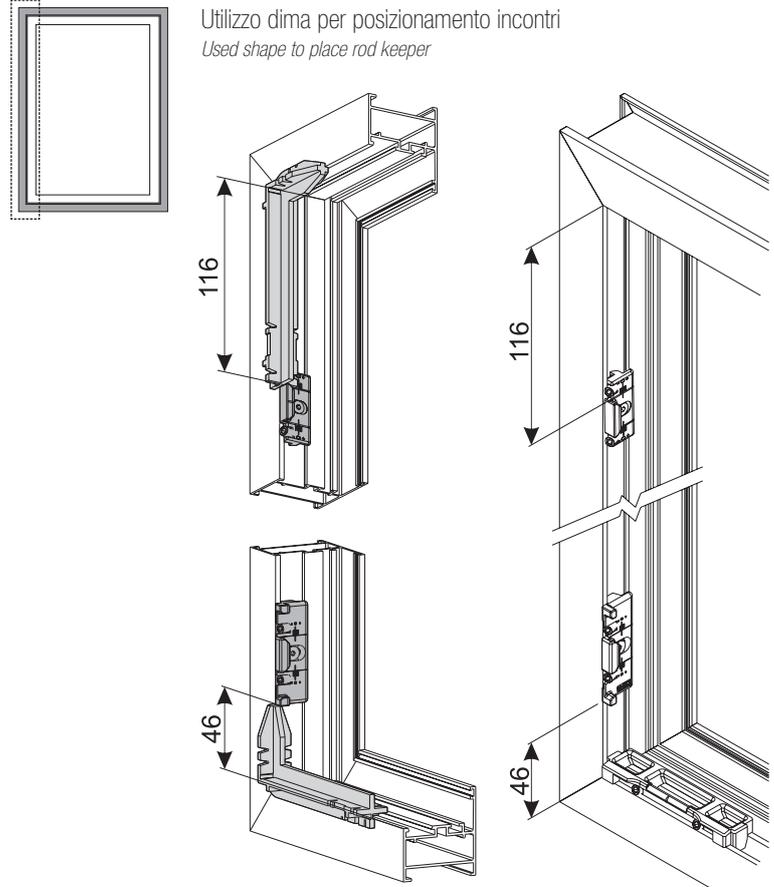
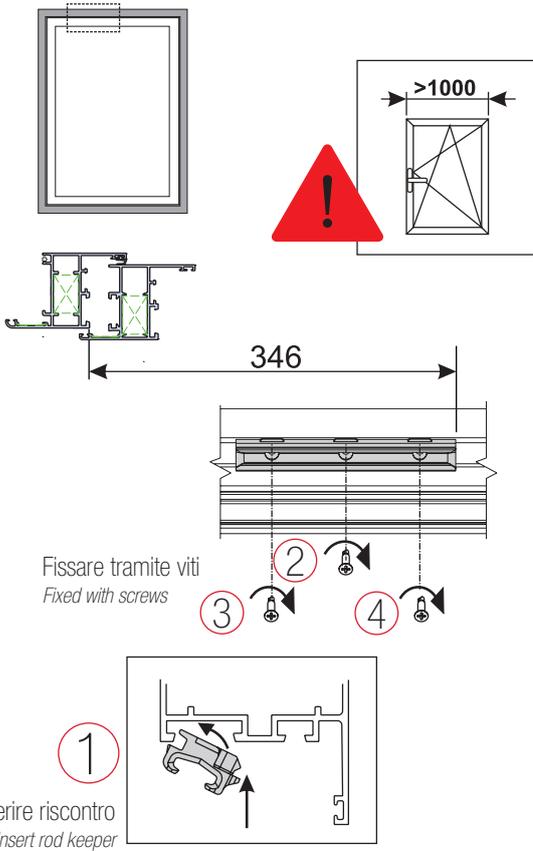
Girare Cam
Screwed Cam

