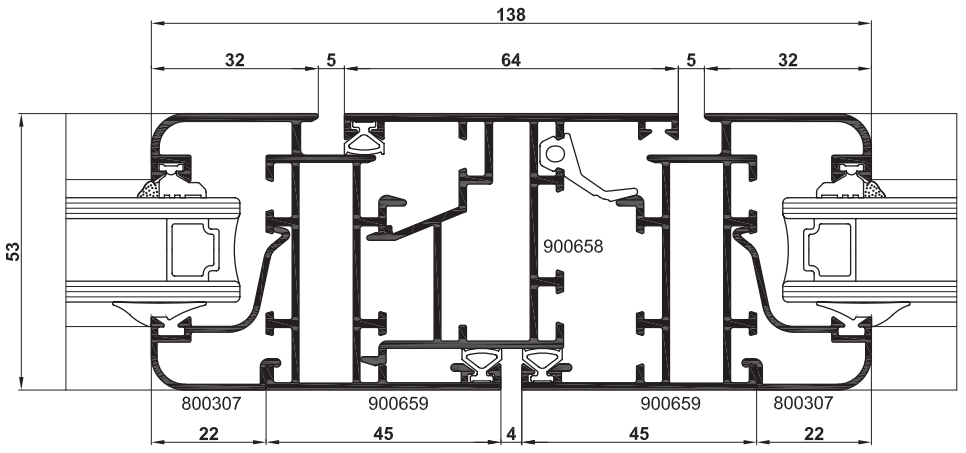
sapa:

Original Systems®



Sistema R

R 40 SYSTEM

Il Sistema R consente di realizzare serramenti in alluminio con il minor numero di lavorazioni possibili, riducendo i tempi di assemblaggio nel rispetto dalla migliore qualità.

The Sistema R allows the realization of windows and doors with the less possible manufacturing, reducing so the assembling time and achieving the best quality.

Ed. 01.13

Sapa Profili Srl

R 40 SYSTEM
Sistema R
Ed. 01.13

sapa:

R 40 SYSTEM

Finestre e porte a battente

Casement windows and doors

Sapa Profili s.r.l.
04014 Pontinia (LT) - Via Marittima II Km 5.600
Website www.finestresapa.it
Website www.originalsystems.it
Website www.sapaprofili.it

About the Sapa Group

Sapa develops, manufactures and markets value added profiles, profile-based building systems and heat-exchanger strip in the light-weight material aluminium and is one of the world's leading manufacturers.

Sapa's business concept is based on close co-operation with its customers, who are primarily located in Europe, North America and Asia. The largest customer segments are the construction, transport, domestic and office, and engineering sectors.

Sapa is organised into six Business Areas: Profiles North Europe, Profiles Central Europe, Profiles South Europe, Profiles North America, Building System and Heat Transfer.

Sapa Profiles

Sapa is the world's leading producer of extruded aluminium profiles and maintains extensive operations in the value-added fabrication of profiles.

The company has 111 presses and more than 12.000 employees and production facilities in 18 countries: Belgium, China, Denmark, France, Germany, Hungary, Italy, Lithuania, Mexico, the Netherlands, Poland, Portugal, Romania, Slovakia, Spain, Sweden, the United Kingdom and the United States, plus sales representation in a number of additional countries.

With footprints in North and Central America, Europe and Asia we can serve customers on a worldwide basis.

Sapa Profili Srl

With 3 plants in Italy and the support of the rest of the group, Sapa Profili Srl is one of the largest extrusion companies within Italy.

Soft- and hard-alloy aluminium extrusions, standard rod and bars, seamless tube (round or shaped), simple or complex aluminium extrusion profiles (drawings), high fin ratio, tight tolerances with superior surface finish quality, or other demanding high-tech applications… There is a simple solution to almost any design problem: aluminium profiles by Sapa. The solutions are based on our unique experience in extrusion and our focus on the local market.

Sapa Profili Srl strategy is providing its customers with expertise, high quality and resources, releasing capacity to allow them to concentrate on their core operations. It's all about creating competitive, comprehensive solutions.

Il gruppo Sapa

Sapa sviluppa, produce e commercializza profili a valore aggiunto, profili per l'edilizia e scambiatori di calore in alluminio. Sapa è un leader tra i produttori nel mondo.

Un elemento determinante per il concetto di business di Sapa è la stretta collaborazione con il cliente maggiormente basati in Europa, Nord America ed Asia. I segmenti di mercato maggiori sono quelli dell'edilizia, il settore trasporti, casa ed uffici ed il settore della meccanica.

La Sapa è suddivisa in sei aree: Profili Nord Europa, Profili Europa centrale, Profili Sud Europa, Profili Nord America, Sistemi per l'edilizia ed il settore per gli scambiatori di calore.

Sapa Profili

Sapa è il maggior produttore di profili estrusi al mondo.

Questa nuova azienda dispone di 111 presse con oltre 12.000 dipendenti e con centri di produzione in 18 paesi: Belgio, Cina, Danimarca, Francia, Germania, Ungheria, Italia, Lituania, Messico, Olanda, Polonia, Portogallo, Romania, Slovenia, Spagna, Svezia, Gran Bretagna e negli stati uniti oltre ad avere rappresentanti commerciali in altri paesi.

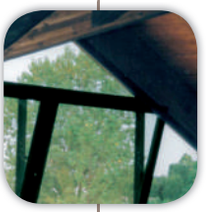
Grazie alla presenza in America del Nord e Centrale, Europa ed Asia, possiamo servire i clienti in tutto il mondo.

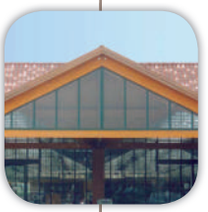
Sapa Profili Srl

Con i 3 stabilimenti produttivi in Italia ed il supporto del resto del gruppo la Sapa Profili Srl diventa uno dei maggiori estrusori in Italia.

Estrusioni di alluminio in lega leggera o dura, profili standard o barrame, tubi tondi o a disegno senza saldature, profili estrusi semplici o complessi a disegno, elevato rapporto di alettatura, tolleranze ristrette con qualità superficiale elevata o qualsiasi altra esigenza per applicazioni high tech… esiste una semplice soluzione a quasi tutte le esigenze di design: profili in alluminio Sapa. Le soluzioni basano sulla nostra esperienza unica e focalizzata sul mercato locale..

La strategia di Sapa Profili Srl è quella di fornire al cliente competenza, qualità superiore e risorse, per permettere loro di concentrarsi sulle proprie operazioni essenziali. Plasmiamo il futuro creando soluzioni comprensive e competitive.





Innovation and Experience: Sapa keys to Build The future

Since its beginnings Sapa has been recognized as an innovator. Through the years, we've balanced experience with innovation. We've listened to our customers, and we are dedicated to providing the tools our customers need to succeed.

Following this spirit, in the market of B&C Sapa offers a comprehensive line of architectural aluminum building products and systems for residential and non-residential buildings framing systems, windows and curtain wall systems.

Due to the accurate product design, in the B&C market, the Sistema R allows the realization of windows and doors with the less possible manufacturing, reducing so the assembling time and achieving the best quality.

This system is present in the South European market since more than 20 years and has allowed Sapa to renovate it constantly with the experience acquired. In this way the Sistema R, the most widespread for windows and doors on the Italian market, has evolved with the most advanced esthetical and technological contents, as to satisfy all planning demands.

For this reason Sapa has realized, within the Sistema R, four continuous bar thermal break series with different sections and performances, all defined in dimensional, technological and esthetical versatility.

Innovazione ed esperienza: le chiavi Sapa per costruire il futuro.

Fin dalle sue origini, Sapa è stata riconosciuta come innovatrice. Attraverso gli anni, abbiamo equilibrato l'esperienza con l'innovazione. Abbiamo ascoltato i nostri clienti e ci siamo dedicati a fornir loro i mezzi necessari per avere successo.

Seguendo questo spirito, nel mercato dell'edilizia, Sapa offre una completa linea di prodotti architettonici in alluminio e sistemi strutturali per edifici residenziali e non, finestre e pareti divisorie.

Nel mercato dell'edilizia, Il sistema R, grazie all'attenta progettazione, consente di realizzare serramenti in alluminio con il minor numero di lavorazioni possibili, riducendo i tempi di assemblaggio nel rispetto dalla migliore qualità.

La pluri decennale presenza sul mercato sud europeo di questo sistema ha permesso a Sapa di rinnovarlo costantemente nel tempo utilizzando l'esperienza acquisita negli anni. In questo modo il sistema R, il più diffuso e venduto, per porte e finestre, sul mercato italiano, si è arricchito dei più avanzati contenuti estetici, tecnologici e funzionali atti a soddisfare tutte le esigenze costruttive e progettuali.

Per questo Sapa ha realizzato, all'interno del sistema R, quattro serie di profilati a taglio termico a barra continua con diverse sezioni e prestazioni, tutte caratterizzate da polivalenza dimensionale, tecnologica ed estetica.

Original Systems®

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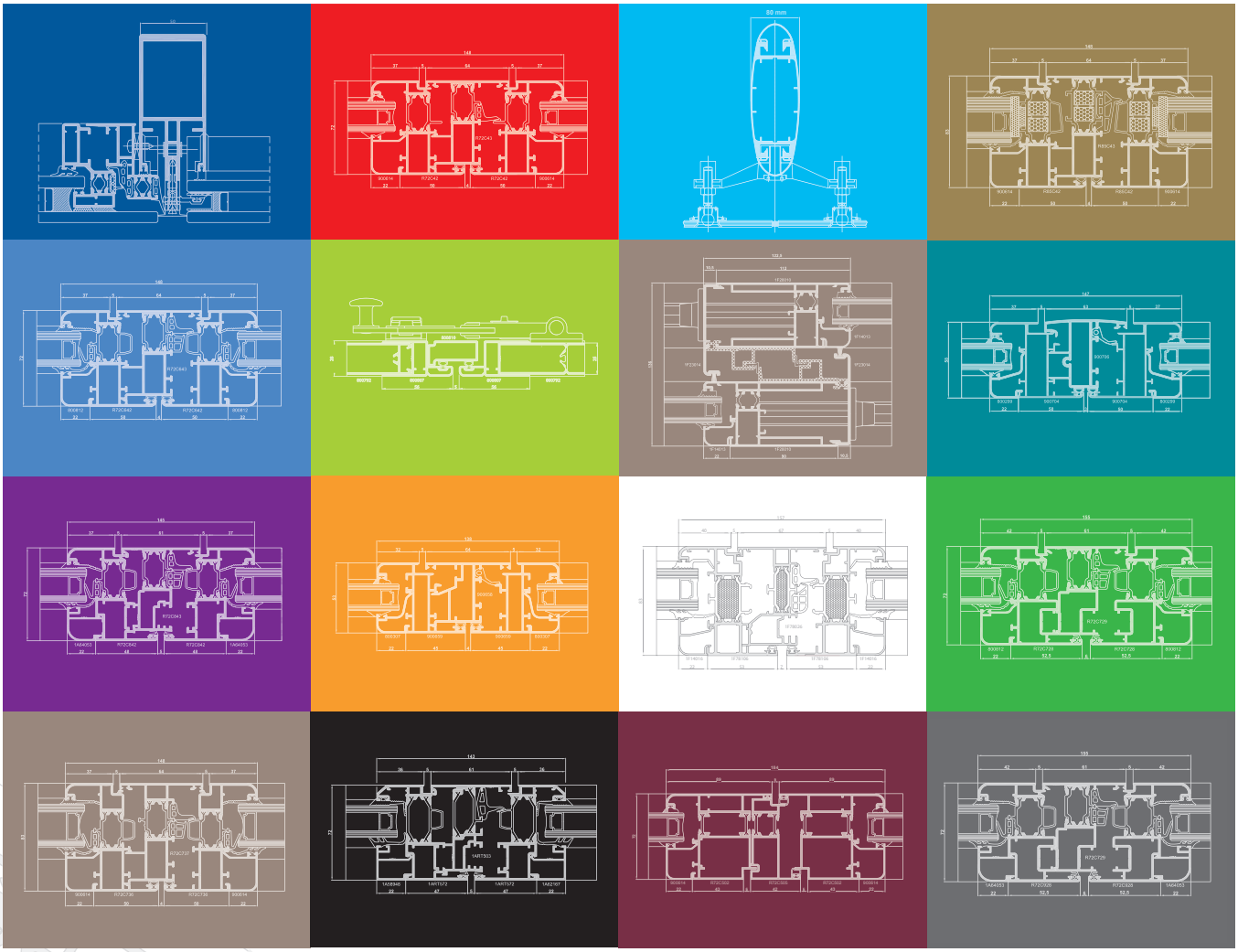
Le **serie** dei sistemi di **Sapa**



Scegliere con **serenità**

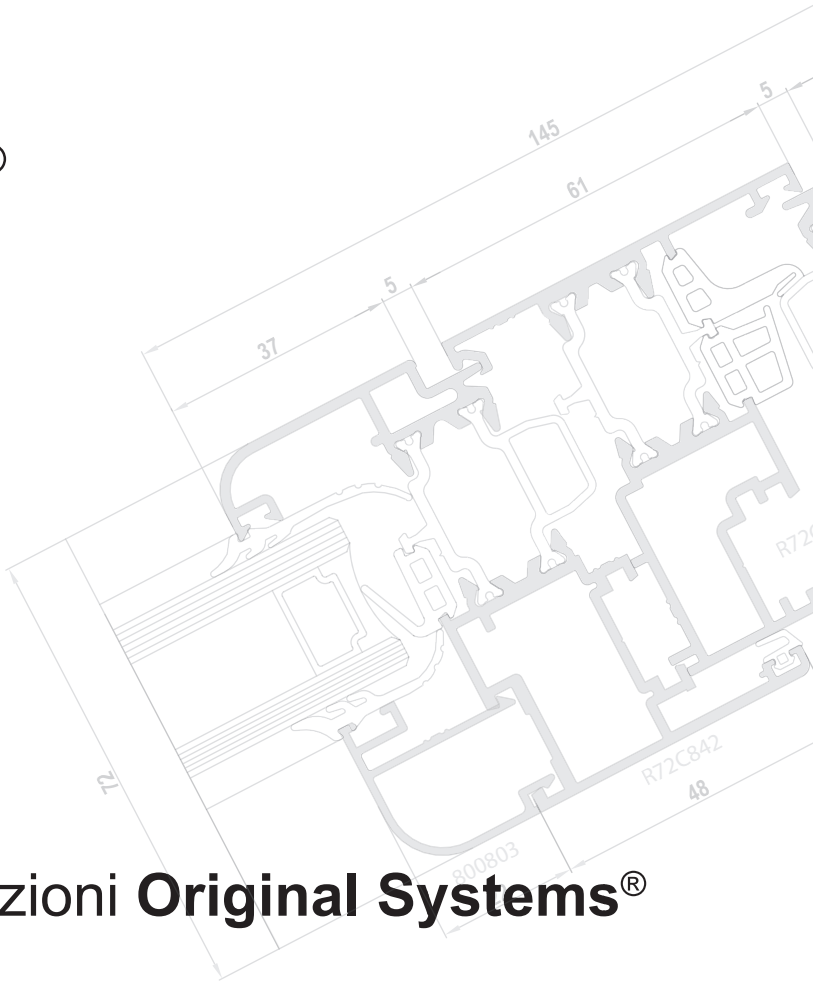
sapa:

Creiamo il futuro

Original Systems®

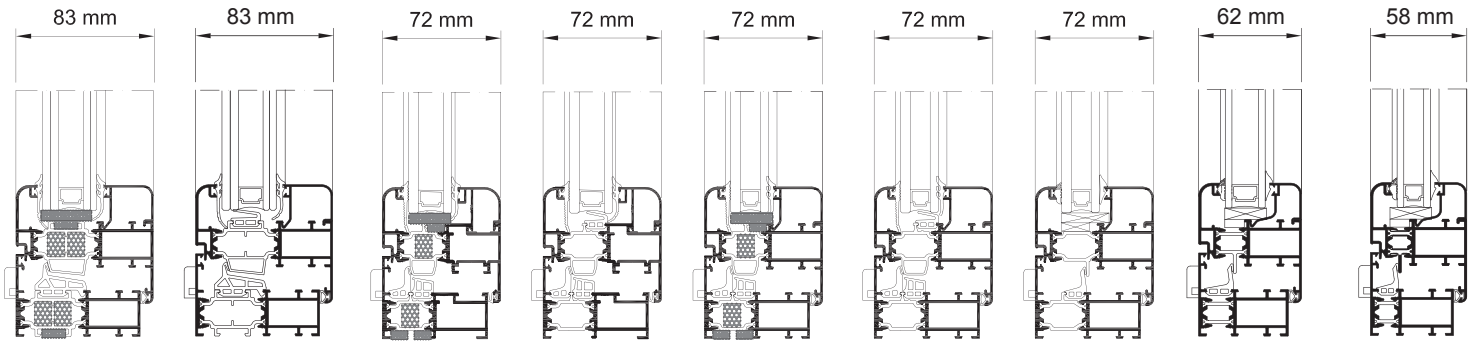
... scegliere con **serenità**

Original Systems Sapa non è soltanto un profilo in alluminio: è una soluzione completa per tutti gli attori della filiera, con l'obiettivo di fornire il miglior prodotto, col più alto valore aggiunto, dalla bauxite al serramento.
L'assistenza tecnica pre e post vendita, i certificati delle prestazioni dei serramenti, la formazione della Scuola del Serramento di Bareggio (MI), i software di calcolo, le soluzioni Autocad, gli opuscoli tecnici, i cataloghi, la comunicazione ed una capillare e competente Rete di Distribuzione Original Systems Sapa vi danno la serenità di aver fatto la scelta migliore.

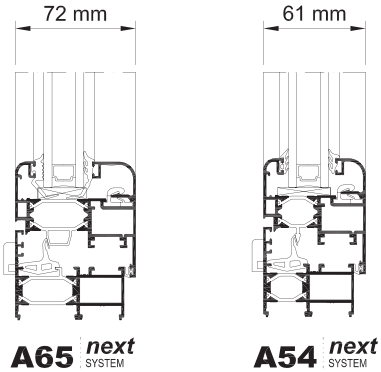


soluzioni **Original Systems®**

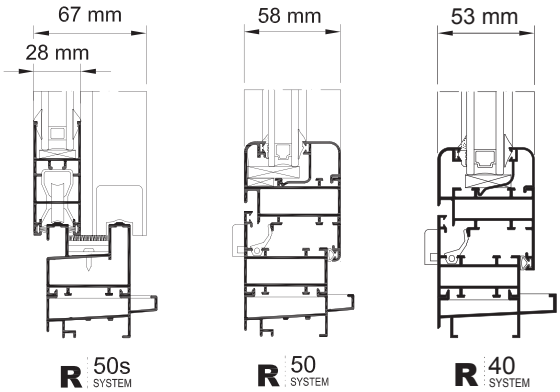
Sistema R^TT



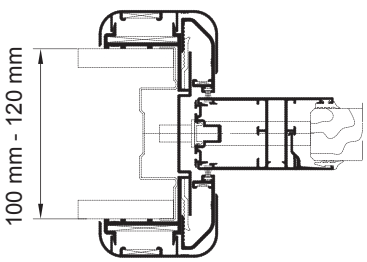
Alfil *next*



Sistema R

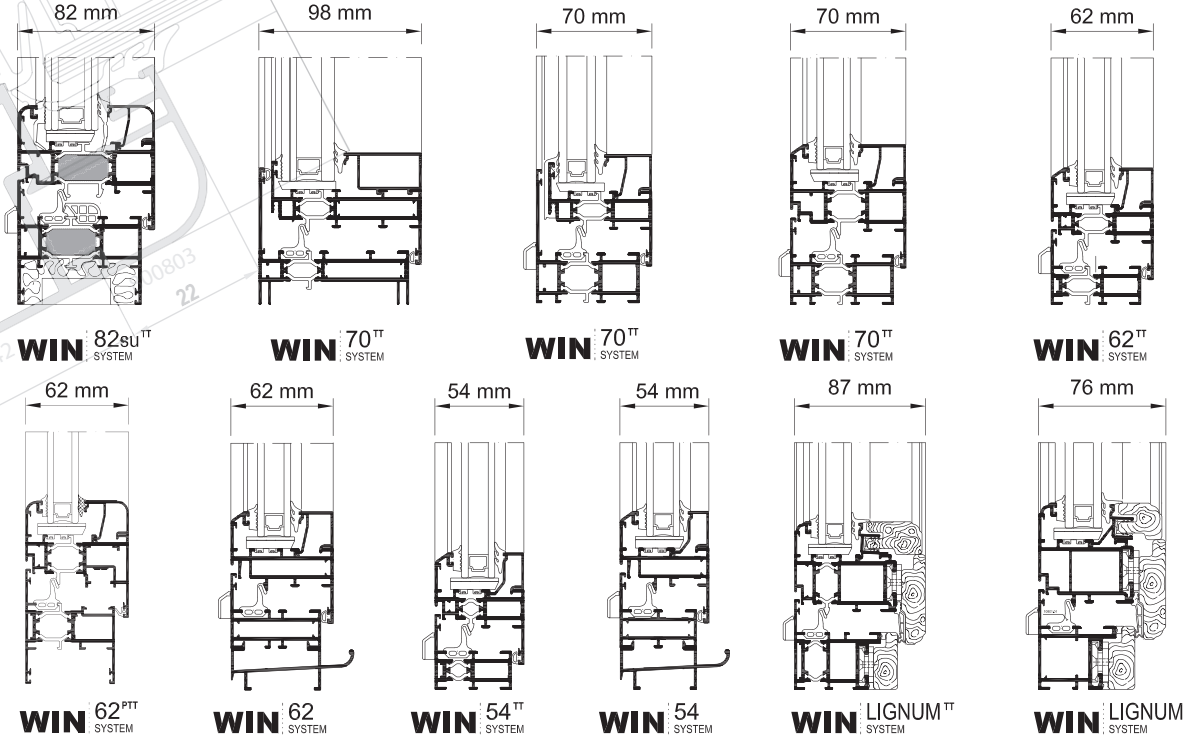


Mr. Hide SYSTEM

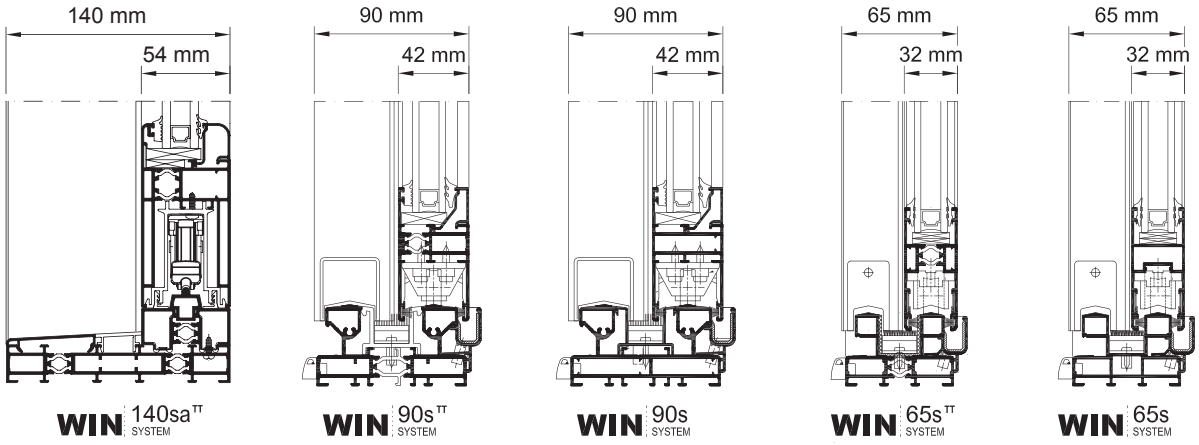


Si, soluzioni **Original Systems®**

Teknowindow Battente



Teknowindow Scorrevole



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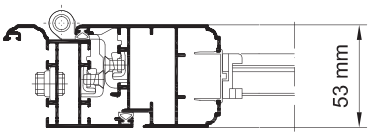

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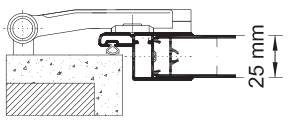
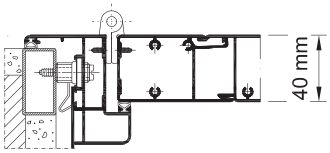
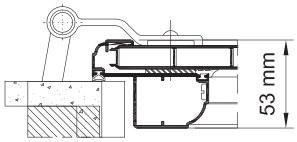


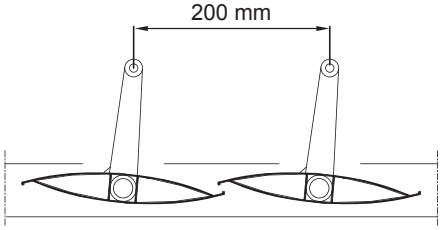
Scurone Venezia



Scurone Padova



Scurone Romagna



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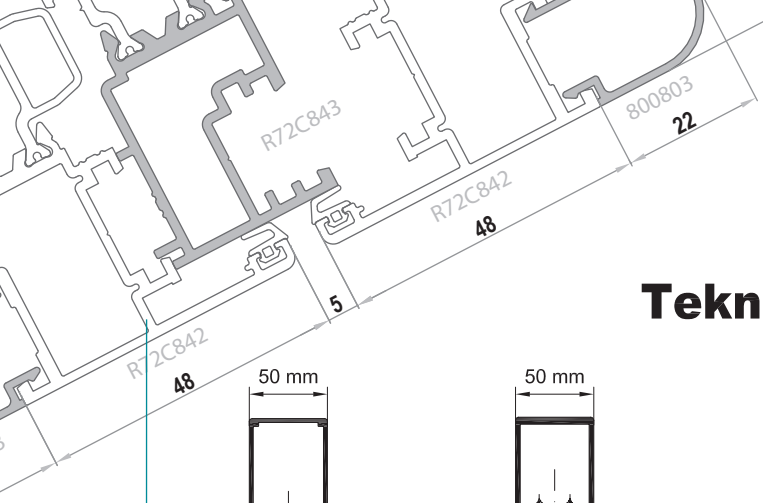

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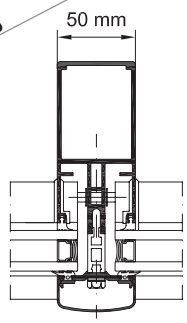

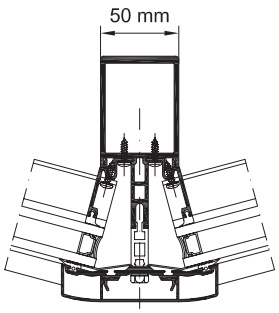

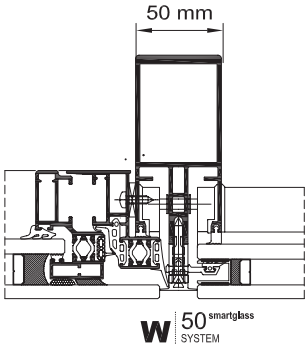

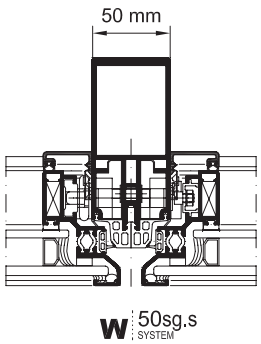

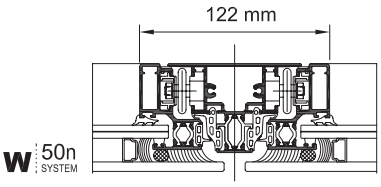

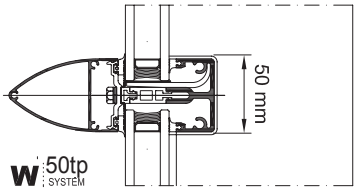

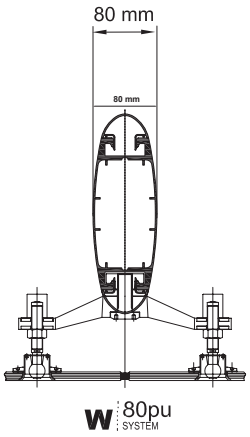

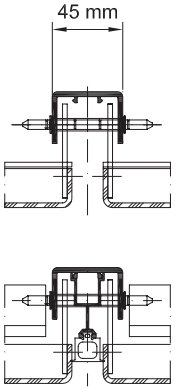

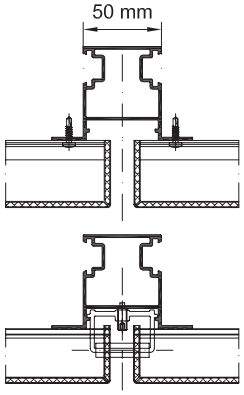

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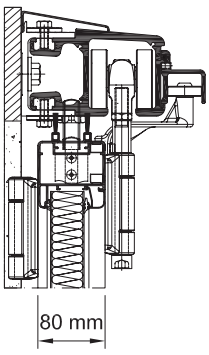

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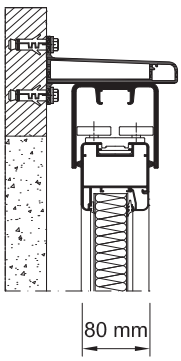
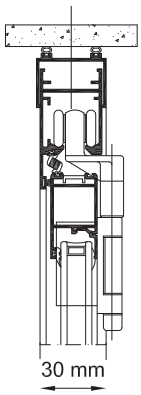


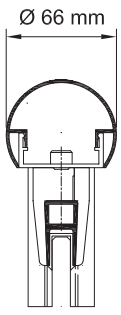
SCORREVOLE

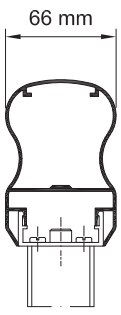
Veranda a Libro

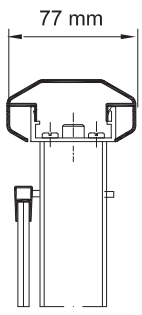


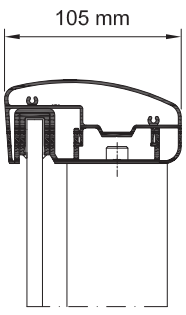
GR 14 SYSTEM

plus® SYSTEM









RINGHIERE E BALCONI

Il sistema R40
R40, grazie ad un'attenta progettazione, consente di realizzare un serramento in alluminio con il minor numero di lavorazioni possibili, riducendo i tempi di assemblaggio nel rispetto della migliore qualità.
Nelle prove di collaudo, il serramento realizzato con il sistema R40 ottiene elevate prestazioni perchè contiene tutte le innovazioni tecnologiche che hanno interessato il campo dei serramenti. Con il sistema R40 si realizzano serramenti a battente nelle diverse tipologie.

The R40 system
The R40 system was designed to cut tooling and assembling time in the producting of alluminium doors and windows at top quality standards.
The test results obtained on the R40 systems show excellent figures owing to the most advanced technological achievements in this field over the last few years.
Casement windows and doors are successfully manufactured by using the R40 system.

I profilati
Sono estrusi in lega di alluminio primario da lavorazione plastica EN AW 6060 UNI-EN 573-3 sottoposti ad un processo di trattamento termico applicato secondo la Normativa UNI EN 755-2 (bonifica con tempra in aria alla pressa, seguita da invecchiamento artificiale) per ottenere lo stato fisico T5.

The section bars
They are extrusions in primary aluminium alloy from EN AW 6060 UNI -EN 573-3 plastic manufacturing, subjected to a thermic treatment process, applied according to UNI EN 755-2 Regulation (austempering through air tempering at the press, followed by artificial ageing) in order to achieve the T5 physical state.

Trattamenti superficiali:
I trattamenti superficiali di ossidazione anodica, elettrocolorazione e di verniciatura eseguiti negli impianti di proprietà Sapa, sono nel rispetto di quanto previsto dalle normative richieste dai marchi Qualanod (per ossidazione) e Qualicoat (per la verniciatura).

Surface treatments:
The surface treatments of anodization, electrocoloration and painting carried out in Sapa Italy plants, respect the regulations required by the brands: Qualanod (for anodization) and Qualicoat (for painting).

Vetratura:
La scelta ed il tipo di vetro sarà in funzione del suo campo di impiego, per il montaggio attenersi scrupolosamente alle pescrizioni dei produttori.
Il sistema consente l'inserimento dei vetri aventi spessori da 4 a 33 mm.
Le guarnizioni di contenimento vetro sono EPDM studiate in vari spessori che, interpolati nel modo idoneo, garantiscono un'adeguata compressione sulla lastra di vetro stessa.
La tassellatura sarà effettuata con appositi tasselli di regolazione e spessoramento aventi posizioni nel serramento ideali e rinforzate. Solo la completa e totale osservanza della tecnica di vetratura potrà garantire uno scatto vincolante e sicuro del profilato fermavetro e la garanzia di durata agli sforzi di normale utenza.

Glass:
The choice and the kind of glass will depend on its utilization.While assembling, it is essential to follow scrupulously the manufacturers' instructons. The System allows to insert glasses whose thickness may be from 4 to 33 mm .
The packing for the glass containment is in EPDM, conceived in different thickness.If interpolated in the right way, it assures the proper compression to the sheet of glass.The plugging will be carried out through proper adjusting and shimming plugs, lacated in ideal and reinforced positions in the fastening. Only the full keeping of the glass technique will assure the proper click of the glass-clip section bar and will guarantee a long term resistance to the normal uses.

Accessori e guarnizioni:
Originali e marcati Sapa, con corpo in lega di allumino, perni e viteria in acciaio inox, le boccole e i particolari di scorrimento sono in poliammide rinforzato.
Le guarnizioni in EPDM sono state studiate con durezza differenti secondo la funzione che dovranno svolgere all'interno del serramento.

Accessories and packing:
They are original and Sapa marked.
Their features are: core in aluminium alloy, pins and screw in stainless steel, bushings and sliding elements are in reinforced polyamide.
The packing in EPDM has been conceived in different hardness according to its functions in the fastening.

Realizzazione del serramento
L'esecuzione del serramento dovrà prevedere tutte le operazioni necessarie per il buon funzionamento del "componente finestra" quali la sigillatura e il bloccaggio sicuro degli angoli, il fissaggio a muro adeguato e, necessariamente, l'utilizzo di accessori e guarnizioni originali. Le lavorazioni, proprio per garantire la giusta applicazione dei particolari, dovranno essere eseguite con attrezzature originali e collaudate sul sistema stesso. Gli scarichi dell'acqua e le asole di aerazione per vetri camera dovranno essere di dimensione e numero ottimale in funzione della dimensione e della tipologia del serramento.

Assembly of window
The frame construction must include all the operations necessary for good working of the "window component", such as sealing and safe blocking of corners, suitable wall fixtures and the use of the original accessories and weatherstrips. In order to guarantee the correct application of the parts, works must be carried out with original equipment that has been tested on the system. The size and number of water drains and ventilation slots for double glazing must correspond to the size and type of window frame.

Calcolo dimensioni massime serramenti:
Nel definire le misure massime dei diversi tipi di serramento, si devono considerare oltre agli elementi costruttivi dell'infisso (sezione dei profili e loro campi d'impiego, tipo di attacco al muro, spessore e tipo del vetro), le caratteristiche di utilizzo, nonché le varianti metereologiche (esposizione dell'infisso, velocità dei venti agenti nella zona, altezza dal suolo alla quale sarà installato l'infisso, ecc.).
Consigliamo a tal fine la consultazione delle prescrizioni Uncsaal.
Attrezzature:
Le attrezzature raccomandate (Comall e Tekna) sono state appositamente progettate e realizzate per le particolari caratteristiche del sistema e per l'applicazione specifica degli accessori a catalogo.
Peso dei profilati:
I pesi indicati sono puramente indicativi (peso teorico ricavato sullo spessore nominale del profilato); Le matrici di estrusione sono soggette ad un normale processo di usura che porta il peso dell'estruso da un minimo (matrice nuova) ad un massimo (matrice usurata al limite delle tolleranze dimensionali).
Tolleranze dimensionali
Per le tolleranze dimensionali si fa riferimento alla Normativa UNI EN 12020-2

Window maximum dimensions
During the definition of the maximum dimensions of the different sorts of windows, beside the structural elements of the frame (section, uses, juncture to the wall, thickness and sort of glass), the final use and the weather conditions (exposure of the window frame, speed of the wind in the area, distance from the ground where the frame will be installed, etc.) have to be taken into account.
To this purpose, we suggest to consult the Uncsaal regulations.
Equipment:
The recommended equipment (Comall and Tekna) has been planned and realized on purpose according to the particular characteristics of the system and to the specific application of the catalogue accessories.
Weight
Any weight is shown just as an indication (theorical weight made out of the nominal thickness of the section) The extrusion dies are subject to the natural wear and tear, therefore the section weight varies from a minimum when the dies is new, to a maximum weight when the die is at highest dimensional tolerances limits.
Dimensional allowance
As for the dimensional allowance it is to refer to UNI EN 12020-2 Regulation.

NB:
Il mancato impiego, anche parziale, dei prodotti originali, esclude qualsiasi possibilità di rivalsa nei confronti di Sapa.

NB:
Sapa declines any responsability in case of use or partial use of non original products.

Al fine di migliorare i propri prodotti, Sapa si riserva la facoltà di apportare, in qualsiasi momento e senza preavviso, le modifiche che rIterrà opportuno.
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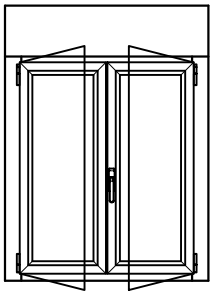
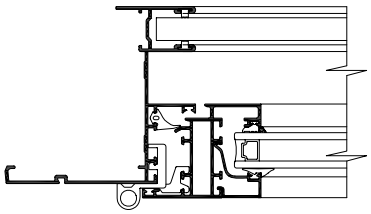
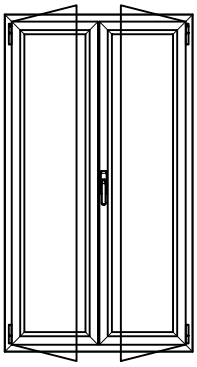
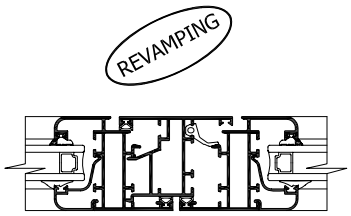
PRESTAZIONI AGLI AGENTI ATMOSFERICI
ATMOSPHERIC AGENTS PERFORMANCES

Per garantire il massimo delle prestazioni in funzionalità e durata, il sistema R40 è stato sottoposto ai collaudi rescritti dalle vigenti Normative europee ottenendo ottimi risultati

To guarantee the maximum functionalyty and wear, R40 system has been tested according to the running european norms.

CERTIFICATI *CERTIFICATES*

Tipologia *Windows and doors*	Dimensioni *Dimensions* L x H mm	Risultati prove *Test values* Aria *Air*	Acqua *Water*	Vento *Wind*	Sezioni *Cross section*	Laboratorio *Testing Lab.* Certificato N° *Certificate Nr.*
	1260 x 1410 + 1260 x 316 (Cassonetto)	A3*	E3*	V2*		ISTEDIL 471/86-B
	1000 x 1900	4**	E750**	C5**		ISTEDIL 0585/2007

* - Collaudi eseguiti secondo Normative UNI 7979 EN42 EN86 EN77

** - Collaudi eseguiti secondo Normative UNI EN 12207 - UNI EN 12208 - UNI EN 12210

* - *Tests as per UNI 7979 EN42 EN86 EN77 standards*

** - *Tests as per UNI EN 12207 - UNI EN 12208 - UNI EN 12210 standards*

Rev. : 2010 Marzo *March*

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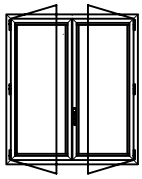
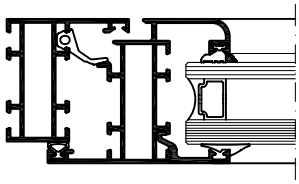
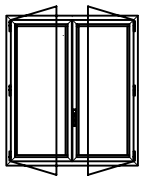
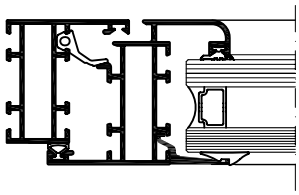
Per garantire il massimo delle prestazioni in termini di abbattimento acustico, il sistema R40 è stato sottoposto ai collaudi prescritti dalle vigenti Normative europee ottenendo ottimi risultati

To guarantee the maximum in terms of noise reduction, R40 system has been tested according to the running european norms.

