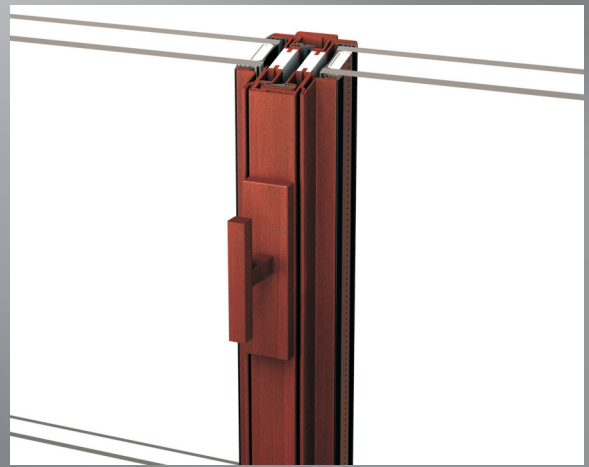


THERMO SERIES



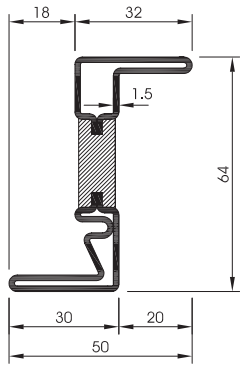
[OS 2]

A i c b

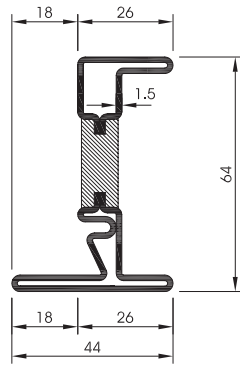
TECHNICAL CATALOGUE



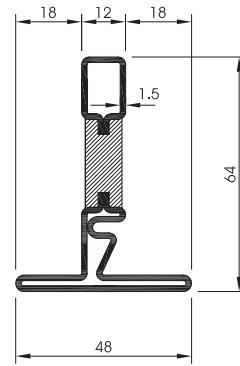
480 Bunnell Street Bridgeport CT 06607
(203) 579-5157 www.steelwindowsanddoors.com



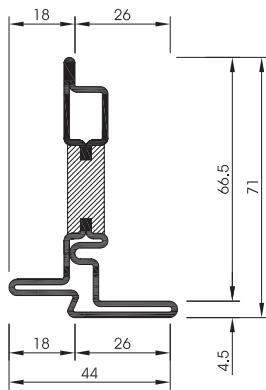
2603



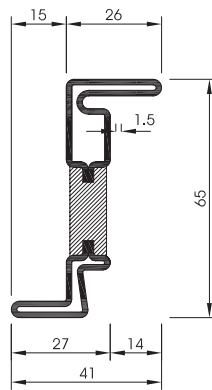
2605



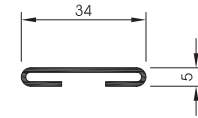
2622



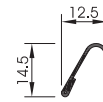
2632



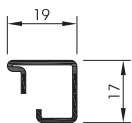
2633



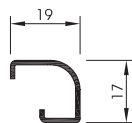
2610



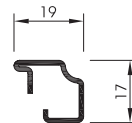
2620



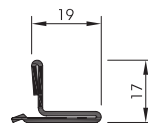
2607



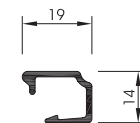
2617



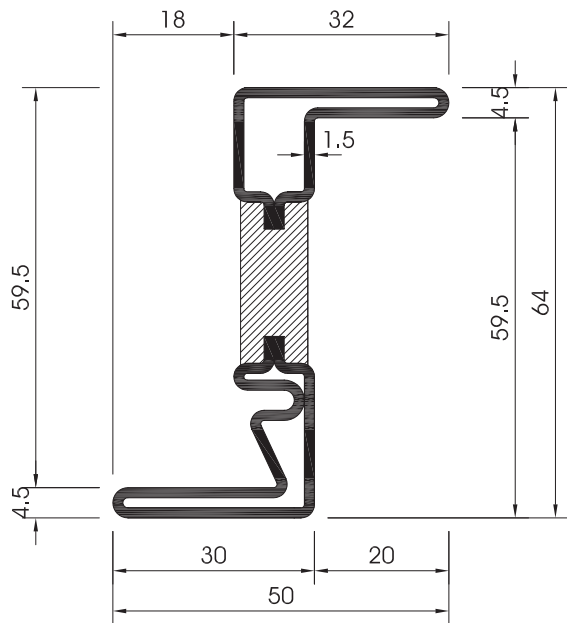
2627



2637



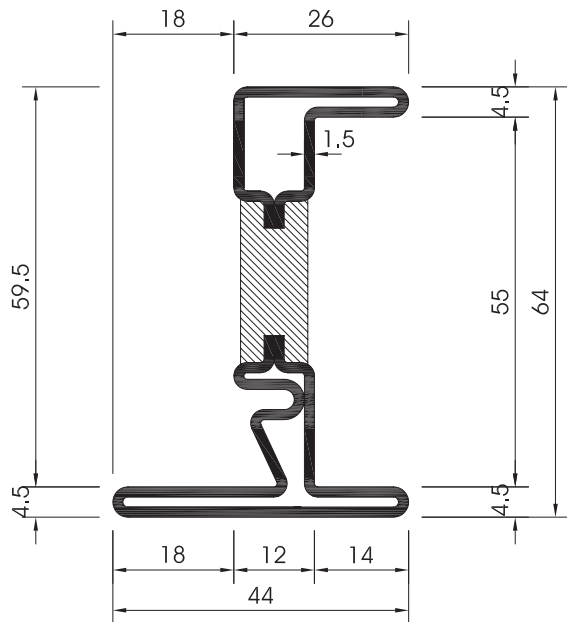
1808



P. 2603	
A cm ²	5,76
P kg/m	1° 2,78 / 3,00 2°
Jx cm ⁴	2,43
Jy cm ⁴	22,83
L Barra	6,00 mt

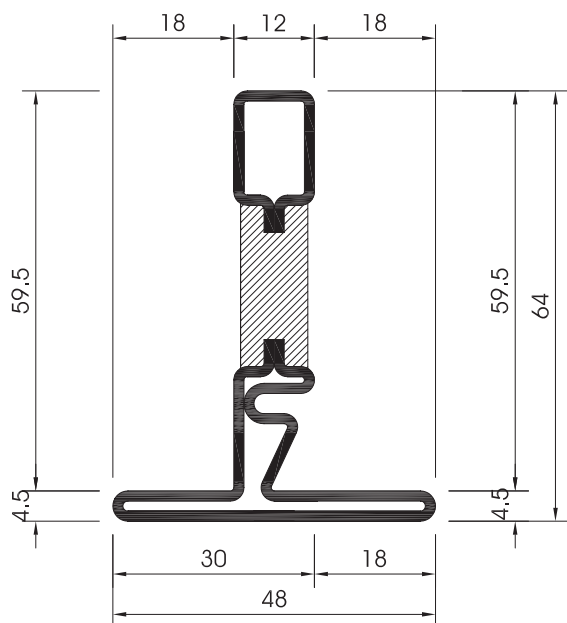
1° = acciaio zincato, acciaio inox, cor-ten
2° = Ot67
1° = Stahl Verzinkt, , Edelstahl, cor-ten
2° = Ot67

Pl..ST = Acciaio inox satinato AISI 304
Pl..SB = Acciaio inox scotch brite AISI 316
Pl..I3 = Acciaio inox lucido AISI 316
PZ. = Acciaio zincato
PB..BB = Lega di rame Ot67 brunito
PB..BR = Lega di rame Ot67 naturale
PC.. = Acciaio cor-ten



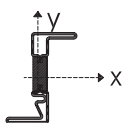
P. 2605	
A cm ²	6,03
P kg/m	1° 3,00 / 3,23 2°
Jx cm ⁴	3,30
Jy cm ⁴	23,49
L Barra	6,00 mt

Pl..ST = Satinated stainless steel AISI 304
Pl..SB = Scotch brite stainless steel AISI 316
Pl..I3 = Polished stainless steel AISI 316
PZ. = Galvanized steel
PB..BB = Brunished Ot67
PB..BR = Natural Ot67
PC.. = Cor-ten steel



P. 2622	
A cm ²	5,68
P kg/m	1° 2,73 / 2,94 2°
Jx cm ⁴	3,40
Jy cm ⁴	19,58
L Barra	6,00 mt

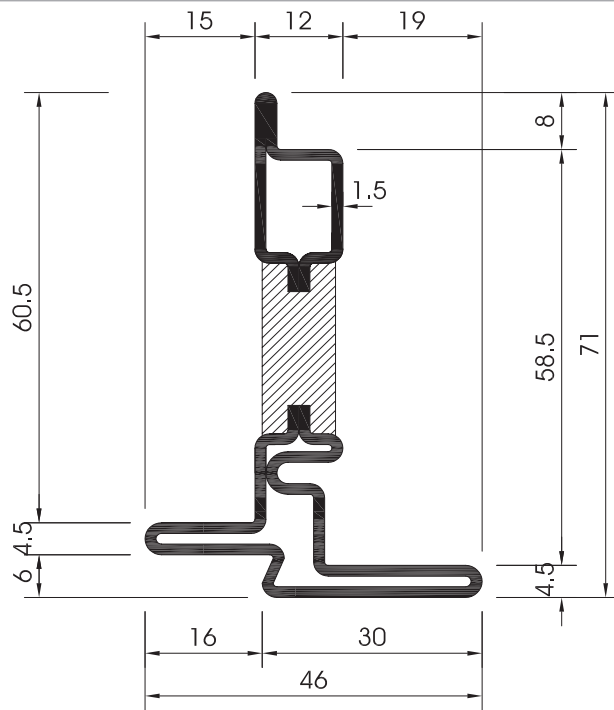
Pl..ST = geschliffen Edelstahl AISI 304
Pl..SB = scotch brite Edelstahl AISI 316
Pl..I3 = poliert Edelstahl AISI 316
PZ. = verzinkter Stahl
PB..BB = bruniert Ot67
PB..BR = natur Ot67
PC.. = cor-ten Stahl



A = area della sezione
P = massa teorica
Jx = momento d'inerzia baricentrico, asse x
Jy = momento d'inerzia baricentrico, asse y

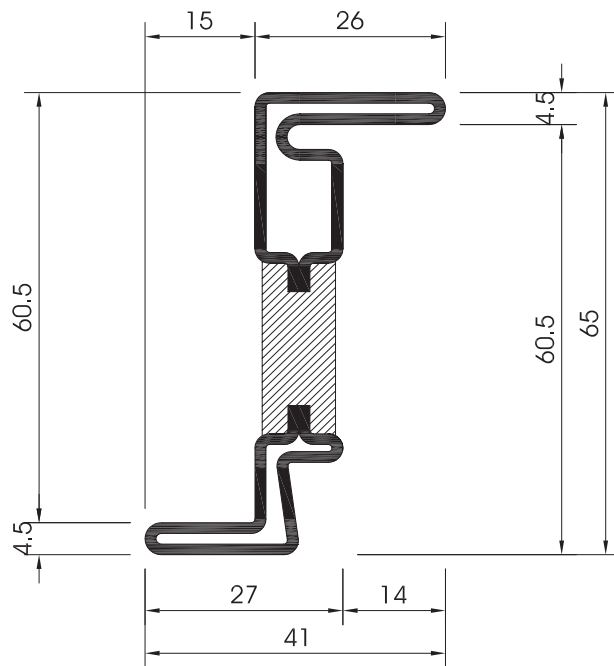
A = Area of cross section
P = Calculated mass
Jx = x axis moment of inertia, about the center of gravity
Jy = y axis moment of inertia, about the center of gravity