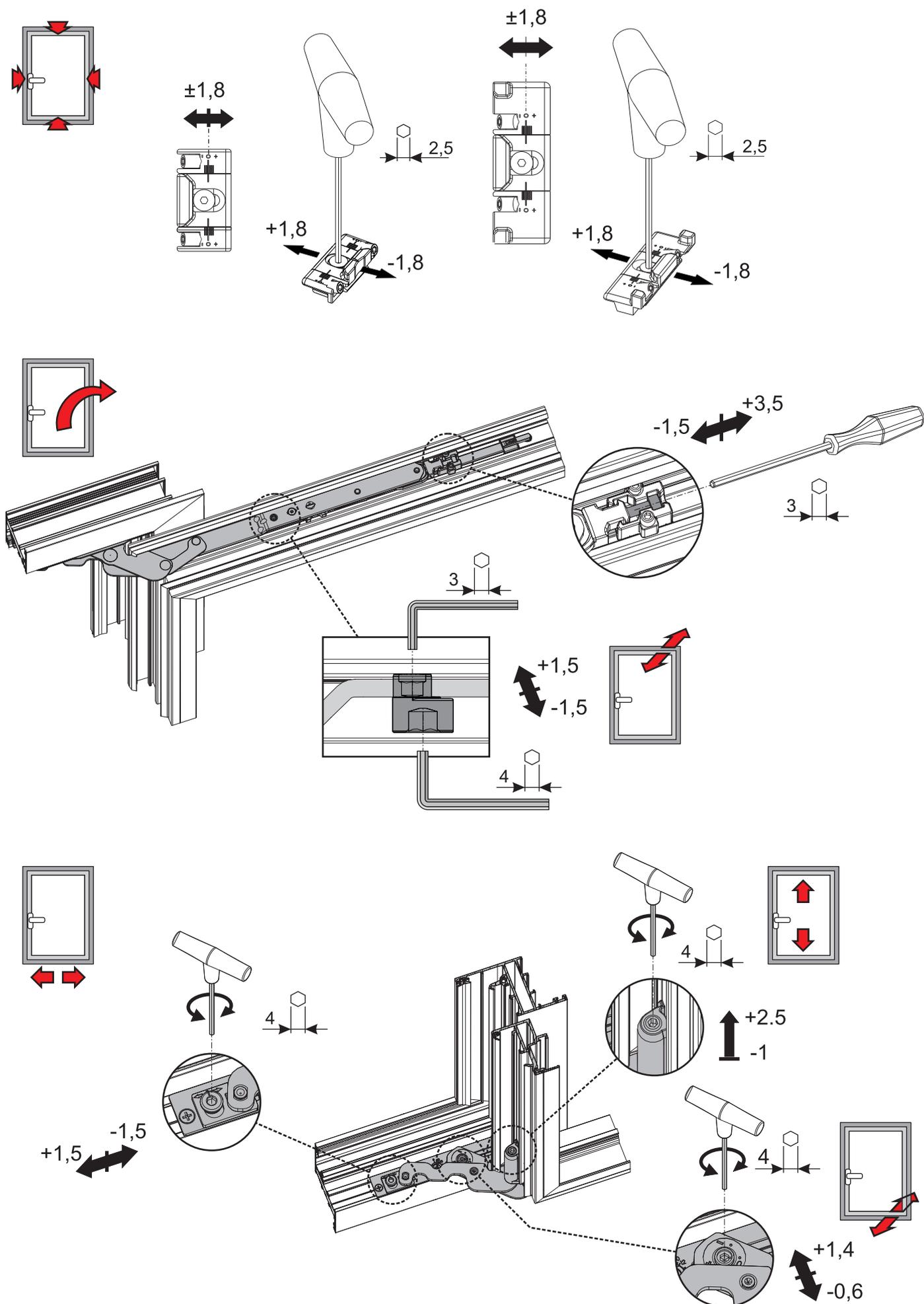


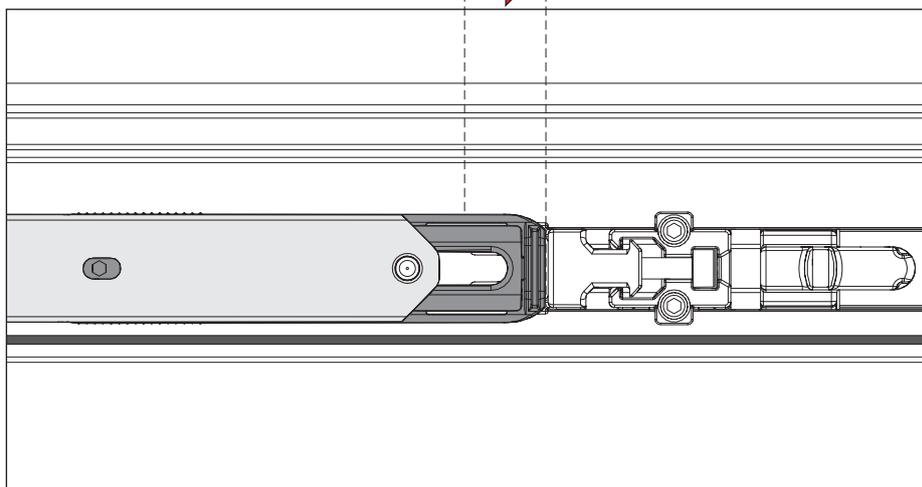
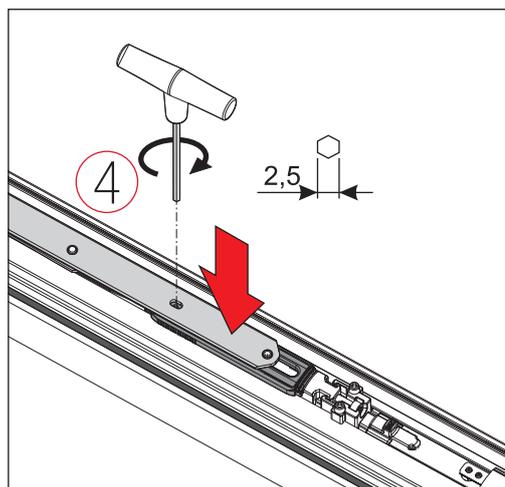
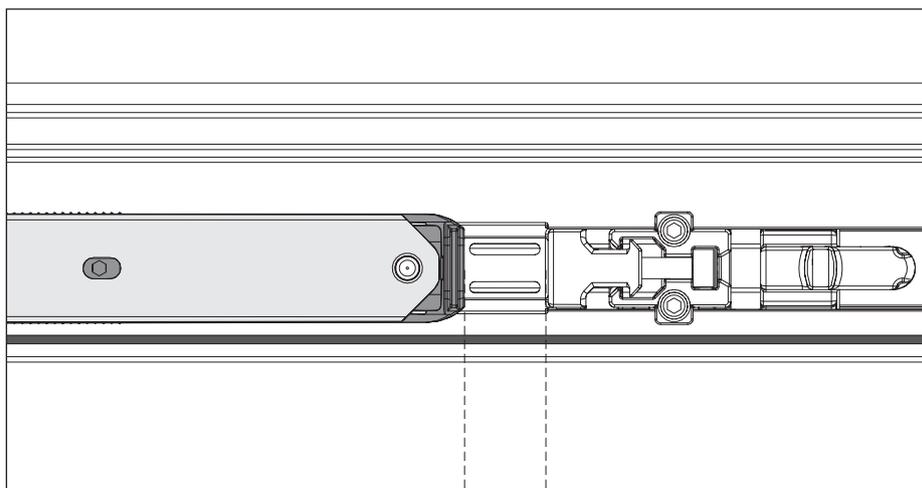
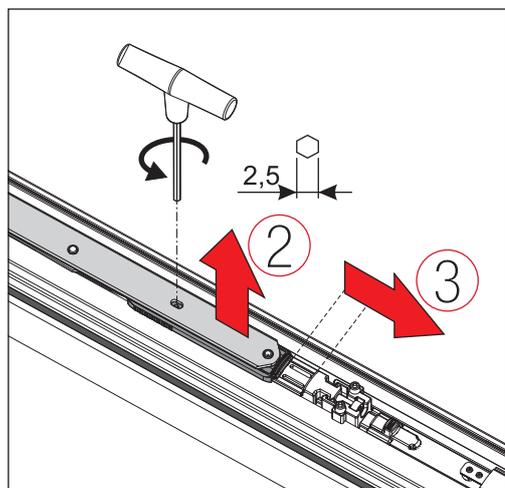
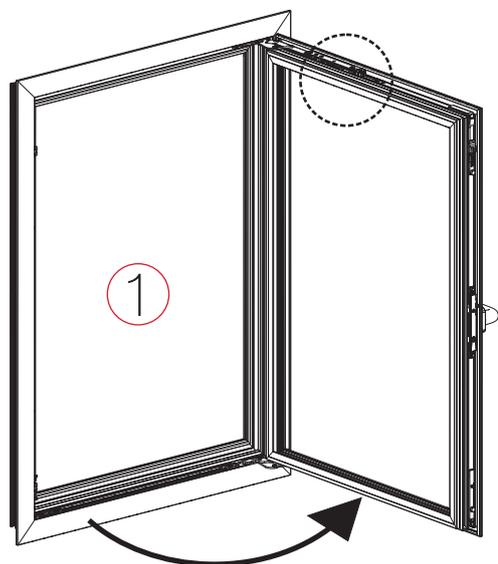
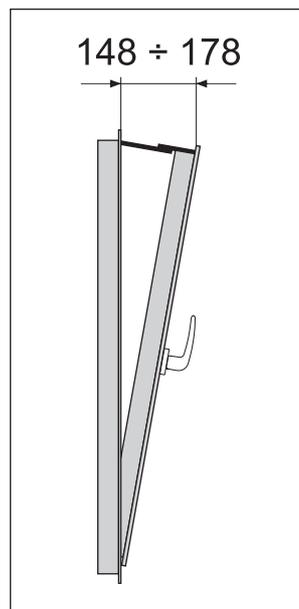
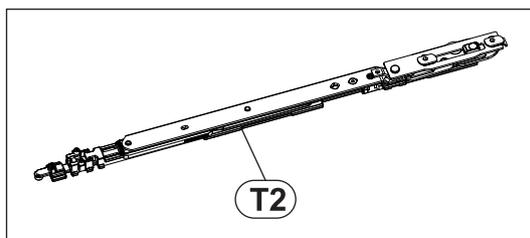
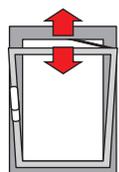
Stringere le viti
Tighten screws