CERTIFICATI — *CERTIFICATES*

Sistema *System*	Tipologia / dimensioni *Windows and doors / Dimensions* L x H mm	Tipo vetrocamera *Double glazing Type*	Risultati test *Test Values* Rw = dB	Sezioni *Cross section*	Laboratorio Certificato n° *Laboratory Certificate nr.*
R 40 SYSTEM	 1230x1480	Saint-Gobain Climalit Silance 41/30 Spessore *thickness* = 30 mm	40		ISTEDIL 1336/2007
R 40 SYSTEM	 1230x1480	Saint-Gobain Climalit Silance 44/34 Spessore *thickness* = 34 mm	43		ISTEDIL 1336/2007-A

- Collaudi eseguiti secondo Normative UNI EN ISO 140/3 - UNI EN ISO 717/1

- *Tests as per UNI EN ISO 140/3 - UNI EN ISO 717/1 standards*

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Una corretta posa in opera, evita spesso il decadimento delle prestazioni ottenute in laboratorio, curare in maniera appropriata la posa valorizza tutto il processo produttivo dalla progettazione all'installazione.
Fare una pulizia periodica con prodotti neutri riduce notevolmente i rischi di corrosione ed allunga sicuramente la vita dell'infisso
Per una corretta installazione, manutenzione e pulizia dei serramenti, Vi raccomandiamo di consultare le prescrizioni riportate sulle seguenti note techiche UNCSAAL:
UX42 - "Guida alla posa in opera dei serramenti"
UX10 - " La pulizia delle superfici di serramenti e facciate continue"

A correct installation, often avoids the decay of the performances obtained in the laboratory. Taking appropriate care of the installation increases the value of the whole production process from the planning to the installation.
Cleaning periodically with neutral products reduces remarkably the corrosion risk and extends surely the life of the frame.
For a correct installation, maintenance and cleaning of the sections, we recommend you refer to the prescriptions quoted in the following technical notes of UNCSAAL UX42 and UX10

LEGHE IN ALLUMINIO DA BONIFICA - PROFILATI ESTRUSI
HEAT-TREATABLE ALUMINIUM ALLOYS - EXTRUSION SECTIONS

Leghe / *Alloys*			6060 UNI EN 573-3			
Composizione chimica normale / *Normal chemical compos*		%	Mg 0,4 Si 0,4 Fe 0,2			
Stato / *State*			**0**	**T1**	**T5**	**T6**
Caratteristiche meccaniche *Mechanical Charatteristics*	Carico di rottura a trazione *Ultimate tensite stress*	R_m N/mm²	140 Max	120	185	205
	Carico al limite di snervamento *Yield point*	R_p N/mm²	80 Max	50	145	165
	Allungamento *Elongation*	A %	20	16	11	10
Caratteristiche fisiche *Physical Charatteristics*	Peso specifico *Specific weight*	Kg/dm³	2,70			
	Conduttività termica a 20°C *Heat conductivity at 20°C*	W/ (cm °K)	≈ 2,09			≈ 1,75
	Resistività elettrica a 20°C *Electrical resistivity at 20°C*	$\mu\Omega \cdot cm$	≈ 3,14			≈ 3,25
	Coef. di dilatazione termica lineare da 20° a 200°C *Linear thermal expansion coefficient from 20° to 200° C*		24 $\cdot 10^{-6}$ K^{-1}			

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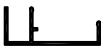
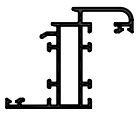
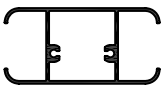
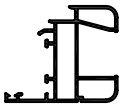
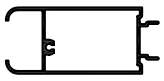
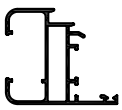
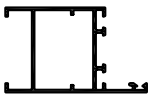
Profilato *Section*	**Sezione** *Cross section*	**Peso** *Weight* Kg/m	**Perimetro** *Perimeter* mm	**Superfice in vista** *Exposed surface* m^2/m	**Jx** cm^4	**Wx** cm^3	**Jy** cm^4	**Wy** cm^3
100009		0,234	84	0,030	0,12	0,16	0,43	0,36
100342		0,120	67	0,025	0,03	0,05	0,21	0,19
100535		0,577	197	0,063	1,41	1,09	2,58	1,29
201035		0,165	61	0,026	0,06	0,09	0,17	0,14
800129		0,324	182	0,074	0,31	0,24	2,75	1,04
800176		0,783	289	0,039	2,73	1,45	8,4	3,3
800271		1,035	429	0,105	8,9	2,5	13,8	5,17
800291		0,629	231	0,080	0,70	0,80	17,20	3,45
800325		1,791	490	0,320	144,73	19,56	18,83	9,24
800326		1,257	358	0,198	22,26	5,43	10,74	5,22
800327		1,142	359	0,127	14,86	4,99	9,83	2,64
800331		1,220	351	0,180	34,89	7,53	11,39	5,62
800357		1,023	402	0,153	9,12	2,53	14,27	4,70
800362		1,021	351	0,142	12,31	4,93	14,82	3,63

I profilati sono forniti in barre di lunghezza da 6500 mm

The sections are supplied with length of 6500 mm

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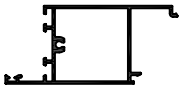
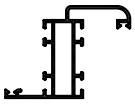
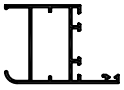
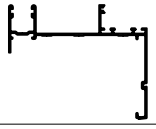
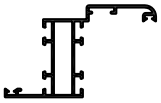
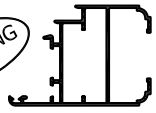
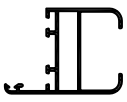
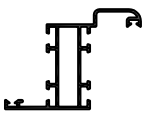
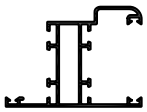
Profilato *Section*	**Sezione** *Cross section*	**Peso** *Weight* Kg/m	**Perimetro** *Perimeter* mm	**Superfice in vista** *Exposed surface* m^2/m	**Jx** cm^4	**Wx** cm^3	**Jy** cm^4	**Wy** cm^3
800363		1,191	383	0,153	26,68	5,04	13,84	6,08
800364		1,009	424	0,114	9,99	2,76	13,80	5,20
800365		0,897	325	0,106	8,80	2,45	10,34	4,07
800383		0,206	139	0,047	0,11	0,10	1,59	0,72
800421		1,585	775	0,086	139.09	18,75	40,33	5,57
800427		1,037	446	0,127	15,87	3,34	14,59	5,35
800473		1,669	430	0,288	114,61	16,61	13,64	7,51
800474		1,211	324	0,182	26,49	6,23	8,89	4,83
800475		1,177	325	0,178	34,32	7,14	9,01	5,01
800476		0,279	150	0,038	0,46	0,45	0,74	0,59
800495 REVAMPING		1,108	420	0,117	14,95	3,58	16,25	5,49
800522		0,882	352	0,119	10,03	3,99	7,25	2,10
800525		0,952	401	0,113	9,24	2,54	12,59	4,51
800526		1,082	471	0,145	12,18	3,16	15,01	4,88

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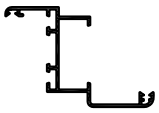
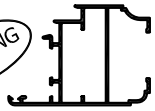
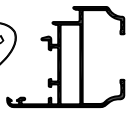
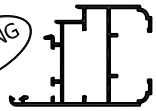
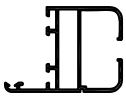
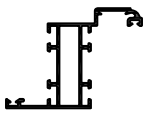
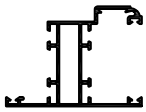
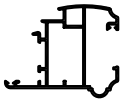
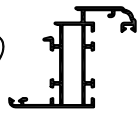
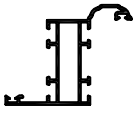
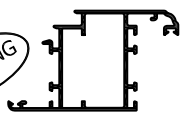
Profilato *Section*	**Sezione** *Cross section* Y X X	**Peso** *Weight* Kg/m	**Perimetro** *Perimeter* mm	**Superfice in vista** *Exposed surface* m^2/m	**Jx** cm^4	**Wx** cm^3	**Jy** cm^4	**Wy** cm^3
800536		0,764	403	0,122	11,69	4,22	10,80	2,54
800537		1,305	370	0,223	43,14	8,30	8,26	5,01
800543 REVAMPING		1,104	417	0,142	14,54	3,50	15,76	5,28
800554 REVAMPING		0,975	384	0,114	8,25	2,31	13,15	4,32
800577 REVAMPING		1,137	433	0,116	15,07	3,59	16,40	5,55
800584		0,949	385	0,140	10,25	4,09	8,81	2,42
800623		0,969	399	0,125	12,92	4,69	9,49	2,63
800631		1,099	469	0,162	15,43	5,07	12,40	3,19
800640 REVAMPING		1,242	455	0,148	16,87	3,88	19,26	6,24
800641		1,299	395	0,080	16,36	4,56	11,75	3,39
800660 REVAMPING		1,010	422	0,105	8,33	2,33	13,45	5,04
800663		0,915	381	0,105	11,75	4,07	7,30	2,14
800665 REVAMPING		1,358	464	0,151	24,67	5,21	20,00	7,44
800695 REVAMPING		1,039	423	0,110	8,72	2,48	11,19	3,62

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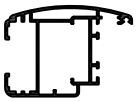
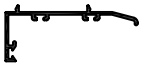
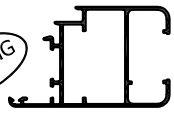
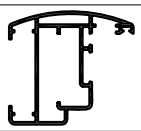
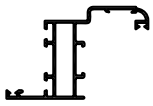
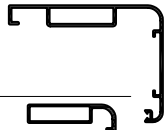
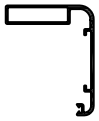
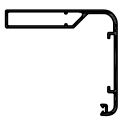
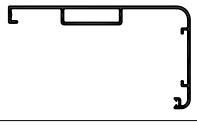
Profilato *Section*	**Sezione** *Cross section*	**Peso** *Weight* Kg/m	**Perimetro** *Perimeter* mm	**Superfice in vista** *Exposed surface* m^2/m	**Jx** cm^4	**Wx** cm^3	**Jy** cm^4	**Wy** cm^3
800696		1,598	474	0,185	28,31	8,44	31,61	6,60
800709		0,275	157	0,025	0,26	0,34	1,29	0,70
800710		0,316	168	0,037	0,51	0,50	0,76	0,60
800711		0,499	203	0,083	0,64	0,51	4,65	2,07
800712		0,437	231	0,048	0,74	0,40	6,44	1,62
800740 REVAMPING		1,350	445	0,176	25,71	5,38	20,59	7,06
800743		0,356	189	0,054	0,62	0,35	2,37	0,87
800747		1,,266	377	0,141	20,81	5,94	13,24	3,56
800750 REVAMPING		1,296	432	0,168	21,43	6,31	16,07	4,04
800752		0,988	417	0,120	13,53	5,02	14,59	3,39
800759		1,370	469	0,188	28,98	5,02	58,37	9,05
800760		1,043	354	0,146	25,57	5,03	15,47	3,81
800761		1,193	389	0,165	27,99	5,17	32,19	9,02
800762		1,542	540	0,222	30,95	5,17	117,79	13,97

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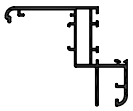
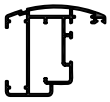
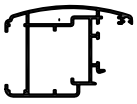
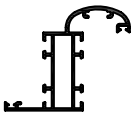
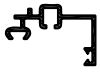
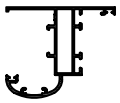
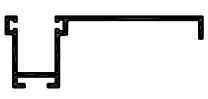
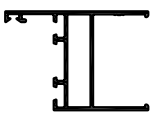
Profilato *Section*	**Sezione** *Cross section*	**Peso** *Weight* Kg/m	**Perimetro** *Perimeter* mm	**Superfice in vista** *Exposed surface* m^2/m	**Jx** cm^4	**Wx** cm^3	**Jy** cm^4	**Wy** cm^3
800767		1,508	549	0,118	35,14	11,84	32,91	5,62
800769		1,274	379	0,142	20,86	6,30	13,33	3,11
800773 REVAMPING		1,515	421	0,185	25,59	7,47	28,24	6,21
800774		1,094	445	0,116	18,06	5,95	10,70	2,88
800780		0,432	216	0,027	0,70	0,41	2,64	1,20
800783		0,383	181	0,041	0,57	0,44	1,79	0,90
800785		0,863	349	0,090	4,12	1,33	10,57	2,95
800811		1,277	322	0,188	36,89	8,02	12,13	6,07
800813		1,155	474	0,143	20,69	6,66	12,81	3,28
800822		0,228	128	0,062	0,22	0,17	1,39	0,70
800823		0,216	100	0,000	0,01	0,03	0,94	0,51
800839		0,498	188	0,080	0,96	1,12	2,88	1,33
800867		0,782	343	0,070	3,45	1,65	20,91	3,83
800883		0,859	344	0,107	10,10	3,97	7,09	2,11

I profilati sono forniti in barre di lunghezza da 6500 mm

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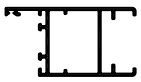
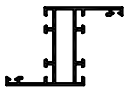
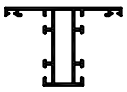
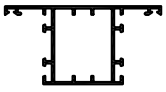
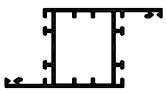
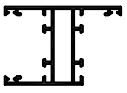
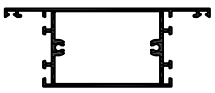
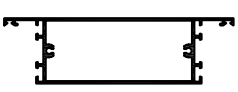
Profilato *Section*	**Sezione** *Cross section*	**Peso** *Weight* Kg/m	**Perimetro** *Perimeter* mm	**Superfice in vista** *Exposed surface* m^2/m	**Jx** cm^4	**Wx** cm^3	**Jy** cm^4	**Wy** cm^3
800939		1,154	412	0,164	14,39	5,82	21,82	4,79
900106		0,262	152	0,062	0,09	0,09	1,99	0,95
900162		0,370	202	0,070	0,16	0,17	4,11	1,46
900205		0,275	147	0,012	0,60	0,53	0,58	0,47
900221		0,167	57	0,015	0,03	0,06	0,20	0,22
900224		0,886	365	0,100	9,77	4,34	6,88	2,05
900225		0,886	365	0,100	8,73	3,10	6,88	2,05
900226		0,767	302	0,073	7,52	2,92	3,69	1,24
900227		1,180	411	0,146	13,38	5,00	20,84	4,63
900228		1,177	411	0,146	14,16	6,29	20,82	4,63
900229		1,004	429	0,127	11,48	4,60	9,35	2,57
900230		1,617	467	0,202	59,48	10,08	18,14	7,09
900232		2,063	543	0,282	157,88	19,99	25,63	10,29
900233		0,502	228	0,043	0,45	0,45	4,10	1,69

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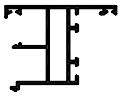
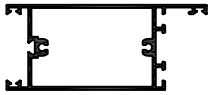
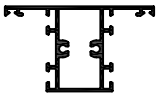
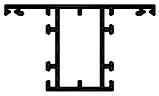
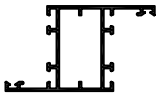
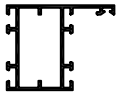
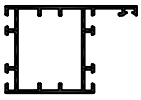
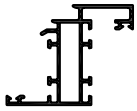
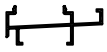
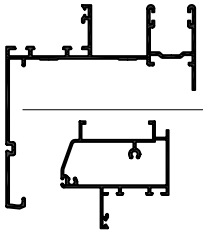
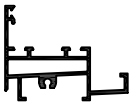
Profilato *Section*	**Sezione** *Cross section*	**Peso** *Weight* Kg/m	**Perimetro** *Perimeter* mm	**Superfice in vista** *Exposed surface* m^2/m	**Jx** cm^4	**Wx** cm^3	**Jy** cm^4	**Wy** cm^3
900240		2,336	256	0,000	26,67	6,36	26,67	6,36
900250		0,956	398	0,110	10,23	3,44	8,03	2,29
900261		2,017	518	0,275	150,54	19,26	25,57	10,77
900262		1,596	433	0,275	56,51	9,71	18,27	7,59
900263		1,191	388	0,124	13,35	3,38	11,09	4,16
900264		1,026	389	0,124	10,97	4,01	12,79	3,24
900265		1,026	389	0,124	11,87	5,28	12,77	3,23
900266		0,907	325	0,097	9,67	3,83	8,02	2,26
900269		1,061	347	0,119	11,99	4,83	14,38	3,51
900272		1,048	432	0,106	14,11	5,23	9,36	2,61
900273		0,578	290	0,044	0,76	0,56	10,06	2,97
900274		1,453	706	0,222	40,20	5,61	73,47	12,95
900275		1,261	394	0,101	14,33	3,57	24,76	6,65
900276		1,018	390	0,080	4,87	1,50	14,80	3,69

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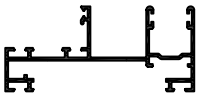
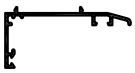
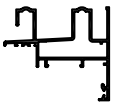
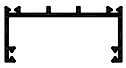
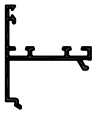
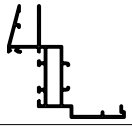
Profilato *Section*	**Sezione** *Cross section*	**Peso** *Weight* Kg/m	**Perimetro** *Perimeter* mm	**Superfice in vista** *Exposed surface* m^2/m	**Jx** cm^4	**Wx** cm^3	**Jy** cm^4	**Wy** cm^3
900278		1,345	638	0,163	59,65	10,94	6,49	2,52
900283		0,427	217	0,040	1,15	0,54	3,80	1,34
900284		0,235	148	0,061	0,53	0,28	1,82	0,63
900288		0,472	250	0,055	1,25	0,56	8,41	2,05
900294		1,199	458	0,180	10,07	2,66	21,01	4,98
900297		0,996	533	0,185	0,39	0,52	131,07	13,43
900302		0,578	300	0,068	1,68	0,89	12,36	4,02
900303		0,462	240	0,058	1,00	0,49	6,05	2,50
900304		0,607	293	0,062	3,16	1,13	5,60	1,87
900305		2,549	528	0,283	215,51	28,56	42,48	14,62
900306		2,676	558	0,298	241,81	30,61	42,72	13,87
900307		2,060	547	0,282	157,73	19,97	26,07	11,59
900308		0,421	203	0,083	1,03	0,47	4,18	1,54
900311		1,223	521	0,118	20,32	3,84	28,37	5,84

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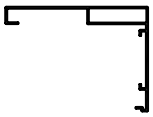
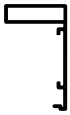
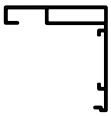
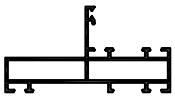
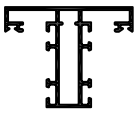
Profilato *Section*	**Sezione** *Cross section*	**Peso** *Weight* Kg/m	**Perimetro** *Perimeter* mm	**Superfice in vista** *Exposed surface* m^2/m	**Jx** cm^4	**Wx** cm^3	**Jy** cm^4	**Wy** cm^3
900312		1,077	447	0,190	22,33	3,87	50,45	6,99
900313		0,764	289	0,130	17,63	3,46	6,51	2,01
900314		0,956	387	0,160	20,59	3,72	22,86	4,41
900316		0,213	133	0,068	0,04	0,05	2,38	0,93
900317		0,850	312	0,055	5,58	1,49	9,93	2,99
900318		0,786	285	0,052	4,39	1,14	7,25	2,44
900319		0,413	138	-	3,60	1,34	0,06	0,08
900322		1,226	399	0,116	4,59	1,46	31,92	6,94
900346		1,944	481	0,255	135,01	18,06	24,02	10,10
900362		0,440	187	-	0,18	0,34	4,20	1,59
900363		0,670	275	0,073	1,27	0,78	6,33	2,69
900364		0,869	387	0,079	5,28	1,68	11,49	4,08
900390		0,286	104	0,030	0,15	0,20	0,58	0,44
900391		1,242	464	0,117	14,63	4,34	12,44	3,68

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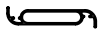
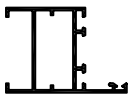
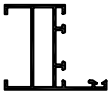
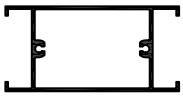
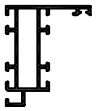
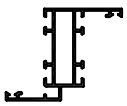
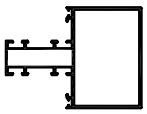
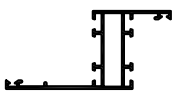
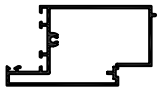
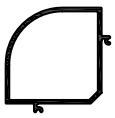
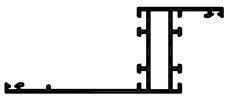
Profilato *Section*	**Sezione** *Cross section*	**Peso** *Weight* Kg/m	**Perimetro** *Perimeter* mm	**Superfice in vista** *Exposed surface* m^2/m	**Jx** cm^4	**Wx** cm^3	**Jy** cm^4	**Wy** cm^3
900392		0,413	180	0,124	0,22	0,32	5,26	1,75
900395		0,813	265	0,094	9,03	4,01	4,87	2,00
900396		0,931	328	0,121	10,73	4,26	8,63	2,41
900399		0,786	309	0,101	8,74	3,41	4,70	1,52
900409		1,361	354	0,204	41,93	9,11	16,41	7,29
900410		0,367	208	0,042	1,62	0,94	1,95	0,74
900424		0,219	93	0,037	0,12	0,14	0,57	0,48
900438		0,834	338	0,081	3,92	1,29	9,88	3,17
900439		0,956	400	0,108	13,28	4,84	6,99	2,06
900476		1,701	452	0,190	49,65	9,94	28,79	8,60
900479		1,023	424	0,128	11,85	4,66	18,84	3,46
900481		1,604	373	0,161	52,82	10,36	23,12	8,03
900525		1,037	217	0,096	14,04	5,10	14,04	5,10
900526		1,112	463	0,148	12,89	4,79	34,30	4,99

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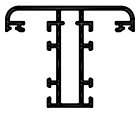
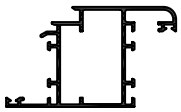
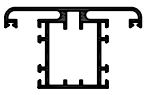
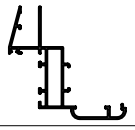
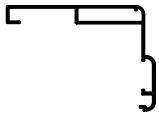
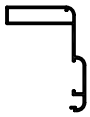
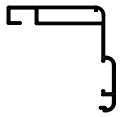
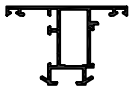
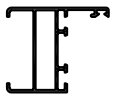
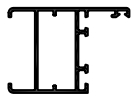
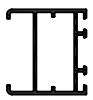
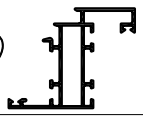
900589		1,220	453	0,112	14,34	4,30	11,54	3,42
900590		1,376	476	0,136	25,75	5,46	20,22	7,52
900595		1,627	591	0,162	28,96	6,44	21,45	6,39
900599		1,255	531	0,112	22,31	4,31	28,85	5,86
900600		1,102	441	0,186	23,98	4,26	51,36	7,21
900601		0,820	302	0,136	19,42	3,87	10,88	2,83
900602		0,980	381	0,156	21,97	4,08	24,66	4,88
900609		0,884	340	0,074	6,93	2,66	6,65	2,00
900618		0,779	307	0,096	8,60	3,36	4,49	1,46
900619		0,925	327	0,120	10,59	4,22	8,32	2,33
900620		0,809	263	0,084	8,93	3,97	4,75	1,94
900621		1,234	321	0,190	36,20	7,87	12,04	6,02
900627		0,431	165	0,044	1,97	1,00	1,84	0,76
900657 REVAMPING		1,005	422	0,110	8,82	2,48	13,49	5,05

I profilati sono forniti in barre di lunghezza da 6500 mm

The sections are supplied with length of 6500 mm

Rev. : 2013
Gennaio
January

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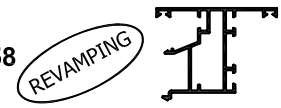
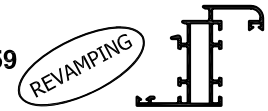
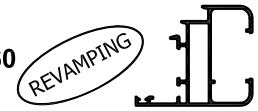
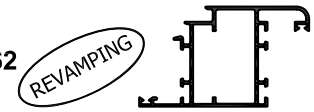
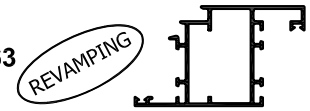
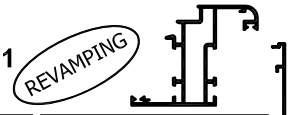
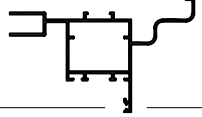
Profilato *Section*	**Sezione** *Cross section*	**Peso** *Weight* Kg/m	**Perimetro** *Perimeter* mm	**Superfice in vista** *Exposed surface* m^2/m	**Jx** cm^4	**Wx** cm^3	**Jy** cm^4	**Wy** cm^3
900658		0,969	387	0,074	7,83	2,20	10,28	3,52
900659		0,995	417	0,105	8,44	2,40	13,22	4,90
900660		1,016	400	0,135	9,07	2,51	14,05	4,59
900662		1,350	463	0,136	24,93	5,31	19,95	7,51
900663		1,360	468	0,147	25,66	5,42	20,22	7,56
900671		0,316	156	0,013	0,22	0,29	2,85	1,27
900672		1,114	419	0,116	14,85	3,56	16,97	5,89
900698		0,640	241	0,108	2,67	0,98	6,21	2,35
900711		0,972	388	0,105	8,72	2,46	13,26	4,88
1313141		1,959	770	0,223	106,21	14,33	66,30	8,42
1F14077		0,494	197	0,087	2,76	0,97	1,67	1,13

I profilati sono forniti in barre di lunghezza da 6500 mm

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Rev. : 2013
Gennaio
January

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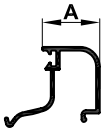
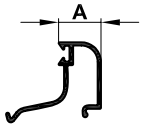
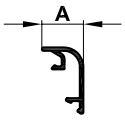
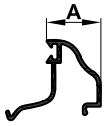
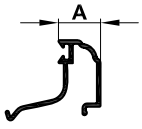
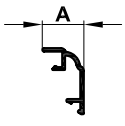
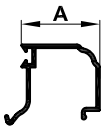
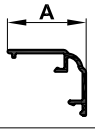
Profilato *Section*	**Sezione** *Cross section*	**A** mm	**Peso** *Weight* Kg/m	**Perimetro** *Perimeter* mm	**Superfice in vista** *Exposed surface* m^2/m	**Jx** cm^4	**Wx** cm^3	**Jy** cm^4	**Wy** cm^3
600027		22,5	0,183	115	0,041	—	—	—	—
800200		—	0,340	125	0,030	—	—	—	—
800303		19	0,271	173	0,041	—	—	—	—
800307		14	0,256	169	0,040	—	—	—	—
800313		14	0,145	93	0,040	—	—	—	—
800339		19	0,173	116	0,044	—	—	—	—
800642		17,5	0,194	113	0,052	—	—	—	—
800651		18	0,251	161	0,033	—	—	—	—
800661		14	0,259	167	0,032	—	—	—	—
800662		14	0,140	90	0,031	—	—	—	—
800677		26	0,273	173	0,044	—	—	—	—
800678		26	0,184	117	0,044	—	—	—	—

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Ottobre
October

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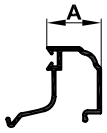
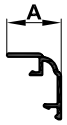
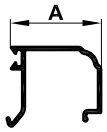
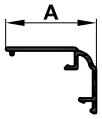
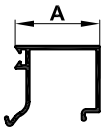
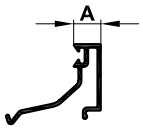
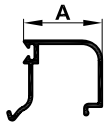
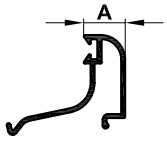
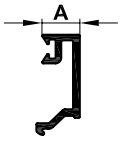
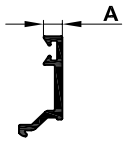
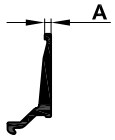
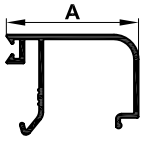
Profilato *Section*	**Sezione** *Cross section*	**A** mm	**Peso** *Weight* Kg/m	**Perimetro** *Perimeter* mm	**Superfice in vista** *Exposed surface* m^2/m	**Jx** cm^4	**Wx** cm^3	**Jy** cm^4	**Wy** cm^3
800679		18	0,269	169	0,036	—	—	—	—
800680		18	0,154	99	0,036	—	—	—	—
800681		30	0,281	178	0,048	—	—	—	—
800682		30	0,197	125	0,048	—	—	—	—
800741		28	0,289	183	0,050	—	—	—	—
800755		9	0,262	167	0,032	—	—	—	—
800812		26	0,275	174	0,040	—	—	—	—
800829		11	0,253	167	0,030	—	—	—	—
800851		10	0,231	109	0,035	—	—	—	—
800873		5	0,186	87	0,029	—	—	—	—
800874		2	0,183	71	0,026	—	—	—	—
800902		35	0,322	203	0,056	—	—	—	—

Rev. : 2010
Marzo
March

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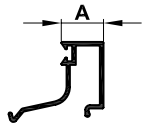
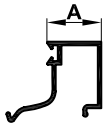
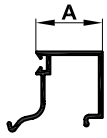
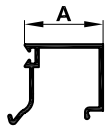
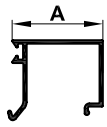
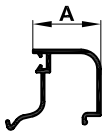
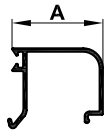
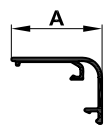
Profilato *Section*	**Sezione** *Cross section*	**A** mm	**Peso** *Weight* Kg/m	**Perimetro** *Perimeter* mm	**Superfice in vista** *Exposed surface* m^2/m	**Jx** cm^4	**Wx** cm^3	**Jy** cm^4	**Wy** cm^3
900256		14	0,270	173	0,036	—	—	—	—
900257		18	0,275	175	0,040	—	—	—	—
900258		22	0,278	177	0,044	—	—	—	—
900259		26	0,283	179	0,048	—	—	—	—
900260		30	0,286	185	0,052	—	—	—	—
900375		—	0,111	71	0,020	—	—	—	—
900376		—	0,181	11	0,020	—	—	—	—
900530		17	0,276	126	0,039	—	—	—	—
900607		22,5	0,273	174	0,038	—	—	—	—
900614		30	0,278	180	0,050	—	—	—	—
900617		30	0,219	129	0,052	—	—	—	—

Rev. : 2010 Marzo *March*

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ACCESSORI BREVETTATI
PATENTED ACCESSORIES

Gli accessori originali Sapa, specifici del sistema, sono gli unici che garantiscono nel tempo la qualità del prodotto finale

The original Sapa accessories, specifically designed for the system, are the only ones that guarantee quality of end products through time

AVVERTENZA
NOTE

Per gli articoli indicati con (XXX) è possibile scegliere tra diversi produttori, tali articoli sono comunque forniti da Sapa. Le combinazioni possibili sono le seguenti:

(ABP) - Prodotte da ALUTEC, BMP e PRODUCTA.
(AB) - Prodotte da ALUTEC e BMP.
(AP) - Prodotte da ALUTEC e PRODUCTA.
(BP) - Prodotte da BMP e PRODUCTA.

Per ordinare tali prodotti, è necessario inserire al termine del codice i seguenti numeri:

01 - Per BMP

02 - Per ALUTEC

03 - Per PRODUCTA

Esempio: Art. G.0135.EN (ABP) La scelta può essere fatta tra BMP (ordinando il codice G.0135.EN.01), ALUTEC (codice G.0135.EN.02) e PRODUCTA (codice G.0135.EN.03).

Es.2: Art. G.0135.EN (AB) La scelta può essere fatta tra BMP (ordinando il codice G.0135.EN.01) ed ALUTEC (codice G.0135.EN.02).

For the articles indicating (XXX) there is the possibility to choose between different manufacturers although the goods will be supplied by Sapa. Here following the different combinations:

(ABP) - Produced by ALUTEC, BMP and PRODUCTA.
(AB) - Produced by ALUTEC and BMP.
(AP) - Produced by ALUTEC and PRODUCTA.
(BP) - Produced by BMP and PRODUCTA.

To order the articles you will need to indicate following numbers at the end of the code:

01 - For manufacturer BMP

02 - For manufacturer ALUTEC

03 - For manufacturer PRODUCTA

Example: Article G.0135.EN (ABP) the choice may be between BMP (ordering art. G.0135.EN.01), ALUTEC (ordering art. G.0135.EN.02) and PRODUCTA (ordering art. G.0135.EN.03).
Example n°2: Article G.0135.EN (AB) the choice may be between BMP (ordering art. G.0135.EN.01) and Alutec (ordering art. G.0135.EN.02)

Il codice di alcuni accessori comprende due lettere tra parentesi (xx) ciò significa che all'atto dell'ordine occorre specificare la finitura spostituendo le xx con i numeri riportati nella seguente tabella.

01=grezzo
02=ossidato argento
03=ossidato bronzo
04=elettrocolore testa di moro
} a richiesta
05=ossidato nero
08=ossidato oro lucido
24=PVD oro
28=PVD inox satinato
60=verniciato bianco RAL 9010
61=verniciato avorio RAL 1013
62=verniciato crema RAL 9001
65=verniciato verde RAL 6005
67=verniciato marrone RAL 8017
69=verniciato nero RAL 9005
71=verniciato argento RAL 9006
72=verniciato testa di moro RAL 8019
75=verniciato bronzo
79=verniciato nero opaco RAL 9005
91=verniciato avorio opaco RAL 1013

Esempio:
A.4003.ZX.(xx) (Cremonese reversibile per aperture interne) se ordinata **A.4003.ZX.60** verrà fornita verniciata bianco RAL 9010, se invece viene ordinata **A.4003.ZX.69**, verrà fornita Verniciata nero RAL 9005.

In some of the accessory codes you will find 2 letters in brackets (xx), this means that when you will order these articles you will have to specify the finishing replacing the xx with the numbers listed here below:

01=raw
02=anodized silver
03=anodized bronze
04=eletcrocolor dark brown
} *upon request*
05=anodized black
08=anodized
24=PVD gold
28=PVD glazed steel
60=white painted RAL 9010
61=ivory painted RAL 1013
62=cream painted RAL 9001
65=green painted RAL 6005
67=brown painted RAL 8017
69=black painted RAL 9005
71=silver painted RAL 9006
72=dark brown painted RAL 8019
75=bronze painted
79=mat black painted RAL 9005
91=mat ivory painted RAL 1013

For example:
A.4003.ZX.(xx) *(reversible cremone bolt for internal opening) if you order* ***A.4003.ZX.60*** *you will receive it white painted RAL 9010, if instead you order* ***A.4003.ZX.69*** *you will receive it black painted RAL 9005*

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ACCESSORI UNIVERSALI
UNIVERSAL ACCESSORIES

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
299.703.XX (Alutec)		Cerniera pesante per porta - 3 ali interasse 70 mm *3 wings heavy hinge for door distance between centers mm 70* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0
299.702.XX (Alutec)		Cerniera pesante per porta - 2 ali interasse 70 mm *2 wings heavy hinge for door distance between centers mm 70* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0
299.007.XX (Alutec)		Spessore da 7 mm per cerniere pesanti *7 mm shims for heavy hinges* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0
299.962.XX (Alutec)		Cerniera pesante per porta - 2 ali interasse 96 mm *2 wings heavy hinge for door distance between centers mm 96* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0
299.963.XX (Alutec)		Cerniera pesante per porta - 3 ali interasse 96 mm *3 wings heavy hinge for door distance between centers mm 96* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0
299.008.XX (Alutec)		Spessore da 8 mm per cerniere pesanti. *8 mm shims for heavy hinges.* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0
299.602.XX (Alutec)		Cerniera pesante per porta - 2 ali interasse 60 mm. *Heavy hinge for door door - 2 wings distance between centers 60 mm* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0

ACCESSORI UNIVERSALI
UNIVERSAL ACCESSORIES

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
299.603.XX (Alutec)		Cerniera pesante per porta - 3 ali interasse 60 mm. *Heavy hinge for door door - 3 wings distance between centers mm 60* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0
299.862.XX (Alutec)		Cerniera pesante per porta - 2 ali interasse 86 mm. *Heavy hinge for door door - 2 wings distance between centers mm 86* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0
299.863.XX (Alutec)		Cerniera pesante per porta - 3 ali interasse 86 mm. Asse di rotazione a 20 mm. *Heavy hinge for door door - 3 wings distance between centers mm 86* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0
280.050.XX (Alutec)		Cardine inferiore per pompa a pavimento con boccola a foro rettangolare da 22x10 mm asse centro di rotazione 36 mm *Lower pintle for floor pump with rectangular bush of mm 22x10 Centerline rotation center mm 36* R40 / R50
280.051.XX (Alutec)		Cardine inferiore per pompa a pavimento con boccola a foro quadra da Ø 13.5x13.5 mm asse centro di rotazione 36 mm *Lower pintle for floor pump with square bush of 13.5x13.5 mm Ø Centerline rotation center mm 36* R40 / R50
280.068.01 (Alutec)		Albero con losanga per profili da 55 a 64 mm □ 8mm *Lozenge rod for profiles from mm 55 to 64 □ 8mm* R40 / R50

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CERNIERE E CARDINI
HINGES AND PIVOTS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
401.024.XX (Alutec)		Cerniera STOPPER portata max 100 Kg *Hinge STOPPER capacity max kg 100* R40 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
401.124.XX (Alutec)		Cerniera STOPPER 3a anta portata max 100 Kg *Hinge STOPPER 3rd leaf capacity max kg 100* R40 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
501.013.55 (Alutec)		Rondella spessoramento cerniere sfilabili. *Spacing washer for slip off hinges.* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
401.002.XX (Alutec)		Cerniera sfilabile con contropiastra in acciaio inox. *Slip-off hinge with stainless steel counterplate.* R40 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
501.240.XX (Alutec)		Cerniera sfilabile 3a anta con contropiastra in acciaio inox. *Slip-off hinge 3rd leaf with stainless steel counterplate.* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
501.310.XX (Alutec)		Cerniera a pettine *Special hinge* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
501.330.XX (Alutec)		Cerniera sfilabile da 50 mm. *Slip-off hinge mm 50* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0

CERNIERE E CARDINI
HINGES AND PIVOTS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
501.340.XX (Alutec)		Cerniera sfilabile per 3a anta da 50 mm. *Slip-off 3rd leaf hinge mm 50* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
501.342.XX (Alutec)		Cerniera sfilabile maggiorata con contropiastra in acciaio inox. *Slip-off oversized hinge with stainless steel counterplate.* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
501.349.XX (Alutec)		Cerniera sfilabile su profili complanari I.E. monoblocco a cinghia da 40 mm *Slip-off hinge on coplanar profile I.E. beltshutter winding system mm 40* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
501.370.XX (Alutec)		Cerniera a pettine a 5 ali R50 *Special 5 wings hing* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0

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SQUADRETTE D'ANGOLO
CORNER JOINTS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
A.2919.NN		Squadretta d'allineamento in nylon su aletta. *Nylon alignment corner joint on fin.* R40 | R50 | R50TT | R62TT | R72TT R72TTCE | R72TT1.3 | R85TT1.0
A.2920.NN		Squadretta d'allineamento in nylon per profili complanari ed arrotondati. *Nylon alignment corner joint for coplanar and rounded profiles.* R40 | R50 | R50TT | R62TT | R72TT R72TTCE | R72TT1.3 | R85TT1.0
702.005.00 (Alutec)		Squadretta d'allineamento in acciaio inox su aletta per profili 800623-631-752 *Nylon alignment corner joint on fin for coplanar and rounded profiles 800623-631-752* R40 | |
2006 (Monticelli)		Squadretta d'allineamento profilati complanari "FUJI" *Alignment corner joint profiles complanarities "FUJI"* R40 | R50 | R50TT | R62TT | R72TT R72TTCE | R72TT1.3 | R85TT1.0
2013 (Monticelli)		Squadretta d'allineamento aletta interna "FUJI" *Alignment corner joint for rabbet internal "FUJI"* R40 | R50 | R50TT | R62TT | R72TT | R72TT1.3 | R85TT1.0
2020 (Monticelli)		Squadretta d'allineamento aletta esterna "FUJI" *Alignment corner joint for rabbet external "FUJI"* R40 | R50 | R50TT | R62TT | R72TT R72TTCE | R72TT1.3 | R85TT1.0
10001.00 10040.01		Squadretta d'allineamento aletta esterna per Profilato 900711 *Alignment corner joint for rabbet external Profile 900711* R40 | |
A.3102.AA		Squadretta d'allineamento profilati mostra *Alignment corner joint profiles cornice* R40 | R50 | R50TT | R62TT | R72TT R72TTCE | R72TT1.3 | R85TT1.0

SQUADRETTE D'ANGOLO
CORNER JOINTS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
A.4411.AA		Squadretta in alluminio estruso per tubolarità 10,4x42 *Extruded aluminium corner joint piping 10,4x42* R40 | | R50TT | R62TT | R72TT R72TTCE | R72TT1.3 | R85TT1.0
A.4412.AA		Squadretta in alluminio estruso per profili maggiorati 900227-228-269 *Extruded aluminium corner joint for oversized profililes 900227-228-269* R40 | | | |
A.5441.AA		Squadretta in alluminio estruso con inserto unificato tubolarità 15x29,2 *Extruded aluminium corner joint with unified ins. piping 15x29.2* R40 | | R50TT | R62TT | R72TT | R72TT1.3 | R85TT1.0

GIUNTI
JOINTS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
505.267.01 (Alutec)		Giunto in alluminio estruso. *Extruded aluminium joint.* R40 | | R50TT | R62TT | R72TT | R72TT1.3 | R85TT1.0

ACCESSORI COMPLEMENTARI
COMPLEMENTARY ACCESSORIES

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
R950.001		Aggancio fermavetri arrotondati. *Rounded glass beading coupling.* R40 | R50 | R50TT | R62TT | R72TT | R72TT1.3 | R85TT1.0
502.002.XX (Alutec)		Angolo stampato per fermavetro arrotondato. *Moulded corner for snap-on rounded glass beading.* R40 | R50 | R50TT | R62TT | R72TT | R72TT1.3 | R85TT1.0

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MANIGLIE, CREMONESI, ETC.
HANDLES, CREMONE BOLTS, ETC.

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
A.4003.ZX.(xx)		Cremonese reversibile per aperture interne interasse 84-100 *Reversible cremone bolt for internal opening distance between centers 84-100* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
A.4004.ZX.(xx)		Cremonese reversibile per anta ribalta interasse 84-100 *Reversible cremone bolt for tilt and turn distance between centers 84-100* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
A.4005.ZX.(xx)		Cremonese reversibile con chiave per apertura interna interasse 84-100 *Reversible cremone bolt with key for internal opening distance between centers 84-100* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
A.4006.ZX.(xx)		Cremonese reversibile per apertura esterna interasse 104-108 *Reversible cremone bolt for external opening distance between centers 104-108* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
A.4008.ZX.(xx)		Cremonese reversibile aperture interne senza manico interasse 84-100. *Reversible cremone bolt without handle for internal opening distance between centers 84-100* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
A.4009.ZX.(xx)		Cremonese reversibile per anta ribalta interasse 84-100 senza manico *Reversible cremone bolt for tilt and turn without handle distance between centers 84-100* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
A.4010.ZN		Manico estraibile per cremonese *Detachable handle cremone bolt* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0

MANIGLIE, CREMONESI, ETC.
HANDLES, CREMONE BOLTS, ETC.

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
A.4011.ZX.(xx)		Cremonese reversibile con chiave per anta ribalta interasse 84-100 *Reversible cremone bolt with key for tilt and turn distance between centers 84-100* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
503.463.XX (Alutec)		Maniglia a tavellino VELA reversibile, per apertura esterna con battuta 8 mm, manico smontabile e meccanismo a scatto a 90° *VELA flat catch, reversible, for external opening with mm 8 rabbet and removable handle and snap mechanism at 90°* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0
503.464.XX (Alutec)		Maniglia a tavellino VELA reversibile, per apertura esterna con battuta 8 mm, manico smontabile e meccanismo a scatto a 90°. Manico in zama *VELA flat catch, reversible, for external opening with mm 8 rabbet and removable handle and snap mechanism at 90°. Zamak handle* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0
503.963.XX (Alutec)		Maniglia a tavellino linea "600" per sporgere e bilico. *"600" flatcatch handle for projecting and pivoting windows.* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
280.002.XX (Alutec)		Cricchetto universale UNIV. carter, gancio e riscontro in alluminio, particolari di scorrimento in nylon caricato *Universal spring latch aluminium carter, hook and striker, nylon sliding parts* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0
503.641.XX (Alutec)		Chiusura a cricchetto regolabile per vasistas *Adjustable spring catch for hopper windows* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
503.642.XX (Alutec)		Chiusura a cricchetto per vasistas. *Spring latch locking for hopper windows.* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0

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CHIUSURE
LOCKINGS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
403.801.55 (Alutec)		Manovra per puntali 404.145.05 - 404.141.55 in abbinamento all'asta 900221 *Deadlatch for terminals 404.145.05 - 404.141.55 to pair with rod 900221* R40 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
403.806.05 (Alutec)		Manovra a leva con blocchetto di collegamento per puntali 404.145.05 *Lever deadlatch with junction block for terminals 404.145.05* R40 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
403.852.05 (Alutec)		Asta di prolunga *Extension rod f* L = 1000 mm R40 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
503.094.55 (Alutec)		Chiusura a scatto per anta semifissa. *Snap release locking for semi-fixed leaf.* R40 / R50TT / R50 / R62TT / R72TT / R72TT1.3 / R85TT1.0

CHIUSURE
LOCKINGS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
503.160.69 (Alutec)		Serratura con cilindro in zama con perno in acciaio inox. *Looking with zamak cylinder with stainless steel pivot.* R40 / R50TT / R50 / R62TT / R72TT / R72TT1.3 / R85TT1.0

INCONTRI SERRATURA
LOCK JUNCTION

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
417.250.55 (Alutec)		Incontro serratura. *Lock junction.* R40 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0

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INNESTI - PUNTALI - RISCONTRI
COUPLINGS - TERMINALS - STRIKERS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
404.100.02 (Alutec)		Nottolino di chiusura supplementare su astina *Rivetting additional locking point on the rod* R40 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
404.101.02 (Alutec)		Incontro di chiusura supplementare su telaio *Additional locking point on the sash* R40 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
404.110.55 (Alutec)		Coppia innesti cremonese apertura interna su profilo 900221, in nylon *Nylon pair of couplings internal opening for profile 900221* R40 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
404.141.55 (Alutec)		Coppia puntali in nylon su profilo 900221 *Pair of terminals on profile 900221* R40 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
404.121.05 (Alutec)		Kit chiusura supplementare per apertura interna ed esterna. *Additional lock kit for internal and external opening.* R40 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
404.145.05 (Alutec)		Coppia puntali in zama, su profilo 900221 *Pair of zamak terminals on profile 900221* R40 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
504.081.55 (Alutec)		Riscontro in nylon con rullino per puntali *Nylon striker with roller for terminals* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0

INNESTI - PUNTALI - RISCONTRI
COUPLINGS - TERMINALS - STRIKERS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
504.091.05 (Alutec)		Riscontro regolabile per puntali: *Adjustable striker for terminals:* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
504.103.01 (Alutec)		Riscontro per terza chiusura su innesti cremonese: 404.110.55 *Striker for 3rd locking on couplings: 404.110.55* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
504.120.01 (Alutec)		Riscontro con rullino in acciaio inox per chiusure supplementari, apertura interna e anta ribalta. *Striker with strainless steel roller for additional lockings internal opening and tilt and turn* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
504.206.05 (Alutec)		Incontro di chiusura supplementare lato cerniere. *U-Bolt for additional locking hinge side* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
404.130.01 (Alutec)		Innesti guida apertura esterna. *Coupling for external opening.* R40
404.131.01 (Alutec)		Innesti guida apertura esterna per profili maggiorati. *Coupling for external opening for oversized profiles.* R40
404.132.01 (Alutec)		Innesti guida apertura esterna su profili tipo 900264. *Couplings for external opening on profiles 900264 tipe.* R40
404.133.01 (Alutec)		Innesti guida apertura esterna su profili tipo 900672. *Couplings for external opening on profiles 900672 tipe.* R40

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COMPASSI
ARMS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
A.1812.VV		Braccio limitatore di apertura DX *Opening limitator arm DX* R40 / R50 / — R50TT / R62TT / R72TT — / R72TT1.3 / R85TT1.0
A.1813.VV		Braccio limitatore di apertura SX *Opening limitator arm SX* R40 / R50 / — R50TT / R62TT / R72TT — / R72TT1.3 / R85TT1.0
A.3905.IA		Coppia bracci ammortizzati sganciabili in acciaio inox per vasistas *Pair of detachable amortized stainless steel arms for hopper windows* $250 \leq H_{ANTA} \leq 500$ mm R40 / R50 / — R50TT / R62TT / R72TT — / R72TT1.3 / R85TT1.0
A.3906.IA		Coppia bracci ammortizzati sganciabili in acciaio inox per vasistas *Pair of detachable amortized stainless steel arms for hopper windows* $350 \leq H_{ANTA} \leq 1600$ mm R40 / R50 / — R50TT / R62TT / R72TT — / R72TT1.3 / R85TT1.0
A.3907.IA		Coppia bracci ammortizzati sganciabili in acciaio inox per vasistas *Pair of detachable amortized stainless steel arms for hopper windows* $1000 \leq H_{ANTA} \leq 2000$ mm R40 / R50 / — R50TT / R62TT / R72TT — / R72TT1.3 / R85TT1.0
506.300.05 (Alutec)		Gruppo articolazione per sporgere comprensivo di coppie di rinforzo in acciaio inox portata max. kg. 75 *Kit for projecting windows inclusive of stiffened stainless steel torques capacity max 75 kg.* R40 / R50 / — R50TT / R62TT / R72TT — / R72TT1.3 / R85TT1.0
406.300.05 (Alutec)		Coppia aste a sporgere portata max 50 kg. *Pair of projecting rods capacity max 50 kg.* L = mm 300 R40 / R50 / — R50TT / R62TT / R72TT — / R72TT1.3 / R85TT1.0

COMPASSI
ARMS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
406.499.05 (Alutec)		Gruppo articolazione per sporgere rinforzato completo di bracci, portata max kg. 90 *Kit for stiffened projecting windows with arms capacity max 90 kg.* L = mm 300 R40 / — / — R50TT / R62TT / R72TT — / R72TT1.3 / R85TT1.0
406.500.05 (Alutec)		Coppia aste a sporgere portata max 50 kg. *Pair of projecting rods capacity max 50 kg.* L = mm 500 R40 / R50 / — R50TT / R62TT / R72TT — / R72TT1.3 / R85TT1.0

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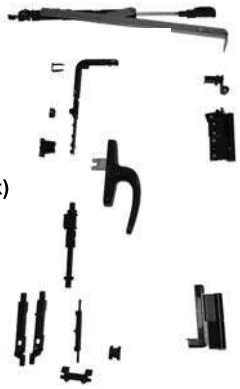
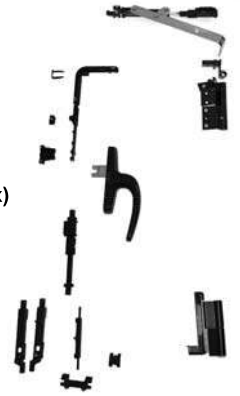
ANTA RIBALTA *TILT AND TURN* Rbalta 150