A = Querschnittsfläche
P = Theoretische Gewichte
Jx = Trägheitsmoment, Achse x
Jy = Trägheitsmoment, Achse y

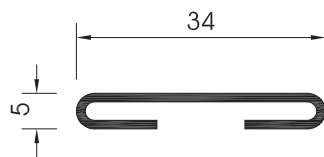


P. 2632	
A cm ²	5,76
P kg/m	2,80 / 3,00
Jx cm ⁴	3,02
Jy cm ⁴	20,69
L Barra	6,00 mt

1° = acciaio zincato, acciaio inox, cor-ten
2° = OT67
1° = Stahl Verzinkt, , Edelstahl, cor-ten
2° = OT67



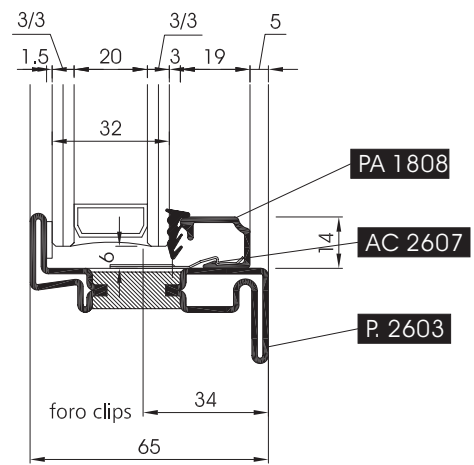
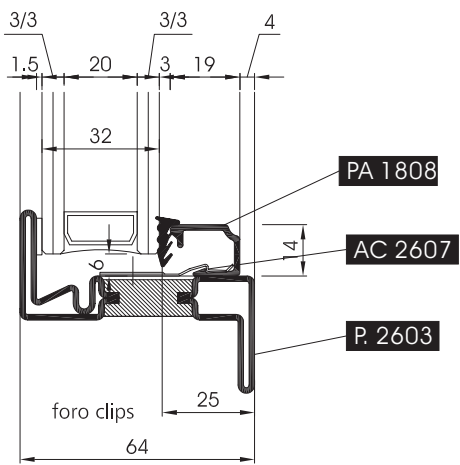
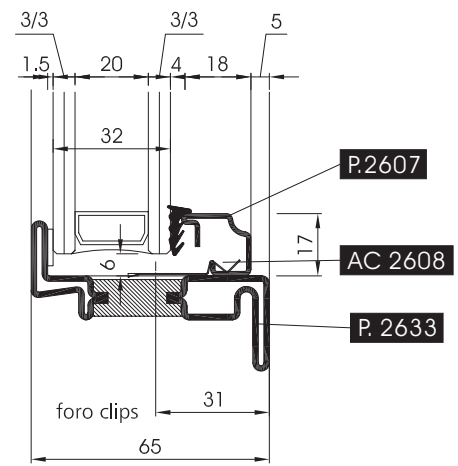
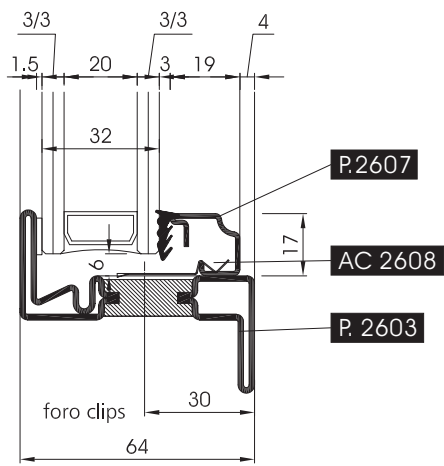
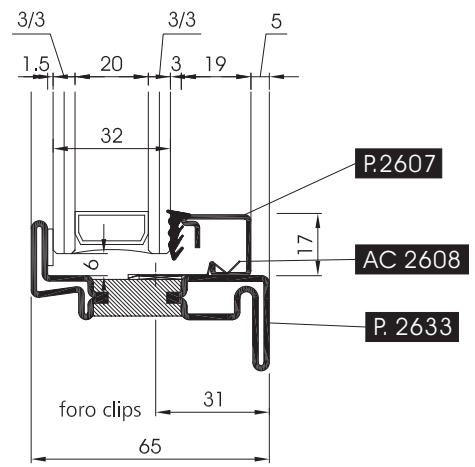
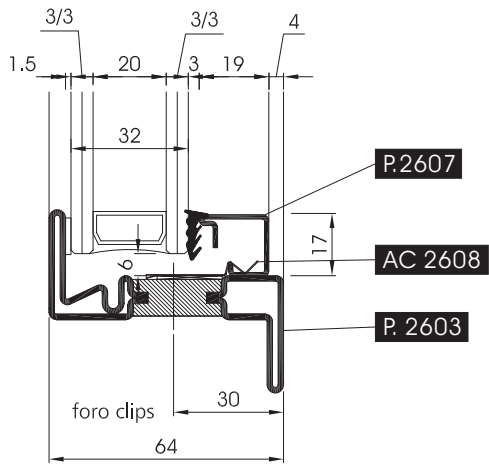
P. 2633	
A cm ²	5,35
P kg/m	2,47 / 2,65
Jx cm ⁴	1,63
Jy cm ⁴	20,69
L Barra	6,00 mt

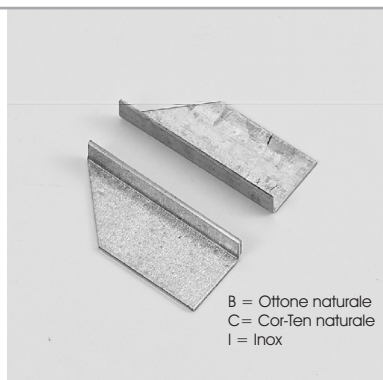


P. 2610	
Profilo riporto per cremonese Adjuntive cremone profile Abdeckprofil Für Handeriffmechanismus Peso / Weight/Gewicht = 0,75/0,80 kg/m Lunghezza / Lenght/Lange = 4,5 m	



P. 2620	
Profilo riporto gocciolatoio Wetterschenkelprofil Peso / Weight/Gewithc = 0,50/0,60 kg/m Lunghezza / Lenght/Lange = 4,0 m	





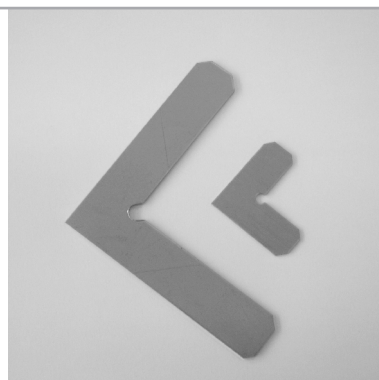
AC 2603.

Fondino dx per 2[^]
anta
Right drill
Rechter Profilabschluss

AC 2604.

Fondino sx per 2[^]
anta
Left drill
Linker Profilabschluss

B = Ottone naturale
C = Cor-Ten naturale
I = Inox

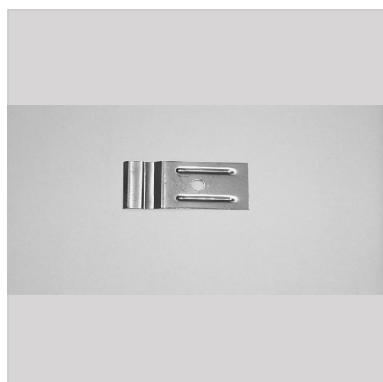


AC 2612

Squadretta di
allineamento per
profilo P2632 - P 2633

*Aligned bracket P2632
P2633*

*Eckverbinder für profili
P2632-P2633*



AC 2607

Clips per fissaggio
fermavetri

Cutting jaws

*Spannbake für
Glashaterbefestigung*



AC 2613

Squadretta di
allineamento per
profilo P2632

Aligned bracket P2632

Eckverbinder für profili



AC 2608

Clips per fissaggio
fermavetri

Cutting jaws

*Spannbake für
Glashaterbefestigung*

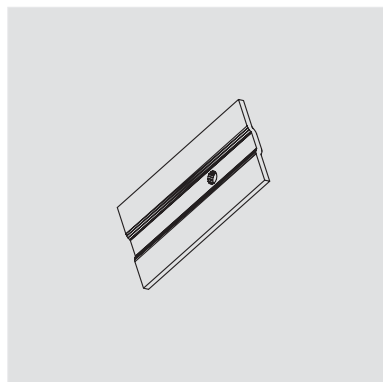


AC 2614.

Kit giunzione a 90°

Button joint P2622

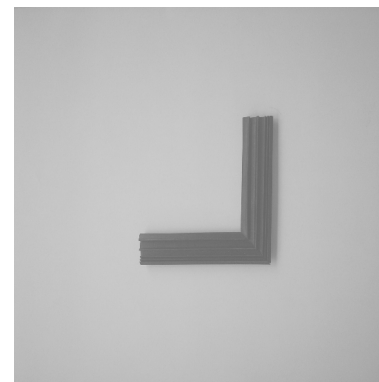
*Kit für Verbindung an
90° Profil P2622*



AC 2610

Accessorio di fissaggio
P2610

Halter für profil P2610

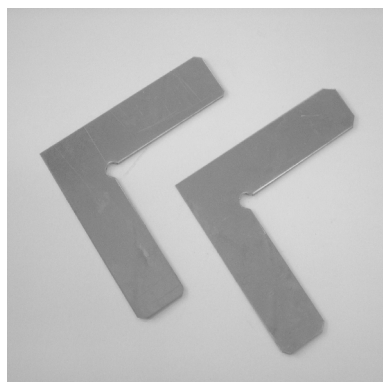


AC 2616

Guarnizione d'angolo
vulcanizzata per
GE2601

*Vulcanised corner for
GE2601*

*Eckdichtung,
vulkanisiert für GE2601*



AC 2611

Squadretta di
allineamento per
profilo P2603

*Allignement bracket
P2603*

*Eckverbinder für profili
P2603*



AC 2618

Scarico acqua per
aperture interne

*Drip for internal
opening*

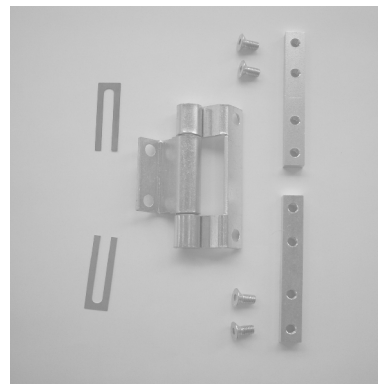
*Wasserablaufnase für
nach innen öffende
Flügel*



AC 2620

Incontro lato cerniere

*Adjunctive fastener
hinge side*



AC 2628

Cerniera a tre ali da avvitare

*Three wing hinge to be
screwed*

Dreitelliges scharnier



AC 2621R

Catenaccio 2[^] anta per finestra

Window bolt

*Riegel aus Leierung
(Fenster)*



AC 2629.D

Cerniera a due ali
destra ad avvitare
*Right Two wing hinges
2 teiliges scharnier
rechts*