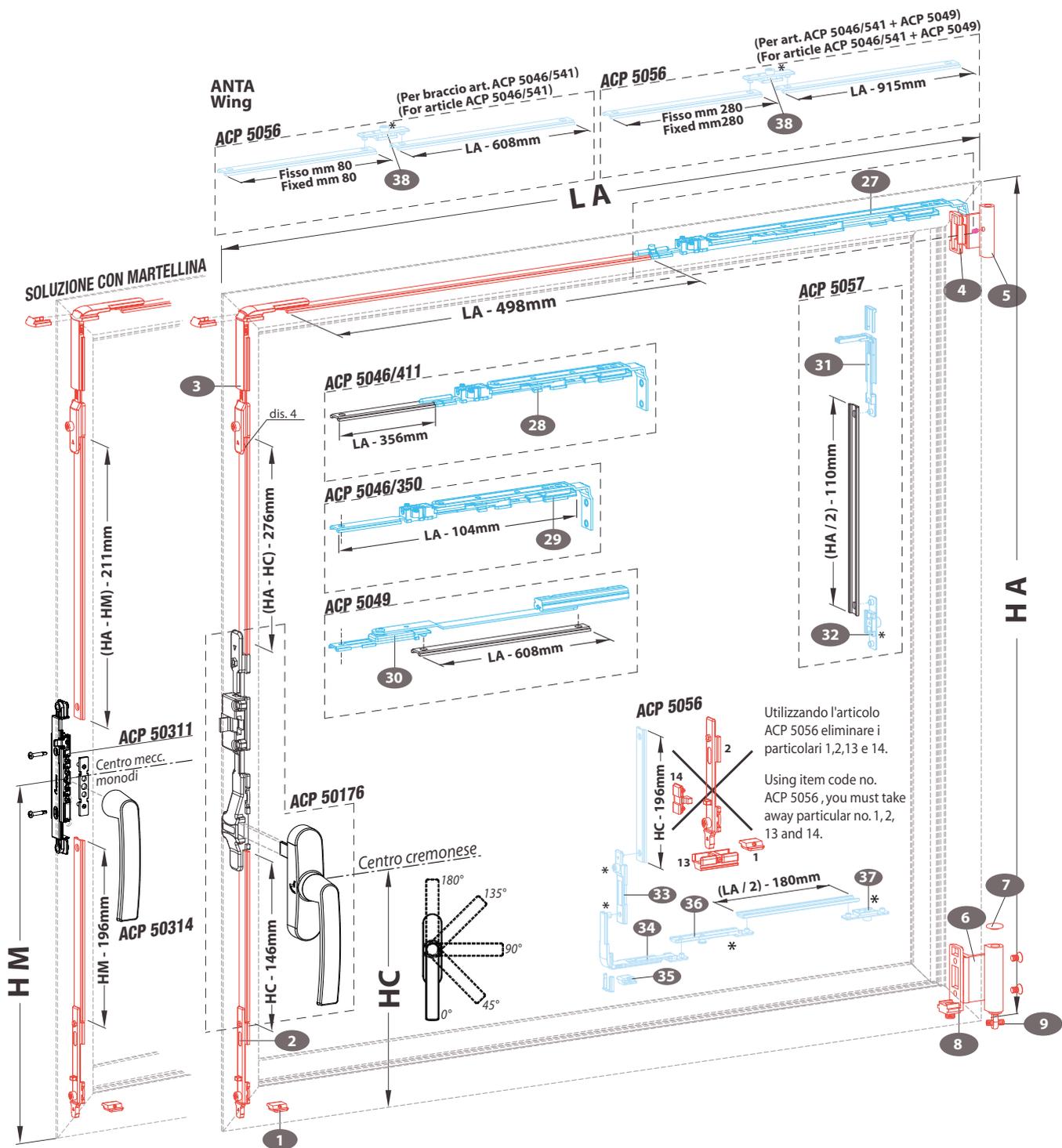


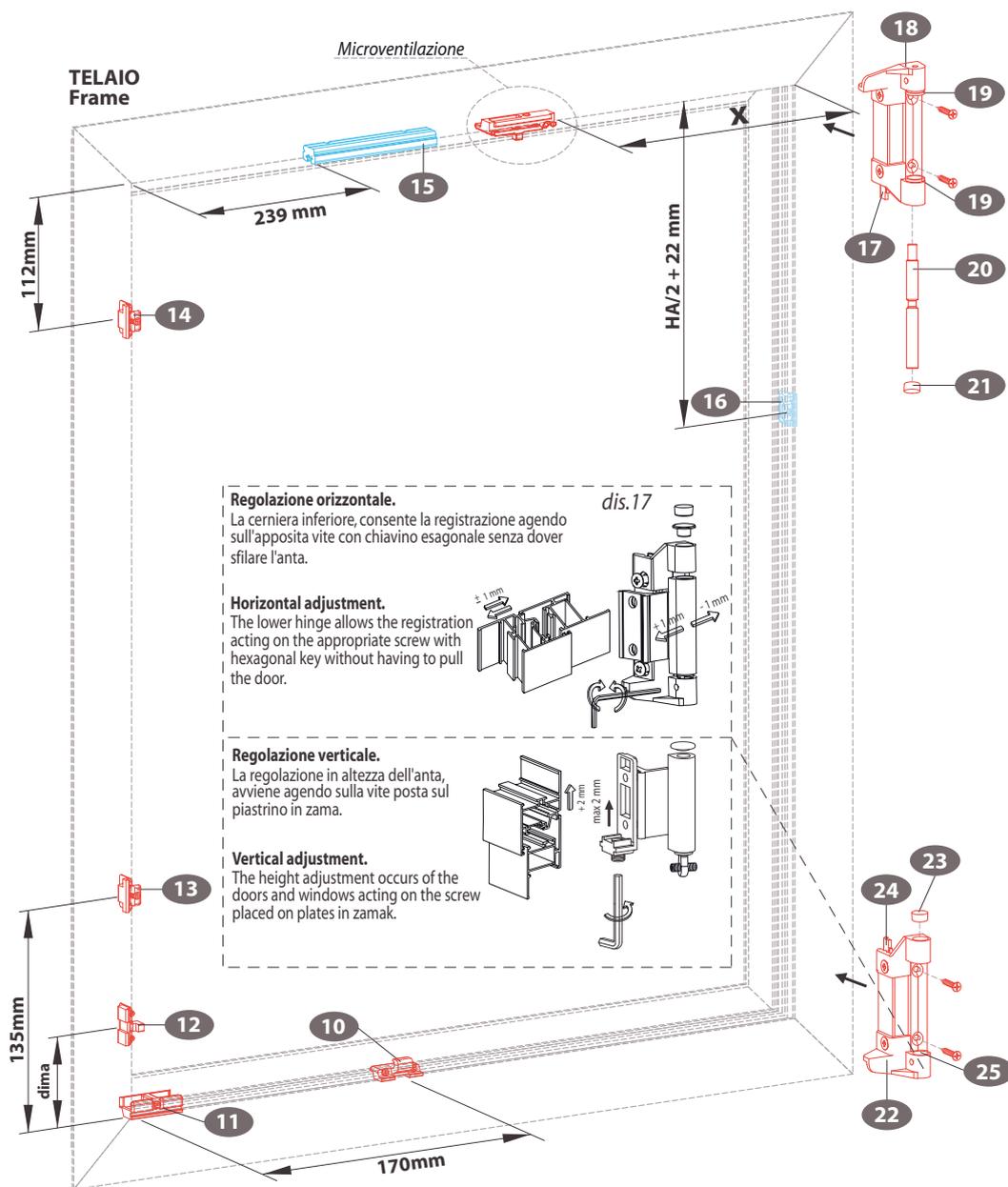
Stringere le viti
Tighten screws











Regolazione orizzontale.
La cerniera inferiore, consente la registrazione agendo sull'apposita vite con chiavino esagonale senza dover sfilare l'anta.

Horizontal adjustment.
The lower hinge allows the registration acting on the appropriate screw with hexagonal key without having to pull the door.

Regolazione verticale.
La regolazione in altezza dell'anta, avviene agendo sulla vite posta sul piastrino in zamak.

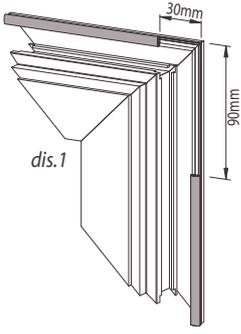
Vertical adjustment.
The height adjustment occurs of the doors and windows acting on the screw placed on plates in zamak.

dis.17

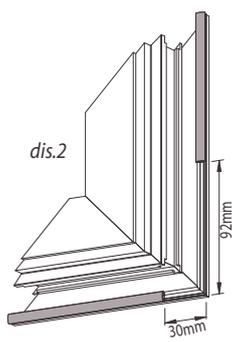
ACCESSORIO	X
ACP 5046/541	437mm
ACP 5046/411	294mm

La posizione della microventilazione è suscettibile di variazioni in base alla regolazione del braccio

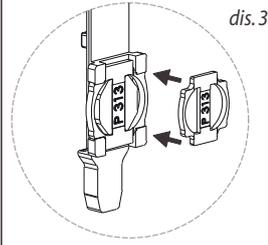
Taglio guarnizione cerniera superiore
Upper hinge seal cutting