R40		
R50TT	R62TT	R72TT
	R72TT1.3	R85TT1.0

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
A.1800.VV		Kit base anta ribalta "Rbalta 150" composto da: • Rinvio d'angolo in zama con perno di chiusura integrale • Riscontro per chiusura su rinvio d'angolo • innesto cremonese personalizzato • Meccanismo anti falsa manovra • Puntale inferiore dx • Puntale inferiore sx • Perno di chiusura per puntale inferiore • Riscontro per chiusura su puntale • Riscontro orizzontale per puntale inferiore "Rbalta 150" *tilt and turn basic kit, consisting of :* • *with zama corner locking pin integral* • *lock striker to corner drive* • *custom couplings cremone* • *lock movement* • *lower terminals dx* • *lower terminals sx* • *lock pin for lower terminals* • *lock striker on terminals* • *orizontal striker on lower terminals*

ANTA RIBALTA *TILT AND TURN* Rbalta 150

R40		
R50TT	R62TT	R72TT
	R72TT1.3	R85TT1.0

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
A.1805.VX.(xx)		Kit completo anta ribalta "Rbalta 150" con braccio medio, composto da: • Kit base - A.1800.VV • Kit cerniere verniciate - A.1801.VX • Cremonese anta ribalta - A.4004.ZX • Braccio medio (L=550 / 1700) - A.1802.VV "Rbalta 150" *tilt and turn complete with standard arm:* • Kit base - A.1800.VV • Kit hinge painted - A.1801.VX • Tilt and turn cremone - A.4004.ZX • Standard arm (L=550/1700) A.1802.VV
A.1806.VX.(xx)		Kit completo anta ribalta "Rbalta 150" con braccio corto, composto da: • Kit base - A.1800.VV • Kit cerniere verniciate - A.1801.VX • Cremonese anta ribalta - A.4004.ZX • Braccio corto (L=350 / 549) - A.1803.VV "Rbalta 150" *tilt and turn complete with short arm:* • Kit base - A.1800.VV • Kit hinge painted - A.1801.VX • Tilt and turn cremone - A.4004.ZX • Short arm (L=350/549) A.1803.VV

Accessori supplementari *Additional accessories*

R40		
R50TT	R62TT	R72TT
	R72TT1.3	R85TT1.0

Articolo *Item*	Descrizione *Description*
A.1801.VX.(xx)	Kit cerniere verniciate portata 150 Kg *Hinges kit painted loaded 150 Kg*
A.1802.VV	Braccio medio (L=550 / 1700mm) *Standard arm (L=550 / 1700mm)*
A.1803.VV	Braccio corto (L=350 / 549mm) *Short arm (L=350 / 549mm)*
A.1804.VV	Braccio supplementare (L>1200mm) *Supplementary arm (L>1200mm)*
A.1807.VV	Kit chiusura supplementare su asta *Supplementary closure point*
A.1808.VV	Rinvio d'angolo supplementare inferiore e superiore *Supplementary corner drive upper and lower*

Accessori supplementari *Additional accessories*

R40		
R50TT	R62TT	R72TT
	R72TT1.3	R85TT1.0

Articolo *Item*	Descrizione *Description*
A.1809.VX.(xx)	Kit cerniere anta affiancata *Hinge kit to side leaf*
A.1810.VV	Kit paletti anta semifissa *Kit of latches for semi-fixed leaf*
A.1811.VV	Kit paletti anta semifissa a manovra e leva *Kit of latches lever bolt for semi-fixed leaf*
A.1812.VV	Braccio limitatore di apertura DX *Opening limitator arm DX*
A.1813.VV	Braccio limitatore di apertura SX *Opening limitator arm SX*
A.4004.ZX.(xx)	Cremonese anta ribalta *Tilt and turn cremone*

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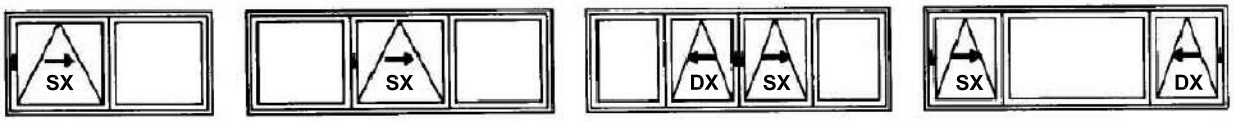
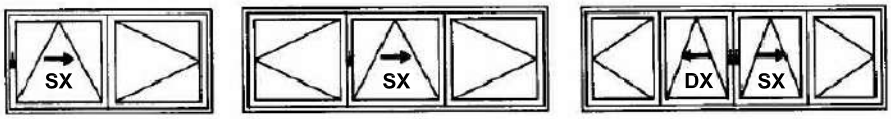
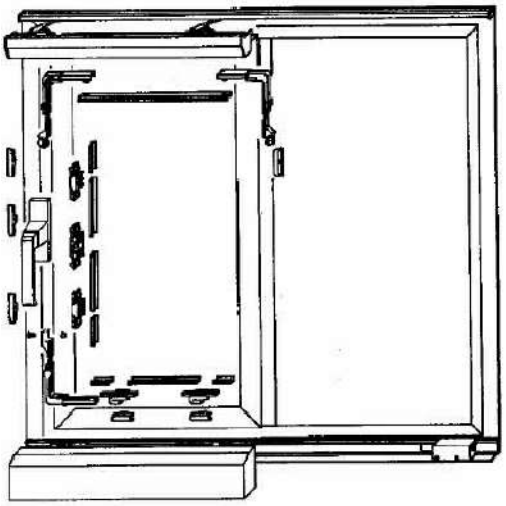
MECCANISMI RIBALTA SCORREVOLE — *SLIDING TILT MECHANISMS*

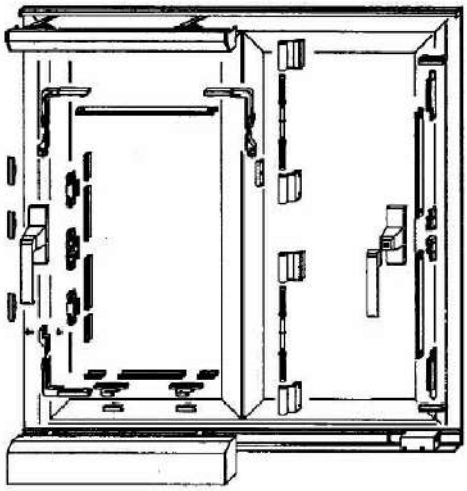
SCHEMA CON ANTE AFFIANCATE FISSE - *SCHEME WITH FIXED SIDE BY SIDE LEAFS*

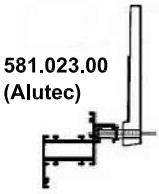


SCHEMA CON ANTE AFFIANCATE APRIBILI - *SCHEME WITH OPENABLE SIDE BY SIDE LEAFS*



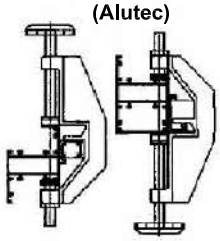






581.023.00
(Alutec)

581.025.00
(Alutec)

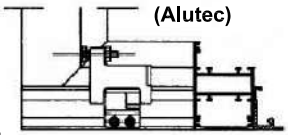


ESEMPIO D'ORDINE SU PROFILI Per anta ribalta scorrevole sinistra con anta fissa avente larghezza telaio 2.700 mm, larghezza anta scorrevole 1.250 mm con finitura bianco RAL 9010 e cremonese .
SI ordina cosi:
1 confezione base sinistra **419.001.00**
1 confezione di carter e guida **419.007.60**
1 kit di chiusura **419.030.05**
1 cremonese VELA **503.410.60**

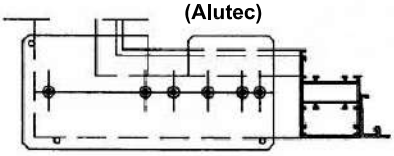
EXAMPLE OF ORDER ON PROFILES
For sliding left tilt and turn with fixed leaf having a frame width of mm 2.700, sliding leaf width of mm 1.250 with white 9010 finishing and cremone bolt.
You order as follows:
1** left standard kit **419.001.00
1** coverplate and guide **kit 419.007.60
1** locking mechanism kit **419.030.05
1** VELA cremone bolt **503.410.60

GLI ACCESSORI DELL'ANTA APRIBILE SONO QUELLI STANDARD
THE OPENABLE LEAF STANDARD ACCESSORIES

581.024.00
(Alutec)



581.026.00
(Alutec)



R40		
R50TT	R62TT	R72TT
	R72TT1.3	R85TT1.0

Articolo *Item*	**Descrizione** *Description*
419.001.00 (Alutec)	Confezione base sinistra *Left standard kit*
419.002.00 (Alutec)	Confezione base destra *Right standard kit*
419.005.XX (Alutec)	Carter e guide per anta L max 870 mm e telaio L max 2.000 mm *Coverplate and guide for leaf L max. mm 870 and frame L max mm 2.000*
419.006.XX (Alutec)	Carter e guide per anta L max 1.070 mm e telaio L max 2.400 mm *Coverplate and guide for leaf L max 1.070 and frame L max mm 2.400*
419.007.XX (Alutec)	Carter e guide per anta L max 1.300 mm e telaio L max 2.860 mm *Coverplate and guide for leaf L max 1.300 and frame L max mm 2.860*
419.008.XX (Alutec)	Carter e guide per anta L max 1.600 mm e telaio L max 3.460 mm *Coverplate and guide for leaf L max 1.600 and frame L max mm 3.460*

Articolo *Item*	**Descrizione** *Description*
419.030.05 (Alutec)	Kit meccanismo di chiusura *Locking mechanism kit*
503.410.XX (Alutec)	Cremonese VELA reversibile per anta ribalta - interasse 84-100-104 *Reversible VELA cremone bolt for tilt and turn - distance between centers 84-100-104*
503.411.XX (Alutec)	Cremonese VELA reversibile senza manico per anta ribalta - interasse 84-100-104 *Reversible VELA cremone bolt without arm for tilt and turn - distance between centers 84-100-104*
503.412.XX (Alutec)	Cremonese VELA reversibile con chiave per anta ribalta - interasse 84-100-104 *Reversible VELA cremone bolt with key for tilt and turn - distance between centers 84-100-104*
503.847.05 (Alutec)	Manico estraibile per cremonese pressofusa ed estrusa □ 8 mm *Detachable handle for die-casting and extruded cremone bolt mm 8 □*

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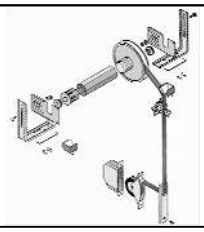
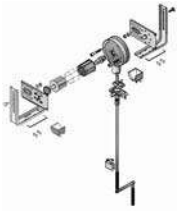
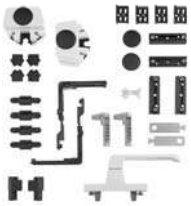
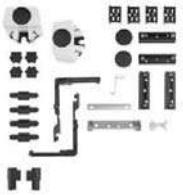
MONOBLOCCO
SHUTTER WINDING SYSTEM

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
402.200.55 (Alutec) **402.201.55 (Alutec)**		Angolare assiemaggio cassonetto in nylon su profilo 900297 *Nylon angle for shutter box assembling on profile 900297* - Nero - *Black* - Bianco - *White* R40 | R50 | R50TT | R62TT | R72TT R72TT1.3
410.485.55 (Alutec)		Distanziale per fissaggio stipite monoblocco in nylon su profilo 900274 *Nylon spacer for fixing door frame shutter winding system on profile 900274* R40 R50TT | R62TT | R72TT R72TT1.3
425.100.55 (Alutec)		Inviti tapparella su profilati 900274-900278 *Shutter guides on the profile 900274 - 900278* R40 R50TT | R62TT | R72TT R72TT1.3
510.020.00 (Alutec)		Molla tenuta cassonetto (900297) *Clip for shutter box fastening (Prof. 900297)* R40 R50TT | R62TT | R72TT R72TT1.3
425.010.00 (Alutec) **425.011.00 (Alutec)**		Kit manovra a cinghia con avvolgitore da 5,5 m *Kit for belt deadlatch coiler with 5,5 m* *Kit manovra a cinghia con avvolgitore da 10 m* *Kit for belt deadlatch coiler with 10 m* R40 R50TT | R62TT | R72TT R72TT1.3
425.012.00 (Alutec) **425.310.00 (Alutec)**		Kit manovra ad asta con arganello reversibile *Kit for reversible winch road deadlatch* Asta per arganello con snodo a 45° *Swinging winch rod at 45°* R40 R50TT | R62TT | R72TT R72TT1.3
425.110.55 (Alutec)		Coppia mensole in nylon di guida cinghia *Pair of nylon guide brackets* R50TT | R62TT | R72TT R72TT1.3
425.560.55 (Alutec)		Pannello isolante cassonetto in polistirolo espanso su profili 900297 *Nylon bi-hole upper rabbet on profile 900297* R50TT | R62TT | R72TT R72TT1.3

MONOBLOCCO
SHUTTER WINDING SYSTEM

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
425.130.55 (Alutec)		Battuta superiore bifora in nylon su profilo 900278 *Nylon bi-hole upper rabbet on profile 900278* R40 R50TT | R62TT

BILICO
PIVOTING WINDOW

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
408.213.XX (Alutec)		Confezione completa Kit bilico orizzontale a chiusure multiple con cremonese pressofusa *Complete kit* *Multi-point lockings horizontal pivoting window withdie-casting cremone bolt* R40 R50TT | R62TT
408.214.XX (Alutec)		Confezione completa Kit bilico verticale chiusure multiple cuscinetto reggispinta cremonese pressofusa. *Complete kit* *Multi-point locking kit for vertical pivot windows with thrust bearing with die-cast cremone bolt handle* R40 R50TT | R62TT
408.124.05 (Alutec)		Confezione completa Kit bilico verticale a chiusure multiple senza cremonese. *Complete kit- Multi-point locking kit for vertical pivot windows without cremone bolt handle* R40 R50TT | R62TT
508.025.01 (Alutec)		Distanziale fissaggio profilo inversione bilico *Spacer for fixing profile inversion pivoting window* R40 R50TT | R62TT
508.080.XX (Alutec)		Coppia di frizioni per bilico. *Pair of clutches for pivoting window.* R40 R50TT | R62TT
508.081.XX (Alutec)		Coppia di frizioni per bilico verticale con cuscinetto reggispinta. *Pair of clutches for vertical pivoting windows with thrust bearing.* R40 R50TT | R62TT

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TAPPI
PLUGS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*

REVAMPING

A.2135.NN

Coppia tappi per battuta centrale in nylon rigido su 800641 - 900658
Nylon pair of plugs for central rabbet on leafs on profiles 800641-900658

R40		

REVAMPING

A.2136.TN (AP)

Coppia tappi per battuta centrale in gomma su 800641-900658
Rubber pair of plugs for central rabbet on leafs on profiles 800641-900658

R40		

A.2146.NN

Coppia tappi per battuta centrale su profilo 900250 *Pair of plugs for central rabbet on leafs on profiles 900250*

R40		

A.2149.TN (AP)

Coppia tappi per battuta centrale in gomma su prof. 900250, da utilizzare con guarnizione di precamera G.0157.EN - G.0147.EN
Rubber pair of plugs for central rabbet on leafs on profile 900250 to utilize with central rabbet G.0157.EN - G.0147.EN

R40		

A2189.TN

Coppia tappi per battuta centrale su profilo 800695
Pair of plugs for central rabbet on leafs on profiles 800695

R40		

TAPPI
PLUGS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*

A.2143.NN (AP)
A.2143.NB (AP)

Tappo aggiuntivo in nylon per profilo 800641 in abbinamento con tappo A.2136.TN
Nylon additional plug for profile 800641 to combine to cod.A.2136.TN

Nero RAL 9005 / *Black RAL 9005*

Bianco RAL 9010/ *White RAL 9010*

R40		
R50TT	R62TT	R72TT
	R72TT1.3	R85TT1.0

SUPPORTI PER PERSIANE
SLATTED SHUTTER SUPPORTS

418.110.55 (Alutec)

Supporto lamella per persiana fissa su profilo 900392
Blade support for fixed slatted shutter on profile 900392

R40		

418.111.55 (Alutec)

Supporto lamella per persiana fissa ovalina 50x10
Recersible blade support for fixed slatted shutter 50x10

R40		

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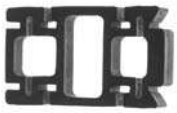
ATTACCHI ALLA MURATURA
WALL FASTENERS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
410.100.00 (Alutec)		Molla in acciaio zincato per coprifilo angolare *Galvanized steel spring for angular coverwire* R40 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
410.330.55 (Alutec)		Clip ad infilare per profili angolari. *Insert clip for angular profiles.* R40 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
410.405.01 (Alutec)		Basetta unificata per regolo mobile in zama pressofusa. *Unified plate for adjustable block made of die-casting zamak.* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
510.480.01 (Alutec)		Fissaggio a muro laterale in alluminio estruso. *Extruded aluminium lateral wall fastener.* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
510.491.55 (Alutec)		Tappo rotondo copriforo Ø 12 mm in polietilene. *Circular coverhole plug Ø mm 12 made of polyethylene.* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
510.415.01 (Alutec) **510.420.01 (Alutec)** **510.430.01 (Alutec)** **510.445.01 (Alutec)** **510.460.01 (Alutec)**		Regolo mobile. *Adjustable block.* L = mm 15 L = mm 20 L = mm 30 L = mm 45 L = mm 60 R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0

ATTACCHI ALLA MURATURA
WALL FASTENERS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
510.490.55 (Alutec) **510.490.60 (Alutec)**		Tappo rettangolare copriforo Ø 12 mm in polietilene *Rectangular coverhole plug Ø mm 12 made of polyethylene* - colore nero - *black color* - colore bianco - *white color* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0

SCARICHI ACQUA
WATER DRAINAGES

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
509.270.55 (Alutec)		Valvola scarico acqua in nylon. *Nylon water drainage valve.* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0
509.261.55 (Alutec) **509.261.60 (Alutec)**		Paratempesta in nylon. *Water drain cover of nylon.* - nero - *black* - bianco - *white* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0
509.264.55 (Alutec) **509.265.55 (Alutec)**		Paratempesta in nylon. *Water drain cover of nylon.* - nero - *black* - bianco - *white* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0
409.100.55 (Alutec)		Coppia tappi lat. raccogli condensa in nylon per profilati 900273-276-424 *Pair of nylon lateral plugs for condensation collection for profiles 900273-276-424* R40
509.282.55 (Alutec)		Gruppo tappi laterali di chiusura in nylon per profilati 900273-276-424 *Nylon set of lateral closure plug for 900273-276-424* R40

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ATTREZZATURE
TOOLS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
581.023.00 (Alutec)		Boccola per foratura con impugnatura *Drilling bushing with handgrip* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
581.024.00 (Alutec)		Maschera piazzamento slitta rientro anta *Leaf retracting slide positioning template* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
581.025.00 (Alutec)		Morsetto di piazzamento guide scorrevoli *Sliding guides positioning clamp* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
581.026.00 (Alutec)		Maschera di foratura piazzamento carrelli *Rollers positioning drilling template* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
581.033.00 (Alutec)		Dima universale per tavellino. *Universal template for flat catch.* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
581.034.00 (Alutec)		Punzonatrice lavorazione astine *Punching machine for rods processing* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0
581.041.00 (Alutec)		Dima foratura per cerniere ad elevata portata *Drilling template for heavy hinges* R40 / R50 / R50TT / R62TT / R72TT / R72TT1.3 / R85TT1.0

ATTREZZATURE
TOOLS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
M.2001.00		Cianfrinatrice manuale *Manual crimping tool* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0
581.171.00 (Alutec)		Cesoia taglia guarnizioni in metallo UNIV. *Metal shear for weatherstrips cutting* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0
U.9801.VV		Chiave esagonale doppia da 4-5-6 UNIV. *Double exhagonal wrench of 4-5-6* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0
U.9802.VV		Chiave esagonale doppia da 2.5-3 UNIV. *Double exhagonal wrench of 2.5-3* R40 / R50 / R50TT / R62TT / R72TT / R72TTCE / R72TT1.3 / R85TT1.0

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GUARNIZIONI
WEATHERSTRIPS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
G.0119.EN		Guarnizione di battuta per bilico *Pivoting weatherstrip of rabbet* E.P.D.M. R40 | R50 | R50TT | R62TT | | R72TT1.3 |
G.0126.EN (ABP) **G.0138.RN** (ABP) **G.0155.TN** (BP) **G.0156.FN** (BP)		Guarnizione di battuta *Weatherstrip of rabbet* EN = E.P.D.M. RN = PVC coestruso *Coextruded P.V.C.* TN = T.P.E. *T.P.R.* FN = E.P.D.M. coestruso *Coextruded E.P.D.M.* R40 | R50 | R50TT | R62TT | R72TT | R72TT1.3 | R85TT1.0
G.0127.EN (ABP)		Guarnizione su fermavetro spessore 2 mm *Weatherstrip on glazing bead shim 2 mm* E.P.D.M. R40 | R50 | R50TT | R62TT | R72TT R72TTCE | R72TT1.3 | R85TT1.0
G.0128.EN (ABP)		Guarnizione su fermavetro spessore 3 mm *Weatherstrip on glazing bead shim 3 mm* E.P.D.M. R40 | R50 | R50TT | R62TT | R72TT R72TTCE | R72TT1.3 | R85TT1.0
G.0129.EN (ABP)		Guarnizione su fermavetro spessore 6 mm *Weatherstrip on glazing bead shim 6 mm* E.P.D.M. R40 | R50 | R50TT | R62TT | R72TT R72TTCE | R72TT1.3 | R85TT1.0
G.0130.EN (AB)		Guarnizione per coprigiunto - 5mm *Coverjoint weatherstrip - 5mm* E.P.D.M. R40 | R50 | R50TT | R62TT | | |
G.0131.EN (ABP)		Guarnizione di battuta ad inserimanto a scatto *Released insertion weatherstrip on rabbet* E.P.D.M. R40 | R50 | R50TT | R62TT | R72TT | R72TT1.3 | R85TT1.0

GUARNIZIONI
WEATHERSTRIPS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
G.0132.EN (ABP)		Guarnizione di precamera *Central weatherstrip* REVAMPING E.P.D.M. R40 | R50 | | |
G.0134.EN (ABP)		Guarnizione esterna vetro *External weatherstrips on glass* E.P.D.M. R40 | R50 | R50TT | R62TT | R72TT R72TTCE | R72TT1.3 | R85TT1.0
G.0139.RN (ABP)		Guarnizione esterna vetro 1,5mm *External weatherstrips on glass 1,5mm* P.V.C. Coestruso *Coextruded P.V.C.* R40 | R50 | R50TT | R62TT | R72TT R72TTCE | R72TT1.3 | R85TT1.0
G.0140.RN (ABP)		Guarnizione esterna vetro 3 mm *External weatherstrips on glass 3mm* P.V.C. Coestruso *Coextruded P.V.C.* R40 | R50 | R50TT | R62TT | R72TT R72TTCE | R72TT1.3 | R85TT1.0
G.0147.EN (ABP)		Guarnizione di precamera *Central weatherstrip* E.P.D.M. R40 | R50 | | |
G.0149.EN (BP)		Guarnizione su fermavetro spessore 4 mm *Weatherstrip on glazing bead shim 4 mm* E.P.D.M. R40 | R50 | R50TT | R62TT | R72TT R72TTCE | R72TT1.3 | R85TT1.0
G.0150.EN (BP)		Guarnizione su fermavetro spessore 5 mm *Weatherstrip on glazing bead shim 5 mm* E.P.D.M. R40 | R50 | R50TT | R62TT | R72TT R72TTCE | R72TT1.3 | R85TT1.0
G.0157.EN		Guarnizione di precamera ribassata *Riduced central weatherstrip* E.P.D.M. R40 | R50 | | |

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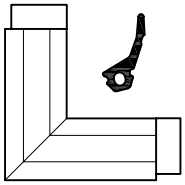
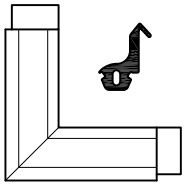
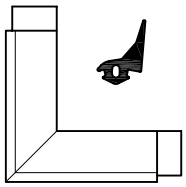
GUARNIZIONI
WEATHERSTRIPS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
G.0314.RN (AP)		Guarnizione di tenuta inferiore porte *Lower door seal* P.V.C. coestruso *Coextruded P.V.C.* R40 | R50 | R50TT | R62TT | R72TT R72TTCE | R72TT1.3 | R85TT1.0
G.0316.QN		Guarnizione porta spazzolino *Brush holder seal* P.V.C. rigid *Rigid P.V.C.* R40 | R50 | R50TT | R62TT | R72TT R72TT1.3 | R85TT1.0
G.0317.RN		Guarnizione per collegamento profili *Profile connection gasket* P.V.C. coestruso *Coextruded P.V.C.* R40 | R50 | R50TT | R62TT | R72TT R72TT1.3 | R85TT1.0

ANGOLI STAMPATI IN EPDM
EPDM MOULDED CORNERS

Articolo *Item*	Immagine *Picture*	Descrizione *Description*
A.0227.EN **A.0227.TN** (AP)		Angolo stampato per guarnizione G.0132.EN *Moulded corner for weatherstrips G.0132.EN* REVAMPING R40 | R50 | | |
A.0229.EN **A.0229.TN** (AP)		Angolo stampato per guarnizione G.0147.EN *Moulded corner for weatherstrips G.0147.EN* EN = E.P.D.M. TN = T.P.E. *T.P.R.* R40 | R50 | | |
A.0233.EN		Angolo stampato per guarnizione G.0157.EN *Moulded corner for weatherstrips G.0157.EN* R40 | R50 | | |

Rev. : 2013
Gennaio
January

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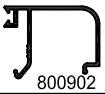
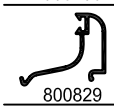
INSERIMENTO GUARNIZIONI,VETRI E FERMAVETRI
WEATHERSTRIPS,GLASS AND GLASS BEADINGS INSERTION

Articolo *Item*	Guarnizioni esterne *External weatherstrips*	Sezione *Section*	Articolo *Item*	Guarnizioni interne *Internal weatherstrips*	Sezione *Section*
G.0139.RN	**A** = 1,5 mm		G.0127.EN	**B** = 2 mm	
G.0134.EN	**C** = 3 mm		G.0128.EN	**E** = 3 mm	
G.0140.RN	**D** = 3 mm		G.0129.EN	**F** = 5/6 mm	

Spessore Vetri *Glass thickness*	Guarnizioni *Weatherstrips*	Dimensione fermavetri *Glass beading size*	Sezione fermavetri Glass beading section				
		35 mm	 800902				
4 5	C/D + E C/D + B	30 mm	900260	900614	900617	800681	800682
4 5 6 7	C/D + F A + F C/D + E C/D + B	28 mm	800741				
5/6 7 8 9	C/D + F A + F C/D + E C/D + B	26 mm	900259	800677	800678	800812	
9 10/11 13 14	C/D + F A + F A + E A + B	22,5 mm	900607	600027			
9/10 11 12 13	C/D + F A + F C/D + E C/D + B	22 mm	900258				
12/13 14 15 16	C/D + F A + F C/D + E C/D + B	19 mm	800303	800339			
13/14 15 16 17	C/D + F A + F C/D + E C/D + B	18 mm	900257	800651	800679	800680	
14 15/16 18 19	C/D + F A + F A + E A + B	17,5 mm	800642				
14/15 16 17 18	C/D + F A + F C/D + E C/D + B	17 mm	900530				
17/18 19 20 21	C/D + F A + F C/D + E C/D + B	14 mm	900256	800307	800313	800661	800662
20/21 22 23 24	C/D + F A + F C/D + E C/D + B	11 mm	 800829				
21/22 23 24 25	C/D + F A + F C/D + E C/D + B	10 mm	800851				
22/23 24 25 26	C/D + F A + F C/D + E C/D + B	9 mm	800755				
26/27 28 29 30	C/D + F A + F C/D + E C/D + B	5 mm	800873				
29/30 31 32 33	C/D + F A + F C/D + E C/D + B	2 mm	800874				

Rev. : 2010
Settembre
September

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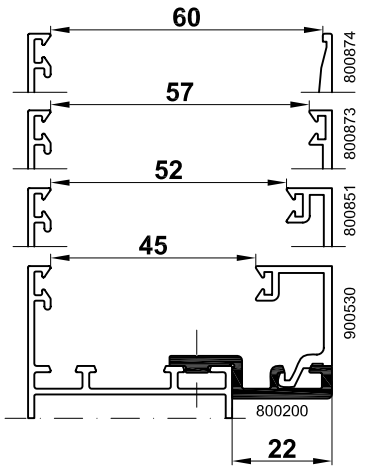
INSERIMENTO GUARNIZIONI,VETRI E FERMAVETRI
WEATHERSTRIPS,GLASS AND GLASS BEADINGS INSERTION

Per accoppiamento con profilo 800200
Assembly with section 800200

Spessore Vetri *Glass thickness*	Guarnizioni *Weatherstrips*	Dimensione fermavetri *Glass beading size*	Sezione fermavetri Glass beading section
● 36/37 ● 38 ● 39 ● 40	C/D + F A + F C/D + E C/D + B	17 mm	900530
● 43/44 ● 45 ● 46 ● 47	C/D + F A + F C/D + E C/D + B	10 mm	800851
● 48/49 ● 50 ● 51 ● 52	C/D + F A + F C/D + E C/D + B	5 mm	800873
● 51/52 ● 53 ● 54 ● 55	C/D + F A + F C/D + E C/D + B	2 mm	800874

● **Spessore pannelli**
Panel thickness



N.B.: Le combinazioni indicate sono state ottenute considerando le quote teoriche. Si consiglia sempre di verificare le tolleranze per applicare vetri, fermavetri e guarnizioni ottimali
The combinations are based on standard dimensions. It is always best to check tolerances to apply correct glass, glass beadings and weatherstrips.

INSERIMENTO GUARNIZIONI,VETRI AD INFILARE
WEATHERSTRIPS, AND GLASS INSERTION

Spessore vetri *Glass thickness*	Guarnizioni *Weatherstrips*	Dimensione *Size*	Sezione Profilati *Cross sections*
4 5	E+B B+B	X = 9 mm	800577+800710 ; 900672+800710
4 5 6	E+E B+E B+B	X = 10 mm	800584
4 4/5 6 7 8	E+F B+F E+E B+E B+B	X = 12 mm	800327 800357 800495 800522 800543 800554 800640 800740 + 900205 ; 900660+900205
4 4/5 6 7 8	E+F B+F E+E B+E B+B	X = 12 mm	800577+800476 ; 900672+800476
15/16 16/17 18 19 20	E+F B+F E+E B+E B+B	X = 24 mm	800327 800357 800495 800522 800543 800554 800640 800740 ; 900660
16/17 17/18 19 20 21	E+F B+F E+E B+E B+B	X = 25 mm	800577 ; 900672

Rev. : 2010 Marzo *March*
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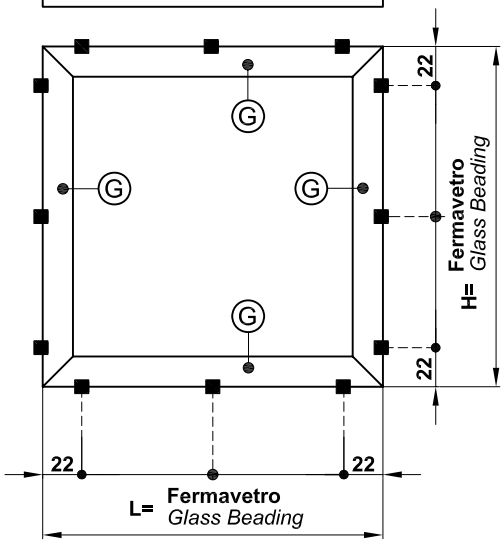
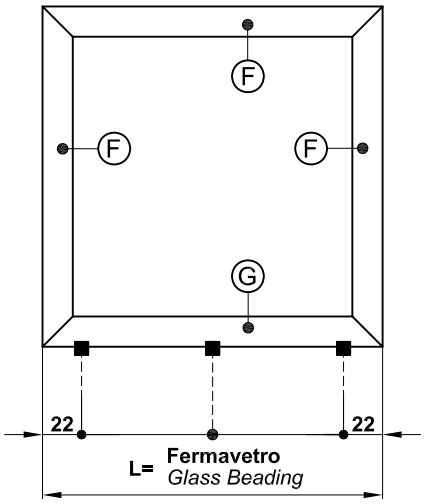
POSIZIONAMENTO ACCESSORIO FERMAVETRO ARROTONDATO
ROUNDED GLASSES BEADING ACCESSORY POSITIONING

Sezione Fermavetri *Glass Beading Section*		**Dimensione** *Size*
Ⓕ	Ⓖ	
900614	900617	30 mm
800681	800682	30 mm
800677	800678	26 mm
900607	600027	22,5 mm
800303	800339	19 mm
800679	800680	18 mm
800307	800313	14 mm
800661	800662	14 mm

Soluzione 1
Solution 1



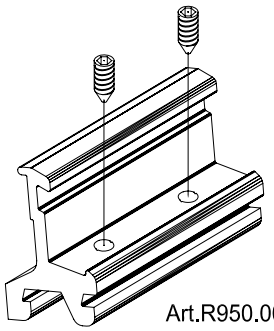
Soluzione 2
Solution 2

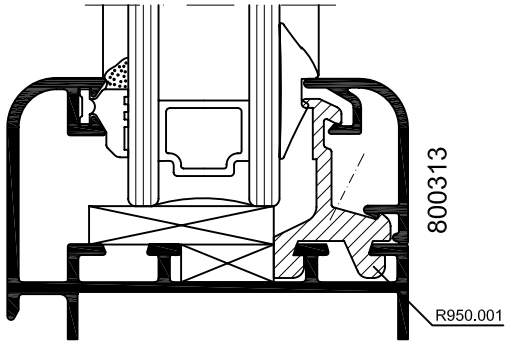


Ⓕ = **Fermavetro arr. a scatto**
Radiused glass beading snap

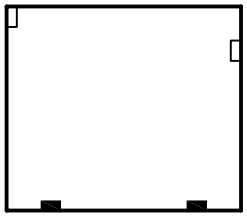
Ⓖ = **Fermavetro arr. con accessorio R950.001**
Radiused glass beading with accessoire R950.001

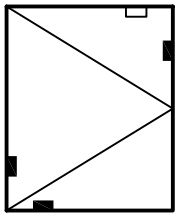
■ **=Art. R950.001**
Per L/H ≤ 1000mm n°3pz
Per L/H < 1000mm ≤1500mm n°4pz
Per L/H > 1500mm n°5pz

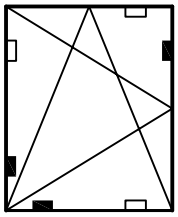

Art.R950.001

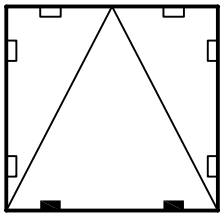


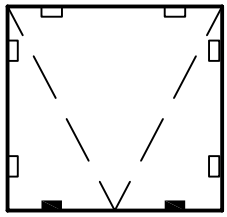
SPESSORAMENTO VETRI
GLASS SHIM

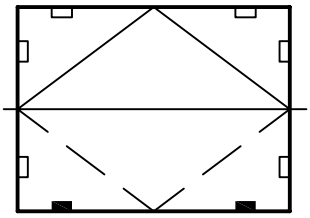

Telaio fisso
Fixed frame

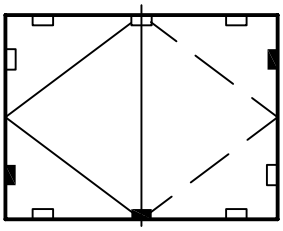

Anta a battente
Casement wing

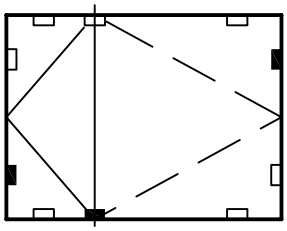

Anta ribalta
Tilt-and-turn window


Wasistas
Hopper window


Sporgere
Projecting window


Bilico orizzontale
Horizontal pivoting window


Bilico verticale
Vertical pivoting window


Bilico verticale
(asse decentrato)
Vertical pivoting window
(Decentralized axis)

Tassello d'appoggio
Support block

Tassello periferico
Peripheral block

Rev. : 2011
Febbraio
February

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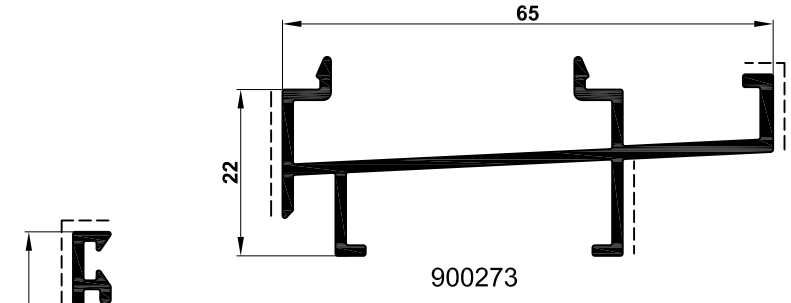
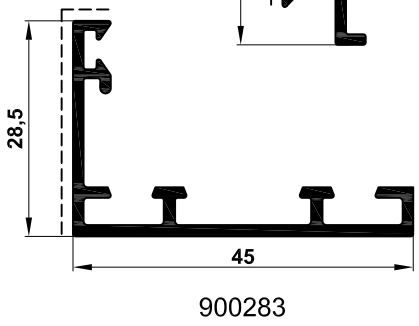
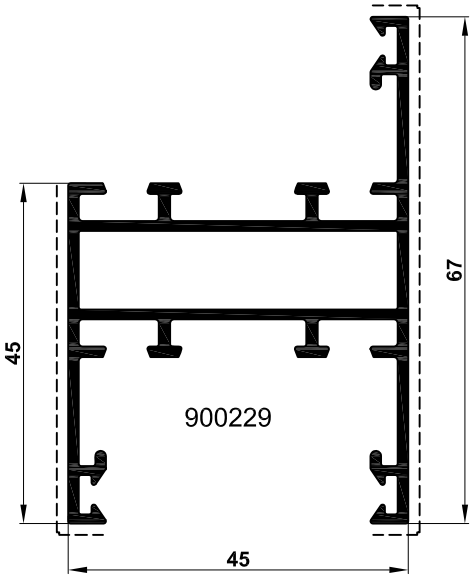
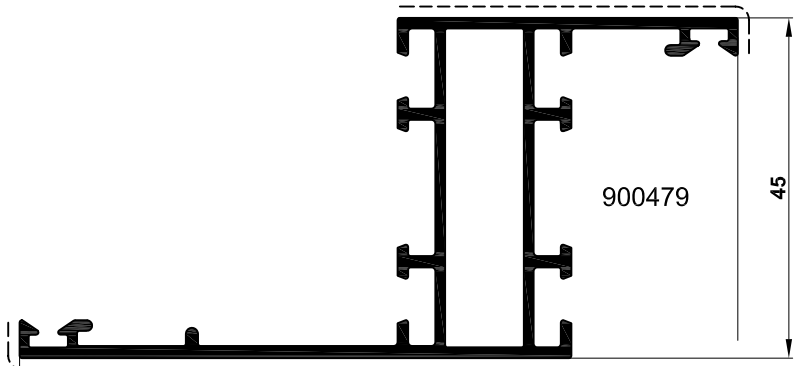
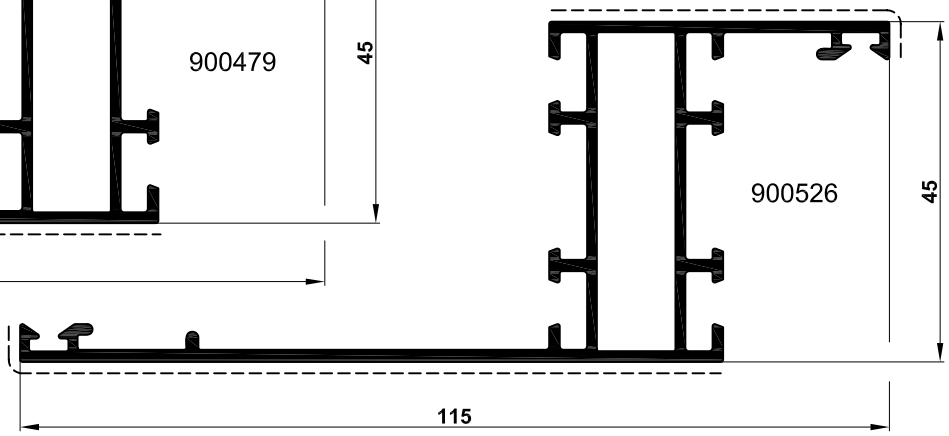


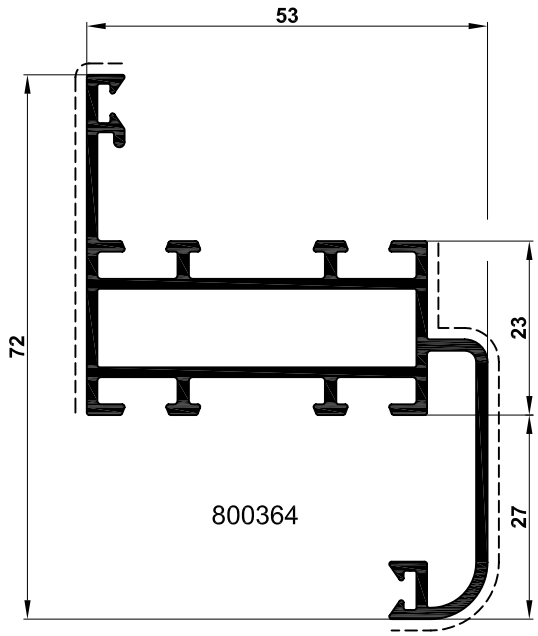


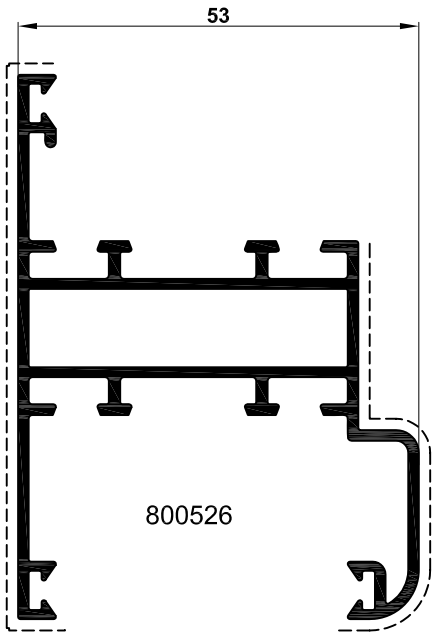


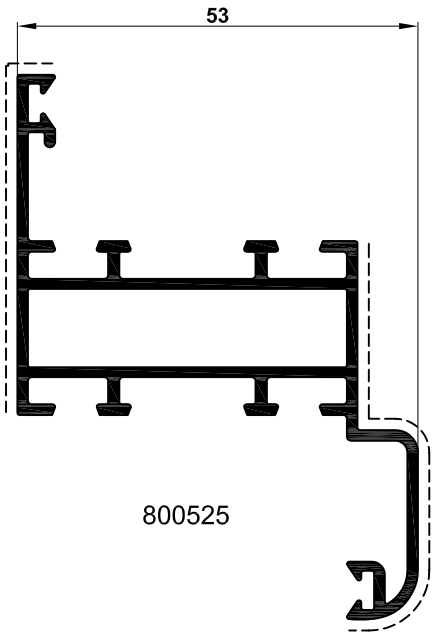




TELAI COMPLANARI
COPLANAR FRAMES







Rev. : 2007
Ottobre
October

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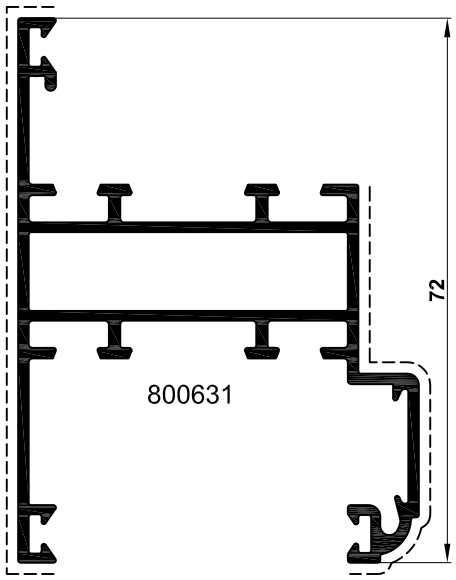