AC 2621M

Catenaccio per 2[^] anta per porta

Door bolt

*Riegel aus Leierung
(Tür)*



AC 2634

Kit serratura per porta
*Lock kit for door
Schloss für tür*



AC 2622

Fermo a scatto
chiusura 2[^] anta

Snapper or 2[^] leaf

*Schnapper für 2[^]
flügel*

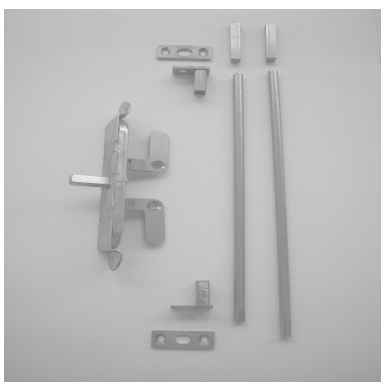


AC 2640

Cricchetto per vasistas

*Chatch detent to be
screwed*

Oberlichtschnapper



AC 2624

Kit per cremonese

Cremonese bolt set

Kit für handgriff



AC 2641

Braccetti per vasistas

*Casement stay for
bottom hinged*

*Öffnungsbegrenzer für
kipplügel*



AC 2655

Scatola copri gratz

Abddeckung für AC2624



AC 2656

Maniglia cremonese

*Handle for cremone
bolt*

Handgriff

GUARNIZIONI



GE 2028

Guarnizione interna
vetro

*Weather strip for
glazing bead*

Dichtung für Gashalter



GP 0095

Guarnizione interna
vetro

*Weather strip for
glazing bead*

Dichtung für Gashalter



GE 2600

Guarnizione di battuta
interna