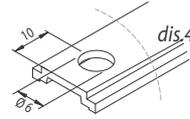
Taglio guarnizione cerniera inferiore
Lower hinge seal cutting



Molla di frizione in nylon a due alette per un miglior funzionamento e facilità di posa sulla ferramenta.
Two-wing nylon friction for a better working and easier positioning on hardware.



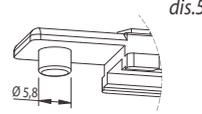
Foro astina
Rod hole



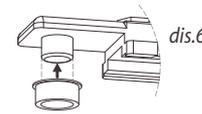
Per interasse foro astine inferiore a mm 11, aumentare le quote delle formule taglio astine pari alla differenza moltiplicato per due.

For centric distances with rod hole inferior to 11 mm increase the dimensions of the formulas for cut rods equal to the difference multiplied by two.

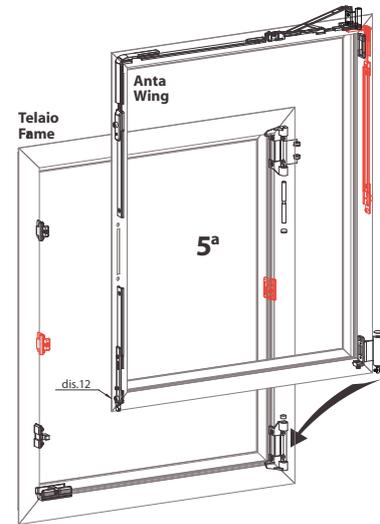
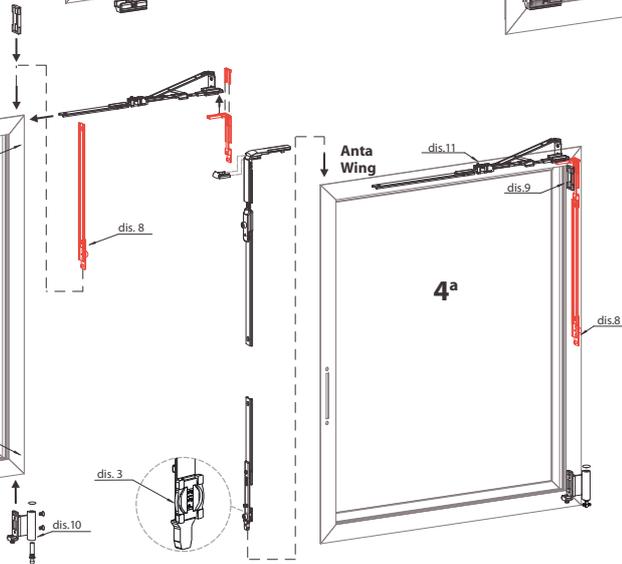
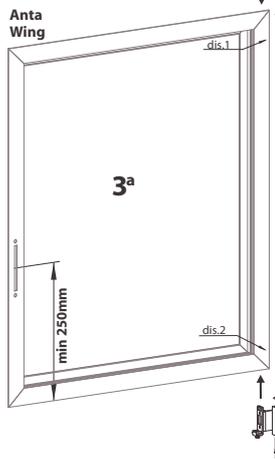
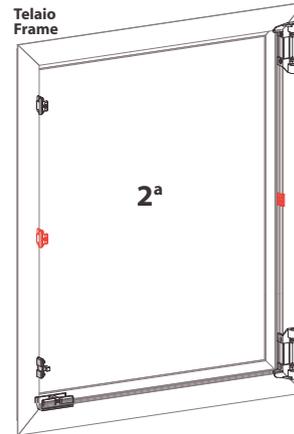
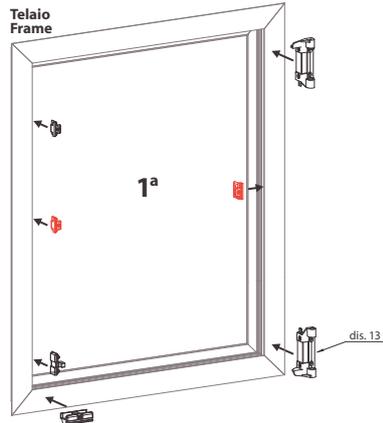
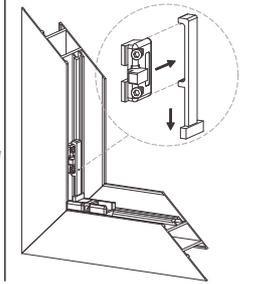
Gli agganci astina sono predisposti per fori da mm 6.
The rod couplings are pre-arranged for 6 mm holes.