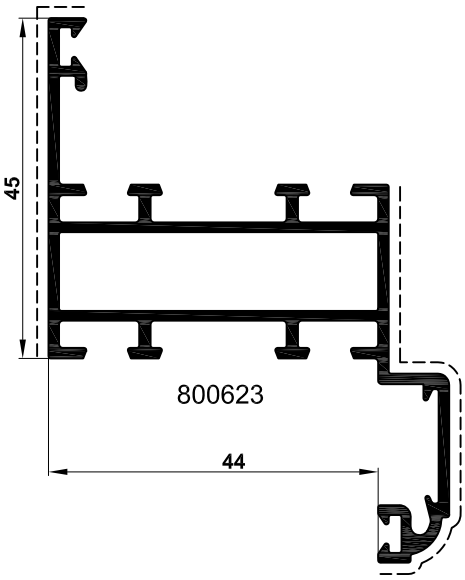

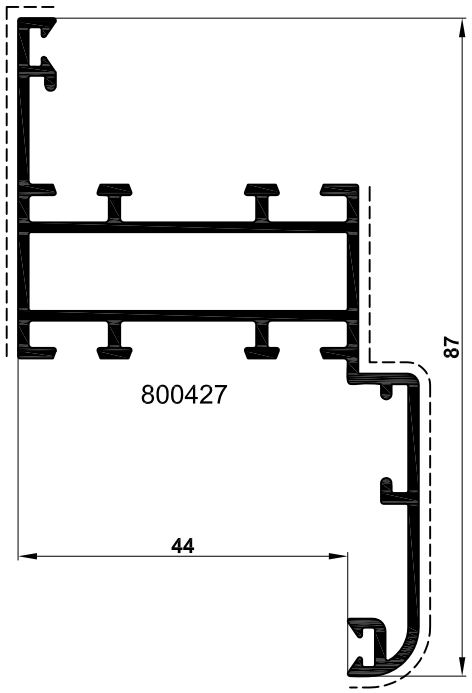

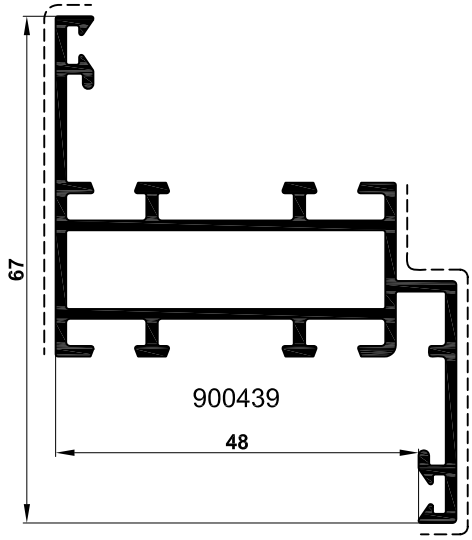

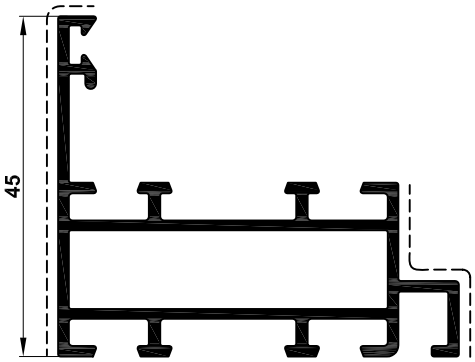

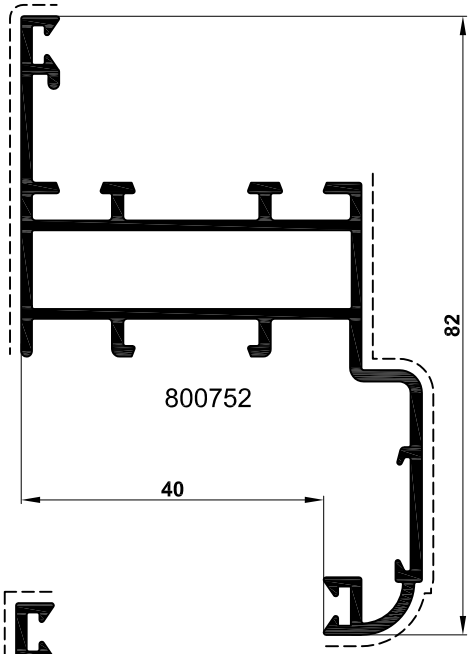

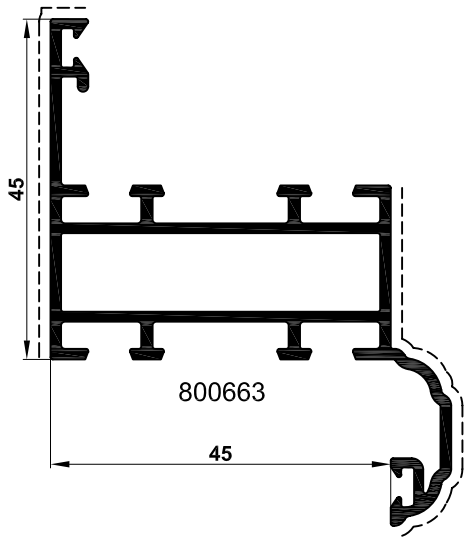

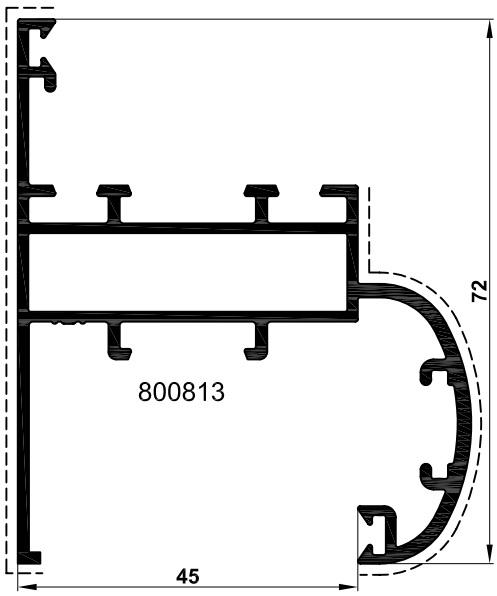

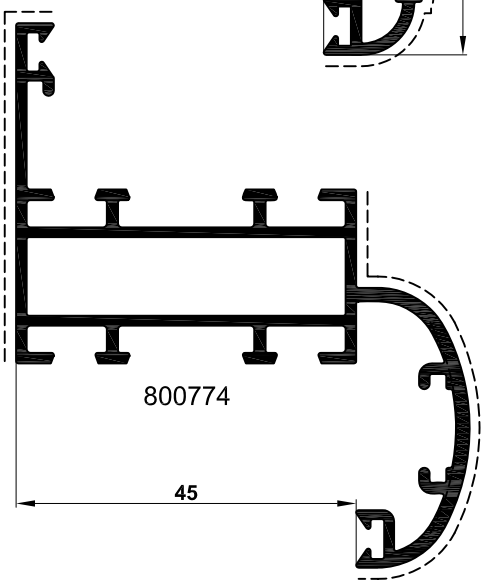

Rev. : 2007
Ottobre
October

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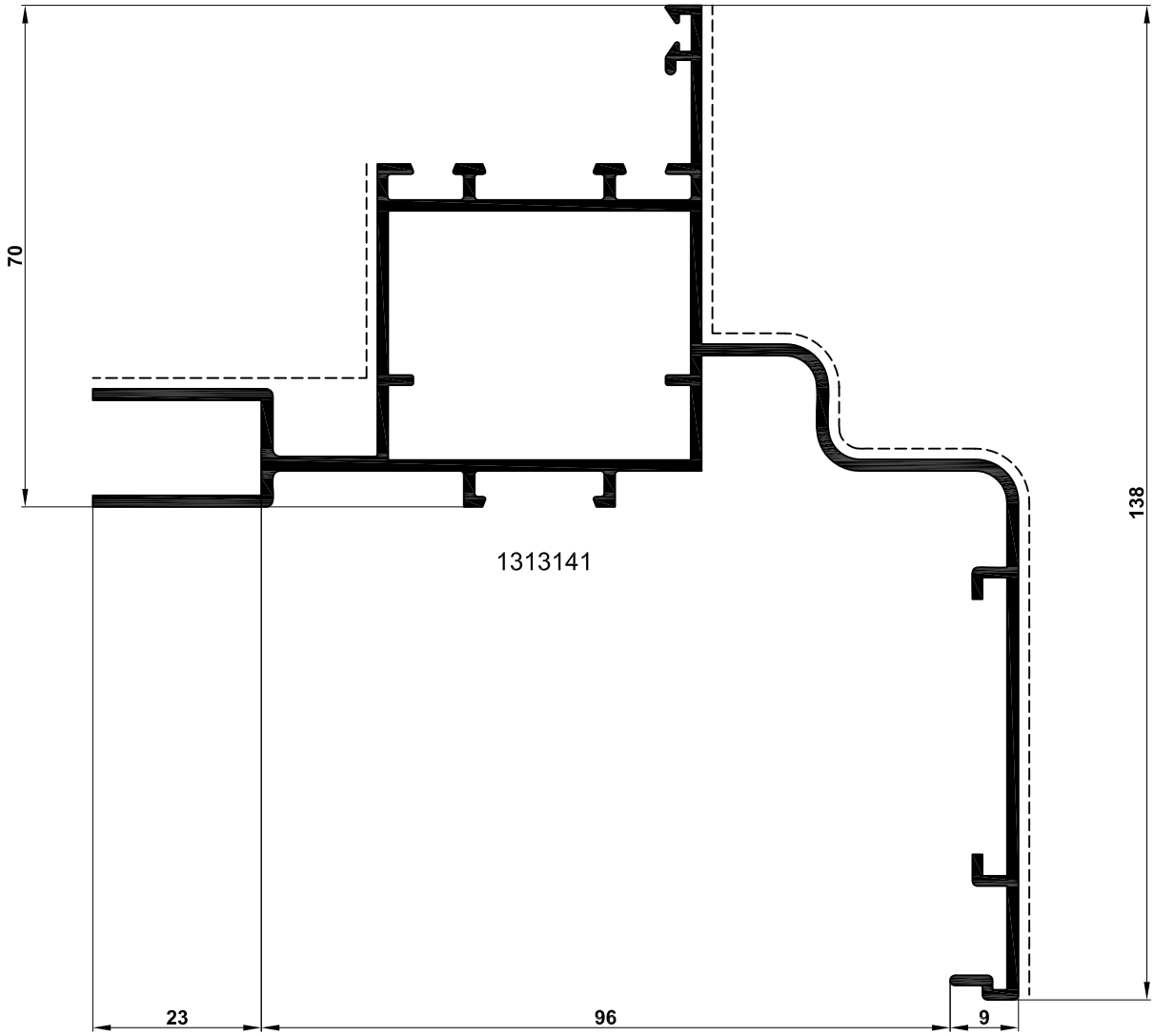
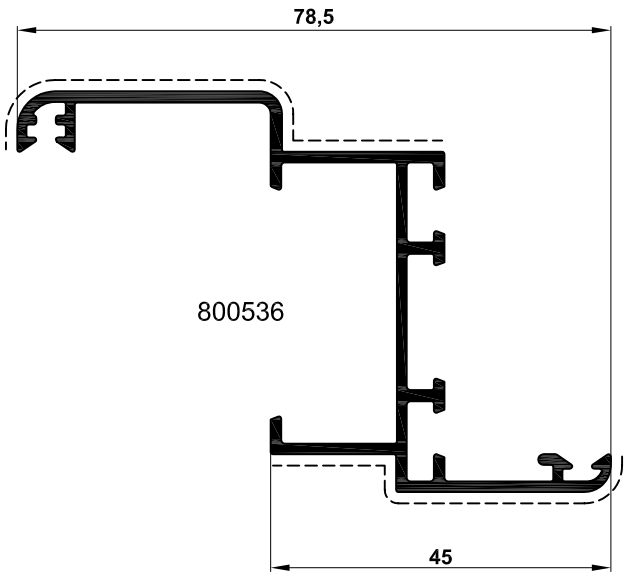
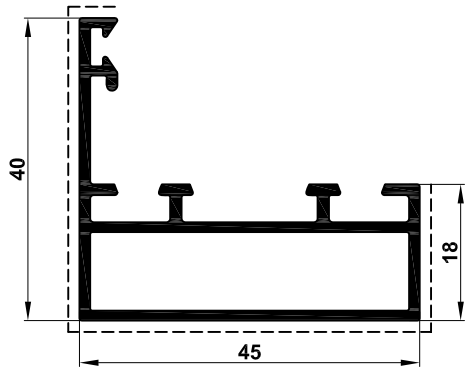
sapa



TELAI SPECIALI
SPECIAL FRAMES





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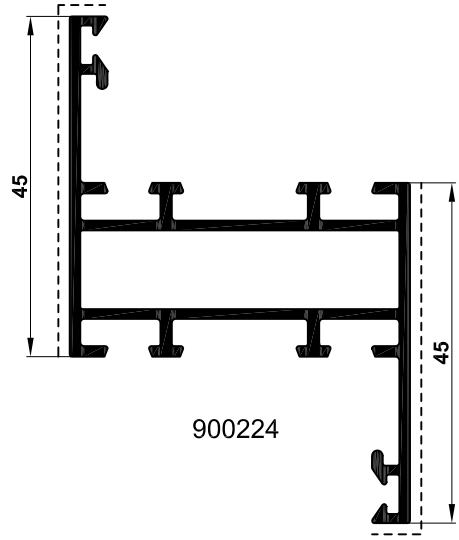

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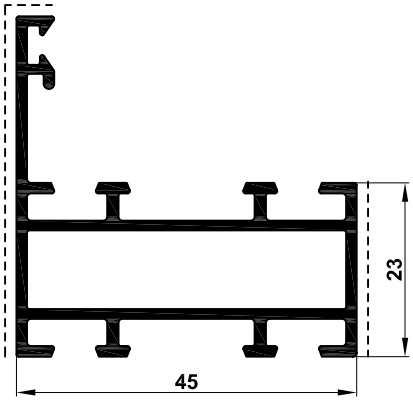

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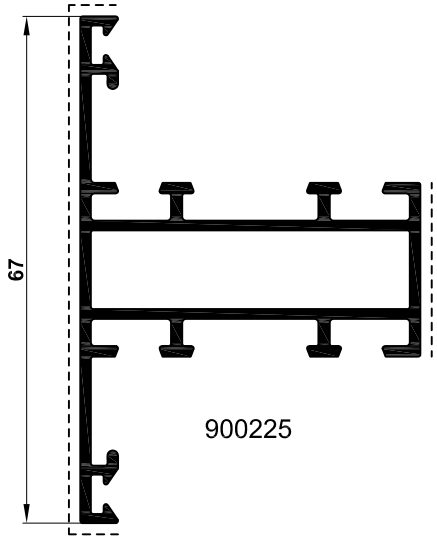

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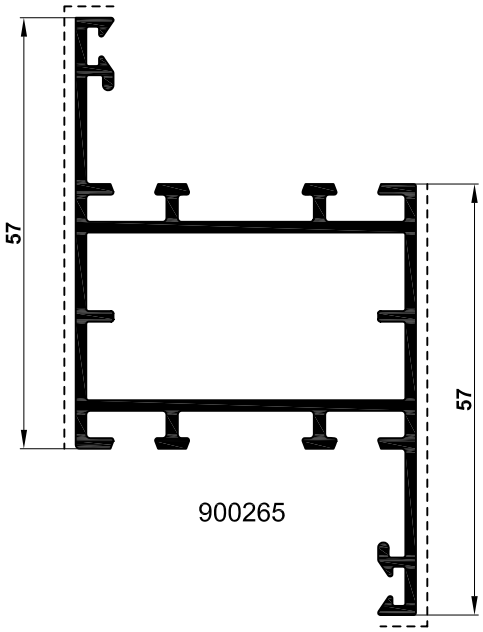

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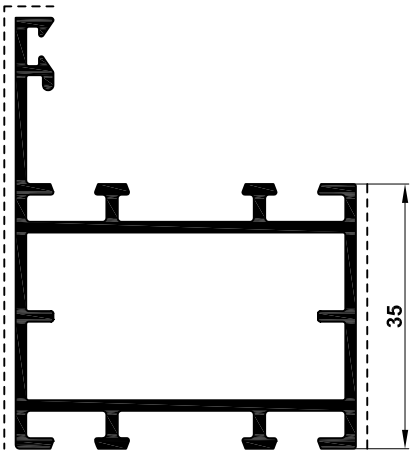

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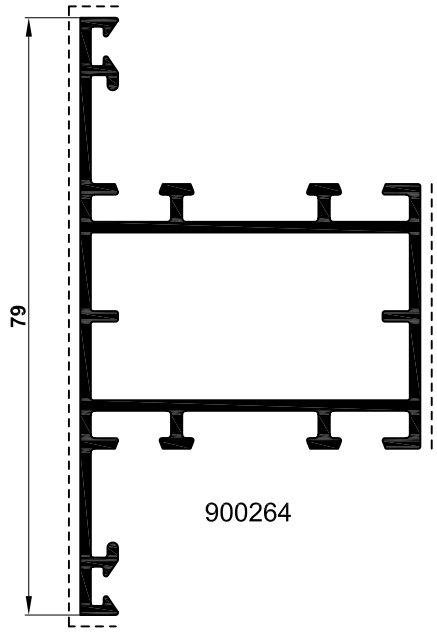

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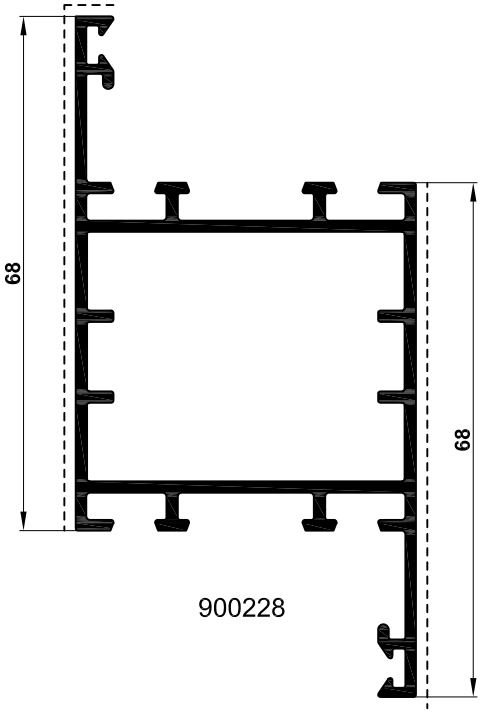

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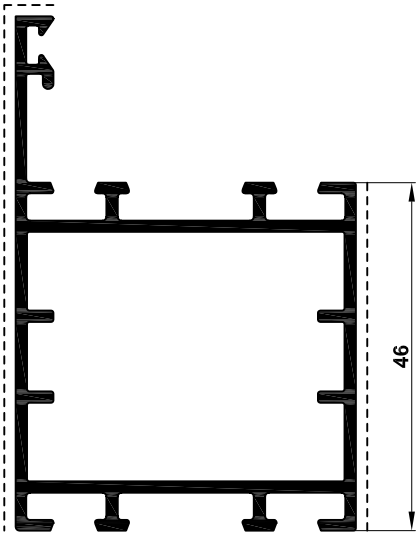

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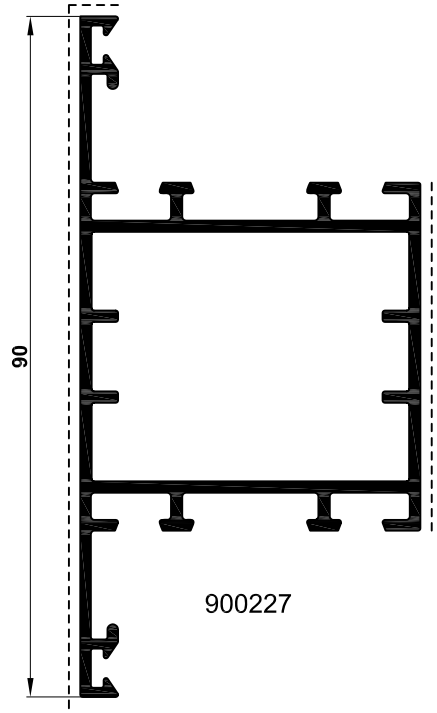

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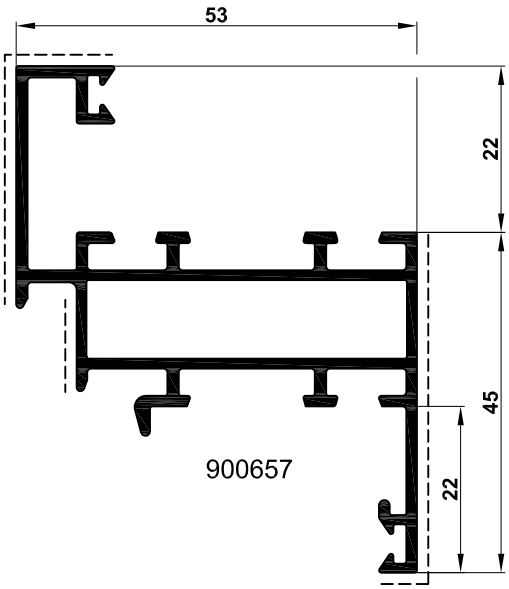

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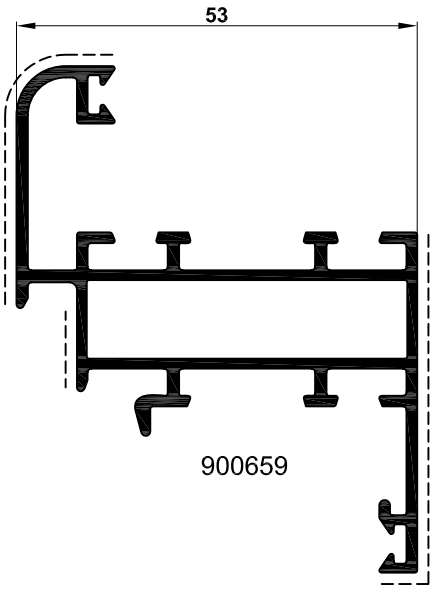

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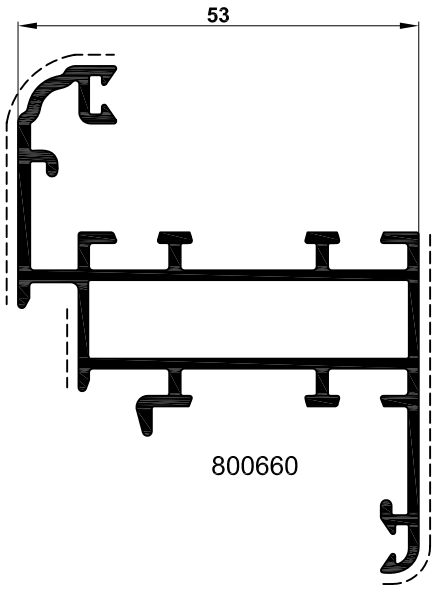

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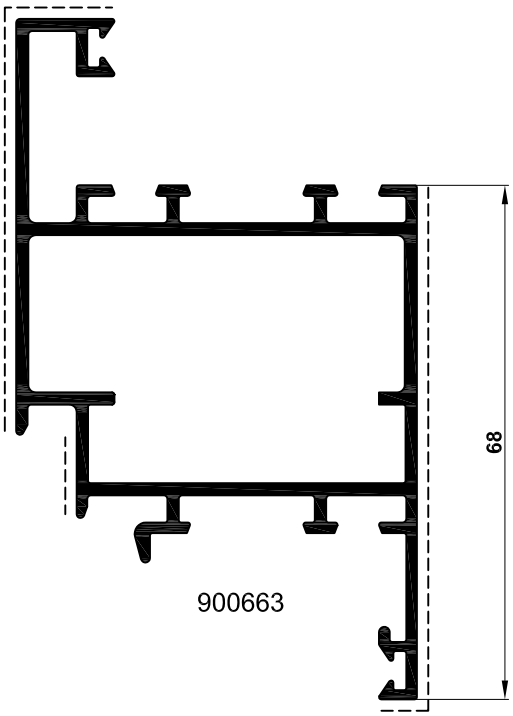

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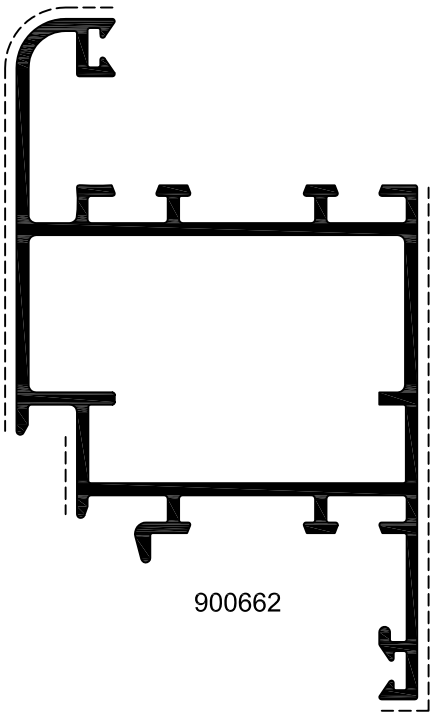
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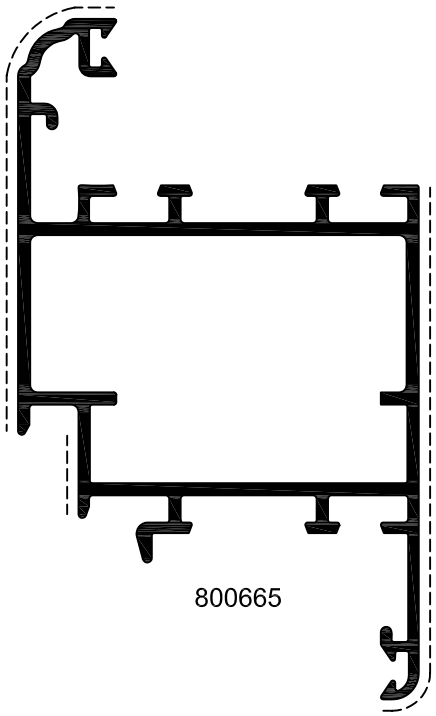
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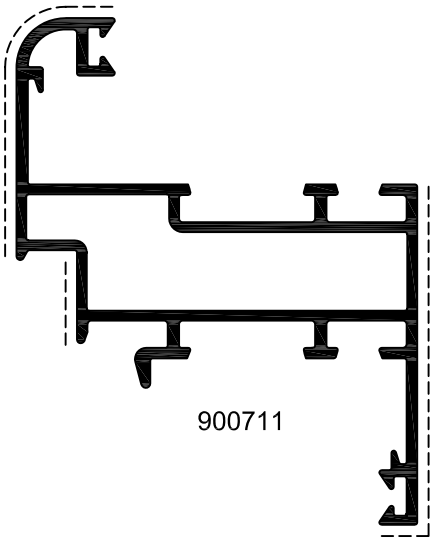
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Ottobre
October

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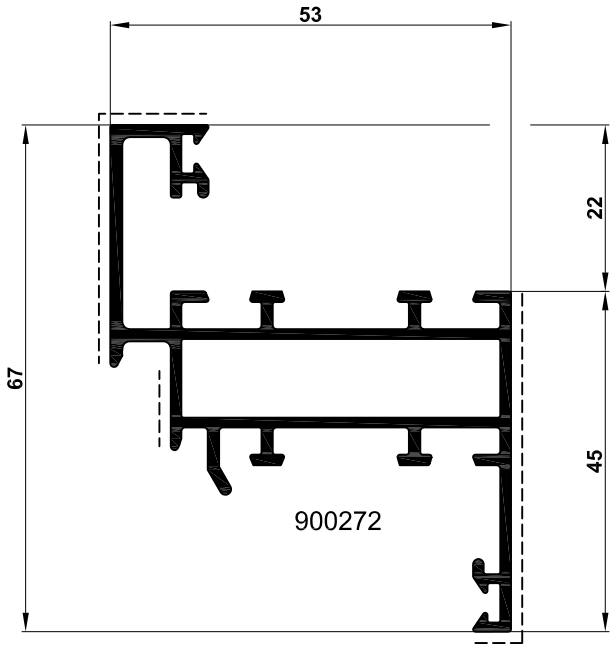

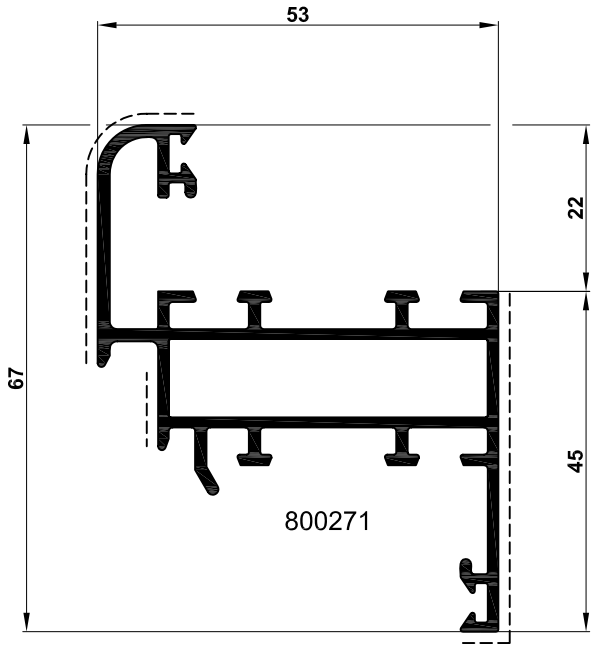

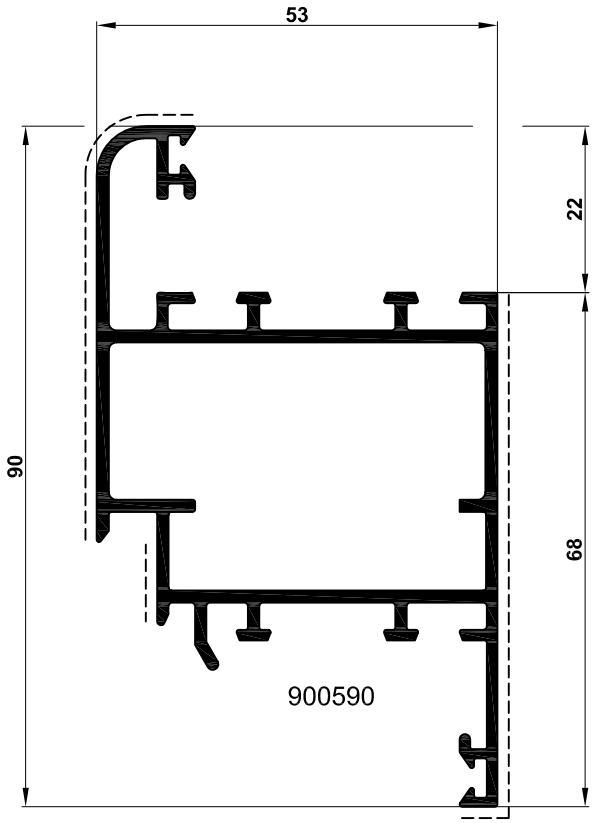

Rev. : 2010
Settembre
September

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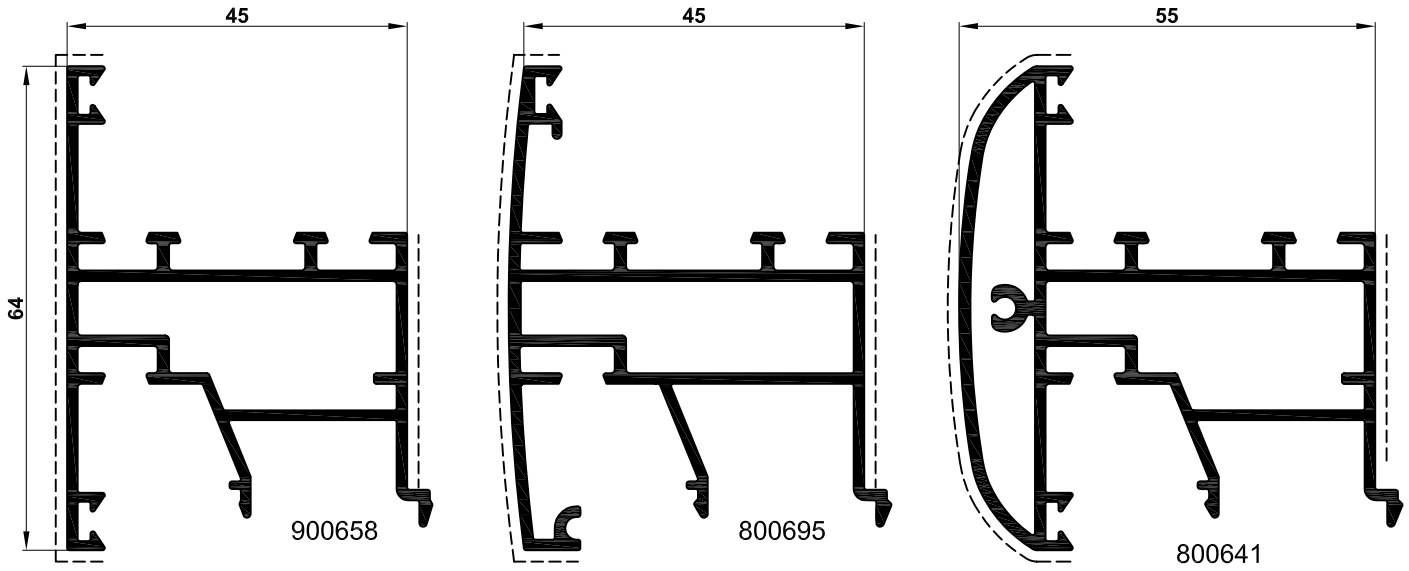
ADDITIONAL CENTRAL WING

REVAMPING



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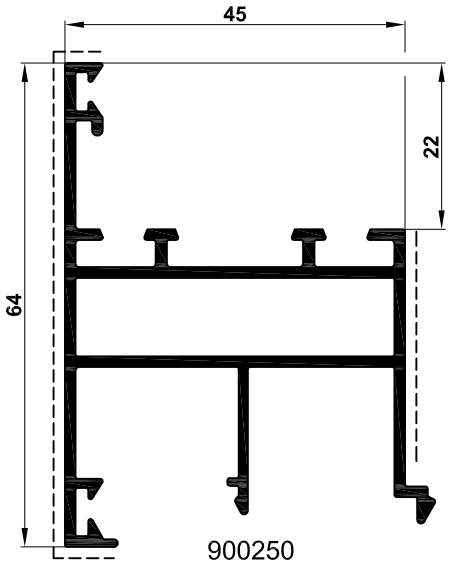

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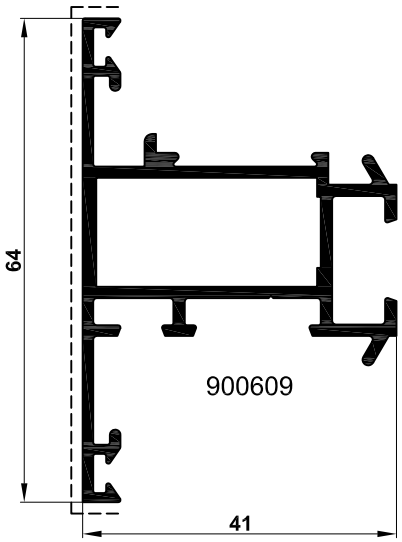

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Settembre
September

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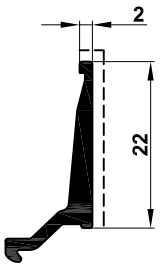

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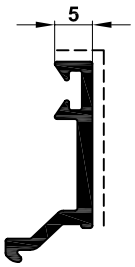

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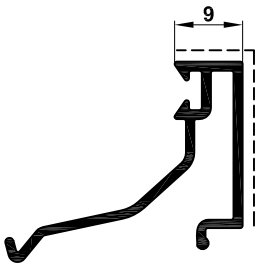

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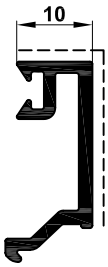

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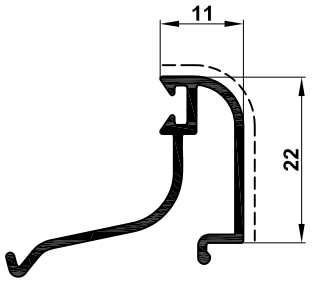

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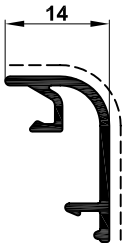

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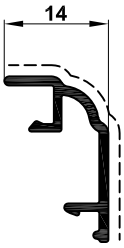

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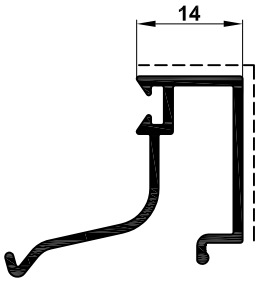

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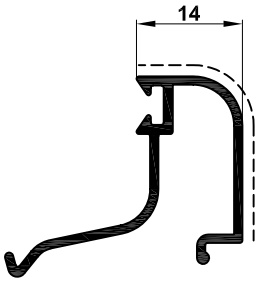

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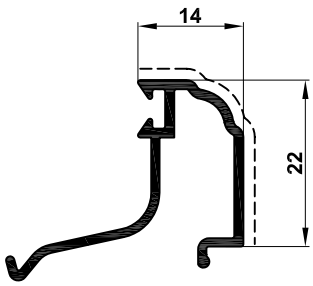

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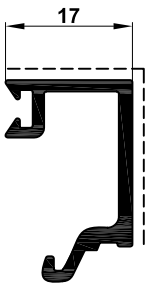

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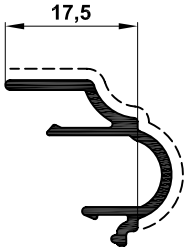

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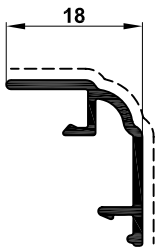

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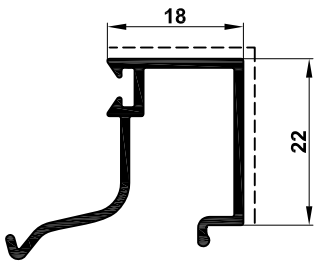

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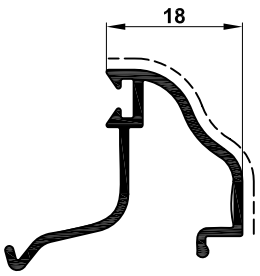

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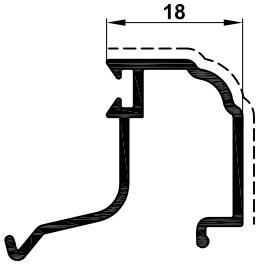

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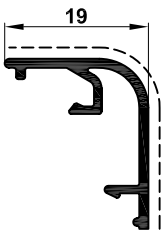

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Marzo
March

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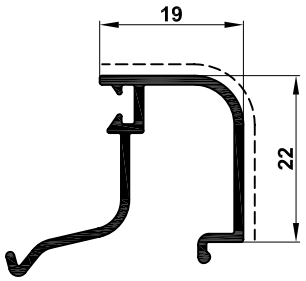

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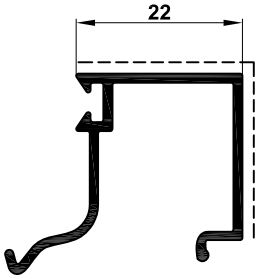

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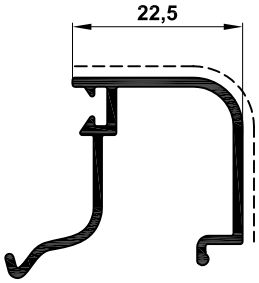

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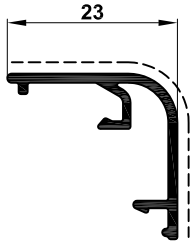

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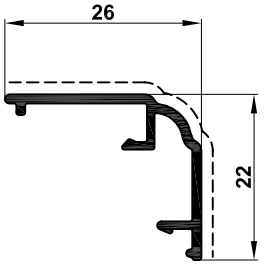

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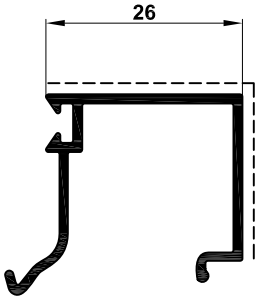

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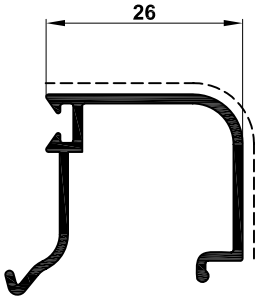

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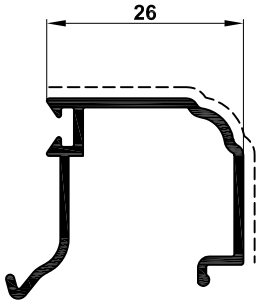

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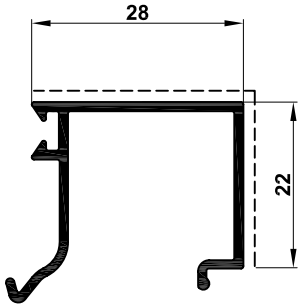

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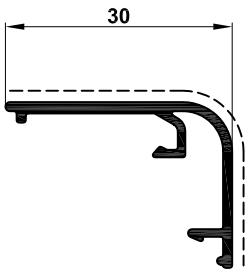

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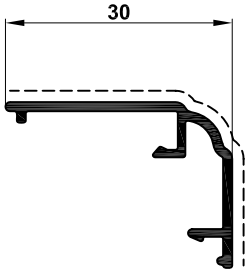

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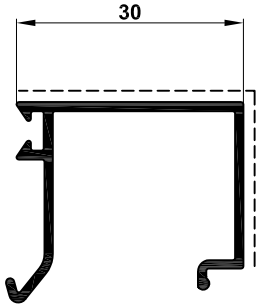

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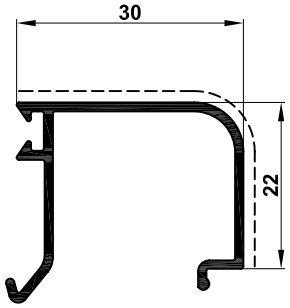

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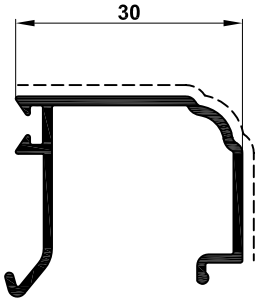

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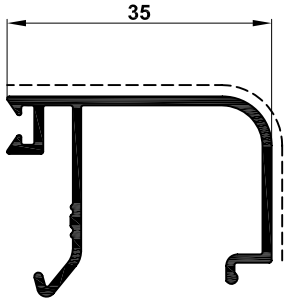

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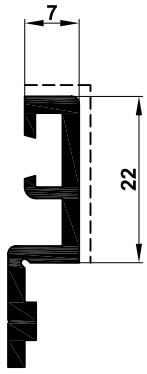

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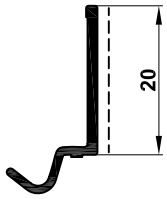

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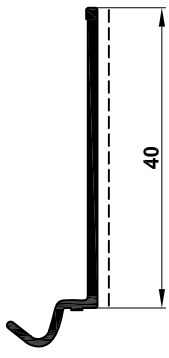

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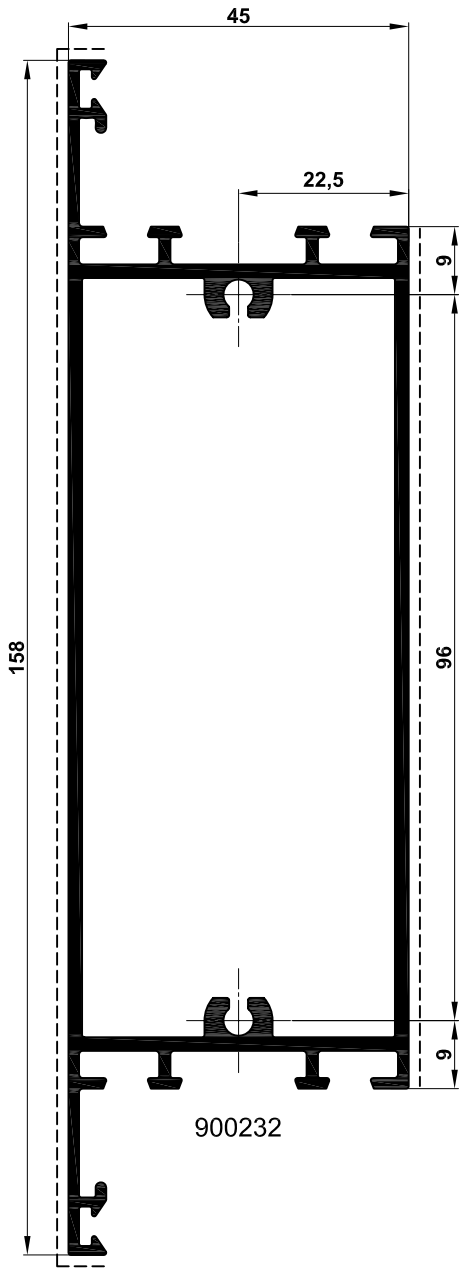
sapa



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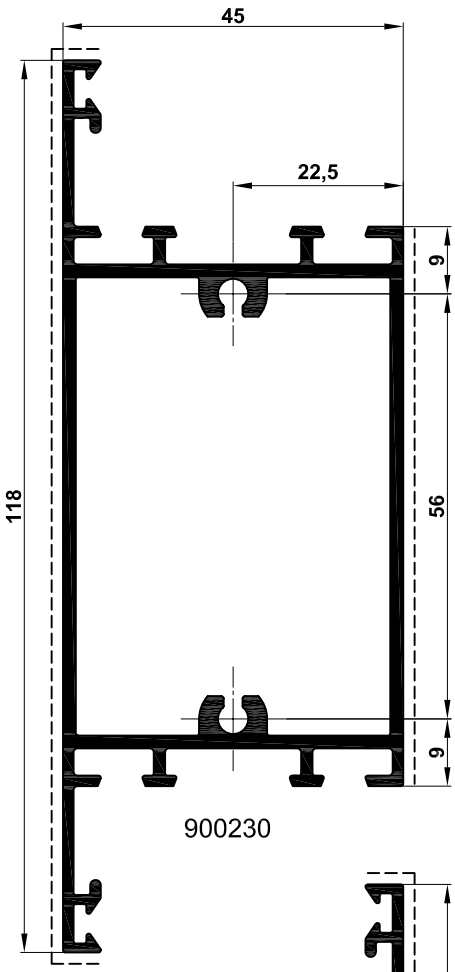