Internal weather strip

*Interne
Anschlagdichtung*



GE 2601

Guarnizione per giunto
aperto

Central weather strip

Zentrale Dichtung

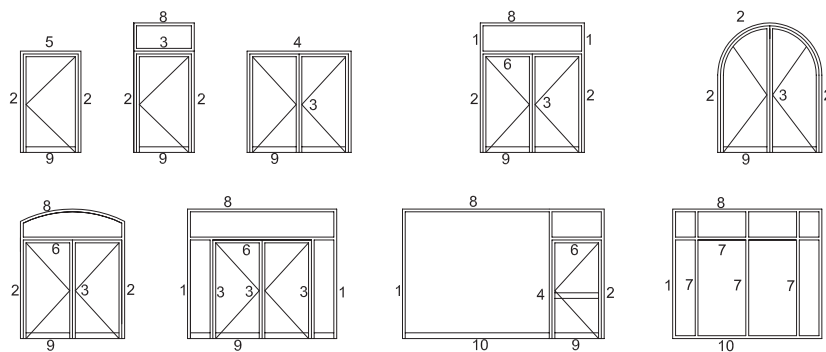


GE 2606

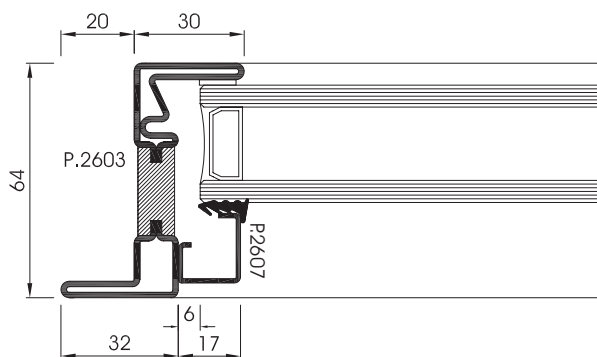
Guarnizione adesiva
esterno vetro

*Weather strip for
external used*

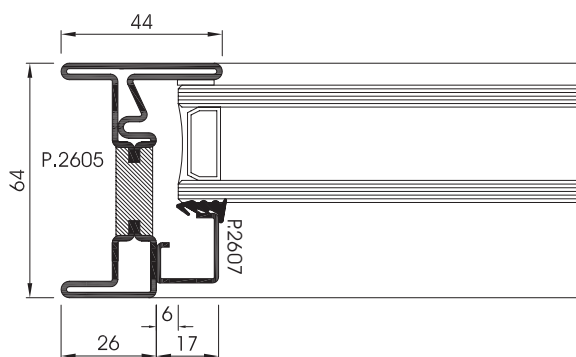
Externe Glasdichtung



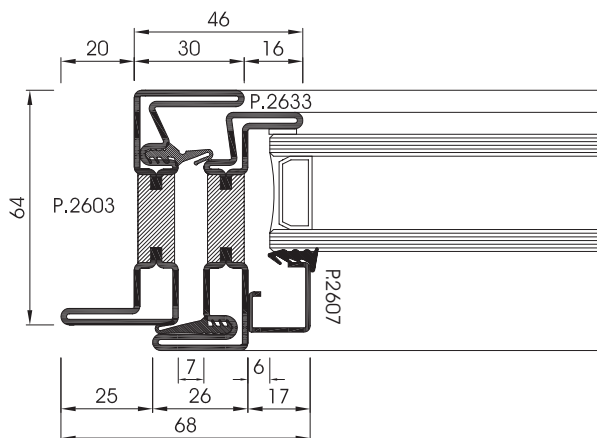
SEZIONE 1



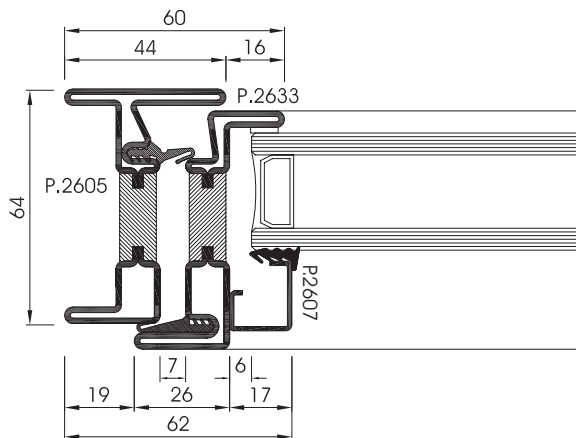
SEZIONE 1



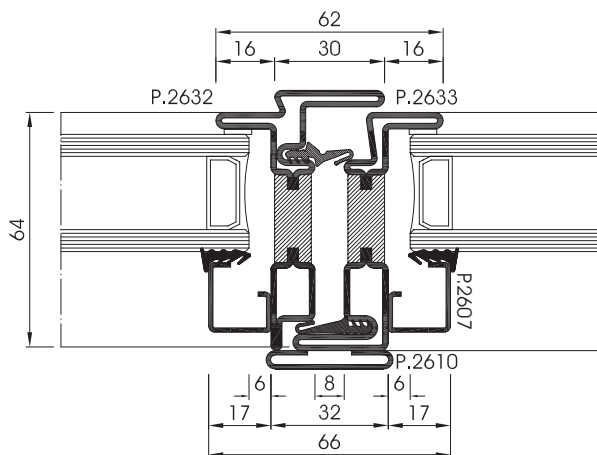
SEZIONE 2



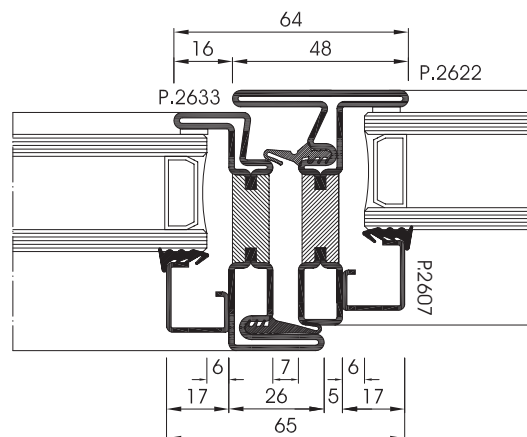
SEZIONE 2

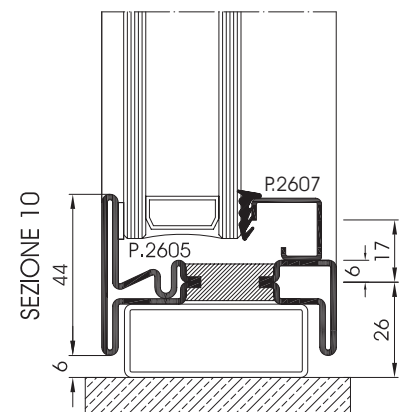
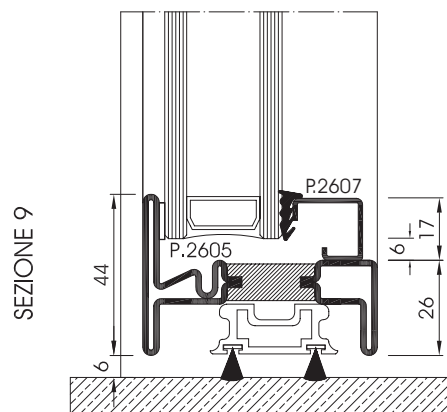
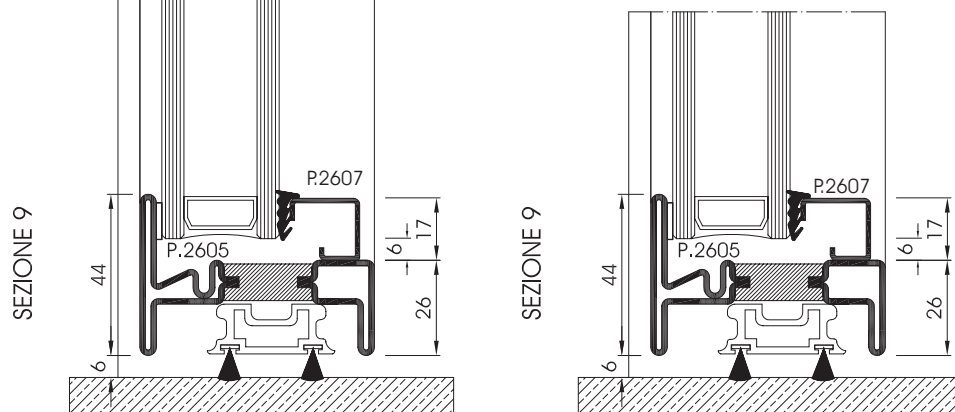
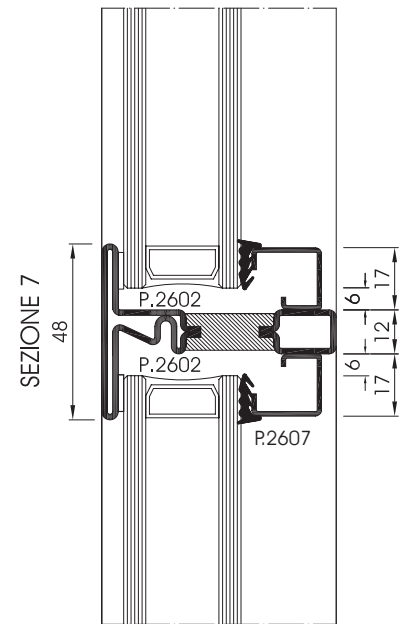
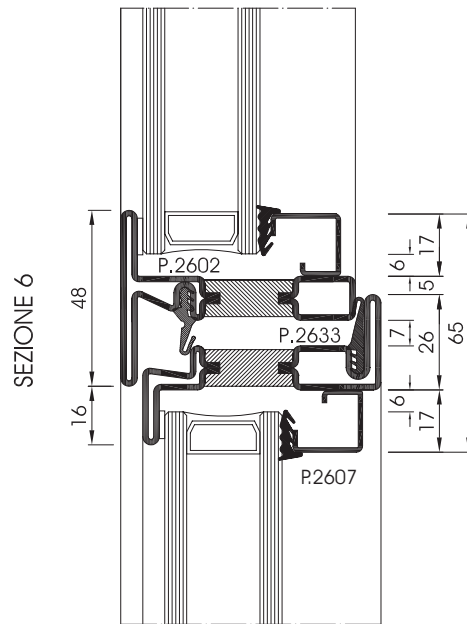
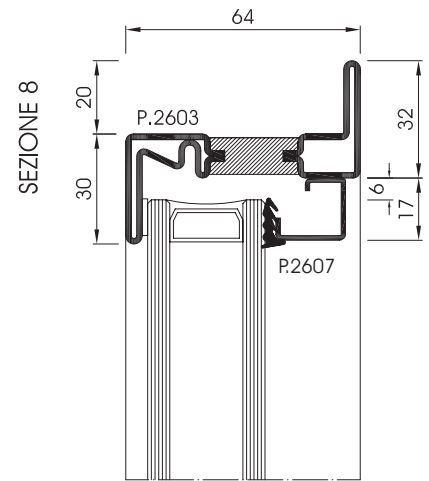
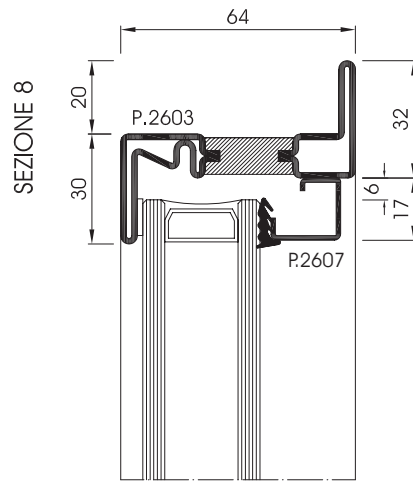
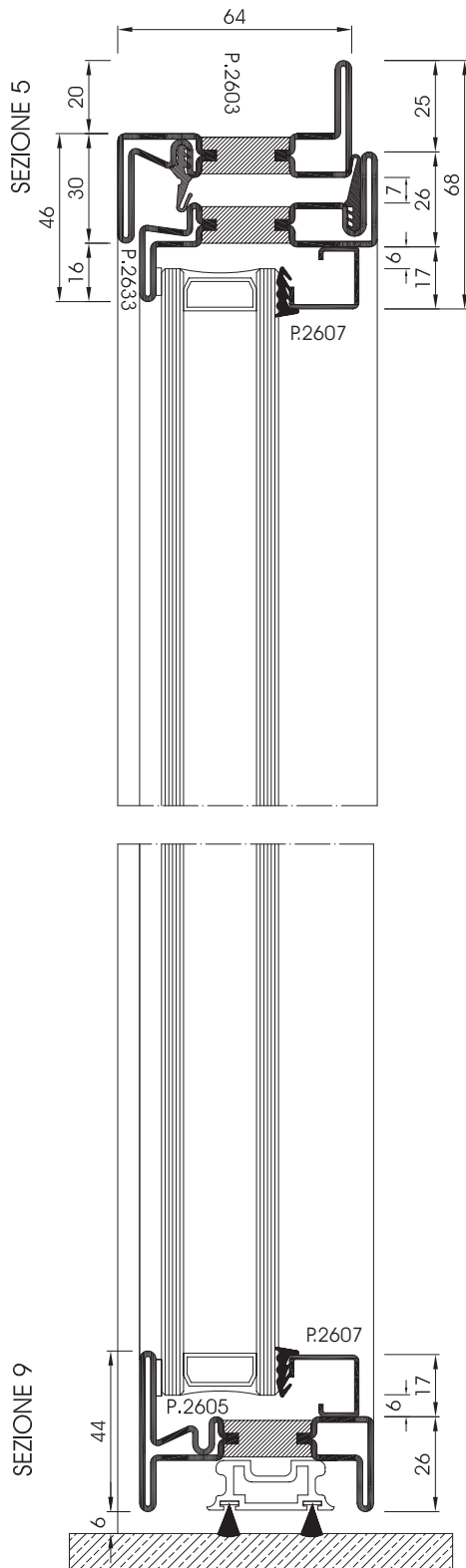
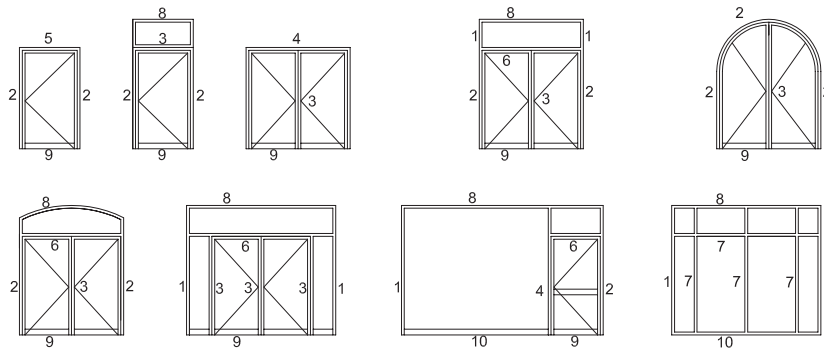