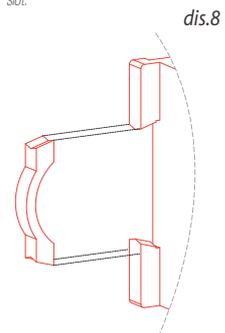
Per fori da mm 8 inserire la boccola in dotazione
For 8 mm holes insert the bushing provided



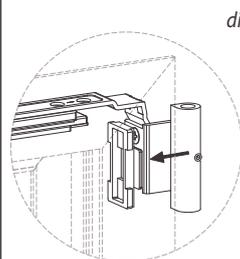
Posizionamento riscontro inferiore con dima nylon.
Positioning of flower striker with nylon template.



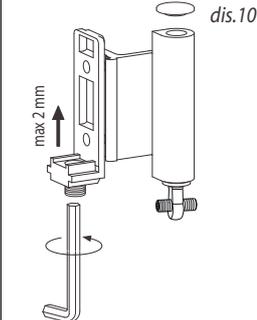
Inserire le molle di frizione sulle apposite asole.
To connect the adjusting spring on the slot.



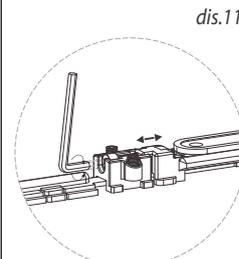
Bloccetto posizionamento braccio.
Arm positioning block.



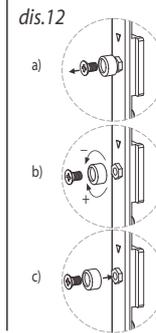
Regolazione cerniera inferiore.
Lower hinge adjustment.



Regolazione braccio.
Arm adjustment.



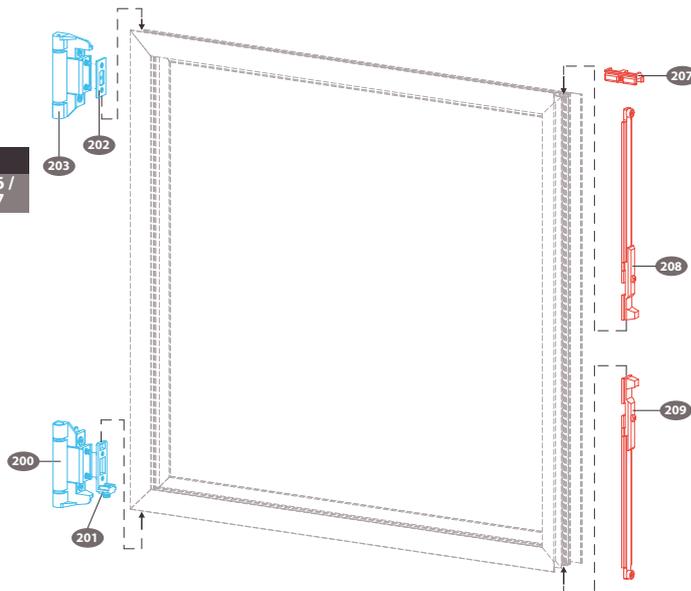
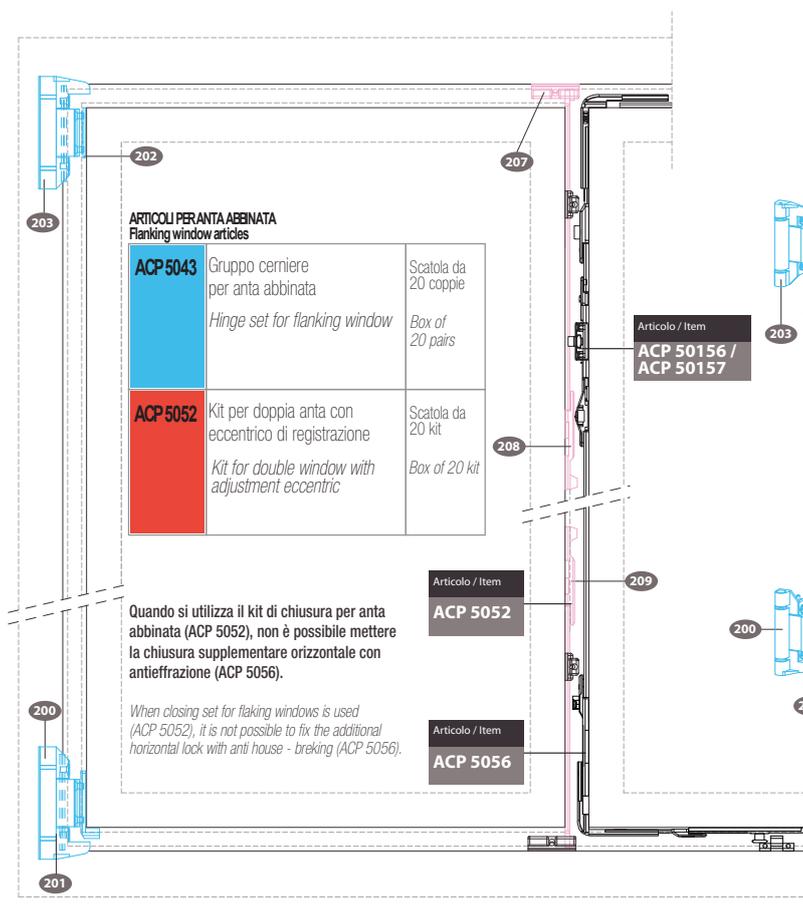
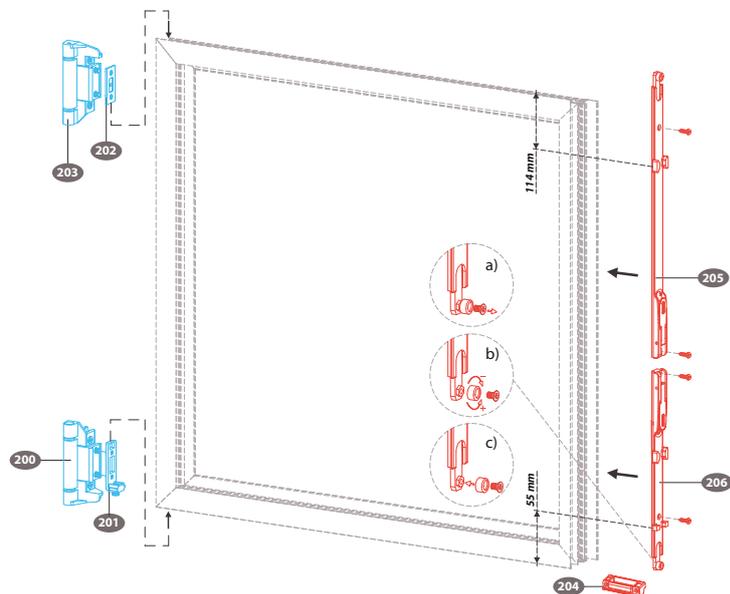
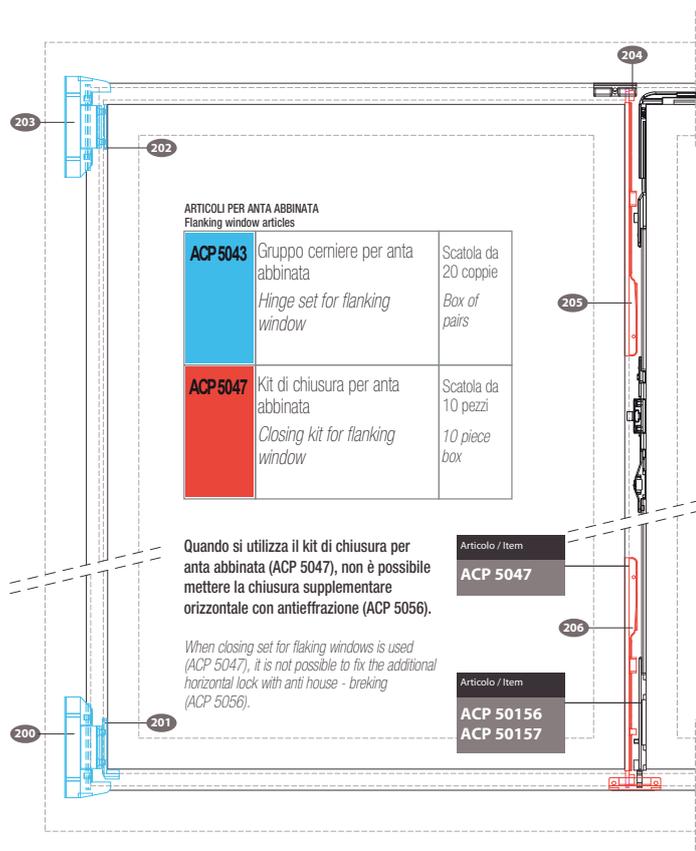
Regolazione eccentrico.
Eccentric adjustment.