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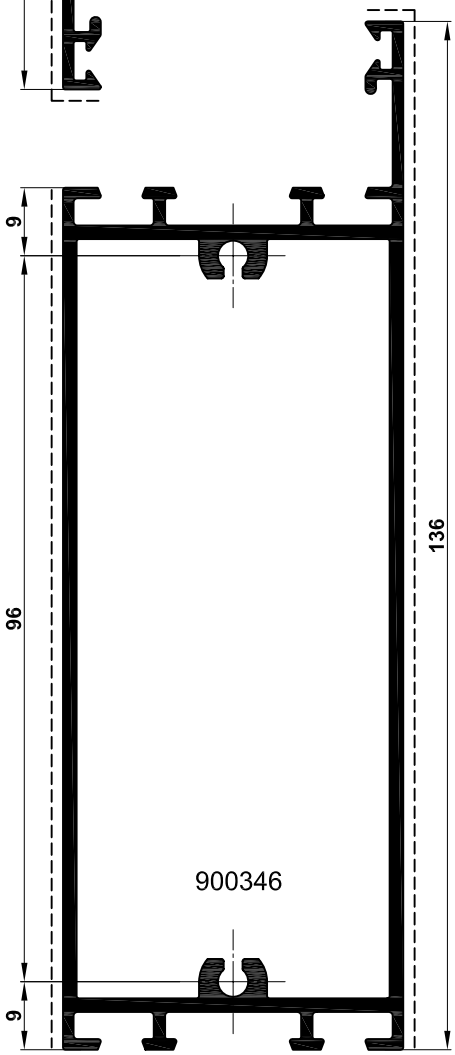

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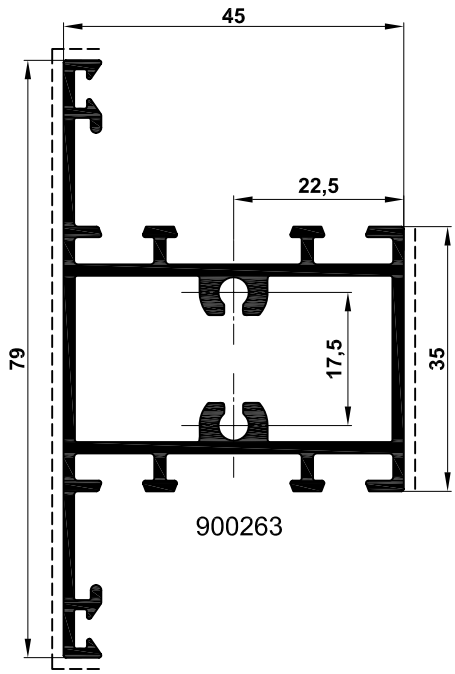

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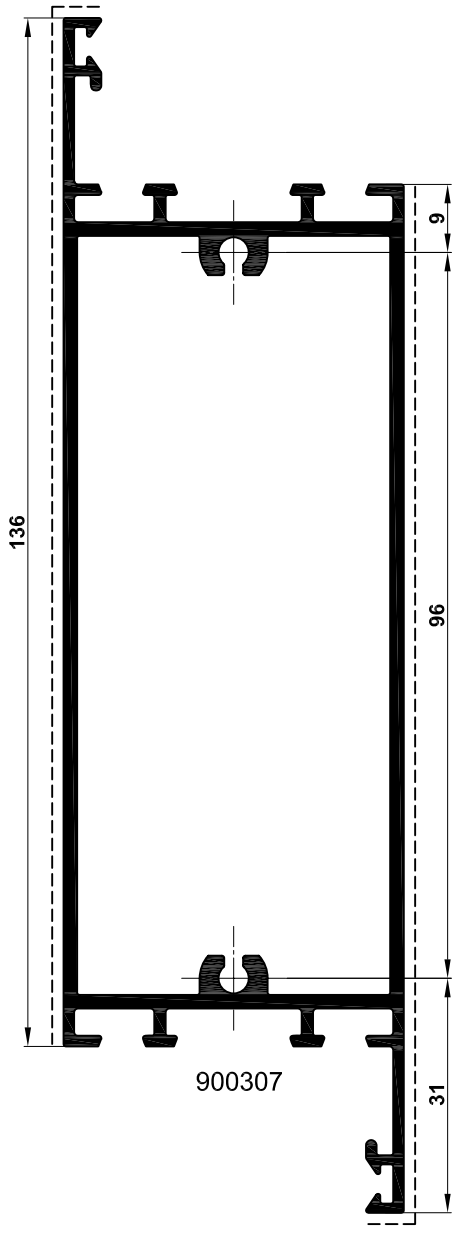

900307

Rev. : 2007
Ottobre
October

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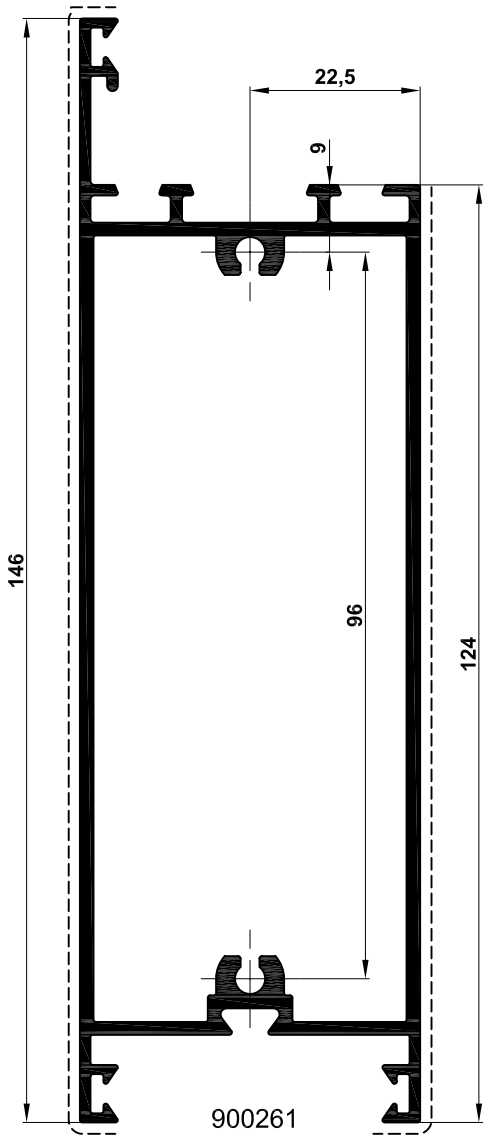

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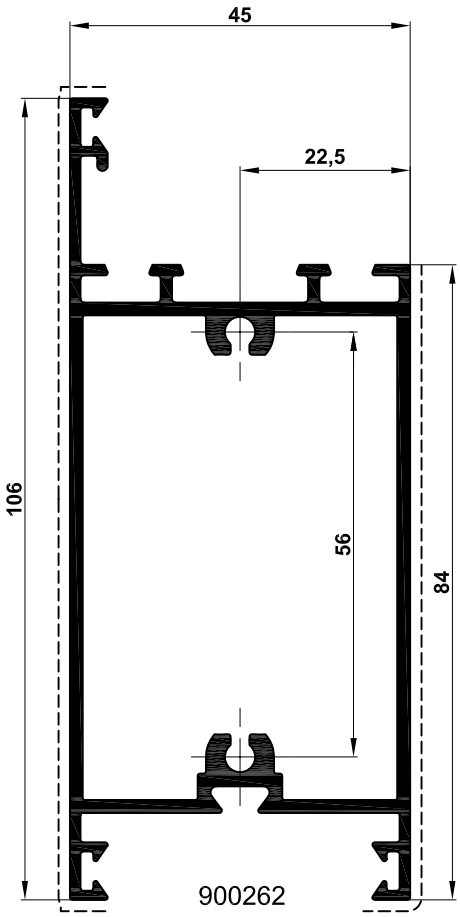

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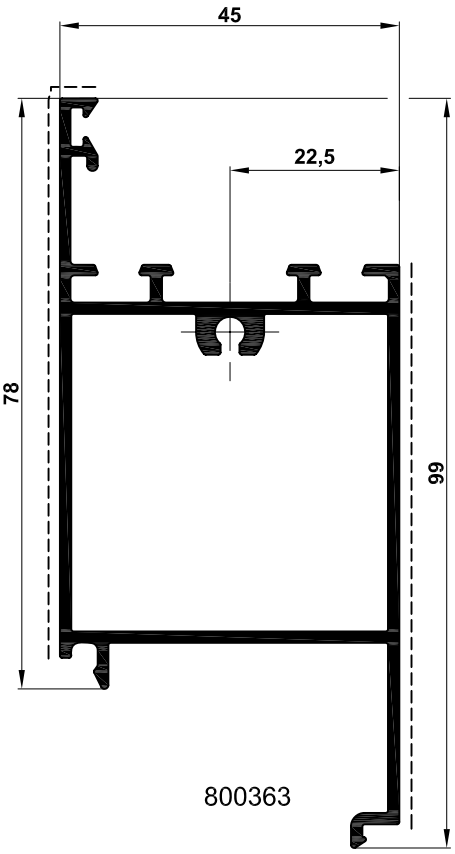

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FASCE E ZOCCOLI
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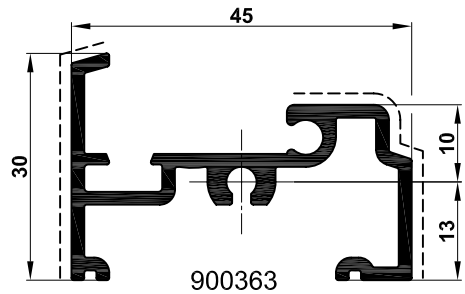

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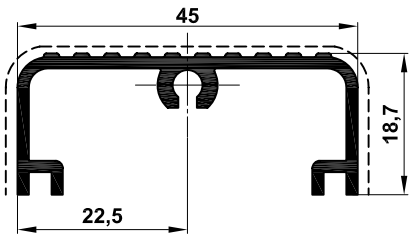

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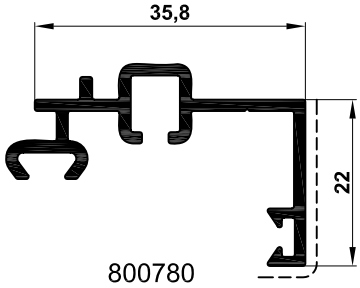

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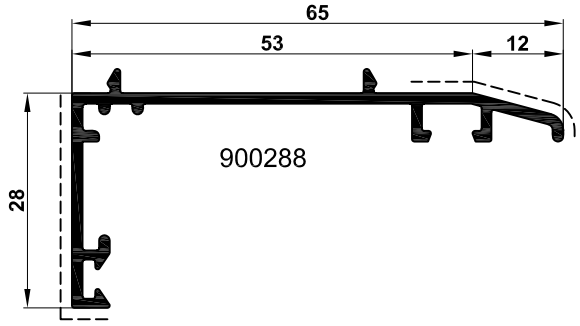

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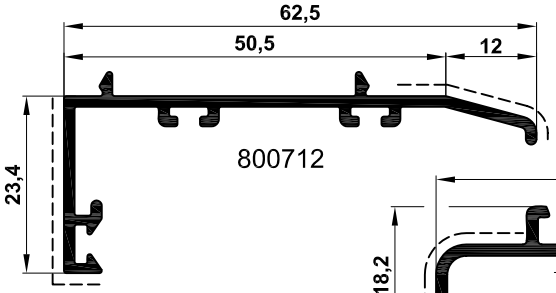

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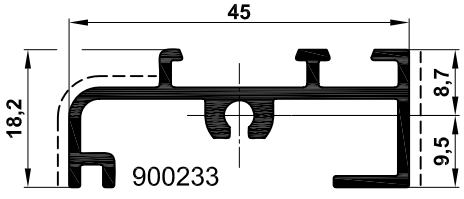

900233

Rev. : 2013
Gennaio
Juanary

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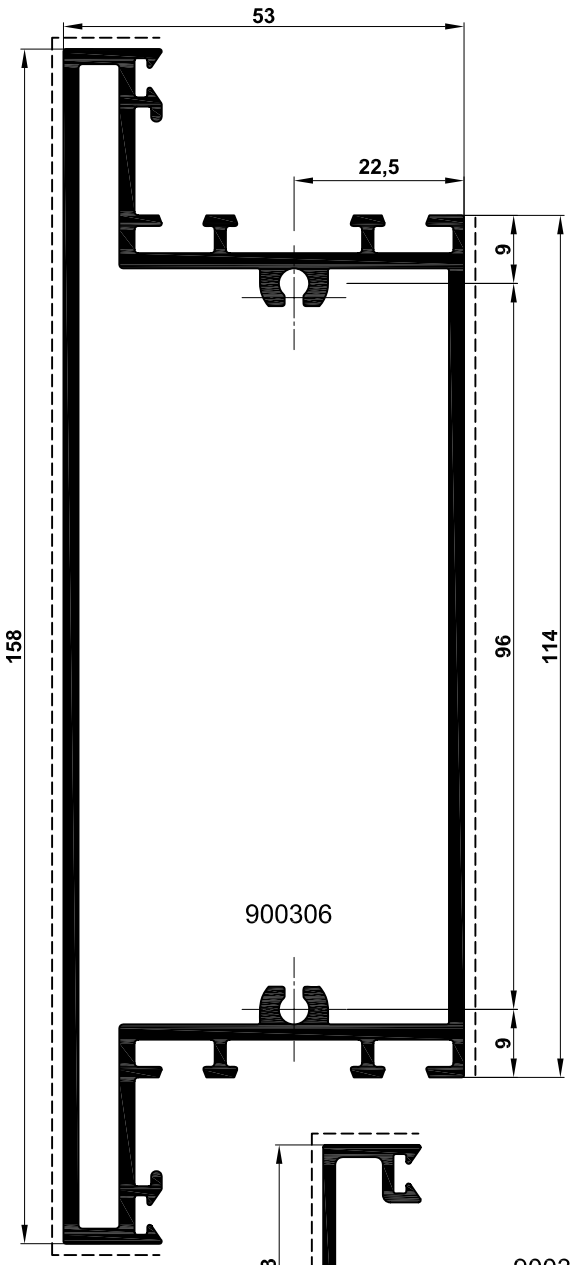

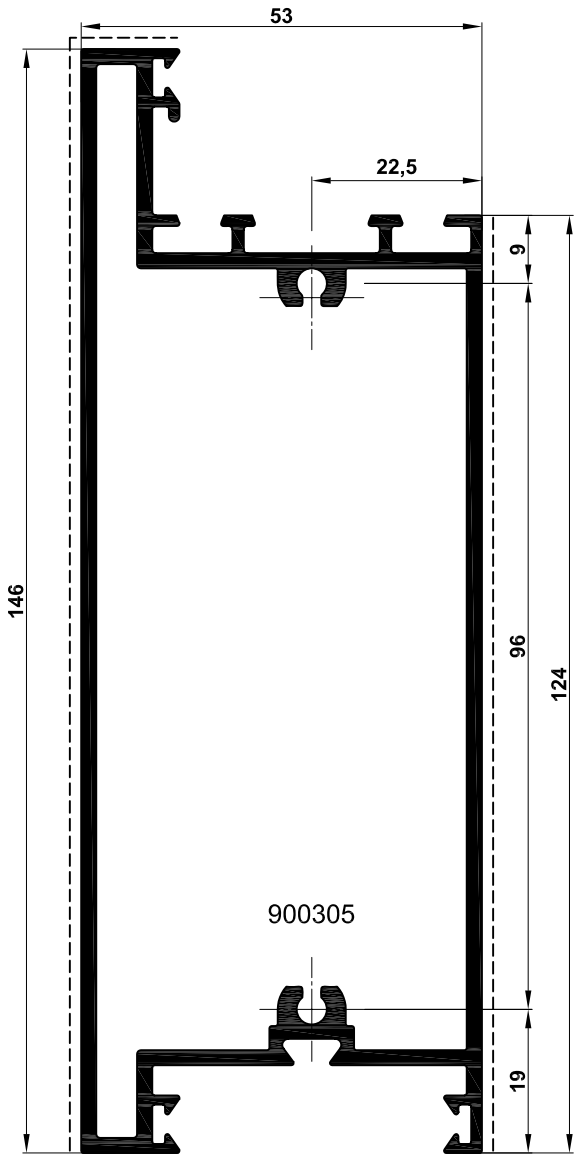

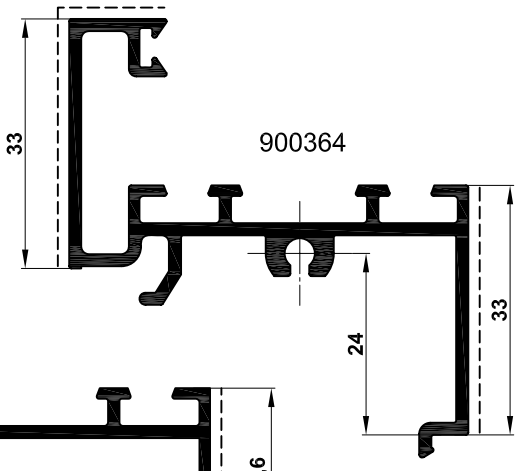

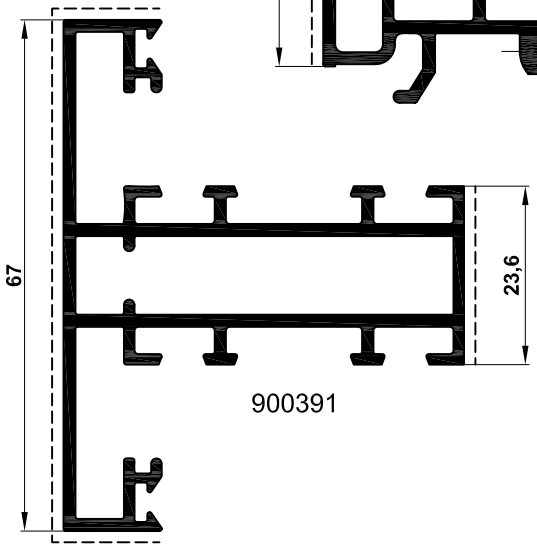

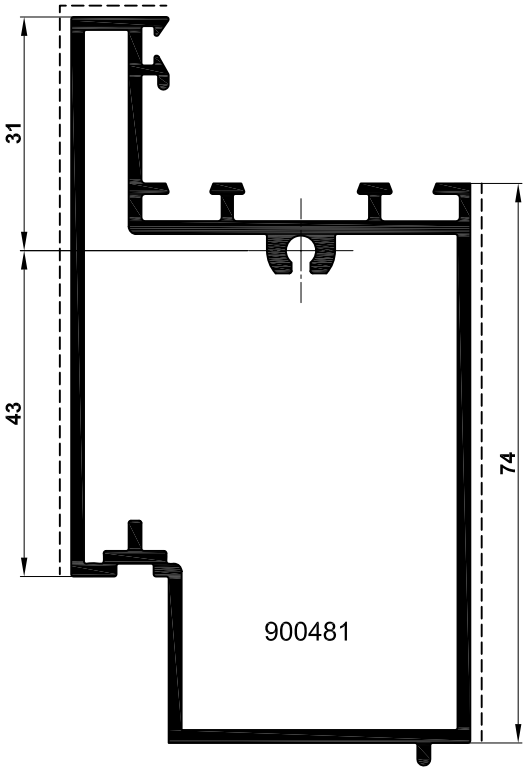

Rev. : 2007
Ottobre
October

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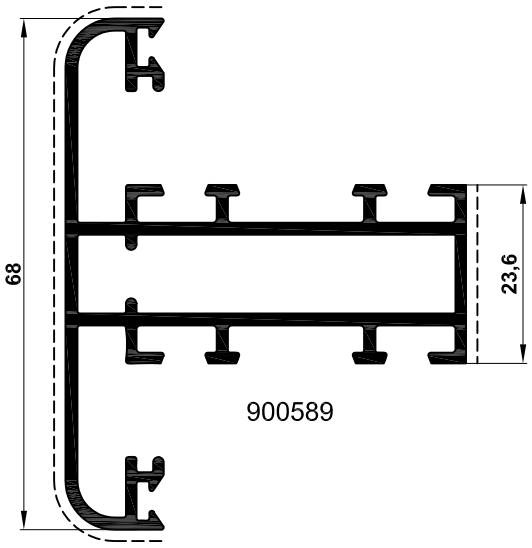

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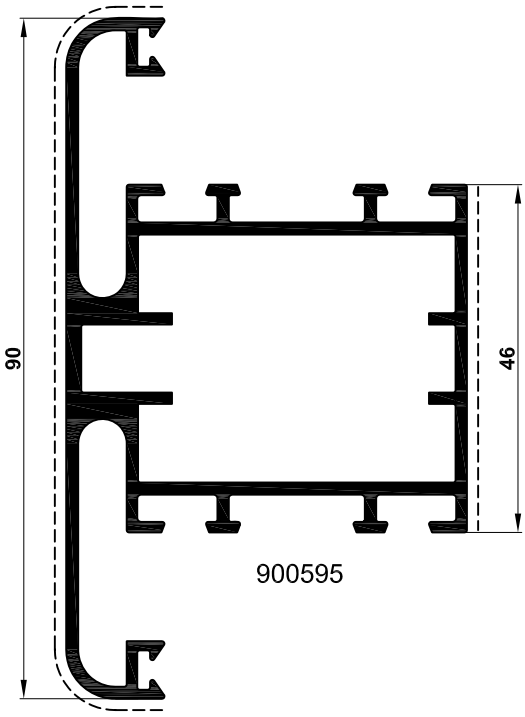

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Rev. : 2010
Settembre
September

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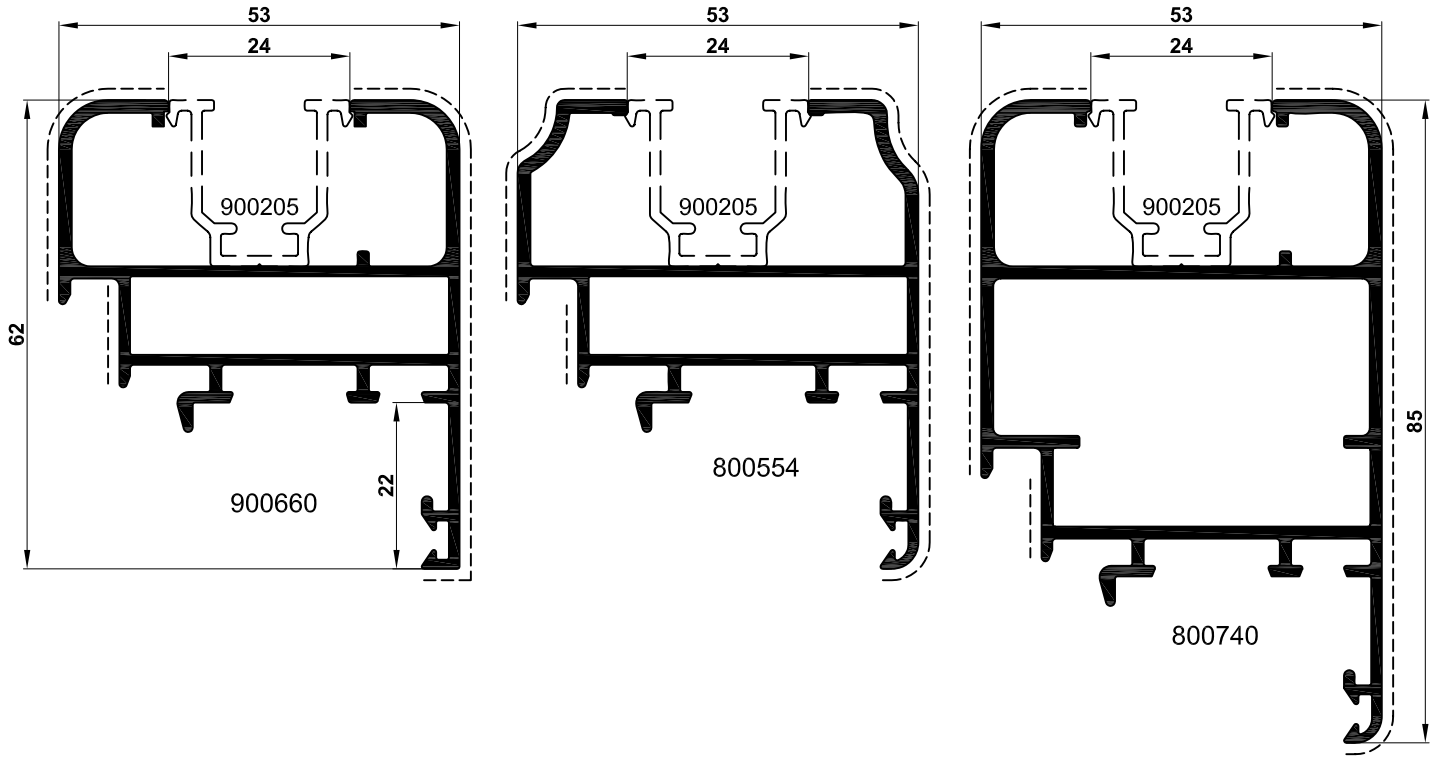

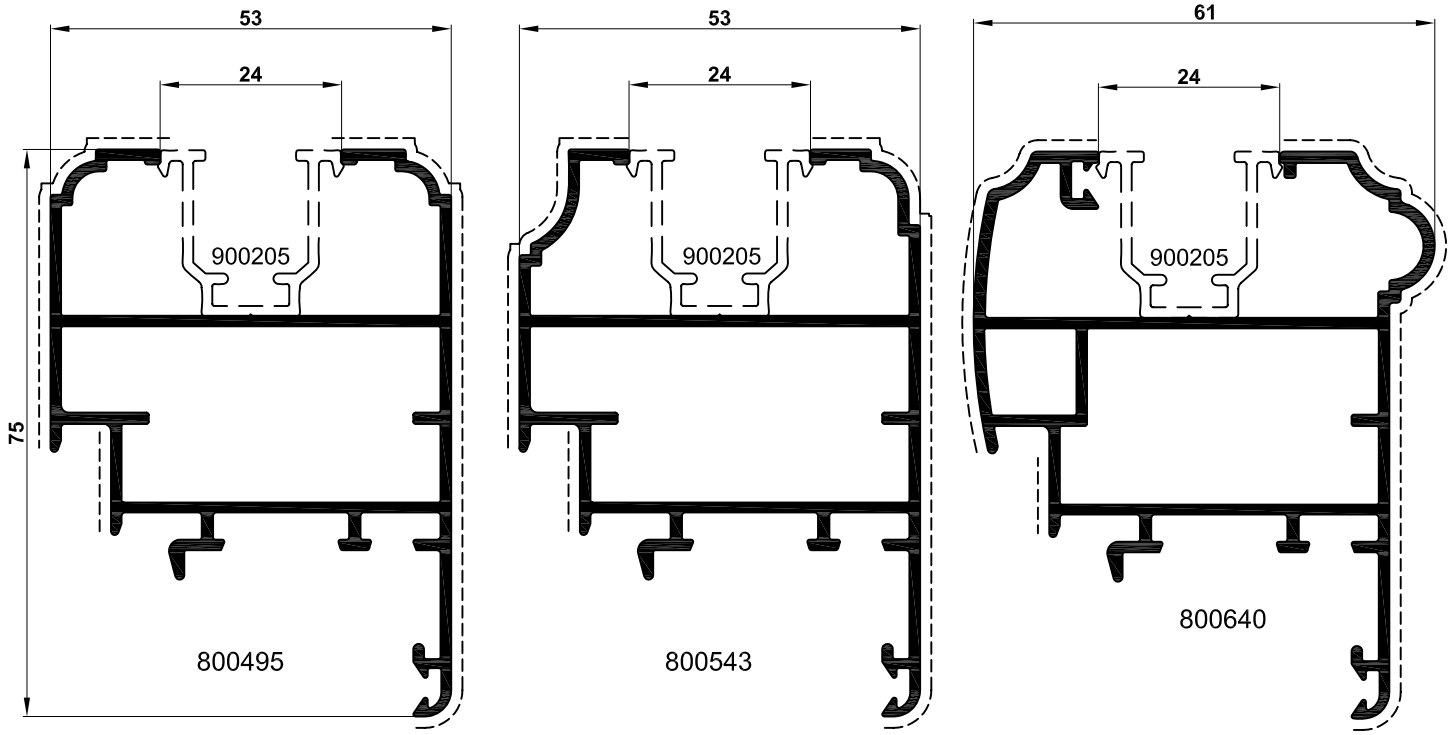

Rev. : 2007
Ottobre
October
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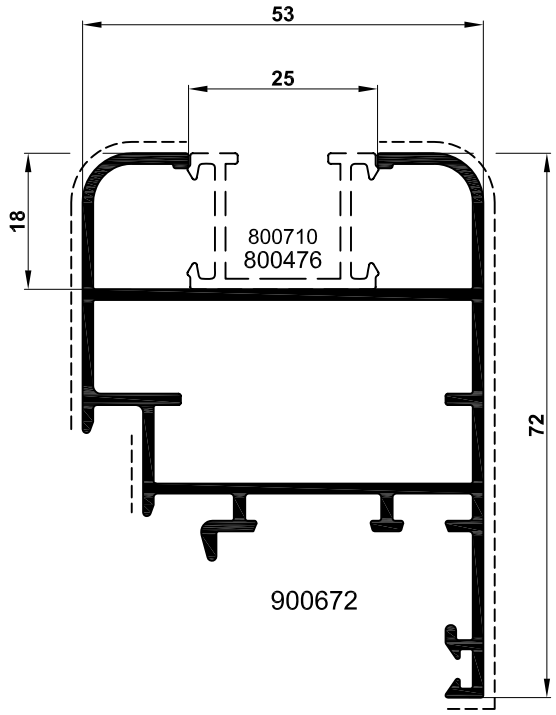
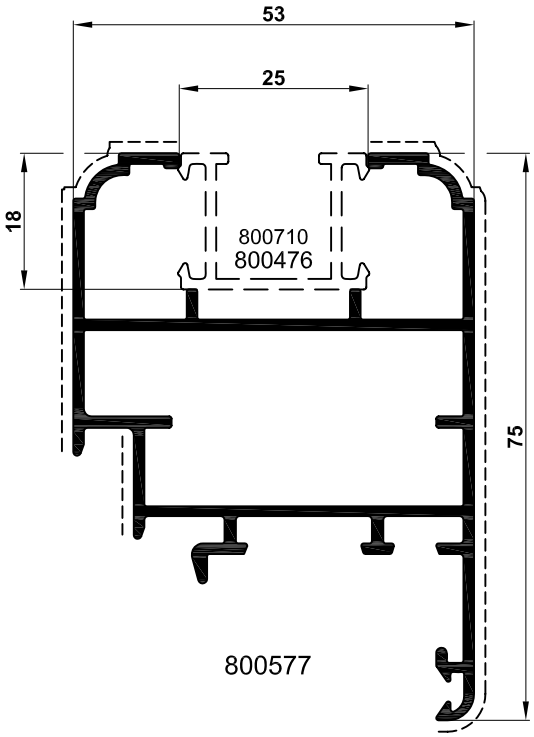
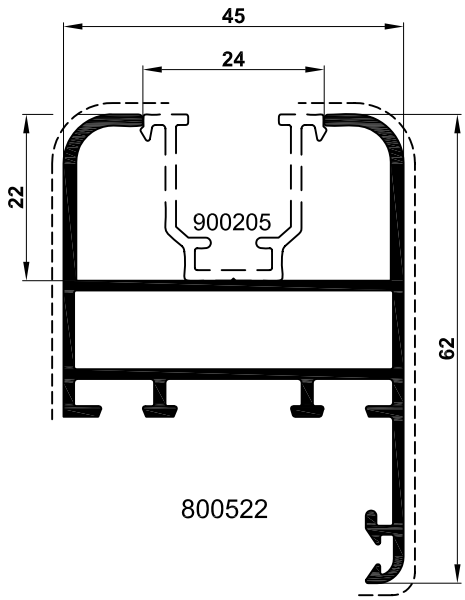
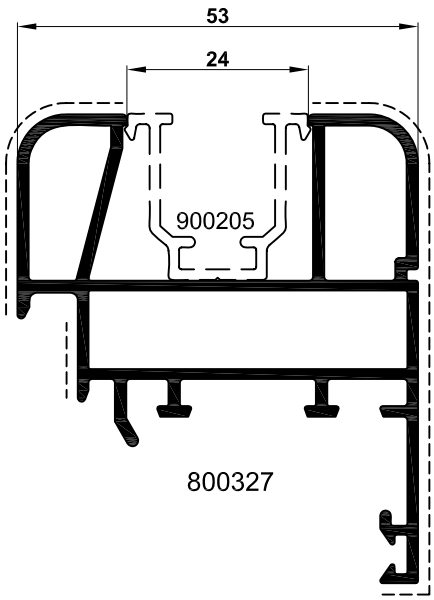
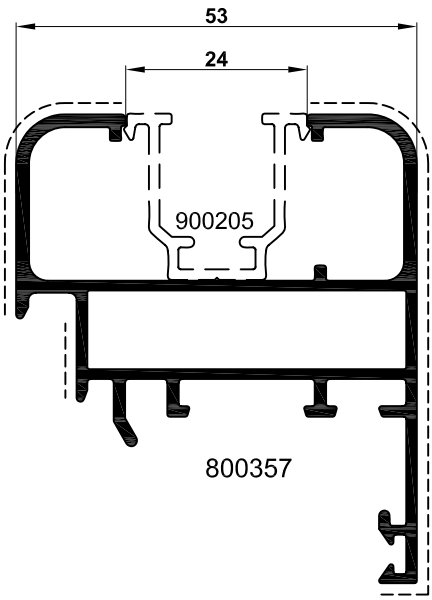




VETRO AD INFILARE E/O PERSIANA
GLASS TO INSERT AND/OR LOUVRED SHUTTER







Rev. : 2007
Ottobre
October
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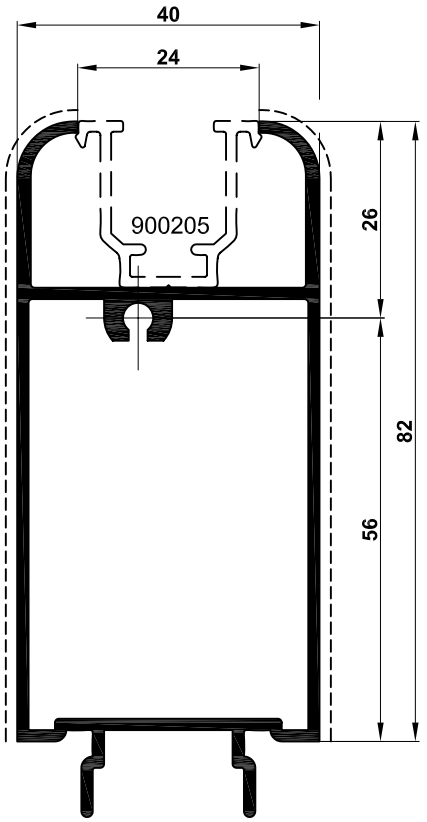

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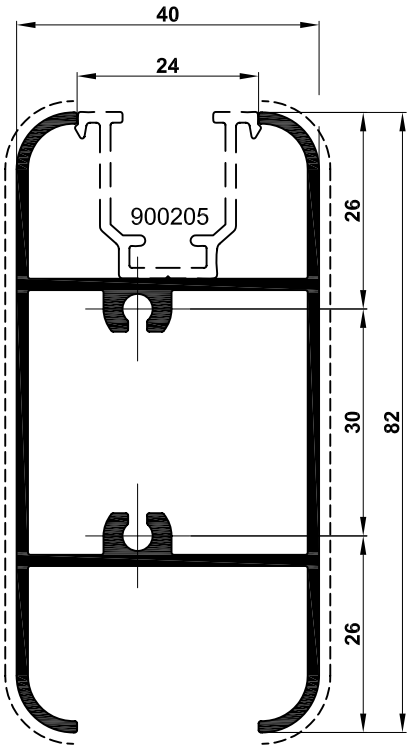

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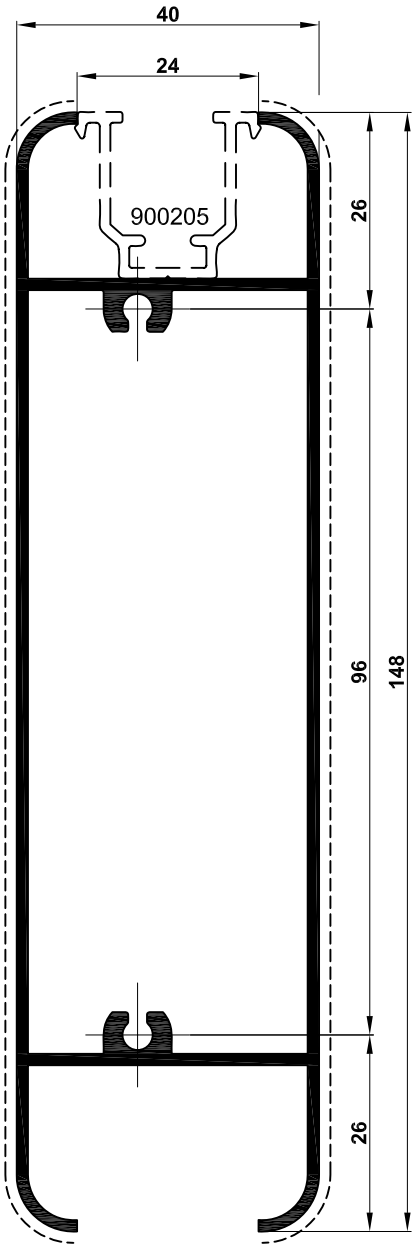

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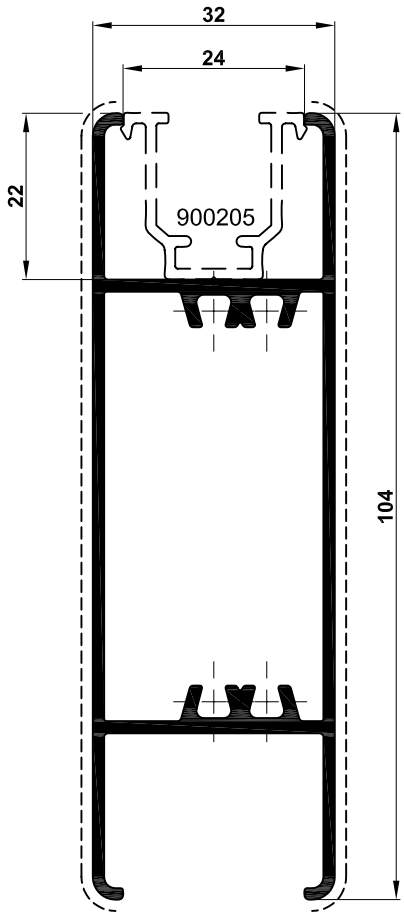

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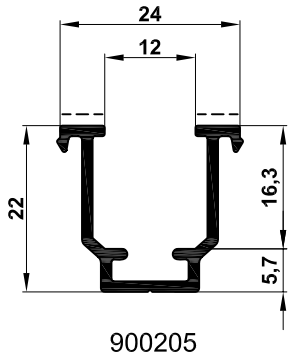

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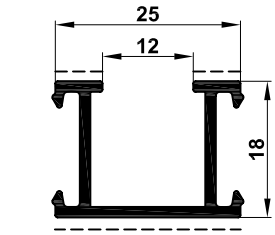

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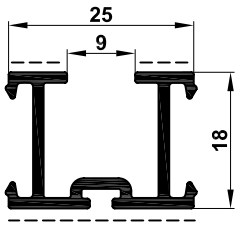

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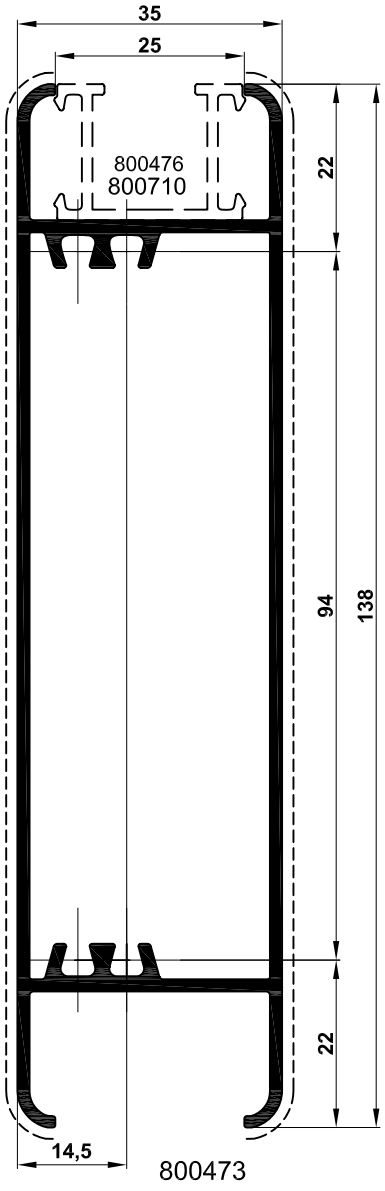

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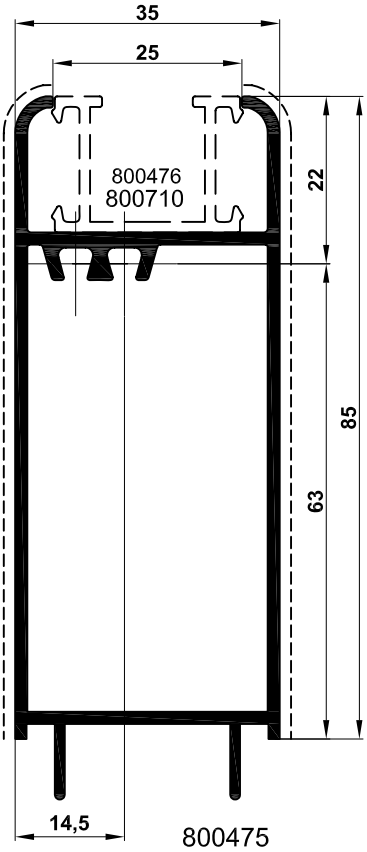

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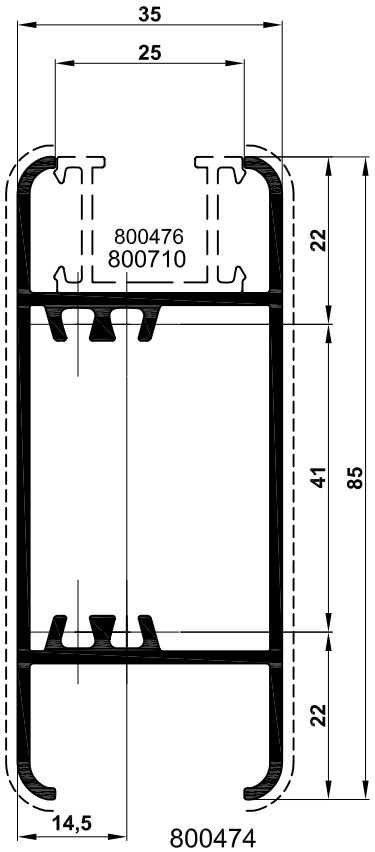
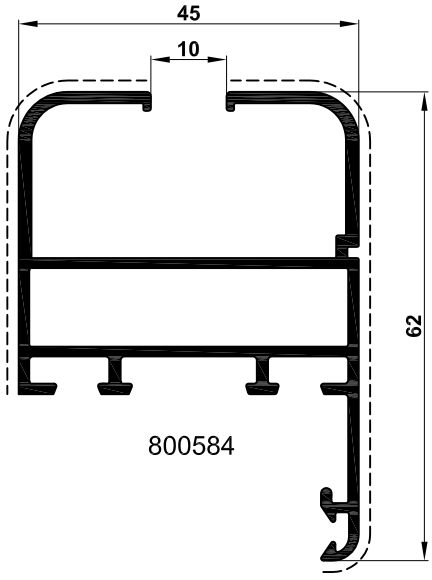


800474

VETRO AD INFILARE
GLASS TO INSERT



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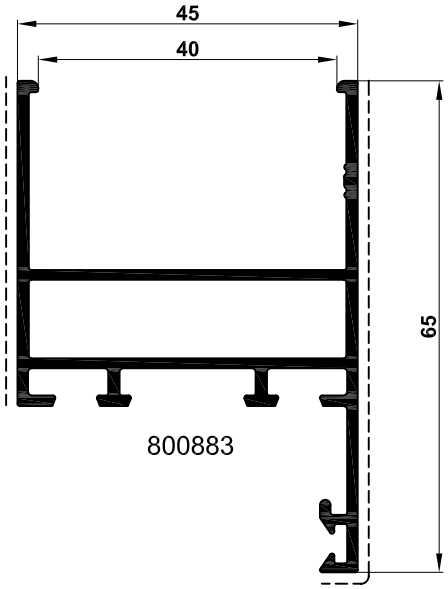

800883

Rev. : 2010
Marzo
March

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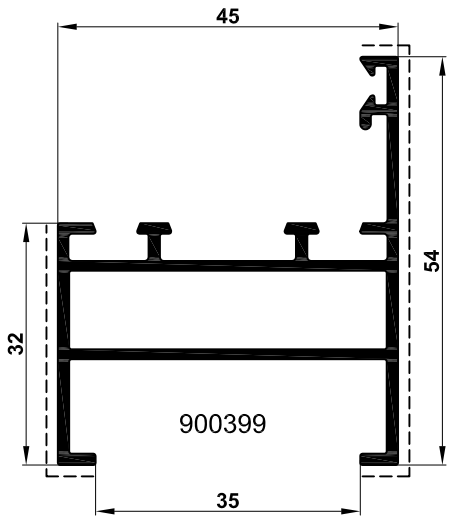