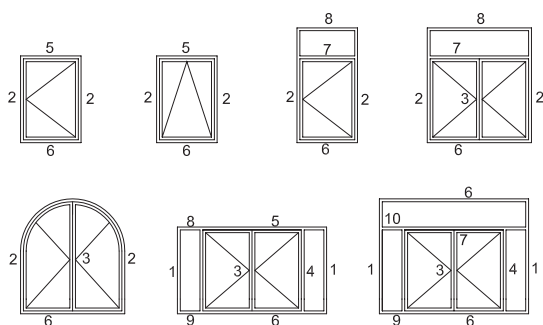
SEZIONE 3



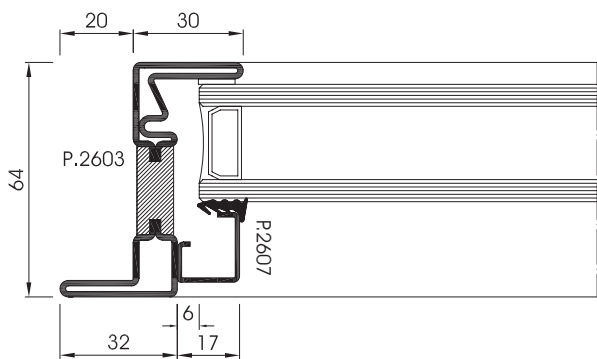
SEZIONE 4



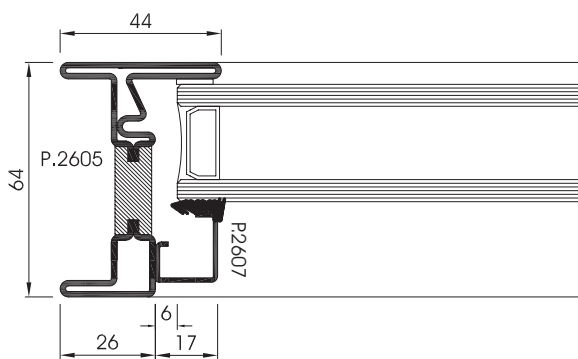




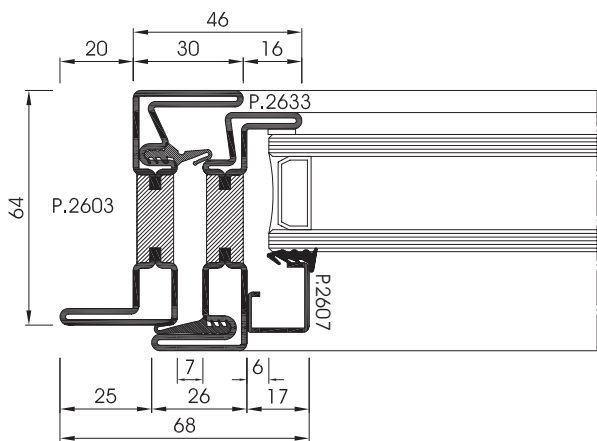
SEZIONE 1



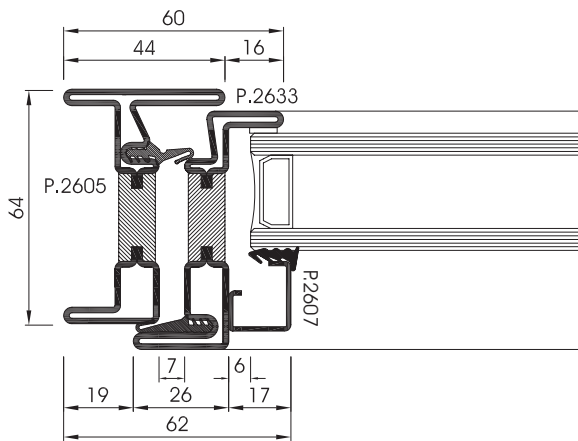
SEZIONE 1



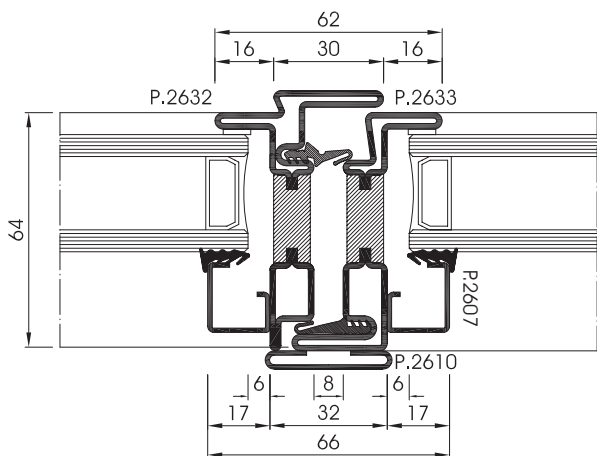
SEZIONE 2



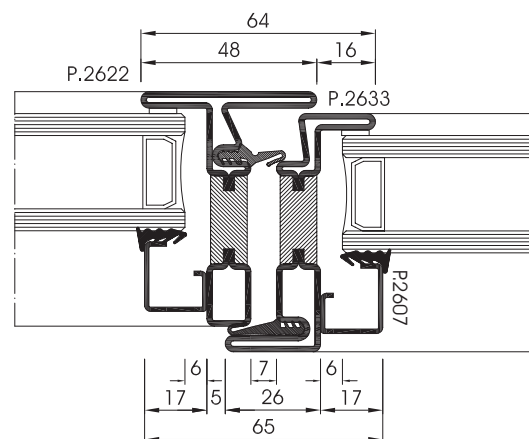
SEZIONE 2

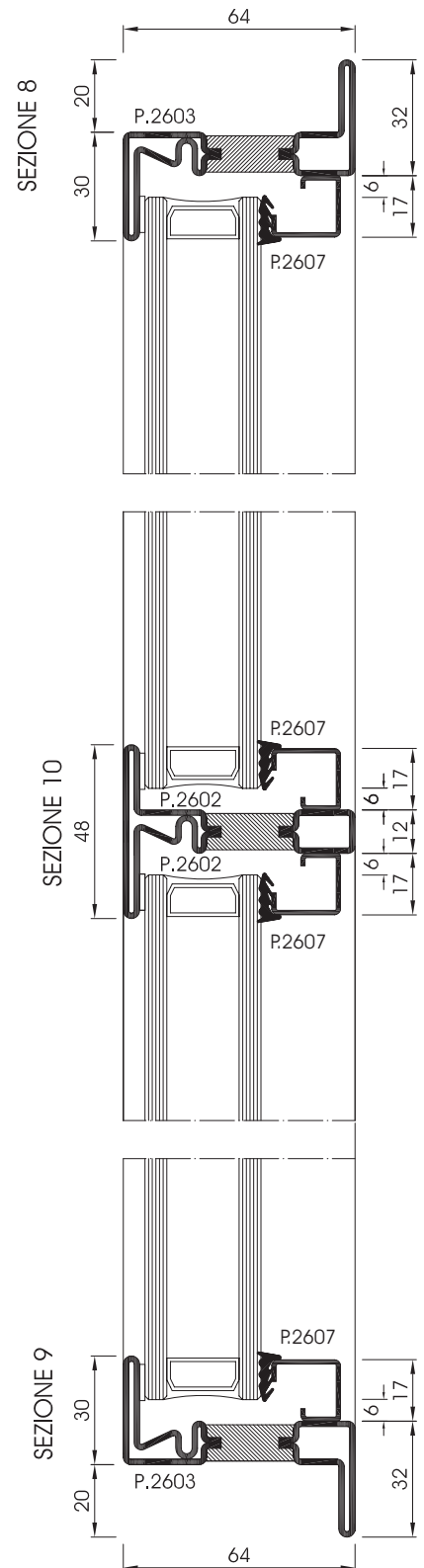
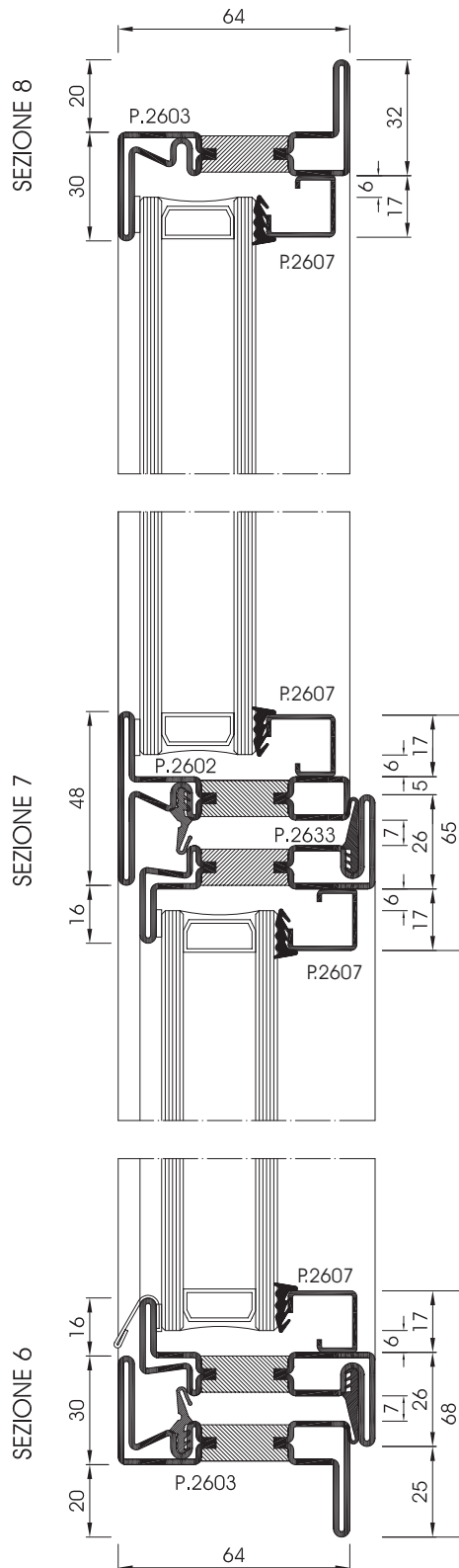
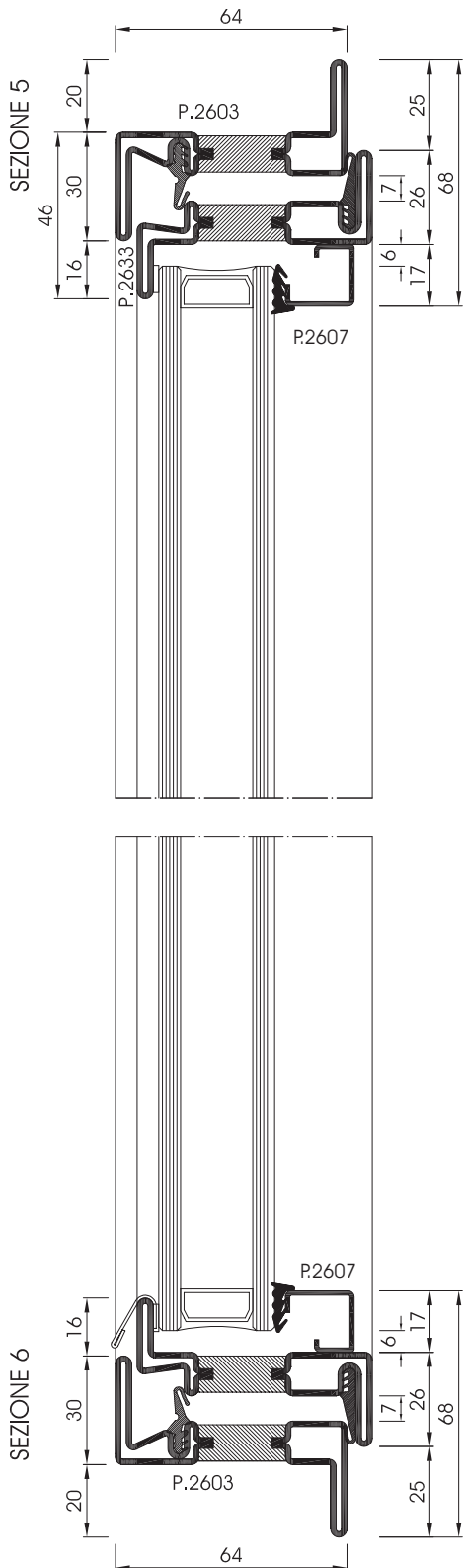
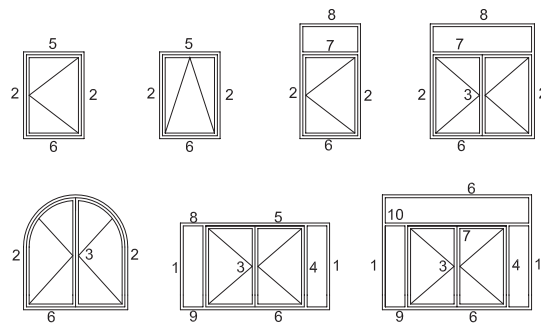


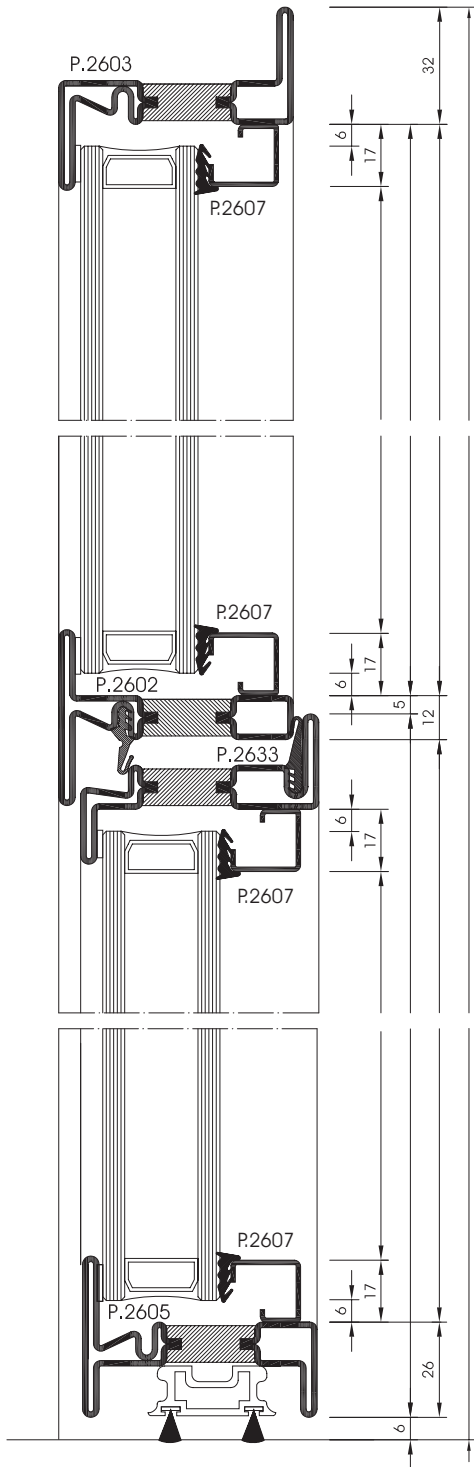
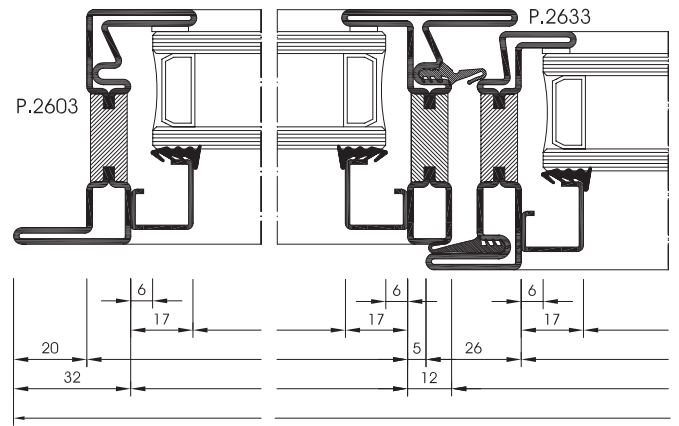
SEZIONE 3