Regolazione eccentrico.
Eccentric adjustment.



Quando si utilizza l'articolo ACP 5047 per la seconda anta, spostare l'eccentrico di chiusura nella sede superiore.
Using item code ACP 5047 in the flouxed wings, you must move the closing eccentric to the upper seat.
Per ante di peso superiore a Kg 60, applicare sulle cerniere le due viti autofilettanti in dotazione.
For windows weighting more than 60 Kg, fit the 2 self-tapping screws provided on the hinges.



M19

Serratura di sicurezza per montante avanzante

Security lock for jamb

<table border="1"> <tr> <th colspan="2">Contropiastra Regolabile in Metallo</th> </tr> <tr> <td>A-B-C</td> <td>D E-F</td> </tr> <tr> <td>06463-32</td> <td>06463-32 (17)</td> </tr> <tr> <td colspan="2">(17) = inserto rullo art. 06141-71</td> </tr> </table> <table border="1"> <tr> <th colspan="2">CILINDRO SAGOMATO (Nichelato Fin. 12)</th> <th>Frontale</th> </tr> <tr> <td>con borchie</td> <td>0E300-12 L=69 (28,5-38,5)</td> <td>22x3</td> </tr> <tr> <td>senza borchie</td> <td>0E300-09 L=63,2 (27,7-35,9)</td> <td>22x3</td> </tr> </table> <p>E= 35mm</p>	Contropiastra Regolabile in Metallo		A-B-C	D E-F	06463-32	06463-32 (17)	(17) = inserto rullo art. 06141-71		CILINDRO SAGOMATO (Nichelato Fin. 12)		Frontale	con borchie	0E300-12 L=69 (28,5-38,5)	22x3	senza borchie	0E300-09 L=63,2 (27,7-35,9)	22x3	
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M20

Serratura di sicurezza per montante avanzante

Security lock for jamb

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M21

Serratura di sicurezza per montante basculante

Security lock for jamb

<p>A</p> <p>art. 16205</p>	<p>B</p> <p>art. 16215 art. 16225 art. 16217 art. 16227</p>	<p>C</p> <p>art. 16215 art. 46225 art. 46217 art. 46227</p>	<p>D</p> <p>art. 46230 art. 46250 art. 46252</p>	<p>E</p> <p>art. 46210 art. 46220 art. 46212</p>	<p>F</p> <p>art. 06443-00/05-0</p>														
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<p>E = 35mm</p>																			

M22

Serratura di sicurezza per montante basculante

Security lock for jamb

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<p>art. 16205</p>	<p>art. 16215 art. 16225 art. 16217 art. 16227</p>	<p>art. 16215 art. 46225 art. 46217 art. 46227</p>	<p>art. 46230 art. 46250 art. 46252</p>	<p>art. 46210 art. 46220 art. 46212 art. 46222</p>	<p>art. 06443-00/05-0</p>																					

M23

Serratura di sicurezza per montante multipunto avanzante

Security lock for jamb multi-point

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3">Contropiastra Regolabile in Metallo</th> </tr> <tr> <td style="width: 33%;">A</td> <td style="width: 33%;">B</td> <td style="width: 33%;">C</td> </tr> <tr> <td>06463-32</td> <td>06463-32 (16)</td> <td>06465220</td> </tr> <tr> <td colspan="3">(17) = inserto nullo art. 06141-71</td> </tr> </table>	Contropiastra Regolabile in Metallo			A	B	C	06463-32	06463-32 (16)	06465220	(17) = inserto nullo art. 06141-71			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">CILINDRO SAGOMATO (Nichelato Fin. 12)</th> <th>Frontale</th> </tr> <tr> <td colspan="2">con borchie</td> <td>24x3</td> </tr> <tr> <td colspan="2">0E300-12 <small>L=82 (27/35.3)</small></td> <td>0E300-41 <small>L=82 (27/35.5)</small></td> </tr> </table>	CILINDRO SAGOMATO (Nichelato Fin. 12)		Frontale	con borchie		24x3	0E300-12 <small>L=82 (27/35.3)</small>		0E300-41 <small>L=82 (27/35.5)</small>	
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<p>art. 19526 art. 49526</p>	<p>art. 49551</p>	<p>art. 49521</p>																					