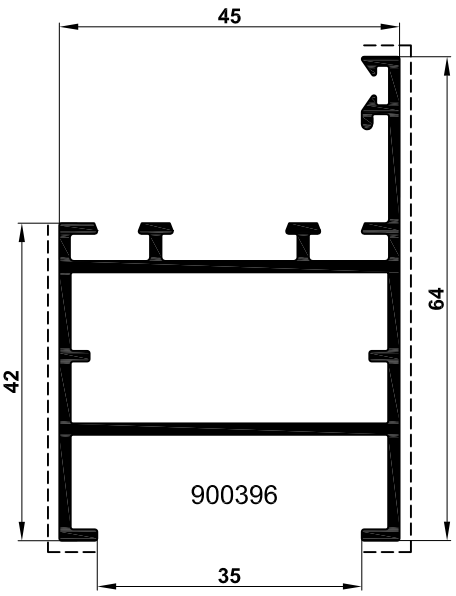

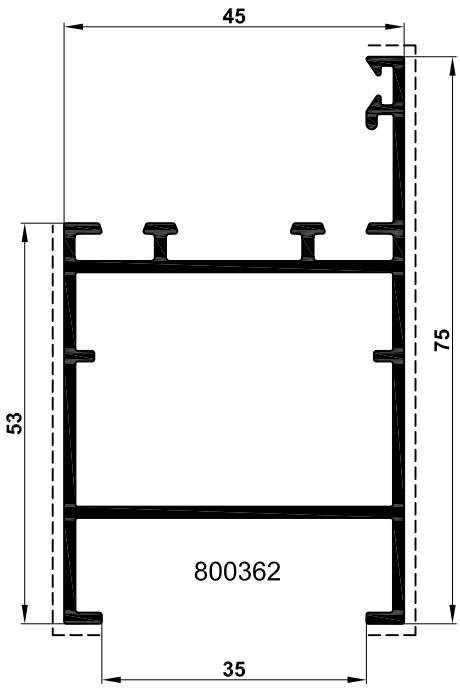

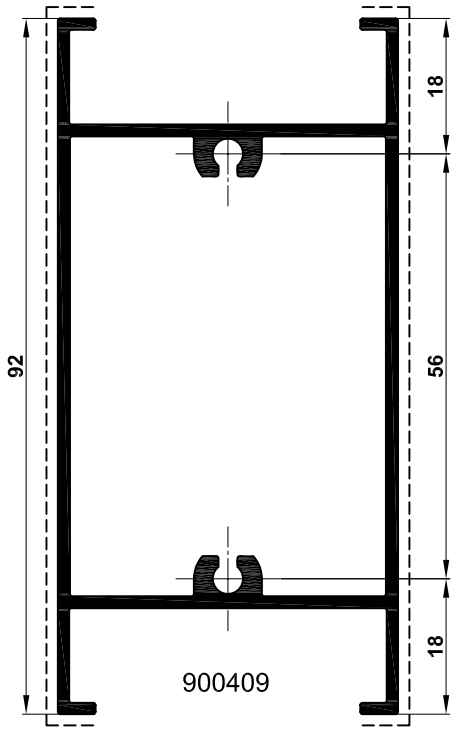

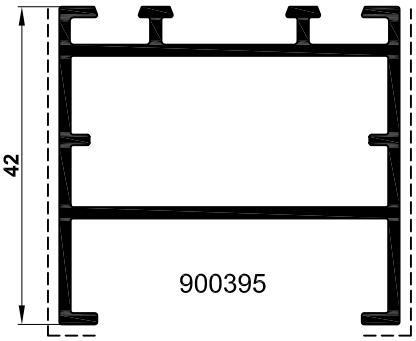

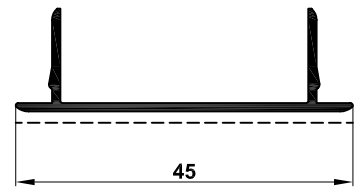

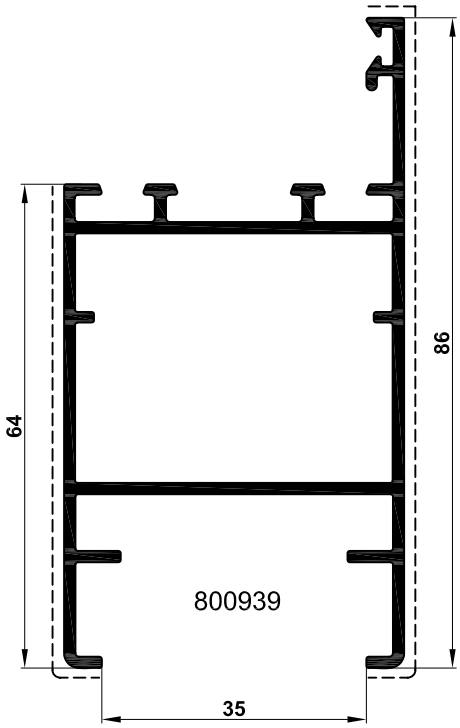

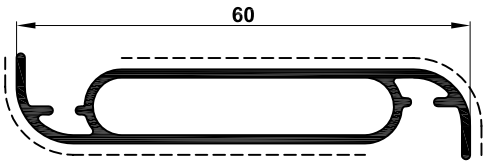

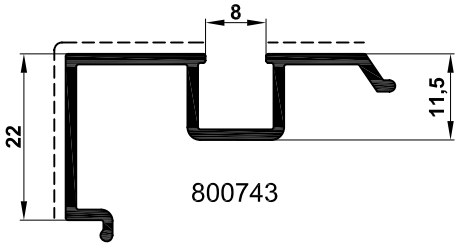

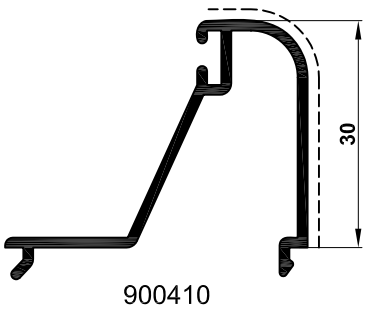

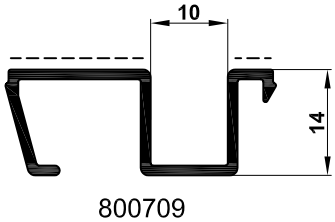

Rev. : 2013
Gennaio
January

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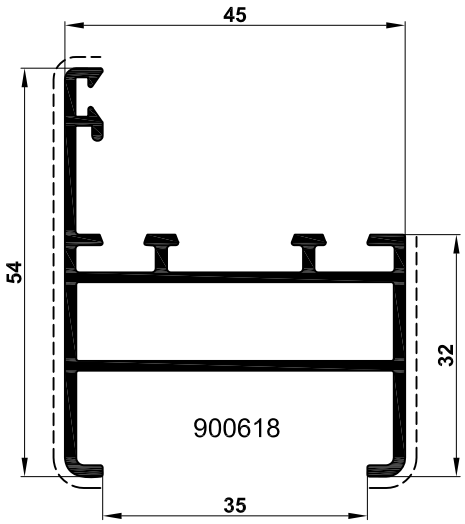

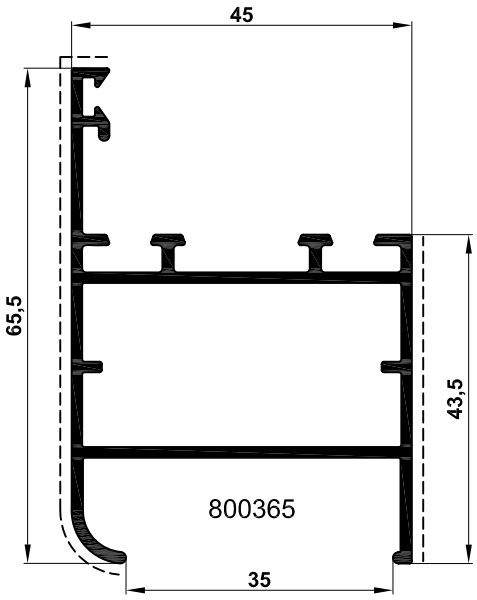

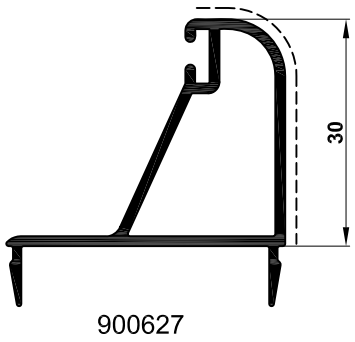

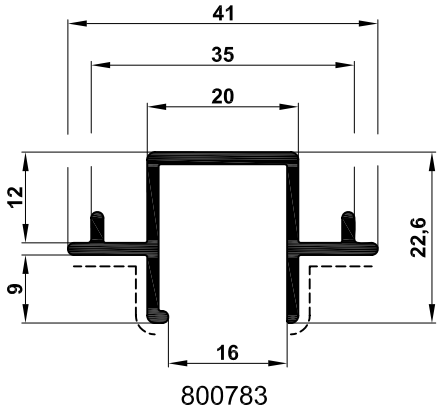

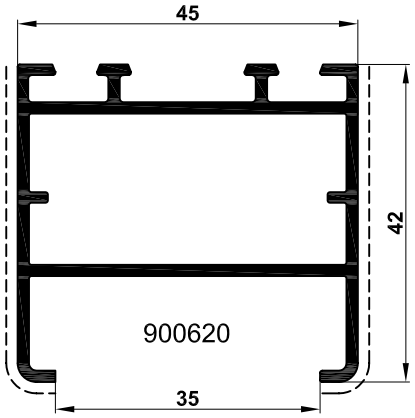

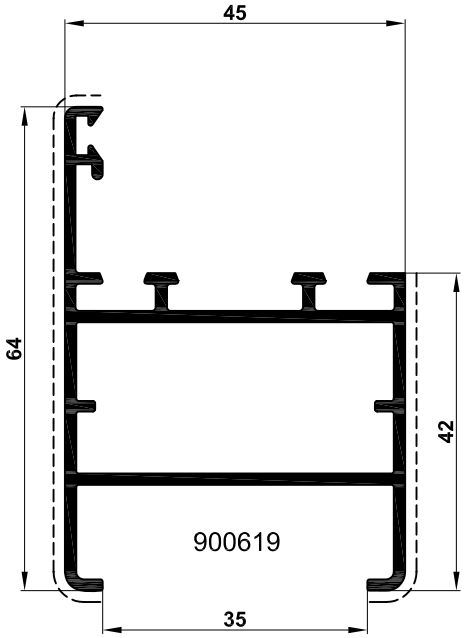

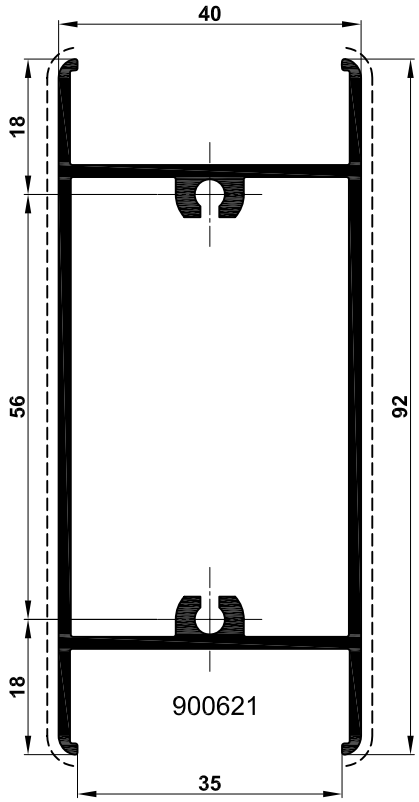

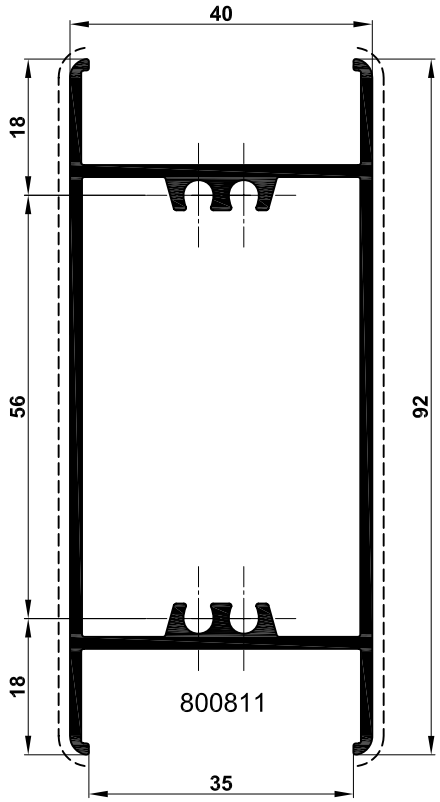

Rev. : 2007
Ottobre
October

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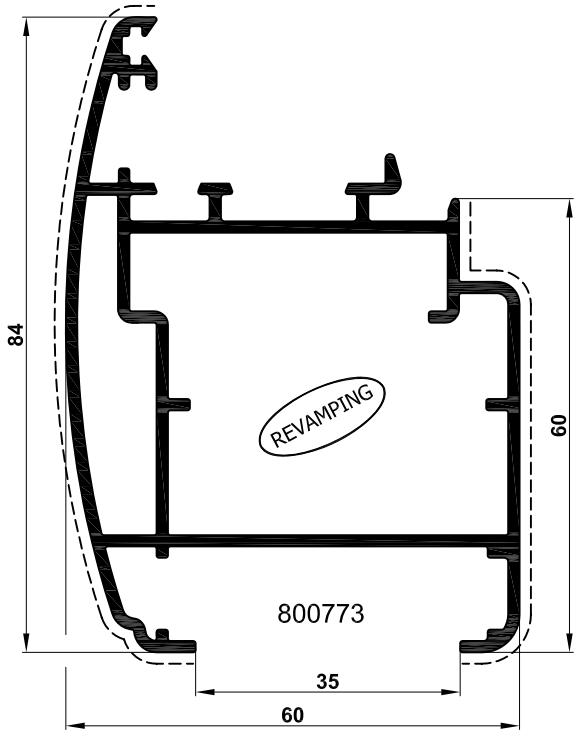
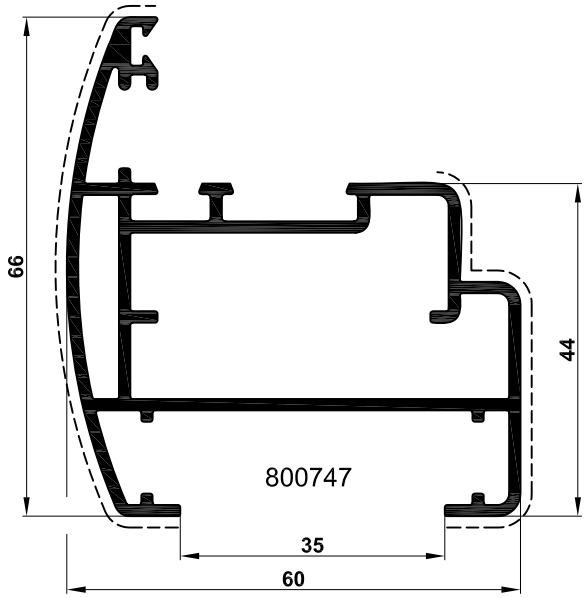
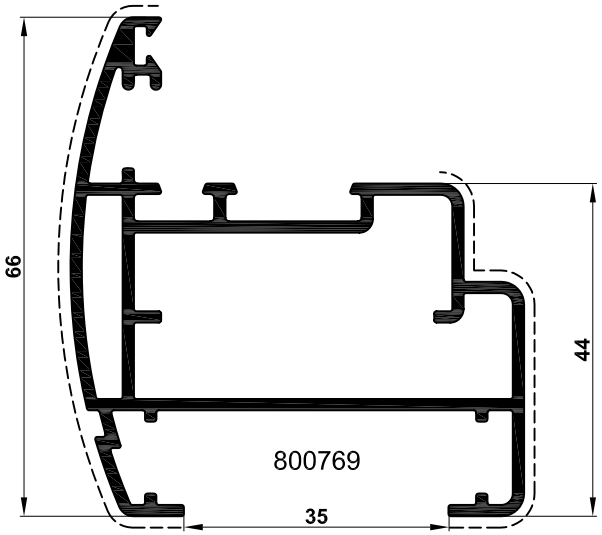
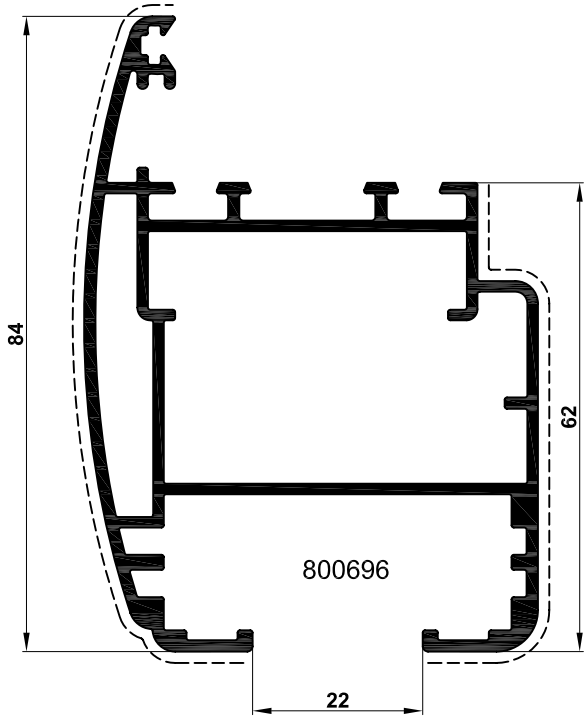
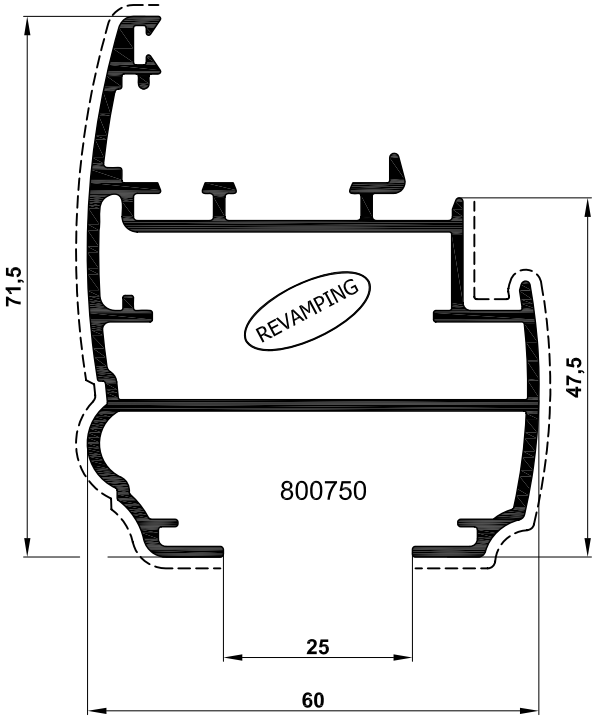






PROFILI PERSIANA
LOUVRED SHUTTER FRAMES





Rev. : 2007
Ottobre
October

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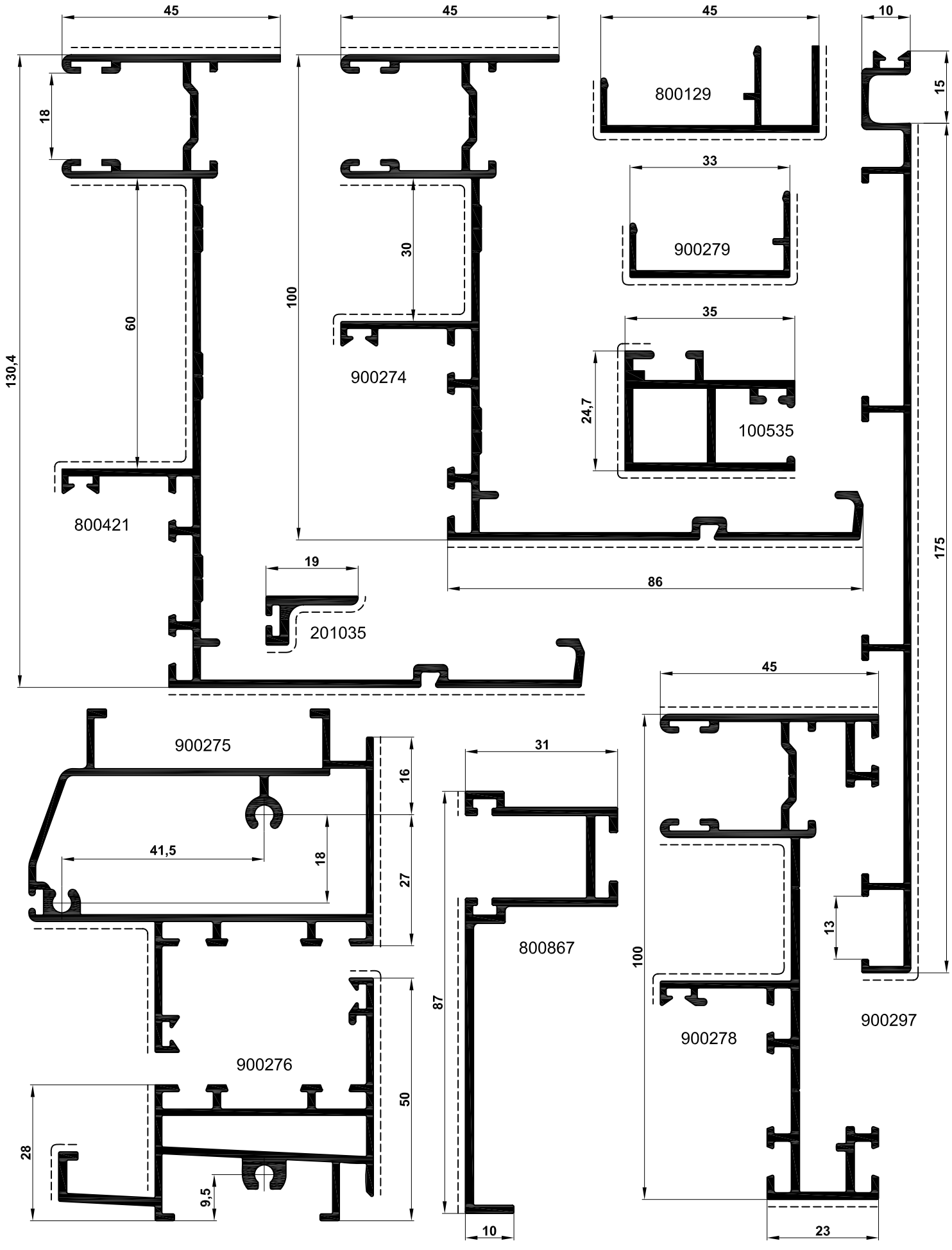

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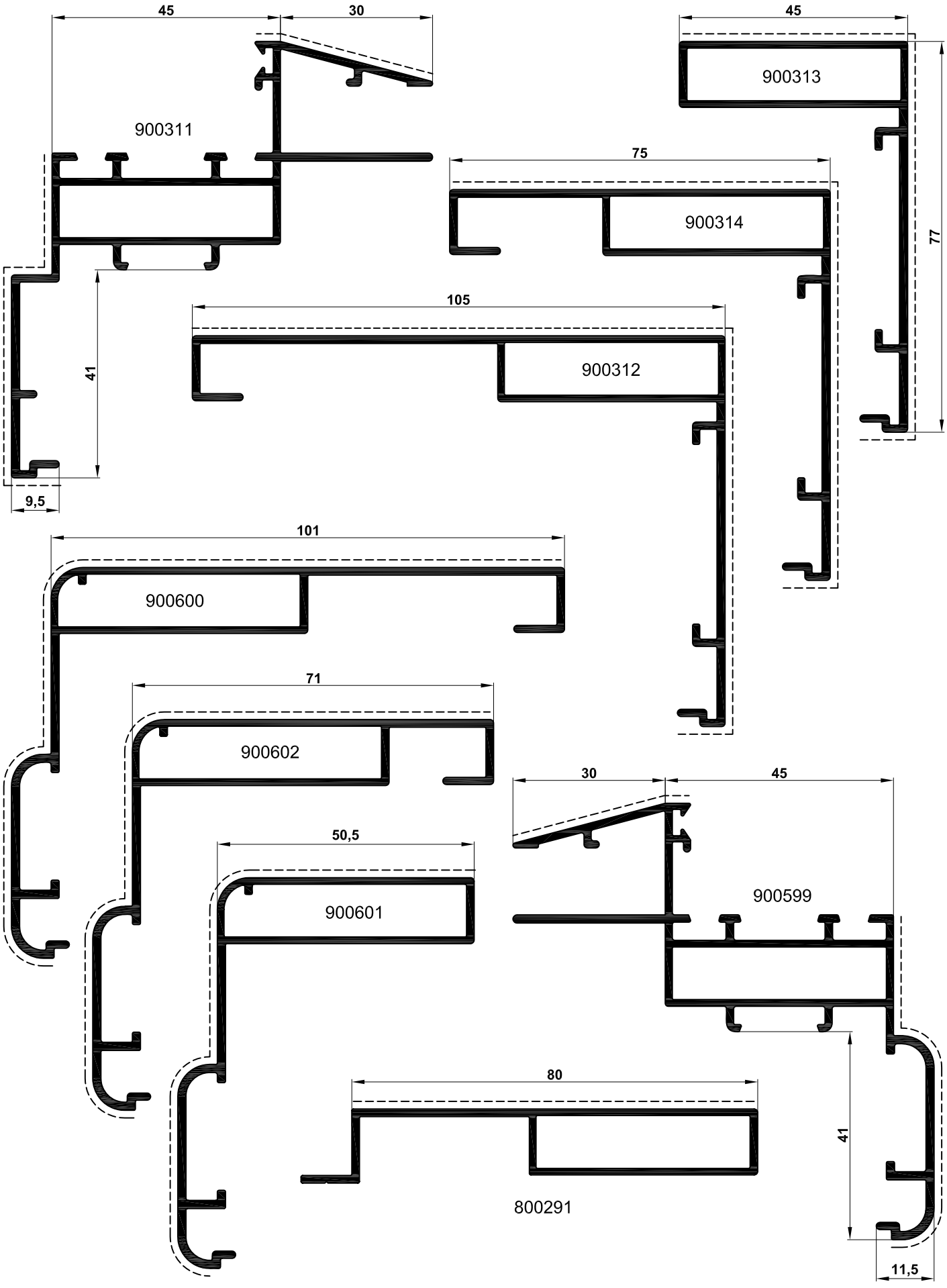

Rev. : 2007
Ottobre
October

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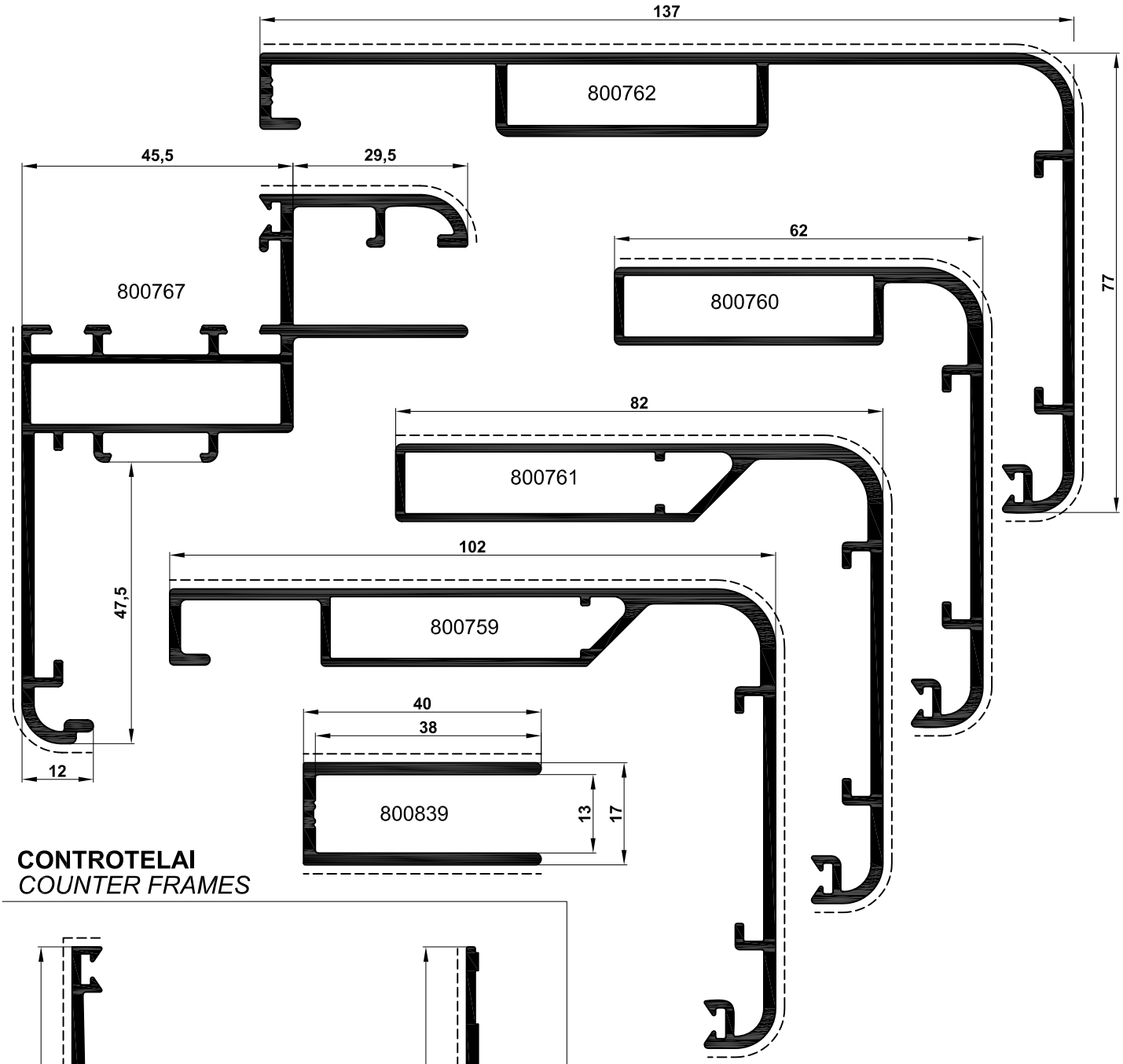
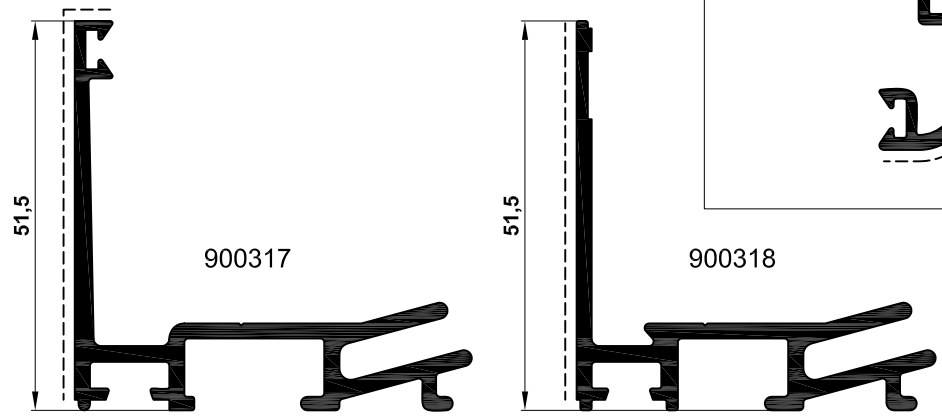
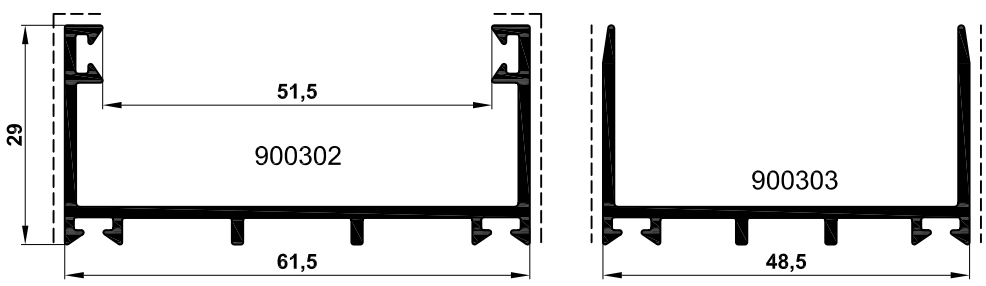
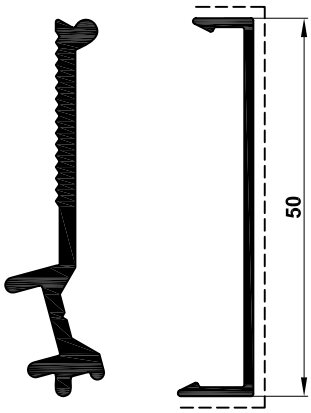


CONTROTELAI
COUNTER FRAMES







Rev. : 2010
Marzo
March

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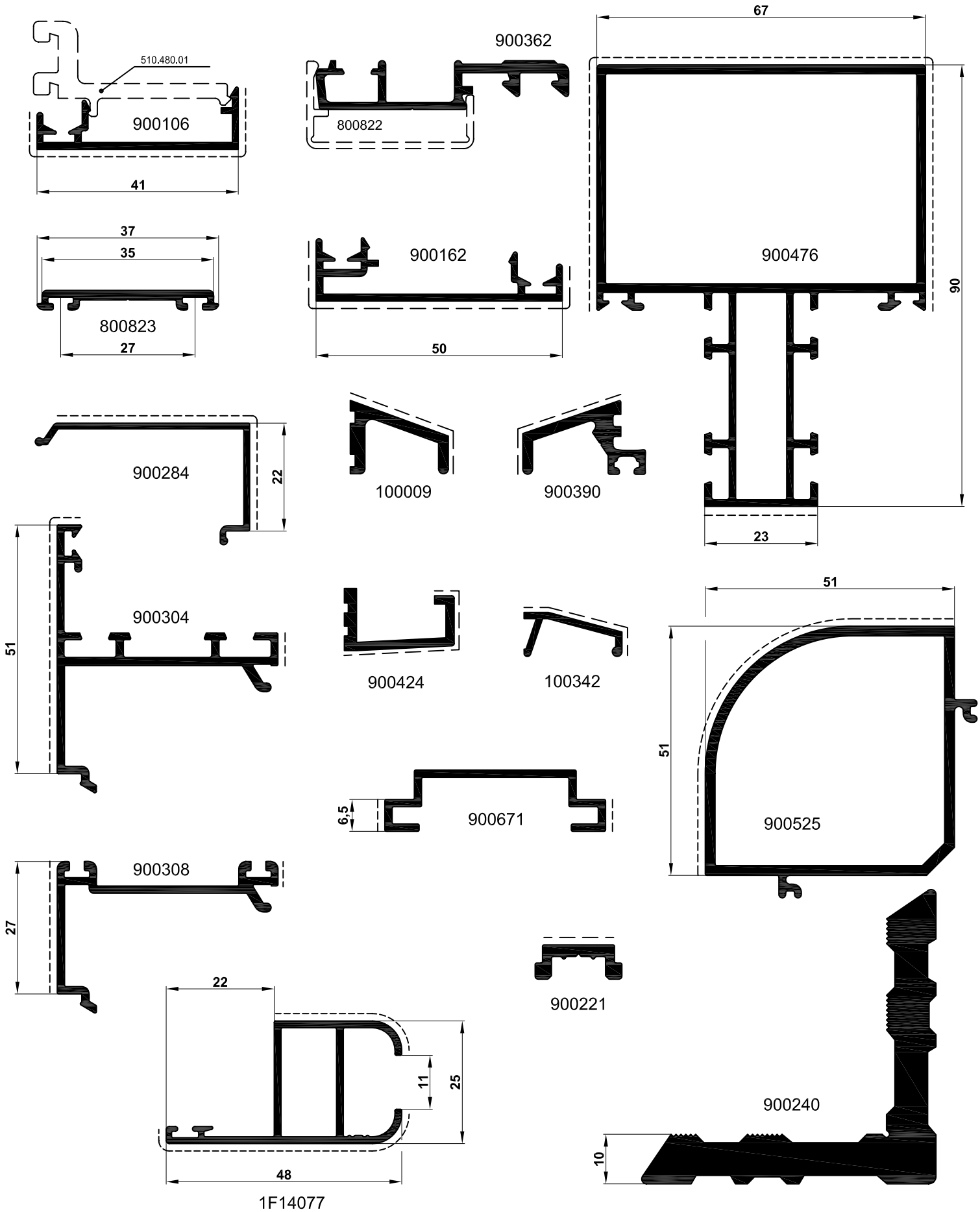

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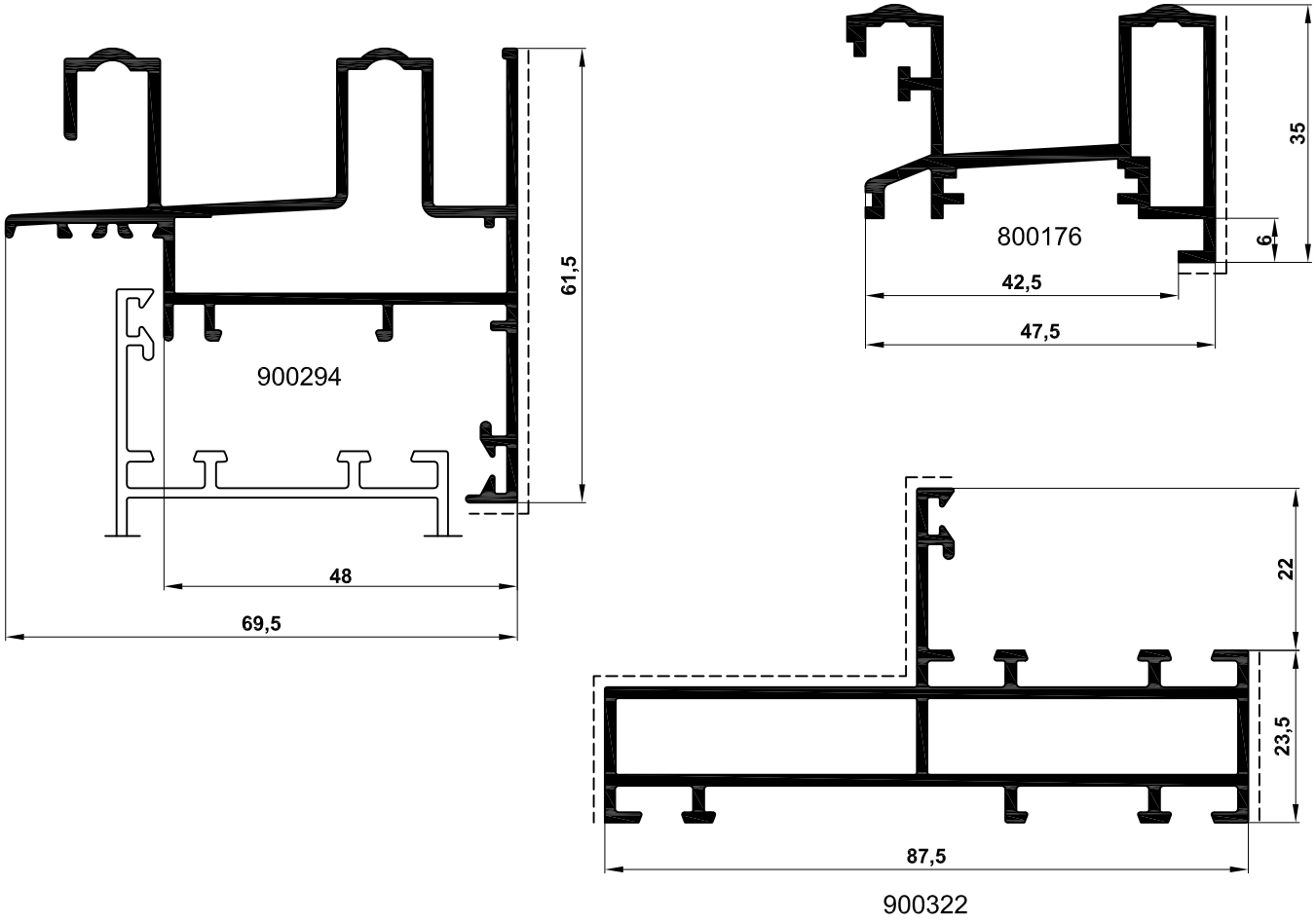
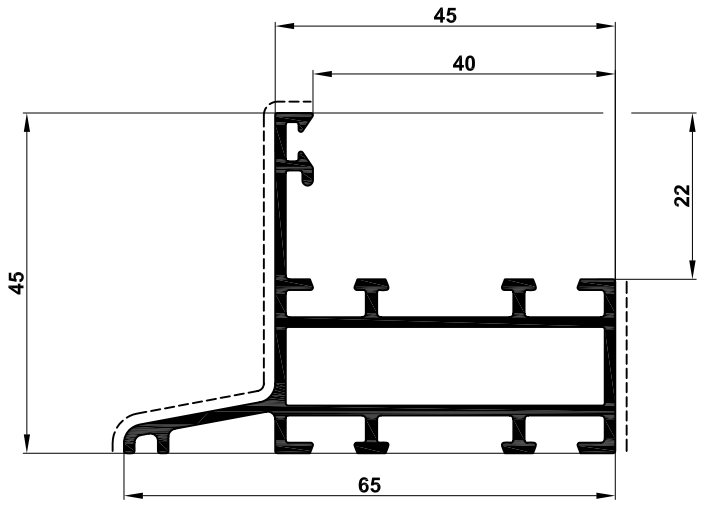


900322

PER ABBINAMENTO WIN 65s
IN COMBINATION WITH WIN 65s



800785

Rev. : 2007
Ottobre
October

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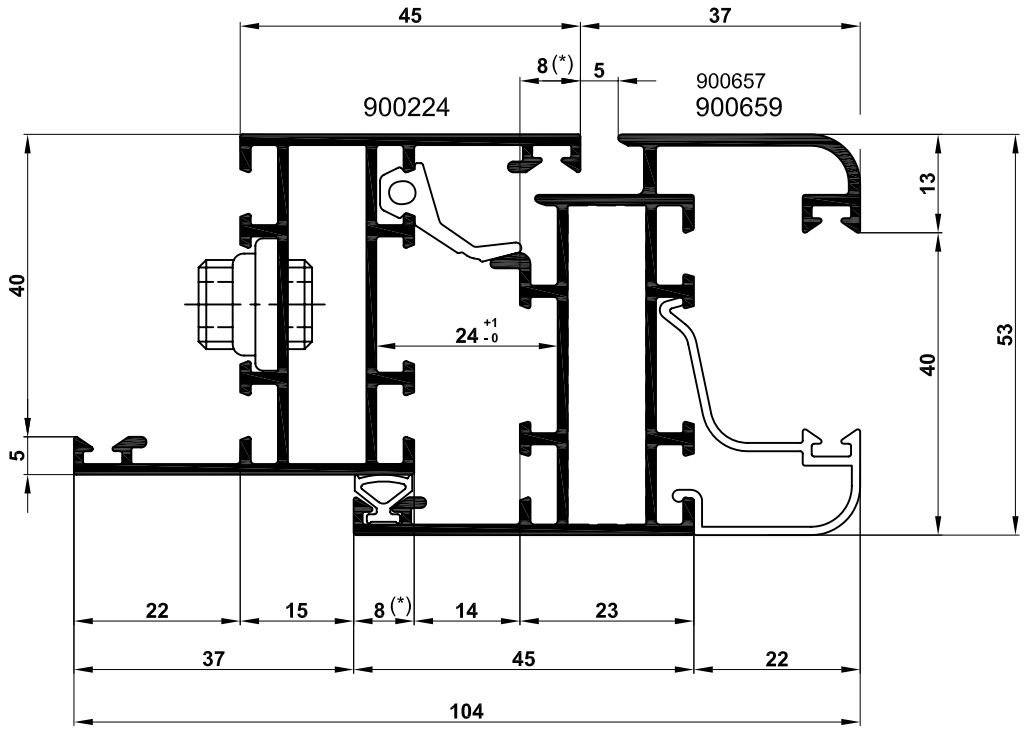

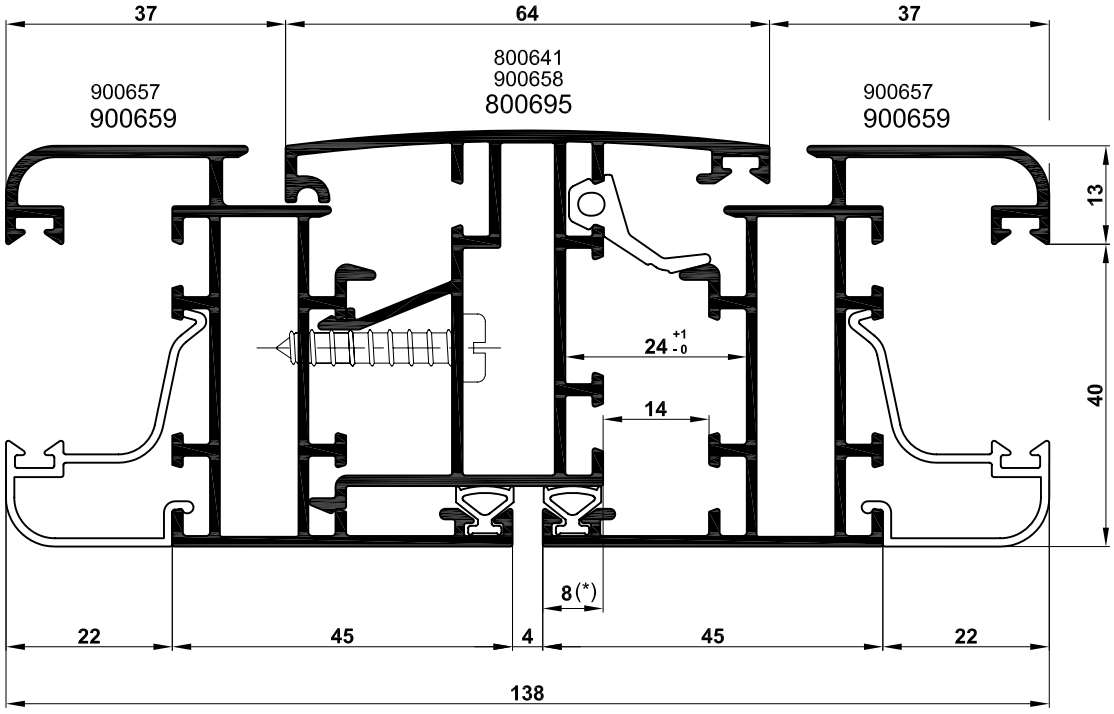

- Sezioni tipiche finestra, porta a battente e anta ribalta.
  Typical sections of window, door and tilt and turn.
- Per distinte di taglio e inserimento accessori, tenere presente questo schema
  Take this diagram into consideration for cut and accessories