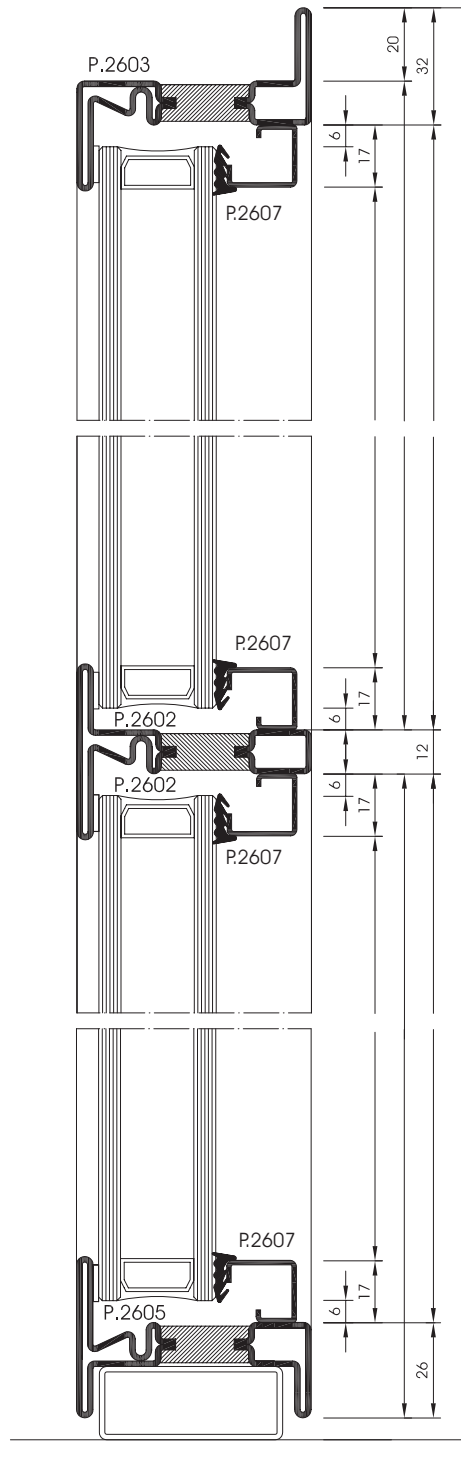
SEZIONE 4



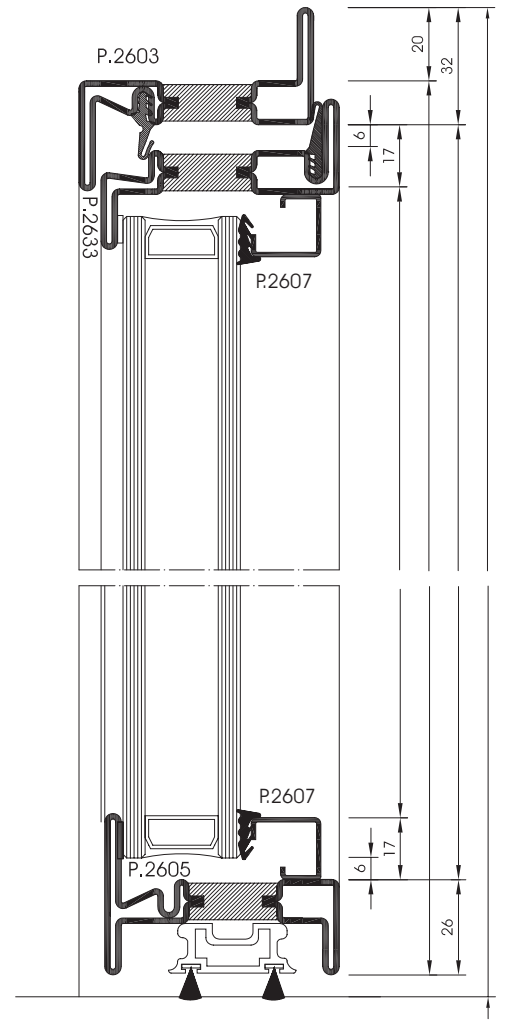




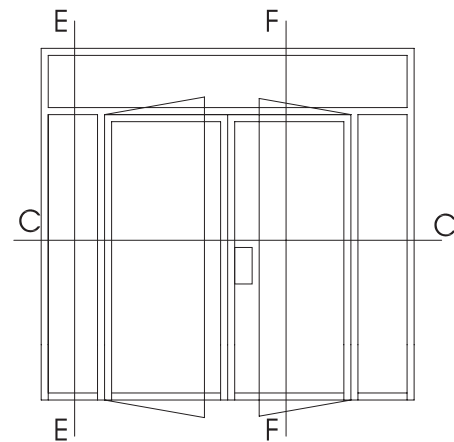
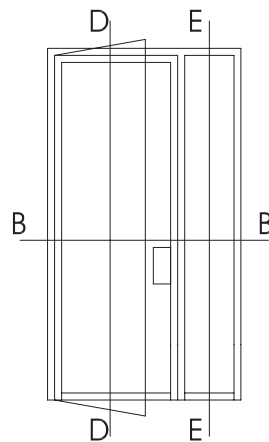
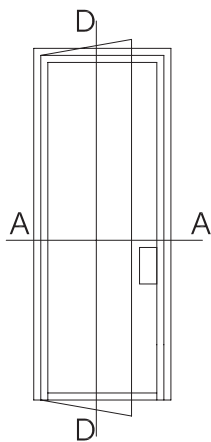
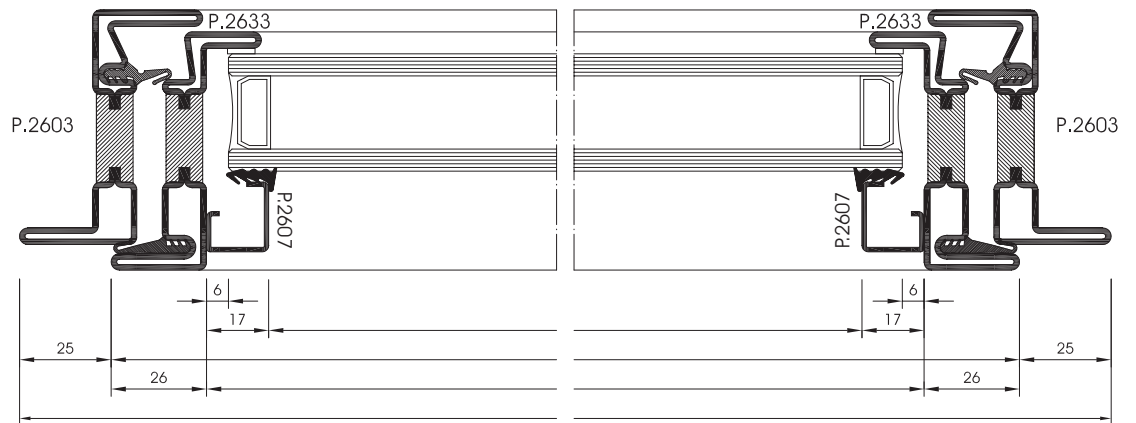
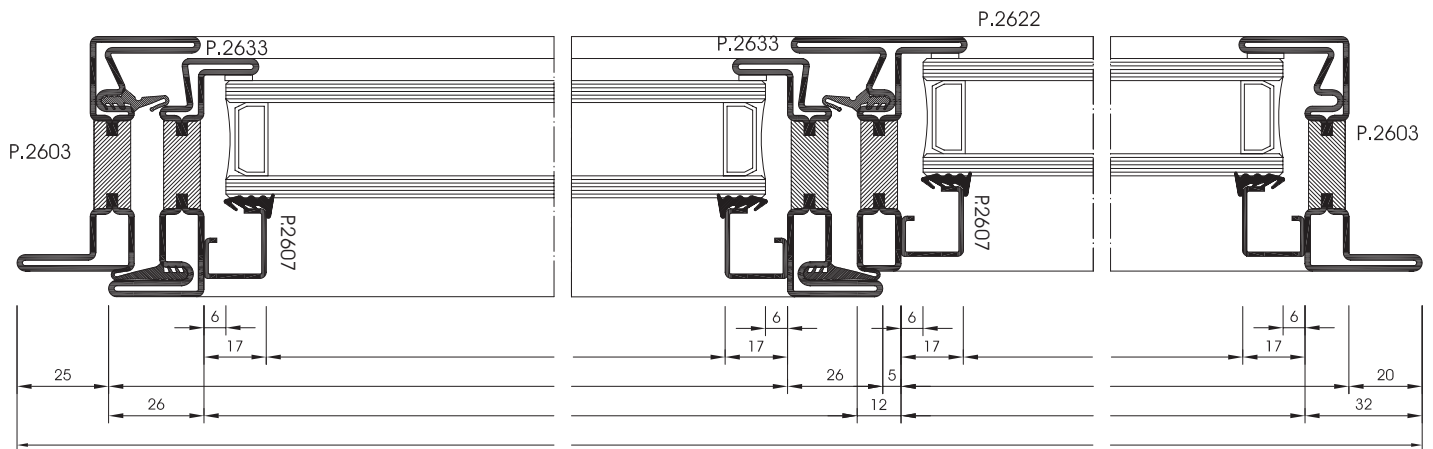
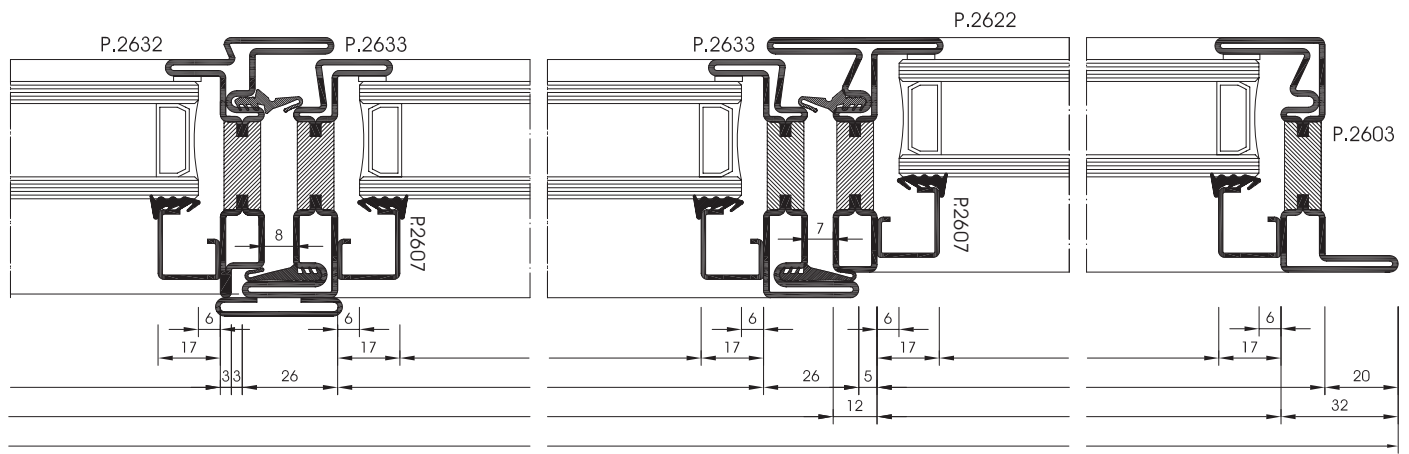
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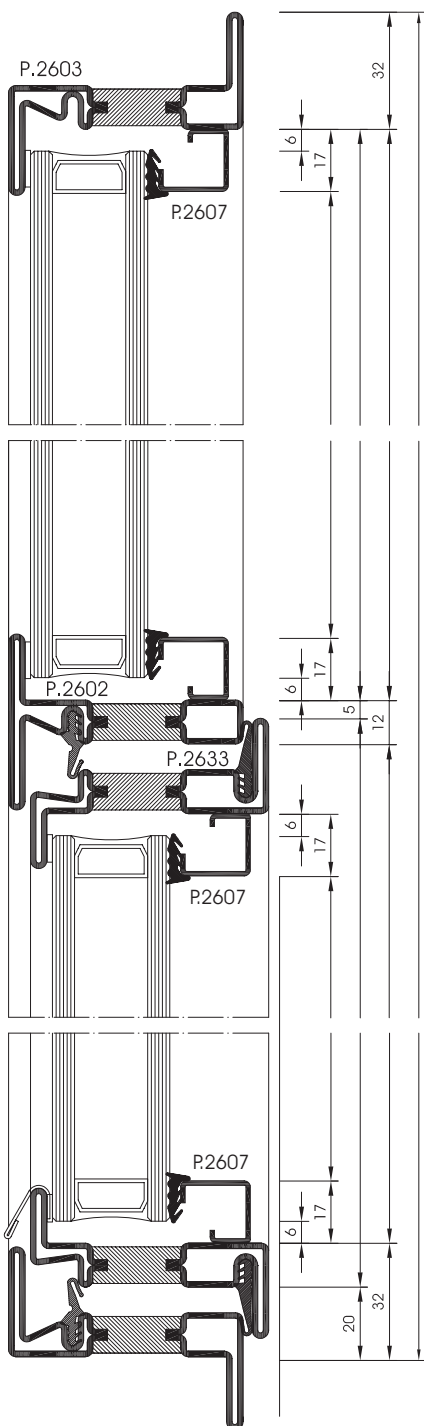
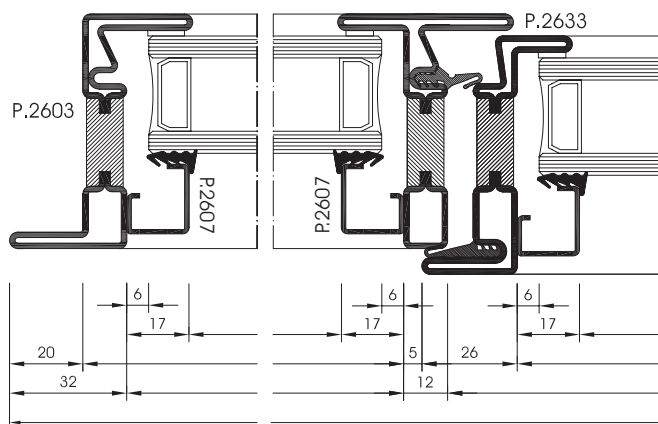