M24

Serratura di sicurezza per montante multipunto avanzante

Security lock for jamb multi-point

<p>Contropiastra Regolabile in Metallo</p> <table border="1"> <tr> <th>A</th> <th>B</th> <th>C</th> <th>Deviatori</th> </tr> <tr> <td>06463-32</td> <td>06463-32 (16)</td> <td>06465220</td> <td>06465220</td> </tr> </table> <p>(17) = inserto nullo art. 06141-71</p>			A	B	C	Deviatori	06463-32	06463-32 (16)	06465220	06465220	<p>CILINDRO SAGOMATO (Nichelato Fin. 12)</p> <table border="1"> <tr> <th>con borchie</th> <th>senza borchie</th> <th>Frontale</th> </tr> <tr> <td>0E300-12 L=89 (27,5-39,5)</td> <td>0E300-41 L=83,2 (27,7-35,5)</td> <td>24x3</td> </tr> </table> <p>E= 35mm</p>			con borchie	senza borchie	Frontale	0E300-12 L=89 (27,5-39,5)	0E300-41 L=83,2 (27,7-35,5)	24x3			
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M25

Serratura di sicurezza per montante multipunto basculante

Security lock for jamb multi-point

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Contropiastra Regolabile in Metallo</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>06463-22</td> <td>06463-22 (17)</td> <td>06465-22</td> </tr> <tr> <td colspan="3">(17) = inserto rullo art. 06141-71</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">CILINDRO SAGOMATO (Nichelato Fin. 12)</th> <th>Frontale</th> </tr> </thead> <tbody> <tr> <td>con borchie</td> <td>senza borchie</td> <td>24x3</td> </tr> <tr> <td>0E300-12 L=69 (24,5x35)</td> <td>0E300-41</td> <td></td> </tr> </tbody> </table> <p>E = 35mm</p>	Contropiastra Regolabile in Metallo			A	B	C	06463-22	06463-22 (17)	06465-22	(17) = inserto rullo art. 06141-71			CILINDRO SAGOMATO (Nichelato Fin. 12)		Frontale	con borchie	senza borchie	24x3	0E300-12 L=69 (24,5x35)	0E300-41		
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<p>A</p> <p>art. 16525 art. 46525</p>	<p>B</p> <p>art. 46550</p>																					

M26

Serratura di sicurezza per montante multipunto basculante

Security lock for jamb

<p>Contropiastra Regolabile in Metallo</p> <table border="1"> <tr> <th>A</th> <th>B</th> <th>C</th> <th>Deviatori</th> </tr> <tr> <td>06463-22</td> <td>06463-22 (17)</td> <td>06465-22</td> <td>06465-22 (pz.2)</td> </tr> </table> <p>(17) = inserto rullo art. 06141-71</p>			A	B	C	Deviatori	06463-22	06463-22 (17)	06465-22	06465-22 (pz.2)	<p>CILINDRO SAGOMATO (Nichelato Fin. 12)</p> <table border="1"> <tr> <th>con borchie</th> <th>senza borchie</th> <th>Frontale</th> </tr> <tr> <td>0E300-12 <small>L=88 (83-38.5)</small></td> <td>0E300-41 <small>L=83 (77-36.5)</small></td> <td>24x3</td> </tr> </table> <p>E= 35mm</p>			con borchie	senza borchie	Frontale	0E300-12 <small>L=88 (83-38.5)</small>	0E300-41 <small>L=83 (77-36.5)</small>	24x3			
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<p>A</p> <p>art. 16525 art. 46525</p>			<p>B</p> <p>art. 46550</p>			<p>C</p> <p>art. 46520</p>																
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<p>A</p> <p>art. 16525 art. 46525</p>			<p>B</p> <p>art. 46550</p>			<p>C</p> <p>art. 46520</p>																

M27

Maniglioni antipanico

Panic exit bar

<p>A</p> <p>art. 56357</p>	<p>B</p> <p>art. 56357</p>	<p>C</p> <p>art. 56357 art. 06168-00 Kit Multipunto Modulare 24x3</p>	<p>D</p> <p>art. 06444-45</p> <p>E</p> <p>art. 06444-21-0 06444-26-0</p> <p>art. 06443-00/05-0</p>																								
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M28

Serratura di sicurezza per fascia

Security lock for central crossbeam

<table border="1"> <tr> <th colspan="2">Contropiastre Regolabile in Metallo</th> <th colspan="2">Accessori</th> </tr> <tr> <td>A</td> <td>Deviatori</td> <td>Maniglia</td> <td>Aste</td> </tr> <tr> <td>06463-32</td> <td>06465-22 (pz.2)</td> <td>07070-66-0-B1 Funz. B/D</td> <td>-</td> </tr> <tr> <td colspan="2">Utilizzare salvaprofilo art. -</td> <td colspan="2">Bocchetta Pavimento art. -</td> </tr> </table> <table border="1"> <tr> <td colspan="2">CILINDRO SAGOMATO (Nichelato Fin. 12)</td> <td>Frontale</td> </tr> <tr> <td colspan="2">con borchie</td> <td>senza borchie</td> </tr> <tr> <td>0E300-12 L=822 (77,3x5)</td> <td>0E300-41 L=822 (77,3x5)</td> <td>24x3</td> </tr> </table> <p>E = 40mm</p>	Contropiastre Regolabile in Metallo		Accessori		A	Deviatori	Maniglia	Aste	06463-32	06465-22 (pz.2)	07070-66-0-B1 Funz. B/D	-	Utilizzare salvaprofilo art. -		Bocchetta Pavimento art. -		CILINDRO SAGOMATO (Nichelato Fin. 12)		Frontale	con borchie		senza borchie	0E300-12 L=822 (77,3x5)	0E300-41 L=822 (77,3x5)	24x3	<p>35</p>
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<p>A</p>	<p>C</p> <p>Maniglione quadro 9mm art. 59711-000 art. 59711-010</p> <p>Quadro Maniglia art. 07085-77-0</p> <p>Maniglione quadro 8mm art. 59617120</p> <p>Barra Ovale art. 07007-XX</p> <p>Maniglione quadro 8mm art. 59617120</p> <p>Barra Ovale art. 07007-XX</p>																									
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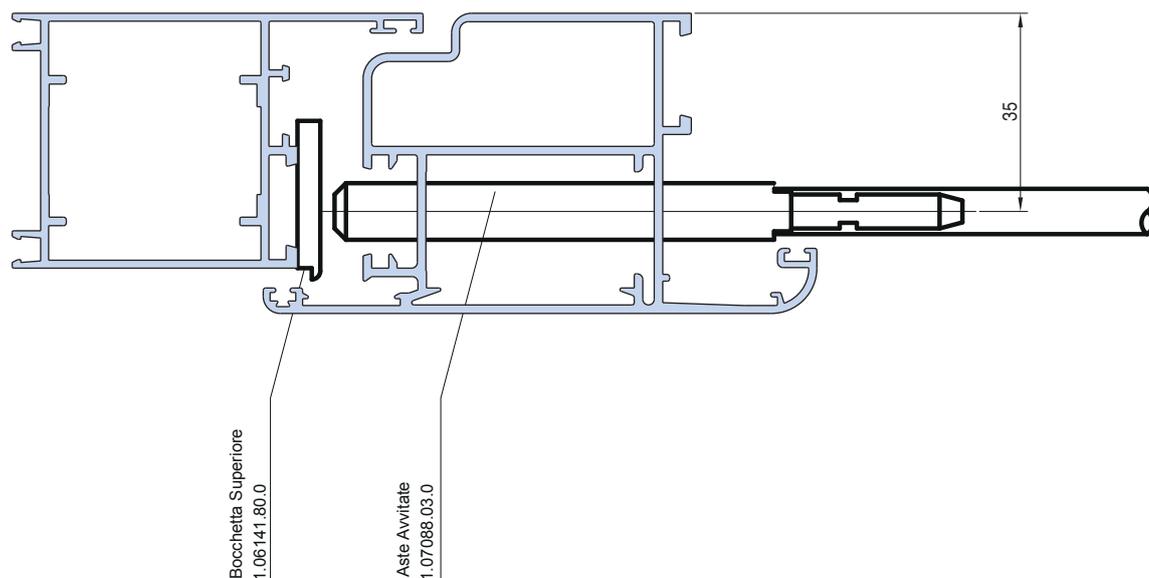
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M29