* Per anta ribalta "Rbalta 150" , considerare 7,5 mm
For "Rbalta 150" tilt and turn, have to consider 7,5 mm

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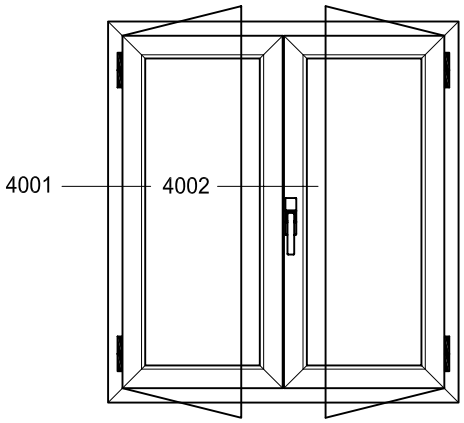
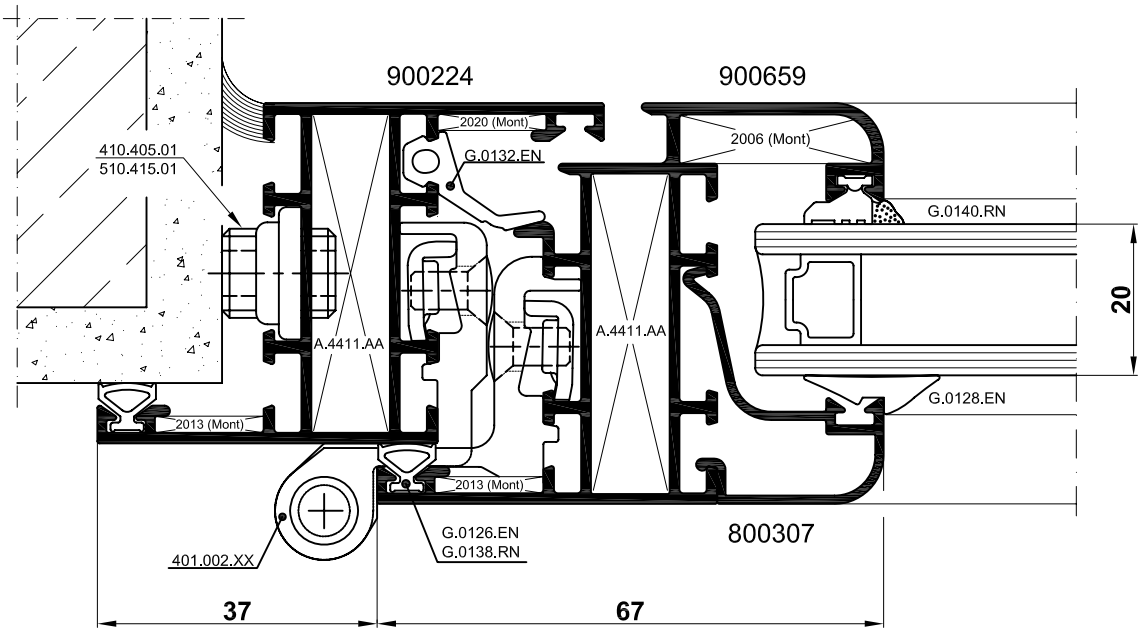


SEZ. 4001



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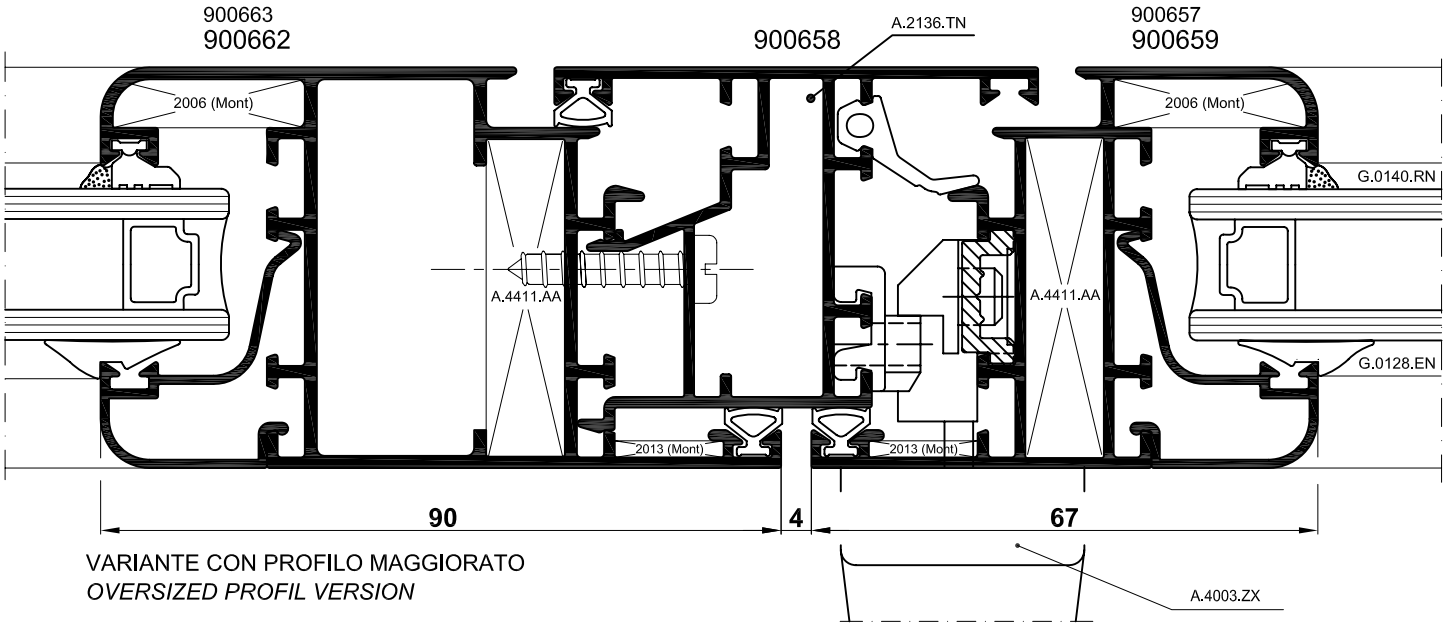

VARIANTE CON PROFILO MAGGIORATO
OVERSIZED PROFIL VERSION

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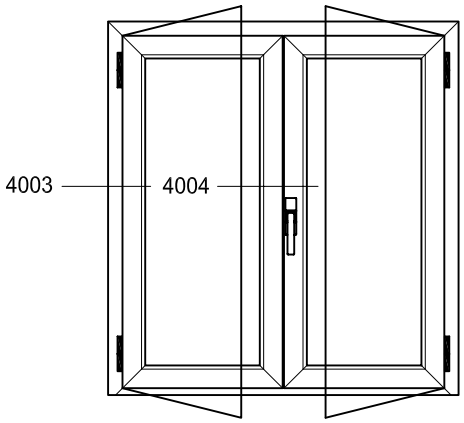

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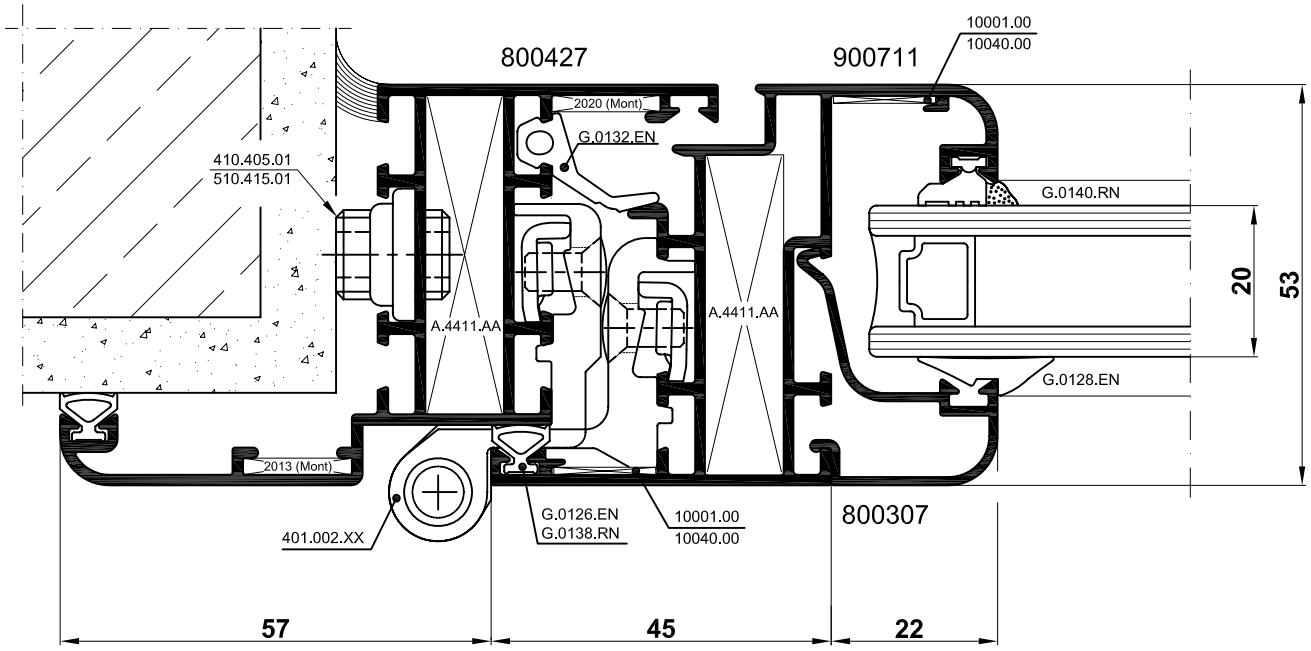

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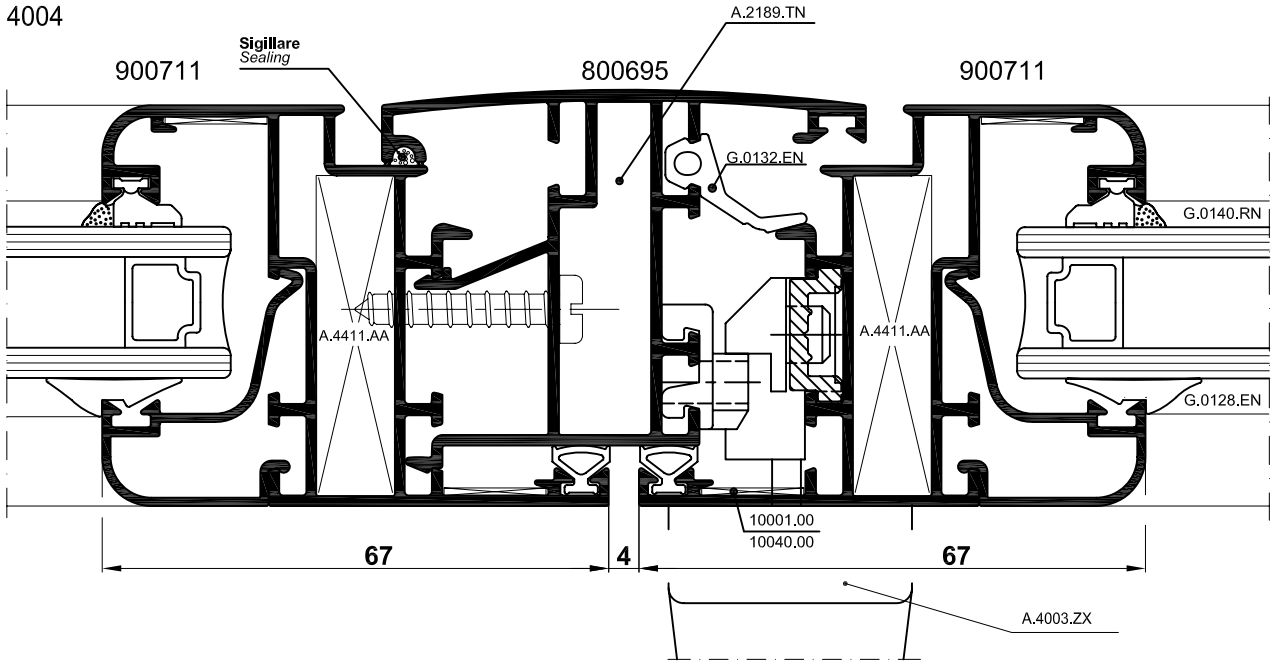

Rev. : 2013
Gennaio
January

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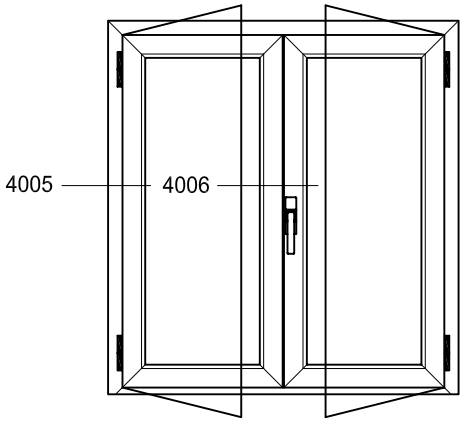
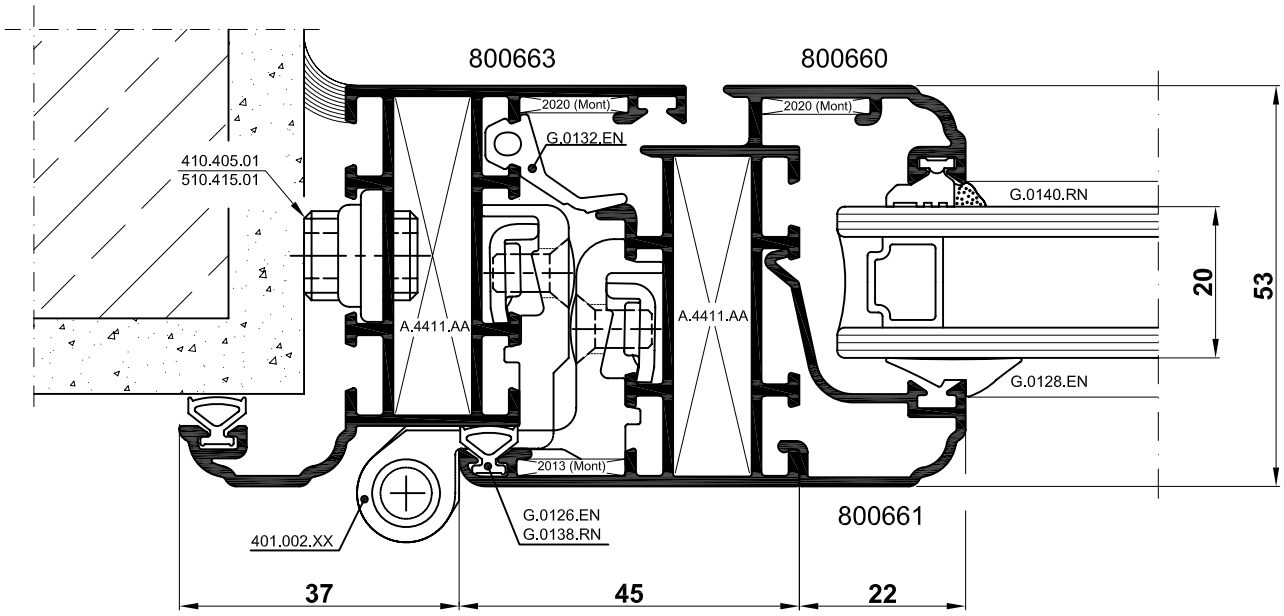
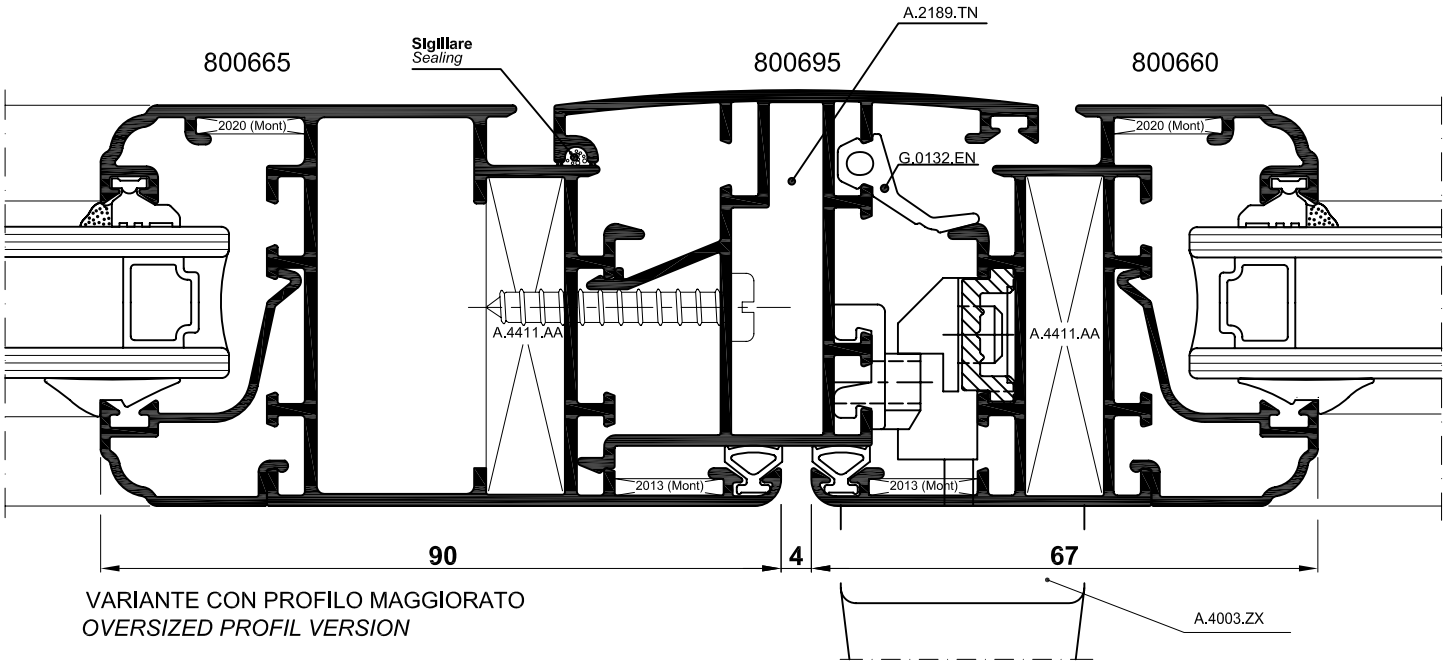


SEZ. 4005



SEZ. 4006



VARIANTE CON PROFILO MAGGIORATO
OVERSIZED PROFIL VERSION

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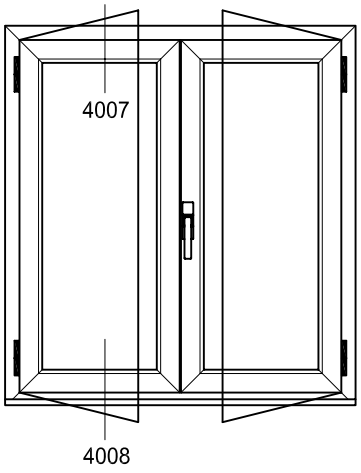

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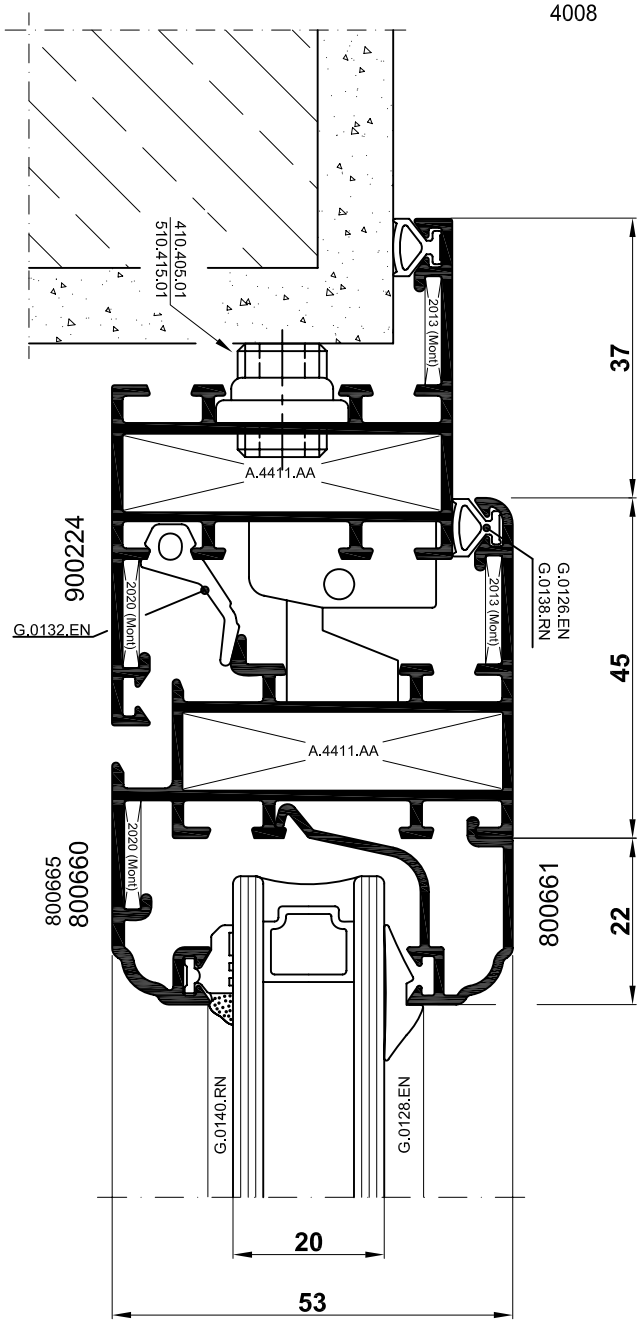
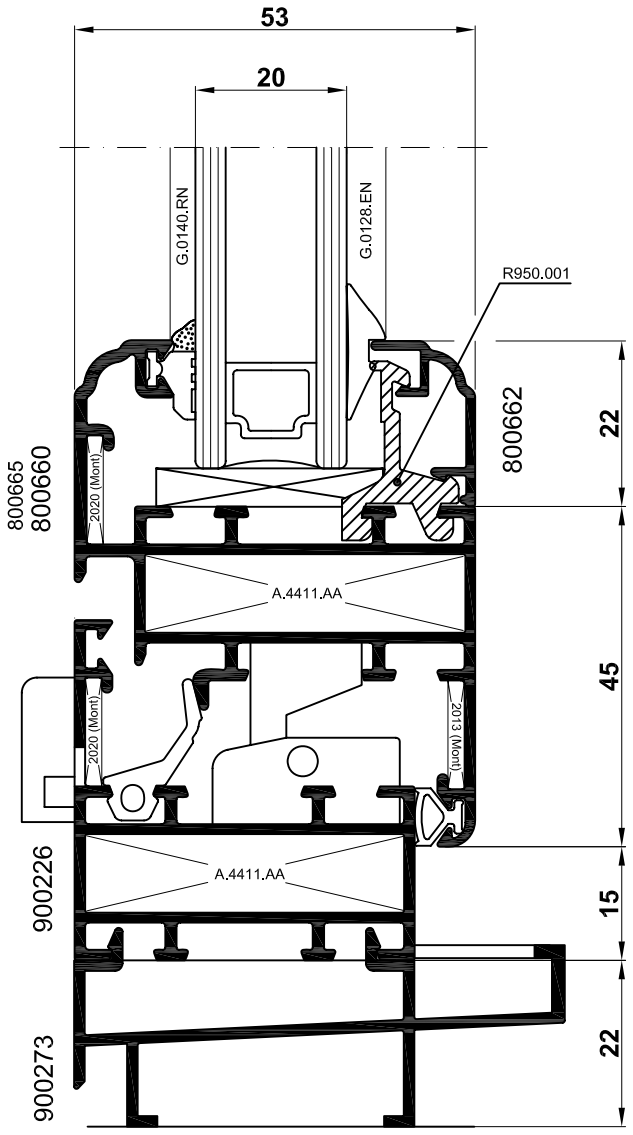


SEZ. 4008



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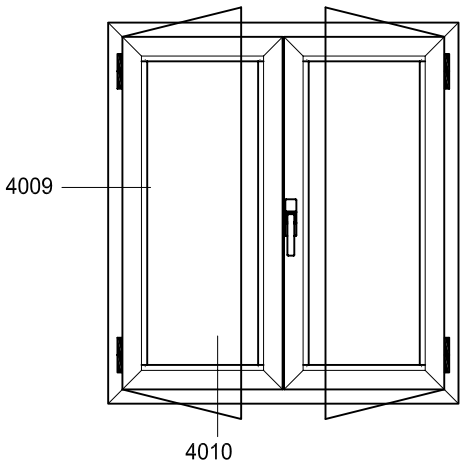
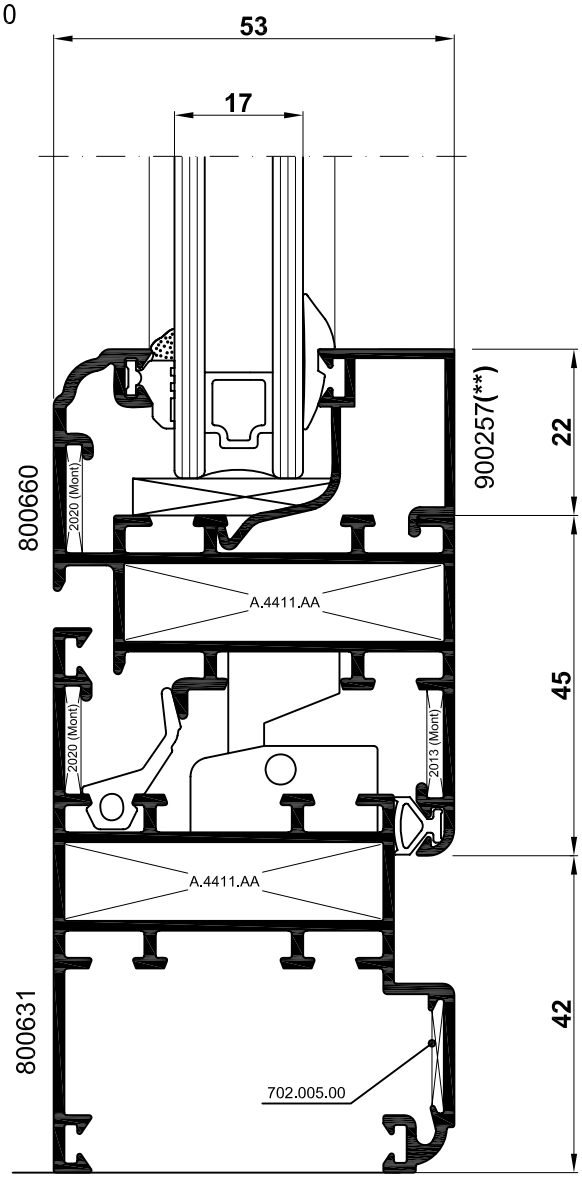


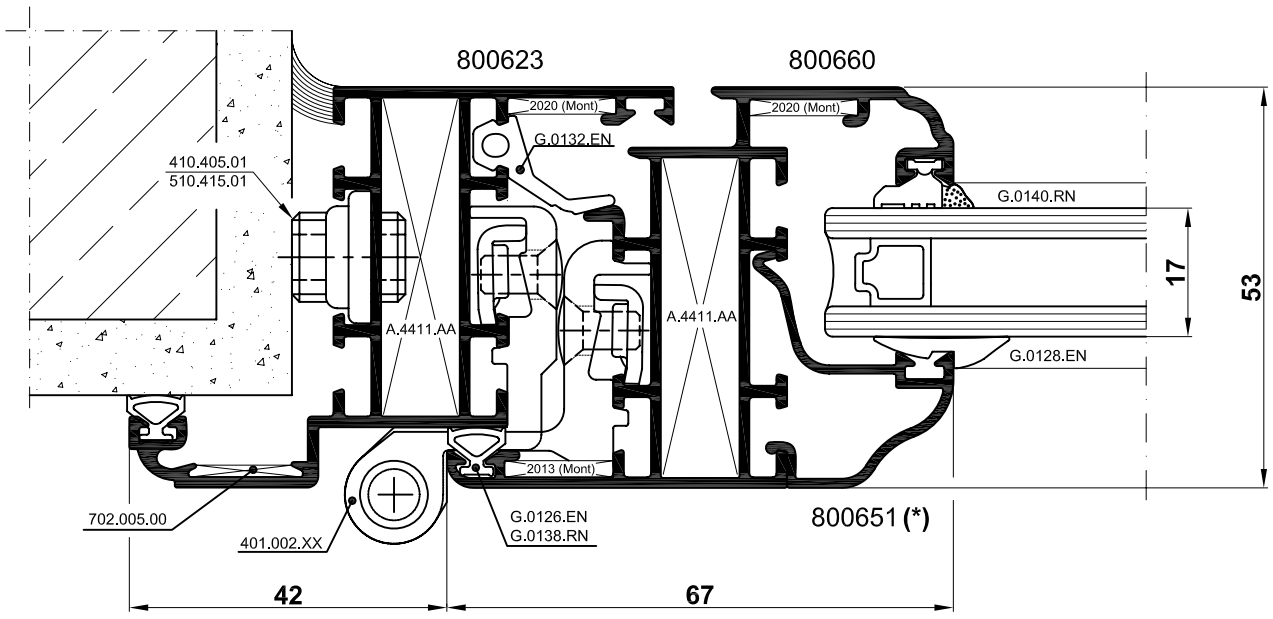
SEZ. 4010



(*) COME FERMAVETRO VERTICALE
USARE PROFILO 800651
(*) FOR VERTICAL GLAZING BEADS
USE PROFILE 800651

(**) COME FERMAVETRO ORIZZONTALE
USARE PROFILO 900257
(**) FOR HORIZONTAL GLAZING BEADS
USE PROFILE 900257

SEZ. 4009



Rev. : 2013
Gennaio
January

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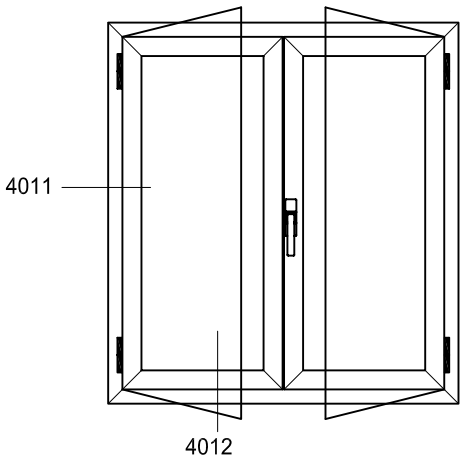
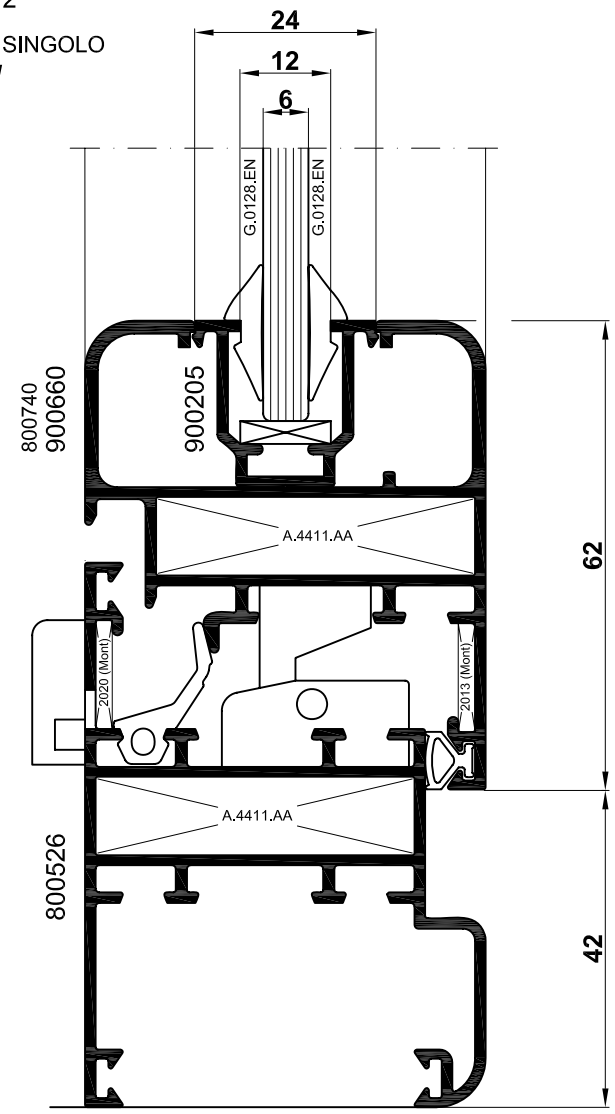
SEZ. 4012

VARIANTE CON VETRO SINGOLO
MONO GLASS VERSION





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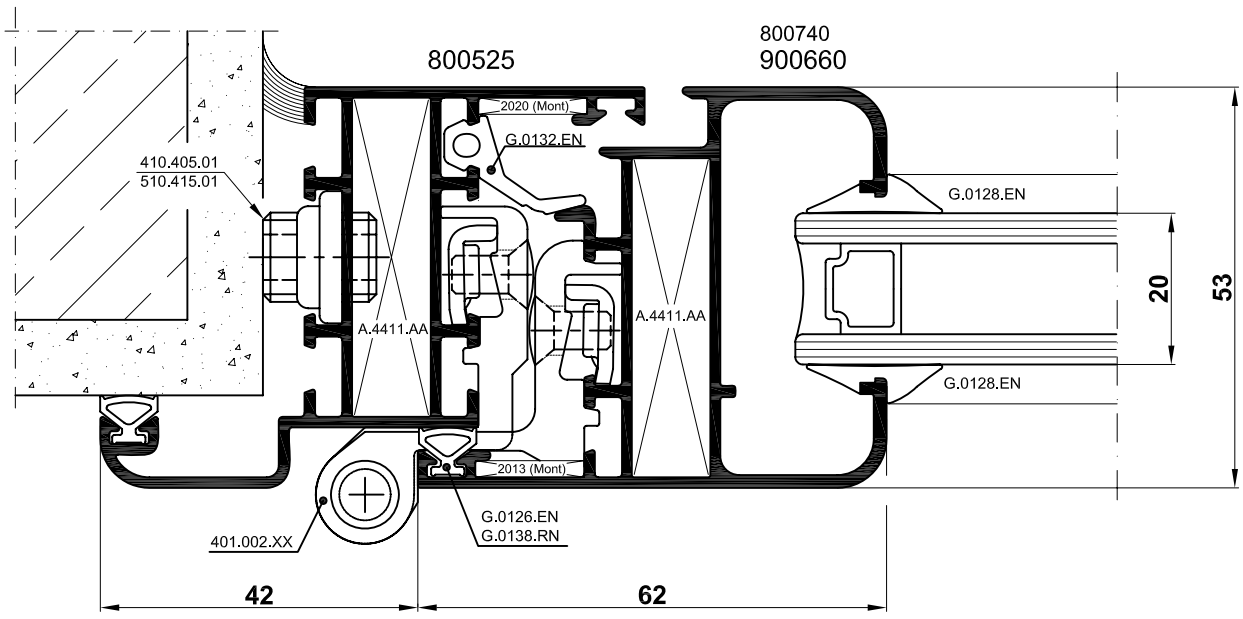

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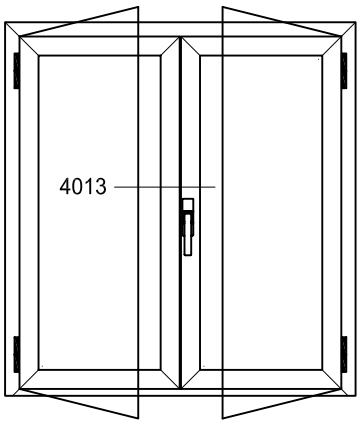

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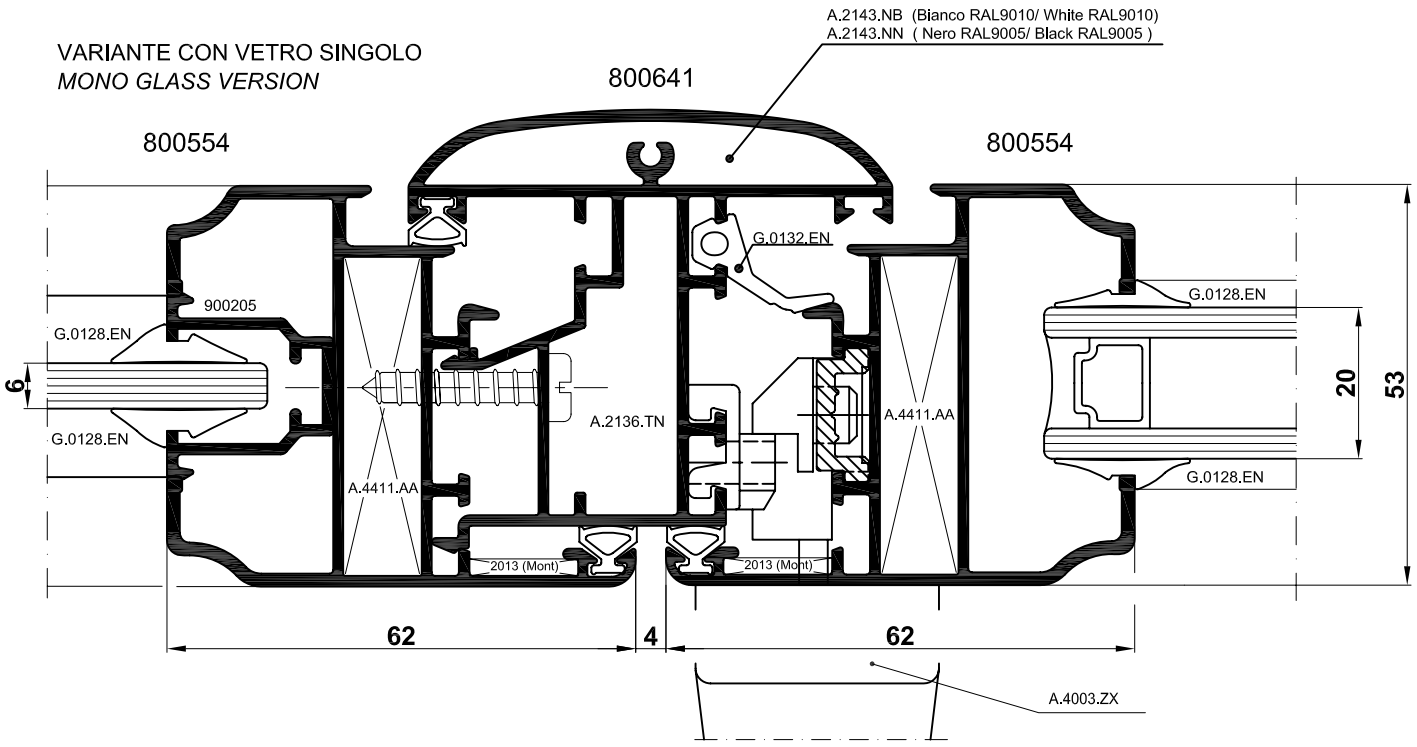
VARIANTE CON VETRO SINGOLO
MONO GLASS VERSION



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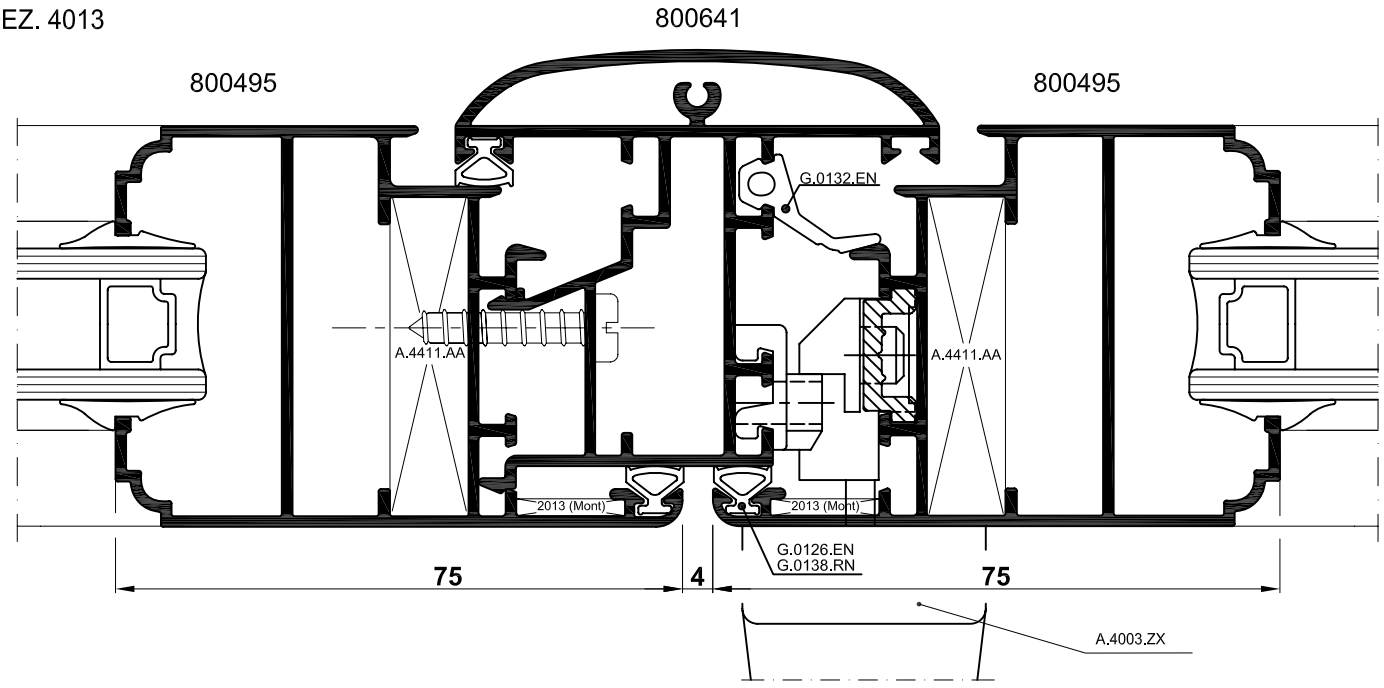

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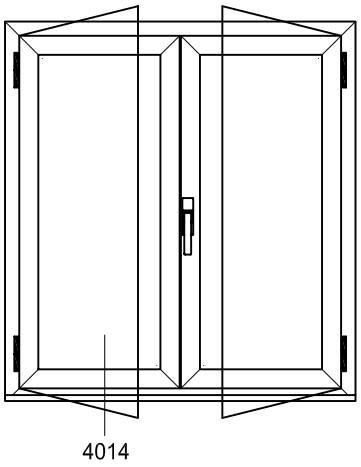