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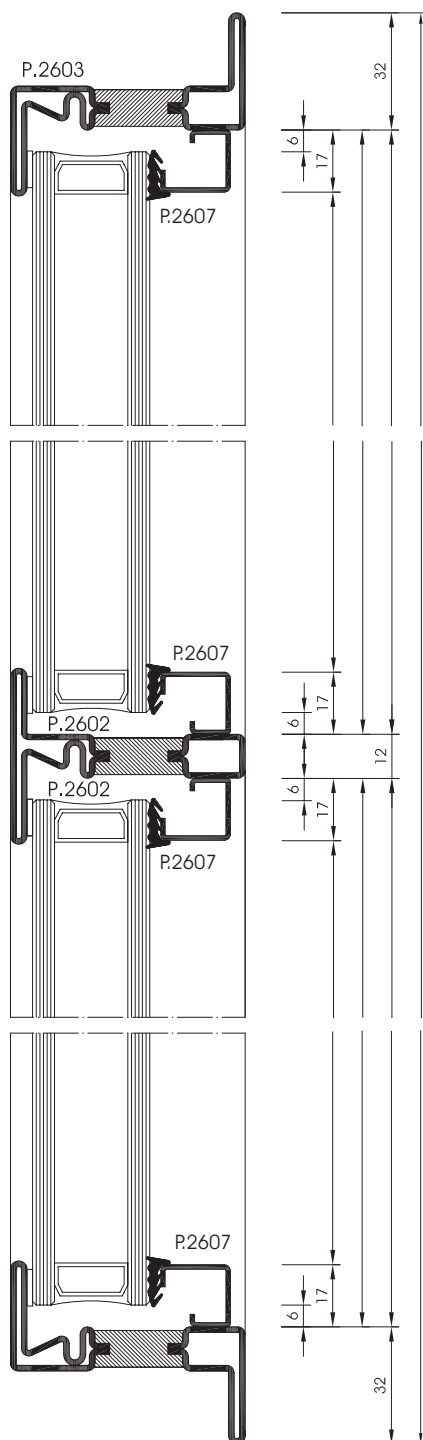


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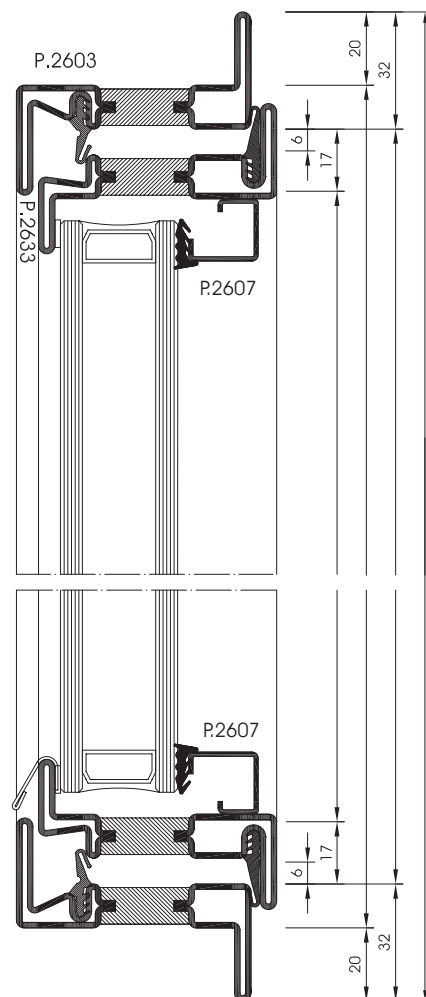




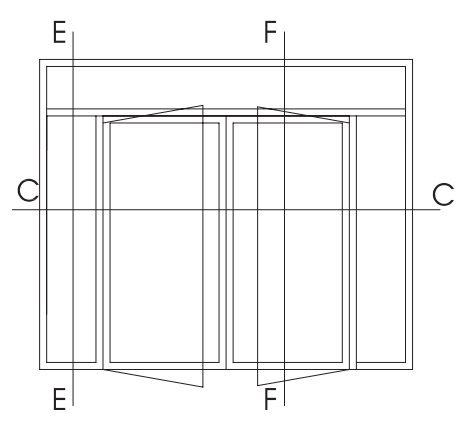
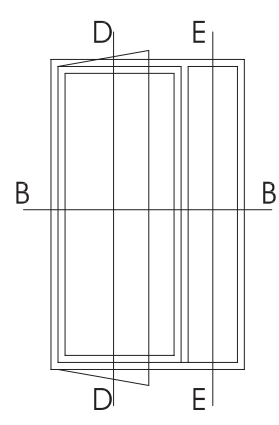
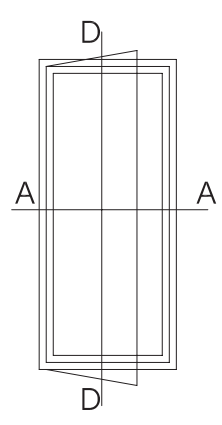
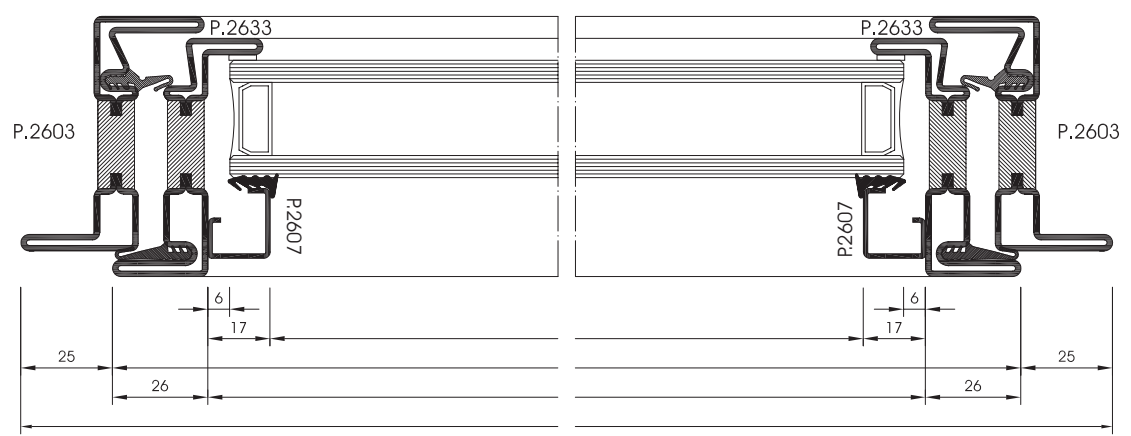
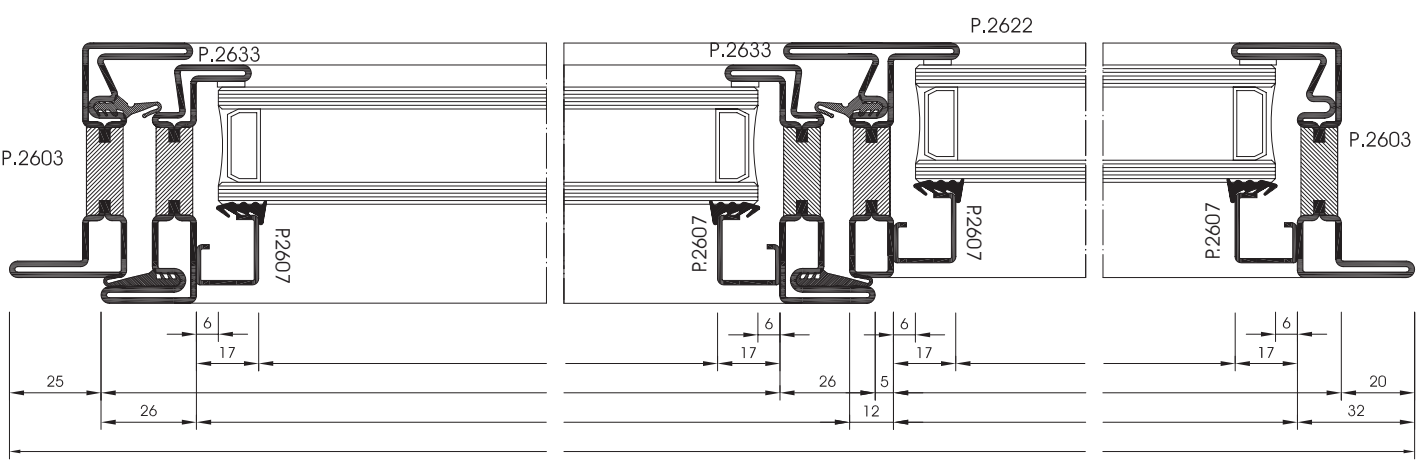
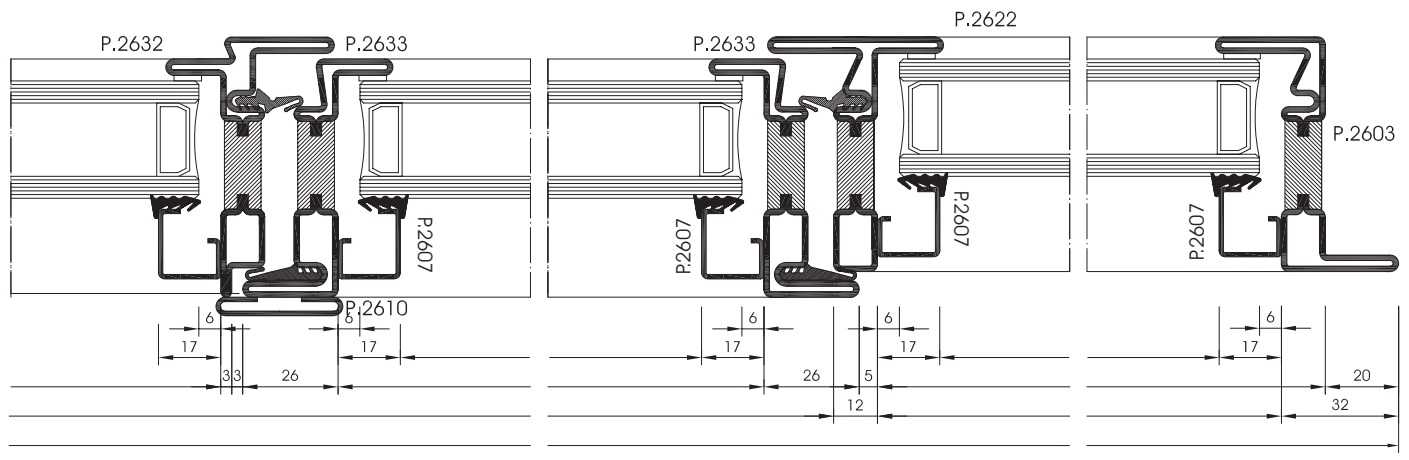
SEZIONE F-F