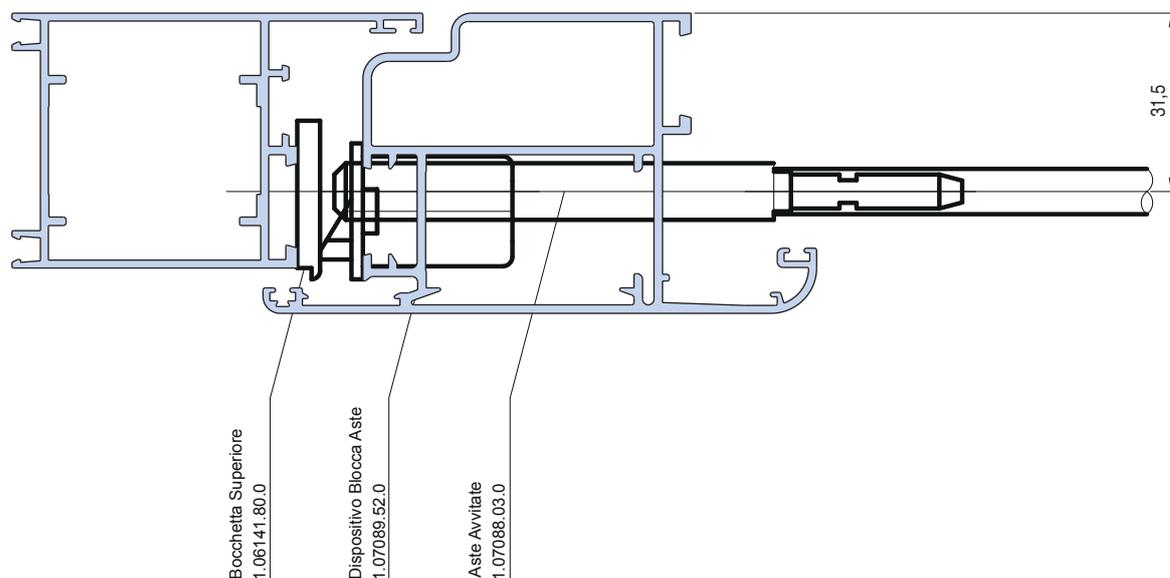
Maniglioni antipánico con serratura di sicurezza, riarmo manuale per chiusura superiore ed inferiore

Panic exit bar with security lock, manual reset for upper and lower closing

inferiore-sezione verticale



riarmo automatico per chiusure superiore ed inferiore sezione verticale



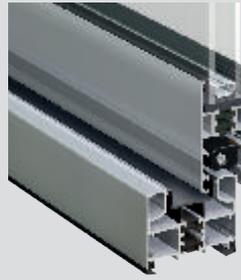
Sistemi scorrevoli e alzanti



SLIDE 60

Sistema scorrevole non isolato, essenziale e funzionale. Con zanzariera integrata nel sistema

Non-insulated system, essential and functional. With built-in screen



SLIDE 65

Sistema scorrevole a taglio termico essenziale e funzionale con zanzariera prevista e integrata al sistema

Thermal break system, essential and functional, with built-in screen



SLIDE 80/106 plus

Sistema scorrevole-alzante a taglio termico rivoluzionario grazie agli eccellenti risultati termici ed acustici

Revolutionary thermal break system providing excellent thermal and acoustic performance



TOP SLIDE 160

Sistema a taglio termico per serramenti alzanti con portate fino a 400kg, ed eccellenti prestazioni acustiche, termiche e ambientali

Thermal break system for lift-and-slide windows of up to 400kg providing excellent acoustic, thermal and environmental performance

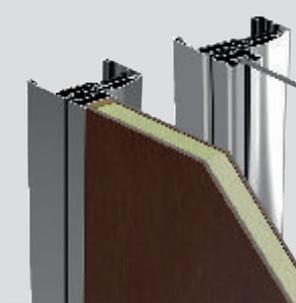
Sistemi per porte



PLANET DOOR 62 DOOR 72

Sistema per porte e portoncini di ingresso con ottime prestazioni termo-acustiche. Ideale sia in contesti residenziali sia commerciali

Top-of-the-range internal doors, sash or sliding, all types, finish and color



EASY DOOR

Sistema per la costruzione di porte interne di alto design ad ante o porte scorrevoli di ogni tipologia, finitura estetica e colore

Top-of-the-range internal doors, sash or sliding, all types, finish and color



PLANET 53

Sistema termicamente non isolato per porte complanari

Flush door system



fullglazing

Sistema a taglio termico a tutto vetro interno

Thermal break system with predominance of the glass

Sistemi per facciate



SIRIO 50

Sistema per facciate continue montanti e traversi

Stick-built curtain wall systems



SIRIO 50 SG

Sistema per facciate continue montanti e traversi con vetro strutturale

Structural curtain wall with transom/mullion



SIRIO 50N

Sistema per facciate continue a nastro

Ribbon windows system

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