SEZIONE E-E



SEZIONE D-D



Sistema integrato di profili, accessori e guarnizioni a taglio termico con profili aventi sezione in vista di 46 mm (nodo laterale) e 62 mm (nodo centrale), idoneo per la realizzazione di porte e finestre a 2 ante, rettangolari, sagomate o curve, con o senza fissi laterali e superiori.

I profili in metallo componenti il sistema sono dello spessore di 15/10 mm e sono ottenuti tramite profilatura a freddo di nastri nei vari materiali previsti dal sistema.

Il taglio termico all'interno della sezione dei profili è realizzato tramite una resina poliuretanicca ad alta densità, iniettata ad alta pressione. Il collegamento che si ottiene è continuo, privo di interruzioni e garantisce ottimi valori di resistenza torsionale e flettente.

La costruzione dei telai prevede l'unione tra i profili tramite saldatura in continuo delle sezioni in contatto e la successiva ripresa delle superfici in vista, o l'utilizzo di un sistema misto ad assemblaggio meccanico e saldatura interna che non necessita di riprese di finitura.

Il sistema prevede la possibilità di alloggiare vetri singoli o stratificati (di sicurezza) a una o più camere.

Caratteristiche del sistema:

- Sormonto interno ed esterno delle ante;
- Sistema di guarnizioni a giunto aperto con guarnizione centrale di tenuta e guarnizione interna di battuta;
- Cerniere a saldare e ad avvitare negli stessi materiali del profilo per porte e per finestre;
- Sistema integrato completo di accessori per lo scarico acqua;
- Kit completo per apertura ad anta con ferramenta a scomparsa;
- Kit per l'alloggiamento di serrature completo di scatole di copertura nei diversi materiali;
- Paraspifferi inferiori con guarnizione a pinna.

PRESTAZIONI

Sistema porte

Trasmittanza Termica (EN ISO 10077-2)

Nodo tipo (acciaio inox) con $U_t = 3,10 \text{ W}/(\text{m}^2 \times \text{K})$

Isolamento Acustico (DIN 52210 / DIN EN ISO 717-1)

Fino a 38 dB

Resistenza al vento (DIN EN 12210)

Classe B4

Sistema finestre

Trasmittanza Termica (EN ISO 10077-2)

Nodo tipo (acciaio inox) con $U_t = 3,10 \text{ W}/(\text{m}^2 \times \text{K})$

Isolamento Acustico (DIN 52210 / DIN EN ISO 717-1)

Fino a 40 dB

Resistenza all'aria (DIN EN 12207)

Classe 4

Resistenza all'acqua (DIN EN 12208)

Classe 7A

Resistenza al vento (DIN EN 12210)

Classe B4

Prova di durata a cicli di apertura (DIN EN 1197-12400)

Classe 2 - 10.000 Cicli

Thermally insulated integrated system of profiles, accessories and gaskets with visible section of 46 mm (lateral section) and 62 mm (central section) suitable for rectangular, trapezoidal, arched shaped double leafed doors and windows for door and window with or without fixed side light.

The metal profiles that make up the system are 15/10 mm thick and are obtained from the cold-forming of the coils in the various materials available.

The thermal break connection inside the section is obtained by means of a high density polyurethane resin, injected at high pressure. The connection is continuous, without interruptions, guaranteeing maximum resilience to torsional and bending stress.

The assembly of the frames requires that the profiles be connected by welding together the sections in contact and then that the visible welds must be ground down neatly and finished, or by combining mechanical assembly and internal welding that does not require the retouching of the finish.

The system permits to use double or triple thermal insulated glazing with single or stratified glass (security glass).

Features of the system

- Surmounted internal and external design of the sections;
- Central and rebate gasket placed for the best water, wind, air tightness and acoustic performances;
- High capacity hinges to be welded or screwed in the same material of the profile;
- Integrated system complete of accessories for water drain
- Concealed hardware for side-hung windows;
- Complete kit for lock with cover pins in the same material of the profile;
- Special drop down seal with fin.

PERFORMANCES

Door system

Thermal transmittance (EN ISO 10077-2)

Typical section (stainless steel) $U_t = 3,10 \text{ W}/(\text{m}^2 \times \text{K})$

Acoustic performance (DIN 52210 / DIN EN ISO 717-1)

Up to 38 dB

Resistance to wind load (DIN EN 12210)

Class B4

Windows system

Thermal transmittance (EN ISO 10077-2)

Typical section (stainless steel) $U_t = 2,97 \text{ W}/(\text{m}^2 \times \text{K})$

Acoustic performance (DIN 52210 / DIN EN ISO 717-1)

Up to 38 dB

Air permeability (DIN EN 12207)

Class 4

Watertightness (DIN EN 12208)

Class 9A (E1050)

Resistance to wind load (DIN EN 12210)

Class B4

Resistance to repeated opening and closing (DIN EN 1197-12400)

Class 2 - 10.000 opening and closing

MATERIALI / MATERIALS

ACCIAIO INOX / STAINLESS STEEL

Materiale / Materials

Profilati ricavati da nastro di lamiera di acciaio inox laminato a freddo pre-trattato industrialmente per garantire la massima qualità e uniformità.

Sections processed out of the cold-rolled coils, industrially pre-treated for utmost quality and uniformity.

Caratteristiche fisiche / Physical features

AISI 304 (X5 CrNi 18-10) - AISI 316L Marino (X2 CrNiMo 17-12-2)

Norme di riferimento / Norms of reference

EN 10088-2; EU 114

Trattamenti superficiali / Surface treatment

Finitura satinata: ottenuta su nastro AISI 304 finitura superficiale 2B con successiva satinatura con abrasivi a grana 220

Finitura lucida: ottenuta su nastro AISI 316L (marino) con finitura superficiale 2R riflettività 53% e successiva lucidatura a specchio.

Finitura Scotch Brite: ottenuta su nastro AISI 316L (marino) con finitura superficiale 2B con successiva spazzolatura Scotch Brite.

Satined: obtained on AISI 304 coil 2B pre-finish with satin post-treatment by means of abrasives 220 in grain size.

Polished: obtained on AISI 316L (marine) coil pre-finish with 2R surface finish, 53% reflectivity, and mirror post-polish.

Scotch Brite: obtained on AISI 316L (marine) coil 2B pre-finish with Scotch-Brite post-scrubbing.

ACCIAIO COR-TEN / COR-TEN STEEL

Materiale / Materials

Profilati ottenuti da nastro in acciaio altoresistenziale, autopassivante (che un tempo veniva commercializzato con il nome Cor-Ten) tale da formare, se esposto all'aria, uno strato di ossido uniforme e stabile che, ricoprendo la lamiera, ne arresta la corrosione atmosferica.

Sections processed out of highly resistant self-oxidising steel coils – once traded under the name Cor-Ten. If exposed to the open air, it produces a uniform protective layer that reduces weather corrosion.

Caratteristiche fisiche / Physical features

Fe 510 X (C max % 0,12; Si % 0,25-0,75; Mn % 0,20-0,50; P % 0,07-0,15; Cu % 0,25-0,55; Cr % 0,30-1,25; Ni max % 0,65)

Norme di riferimento / Norms of reference

EN 10149

Trattamenti superficiali / Surface treatment

Dopo la profilatura il materiale viene immerso in speciali bagni ossidanti tali da accelerare la formazione dello strato protettivo. Raggiunta la tonalità desiderata della superficie si procede ad una ceratura di stabilizzazione del materiale.

After forming, sections are plunged into a special oxidising bath to catalyze formation of the protective coating.

Once the desired tone obtained, sections are stabilized by a wax coating.

ACCIAIO ZINCATO VERNICIATO / GALVANIZED AND PAINTED STEEL

Materiale / Materials

Profilati ottenuti da nastro in lamiera di acciaio zincato a caldo sistema Sendzimir finitura skinpassata

Sections processed out of hot galvanized steel coils, band "Sendzimir, skinpassed finishing.

Caratteristiche fisiche / Physical features

FeP02 GZ 200 (copertura di zinco pari a 200gr/mq per faccia / with zinc coating of 200 gr/sq x m on both faces)

Norme di riferimento / Norms of reference

UNI EN 10142/3/7; EURONORM 143

Trattamenti superficiali / Pre-painted surface treatment

La preparazione del supporto zincato si effettua tramite i processi di sgrassaggio, decapaggio, e lavaggio in acqua. Segue l'applicazione di uno strato di zinco per fosfatazione seguito da lavaggi in acqua demineralizzata. Infine applicazione della mano a finire con polveri poliestere cotte in forno a 180 °C per 25 minuti.

The preparation of a galvanized surface is made through several processes: degreasing, pickling and washing. A coating of zinc is then applied through a phosphatizing process followed by rinses in demineralised water. A final coat is then applied with polyester powders baked at 180° for 25 minutes.

LEGA DI RAME OT67 / COPPER ALLOY OT67

Materiale / Materials

Profilati ottenuti da nastro di Lega di Rame OT67 laminato a freddo rincrudito allo stato grezzo.

Sections processed out of copper alloy coils, industrially cold-rolled.

Caratteristiche fisiche / Physical features

Cu Zn 33 CW 506L (OT 67, 67% rame / copper e 33% zinco / zinc)

Norme di riferimento / Norms of reference

EN 1652:1999

Trattamenti superficiali / Surface treatment

Finitura brunita: dopo la profilatura viene eseguita una ricottura di distensione, quindi la pulitura meccanica con abrasivo e la successiva brunitura per immersione con liquido brunitore; il profilo viene poi lavato e asciugato ed infine protetto mediante trattamento con olio di vaselina.

Finitura lucida: dopo la profilatura viene eseguita una ricottura di distensione e successivamente la lucidatura a specchio.

Burnished finish: after forming, the product is submitted to stress relieving, then to mechanical cleaning with abrasive products and ultimately to burnishing by plunging into a burnishing solution. It is then washed and dried and protected with a vaseline coating.

Glossy finish: after forming, the product is submitted to stress relieving and then mirror-like polished.