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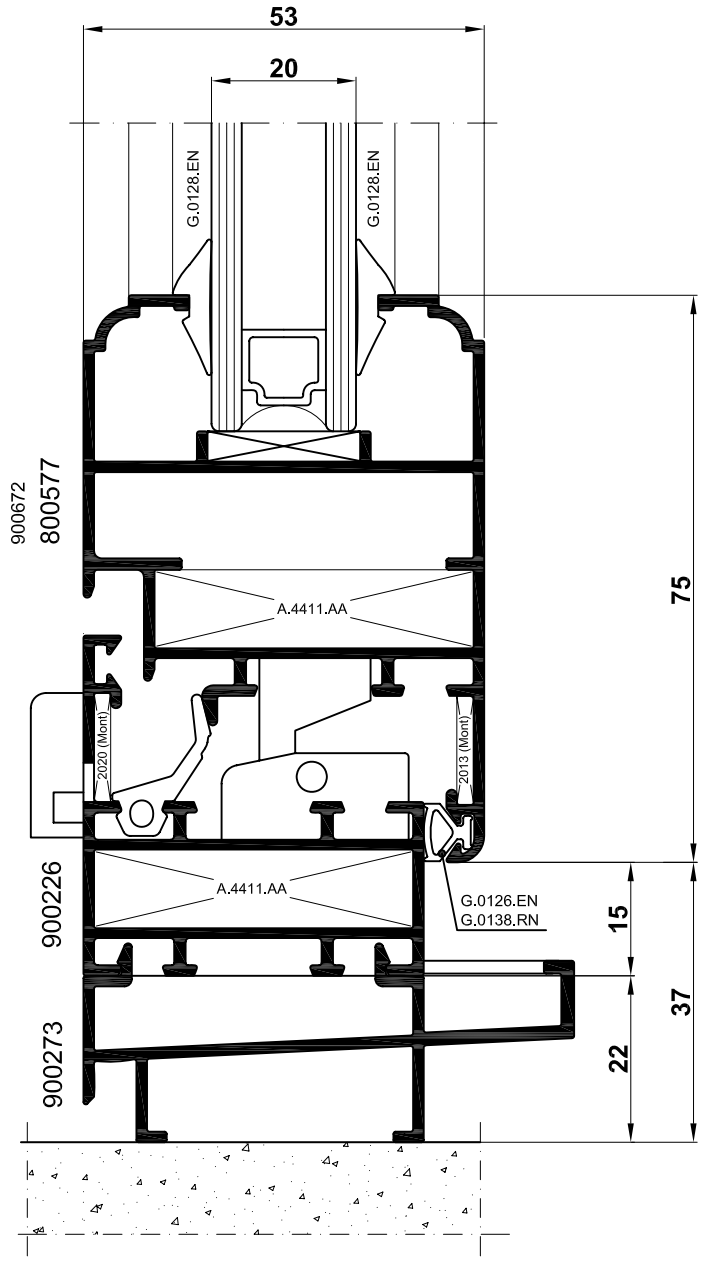
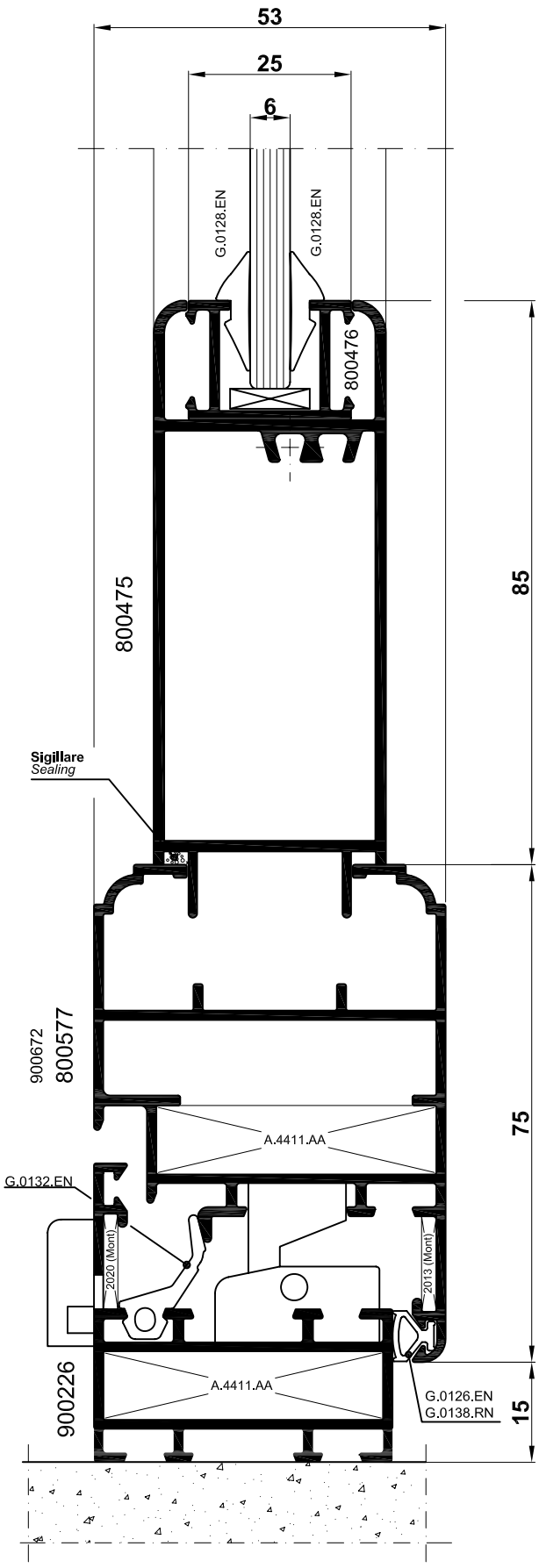


VARIANTE PORTA A BALCONE CON VETRO SINGOLO
BALCONY DOOR VERSION - MONO GLASS

SEZ. 4014



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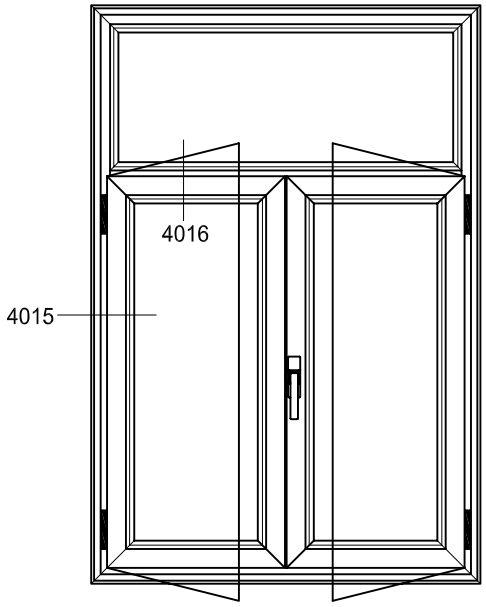

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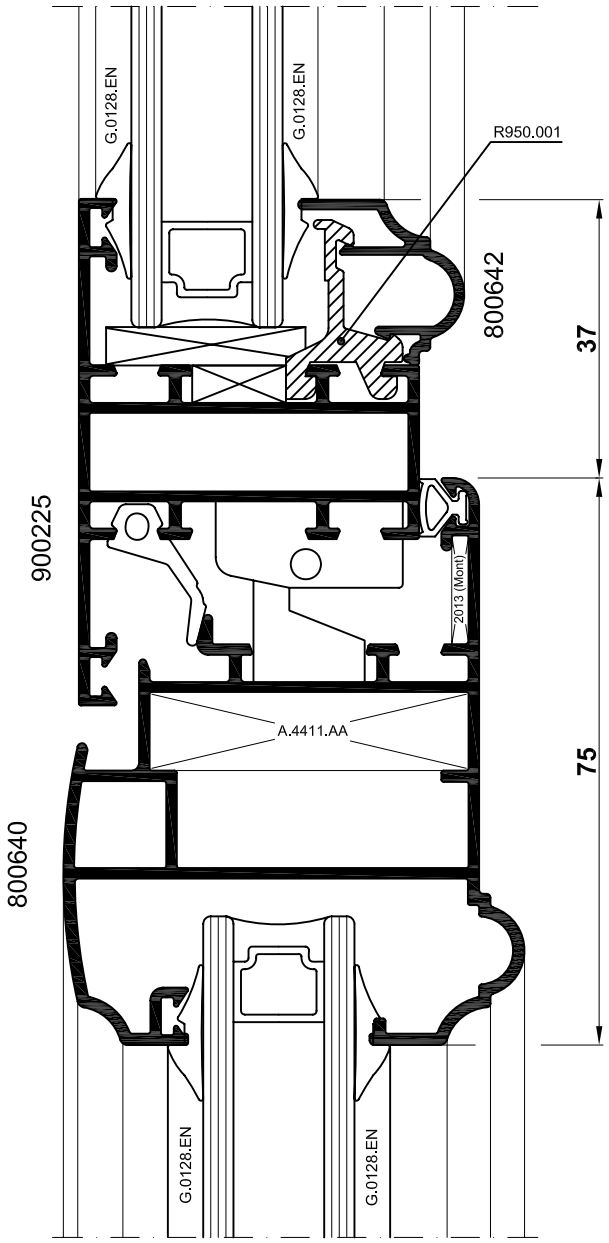

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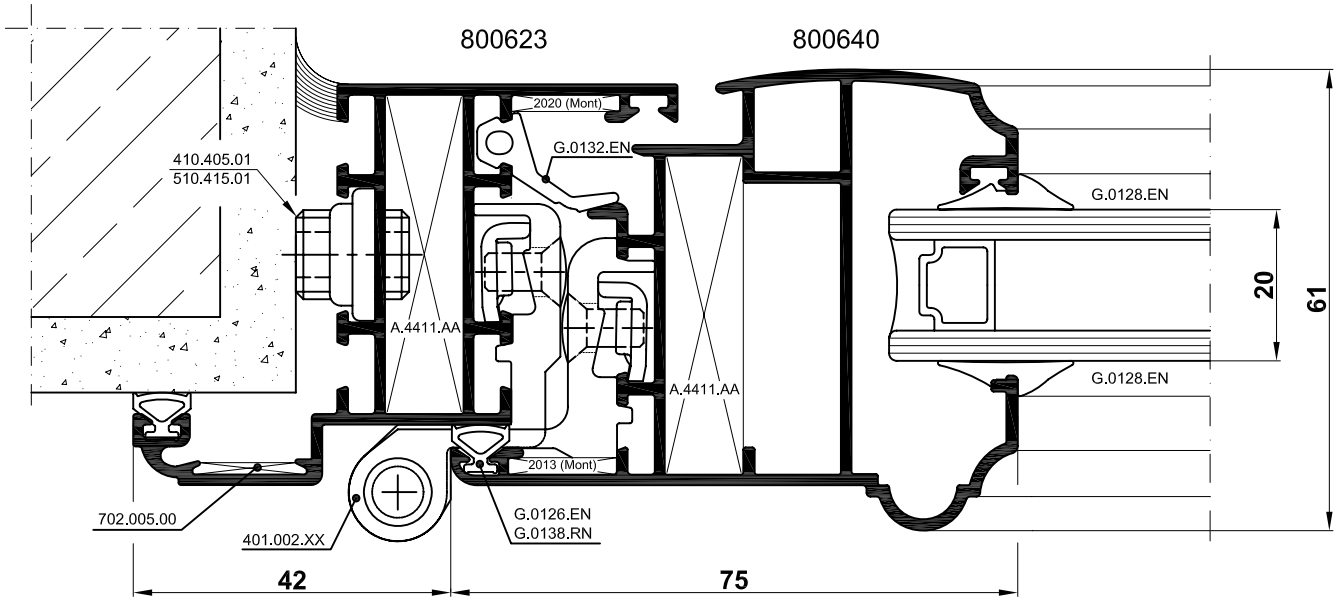

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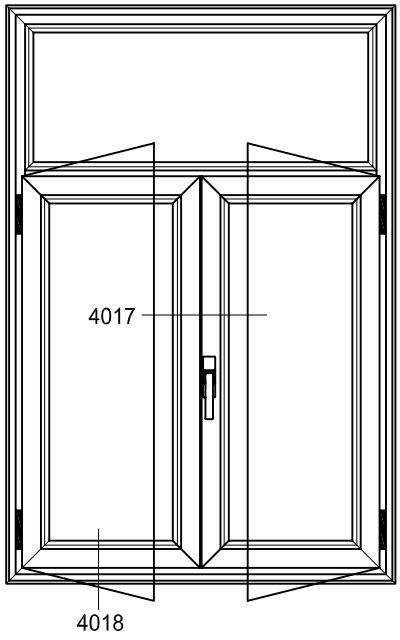

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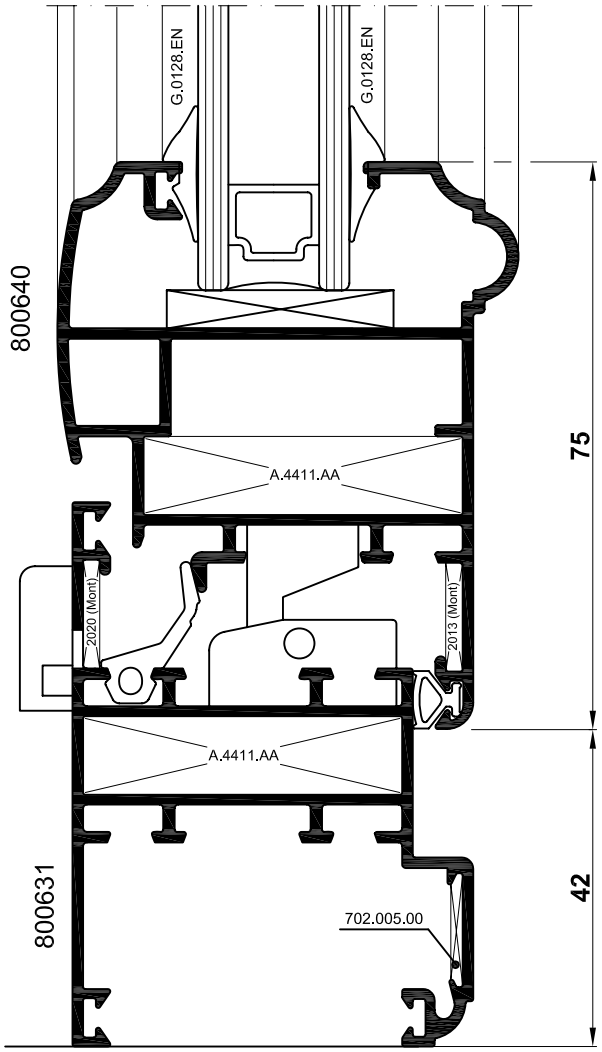

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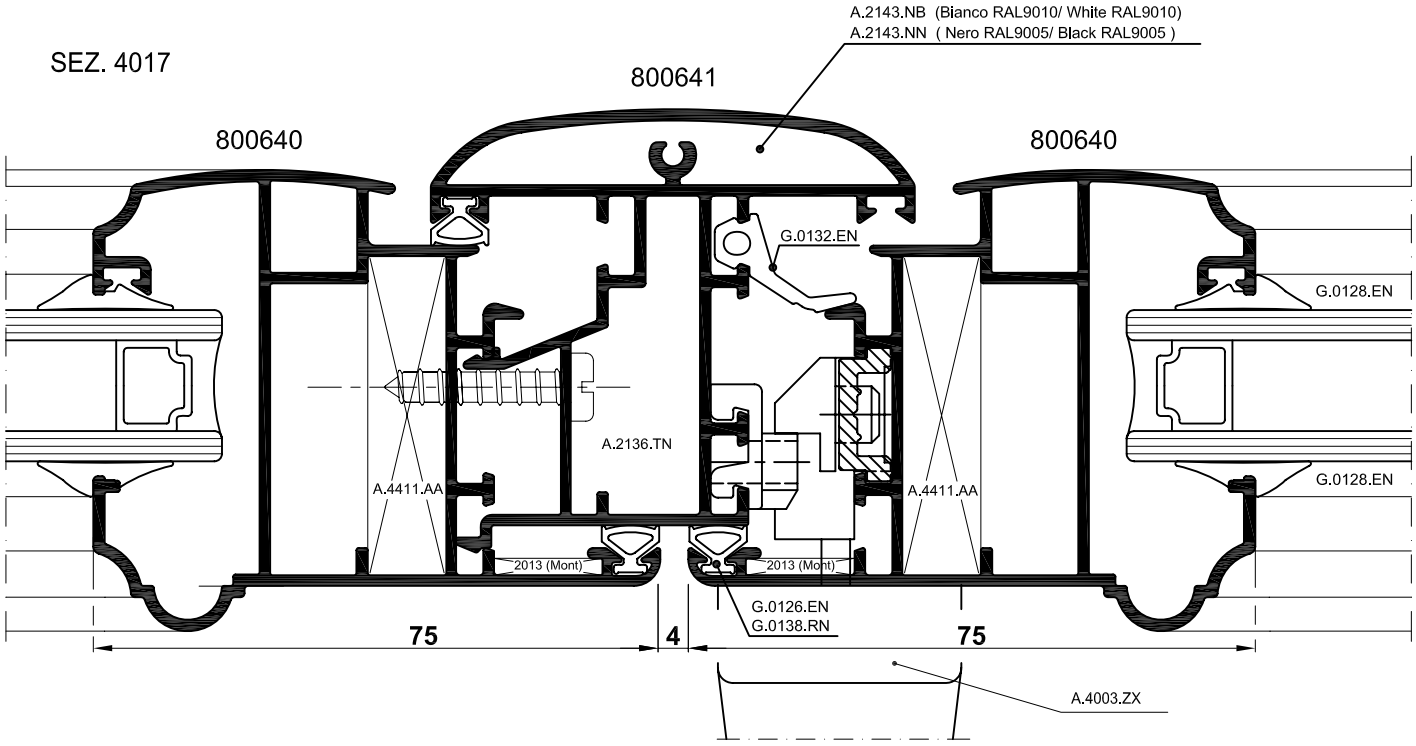

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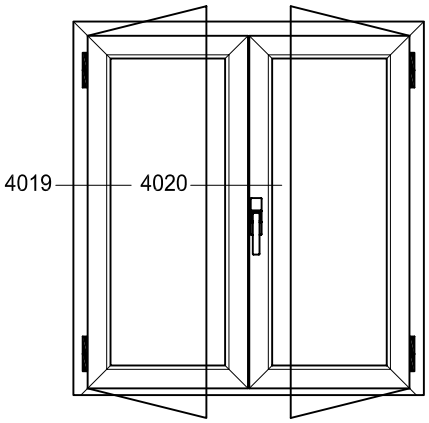

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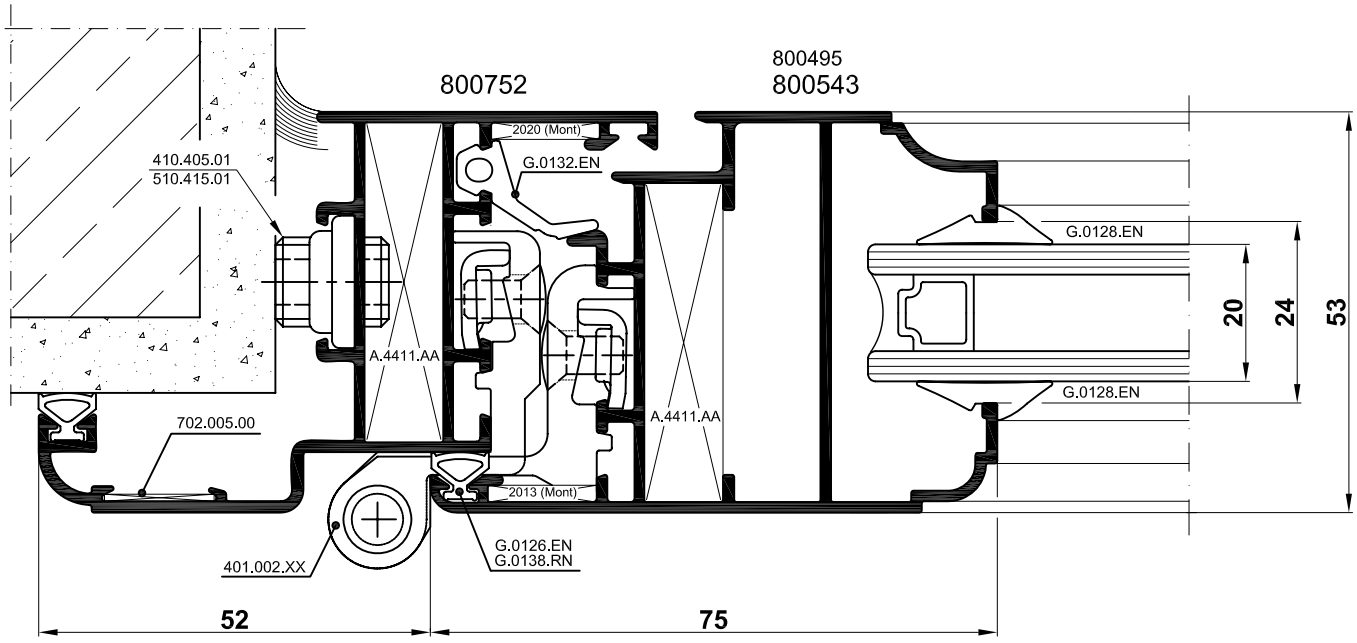

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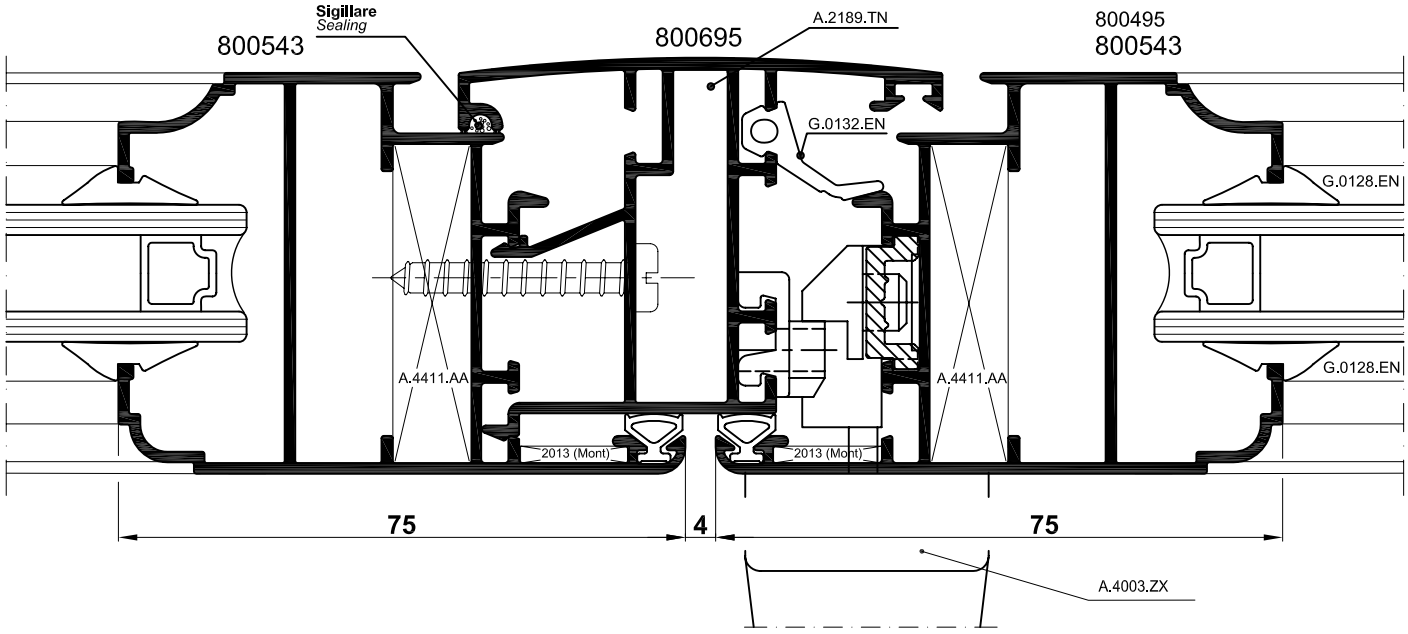

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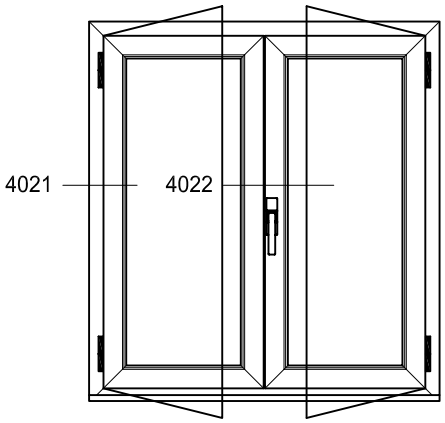

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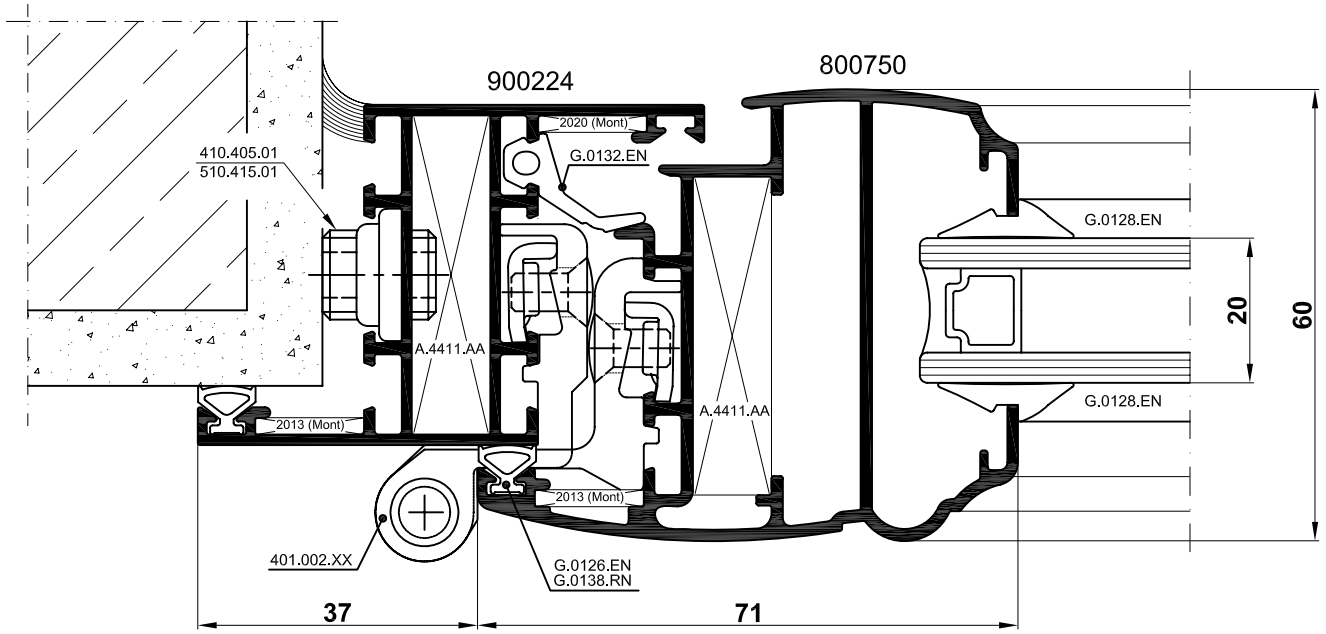

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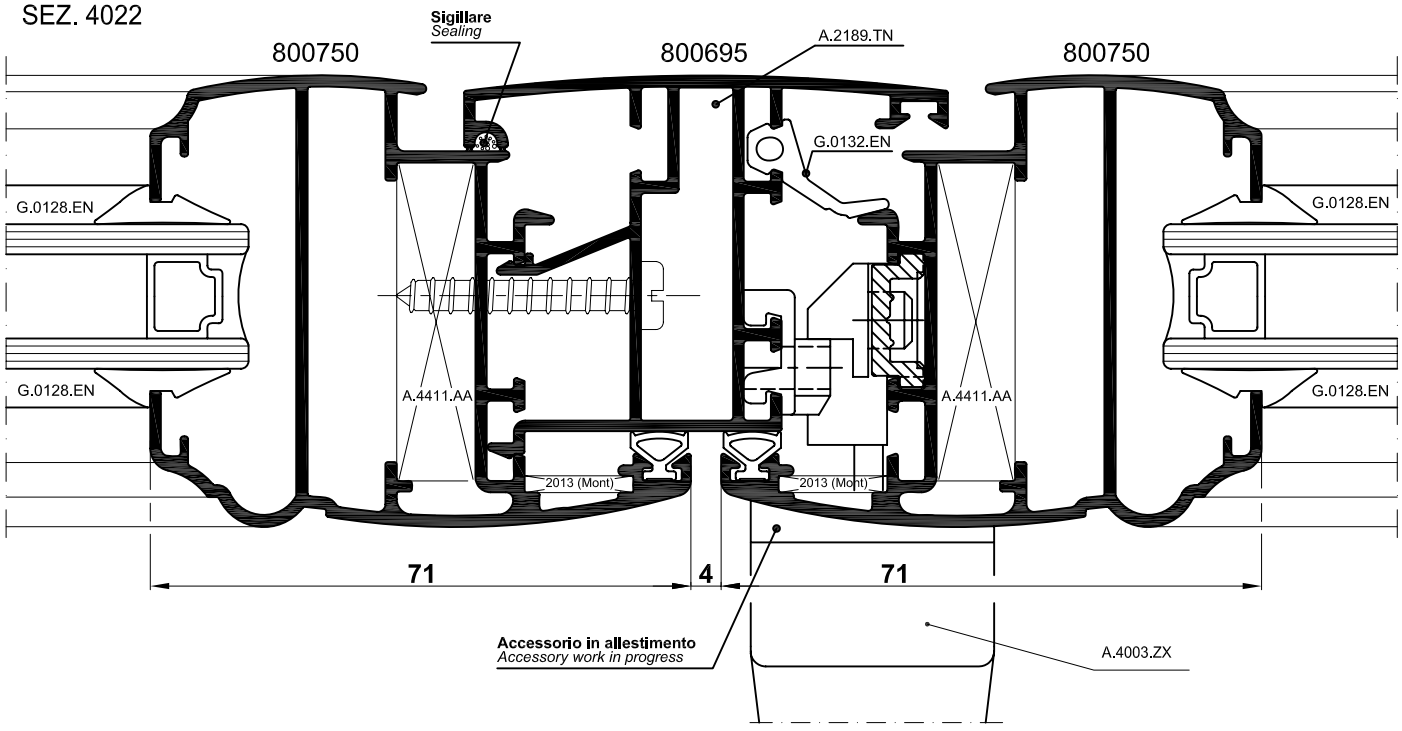

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Gennaio
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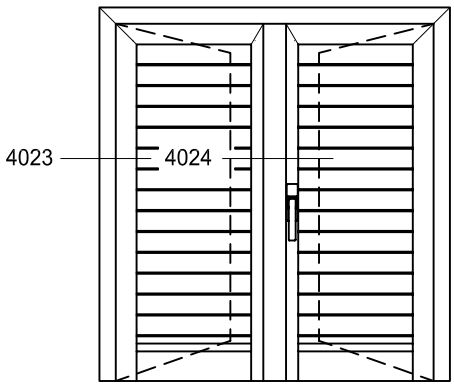

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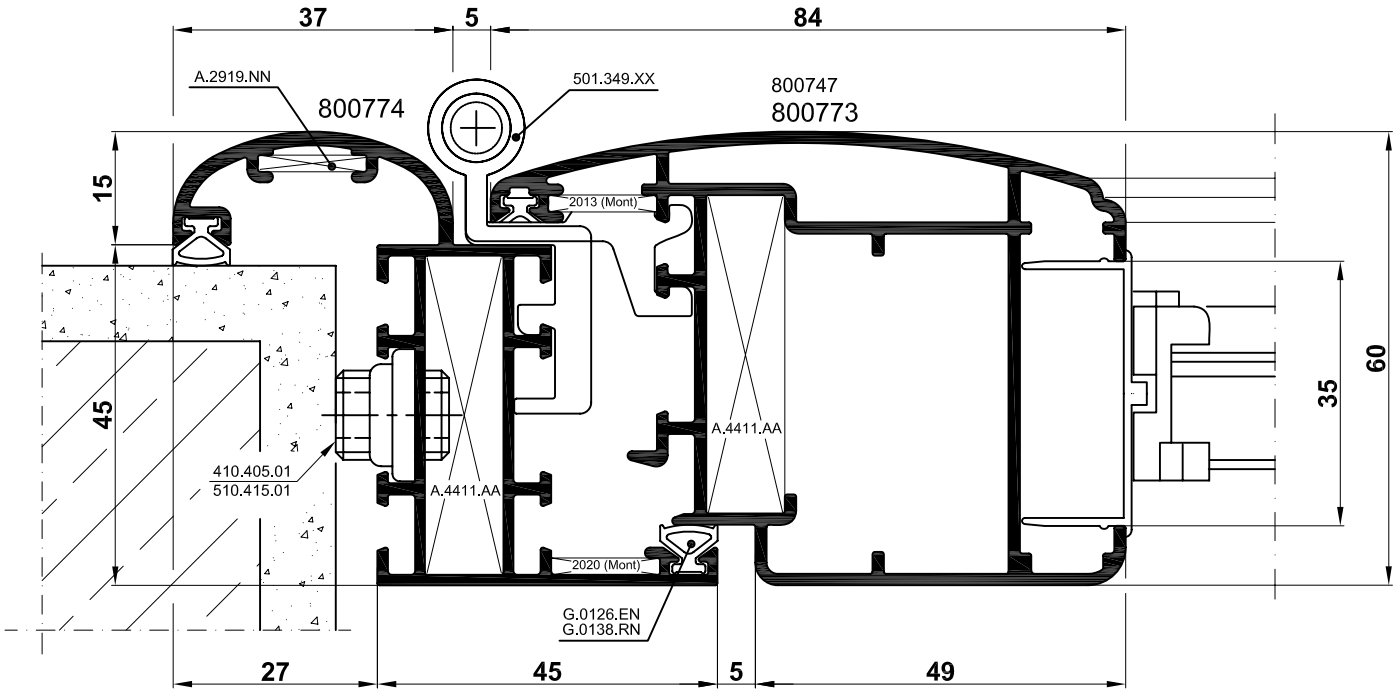

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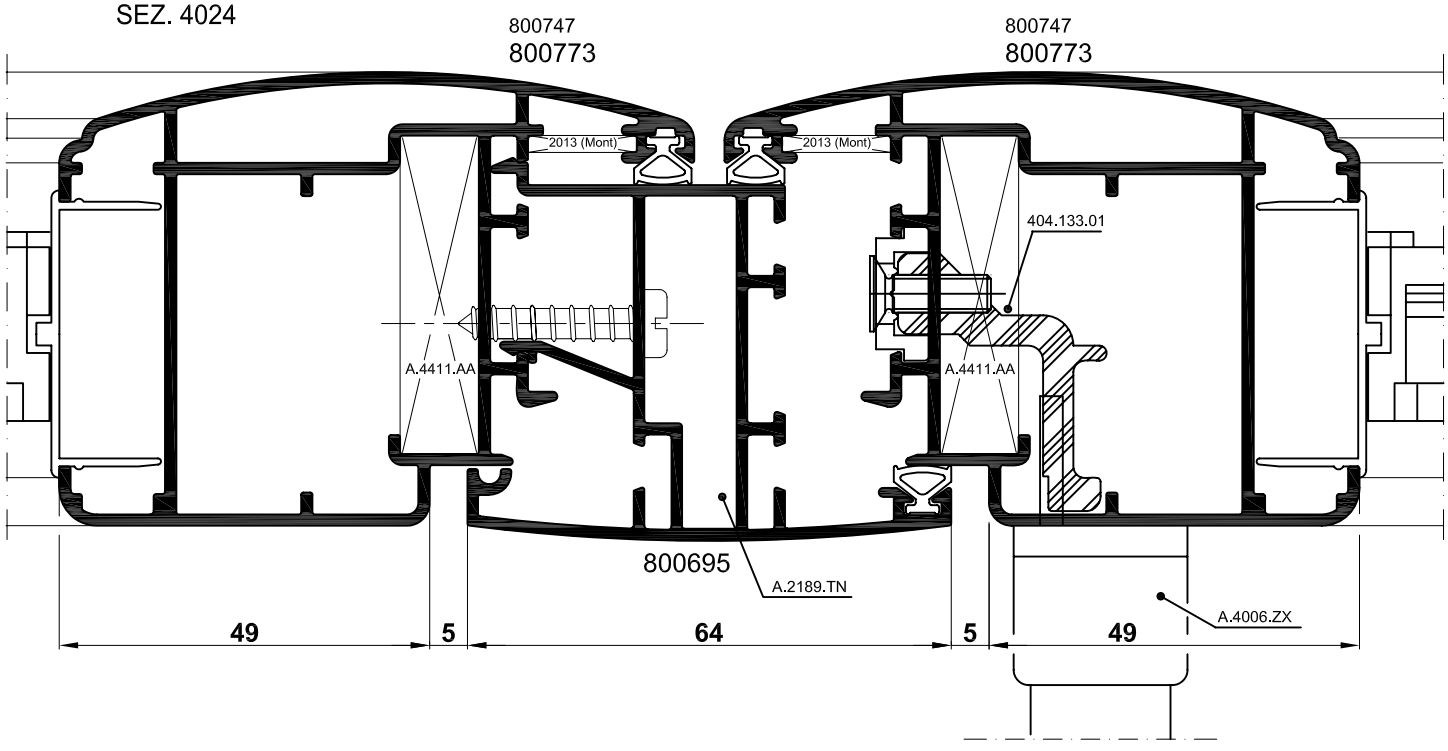

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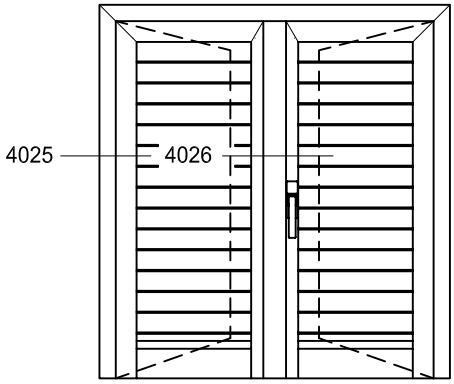

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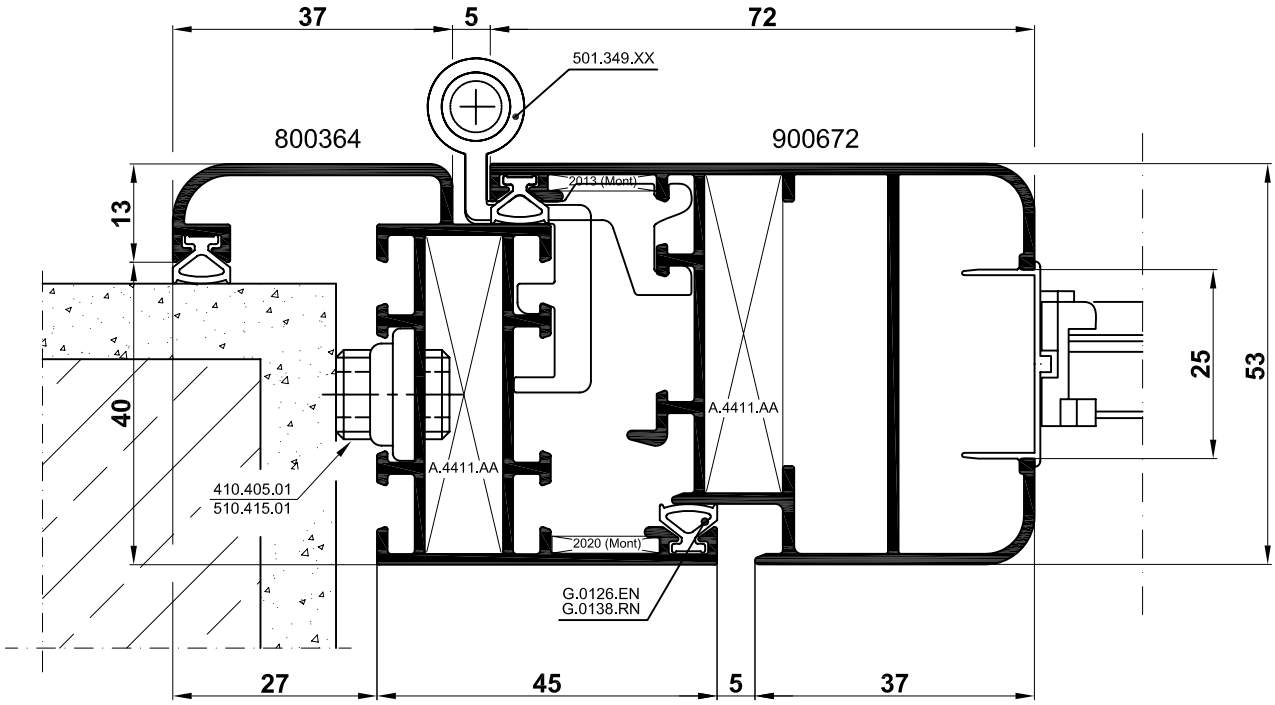

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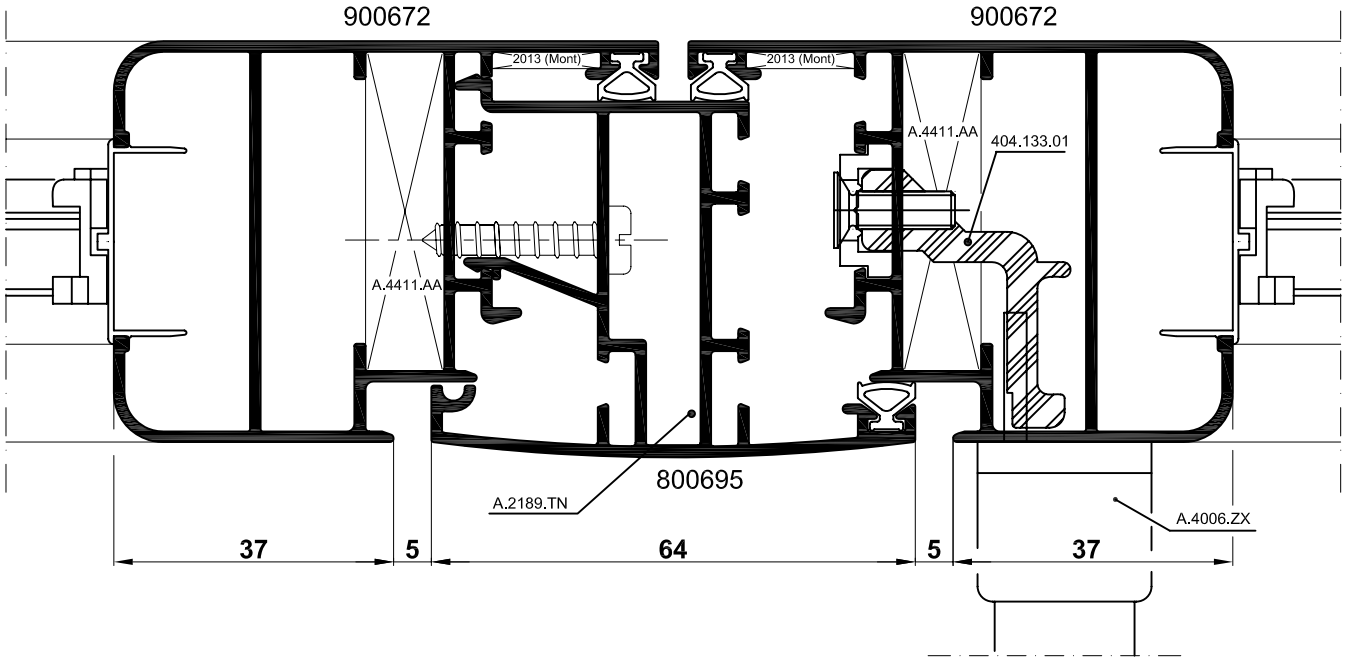

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January

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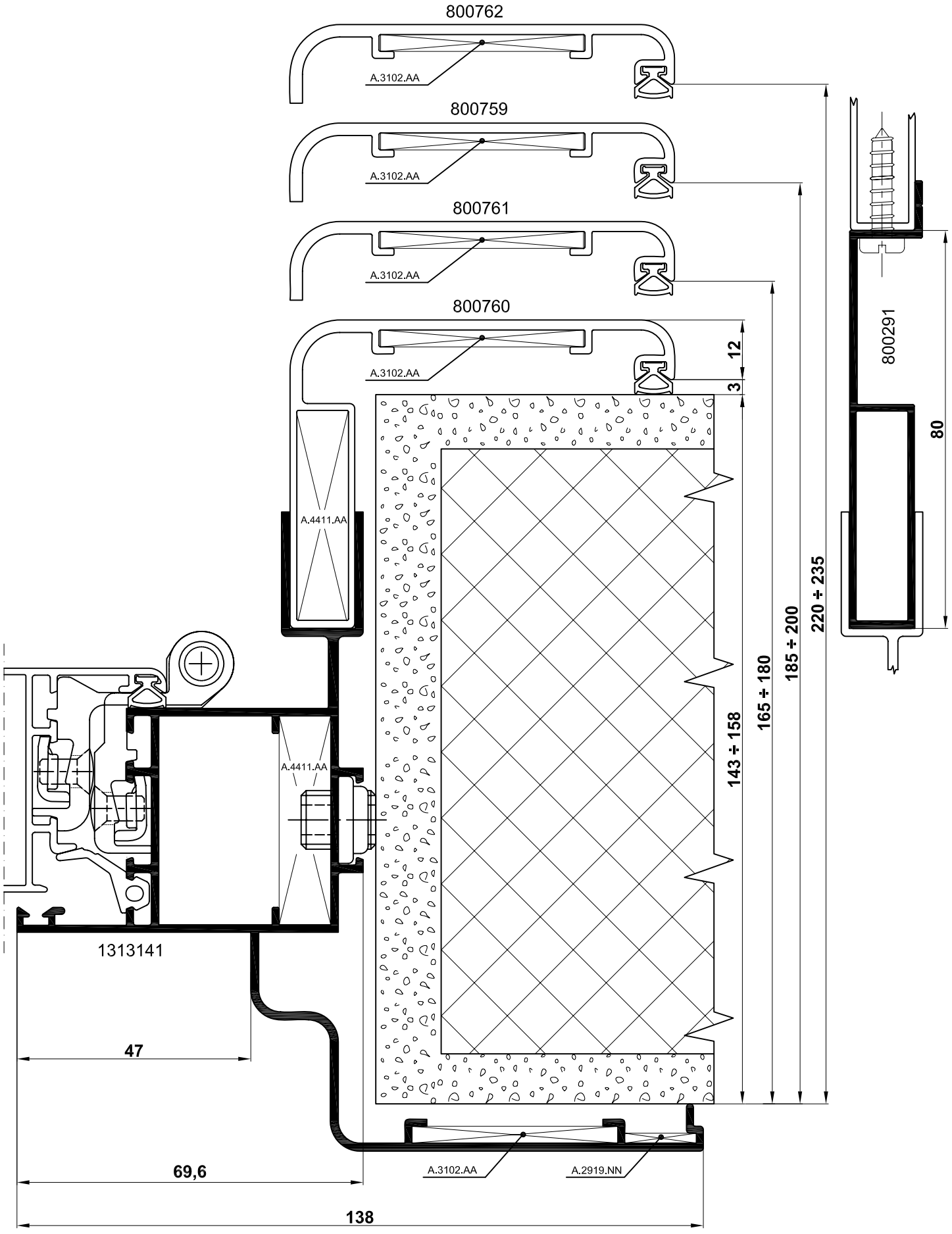

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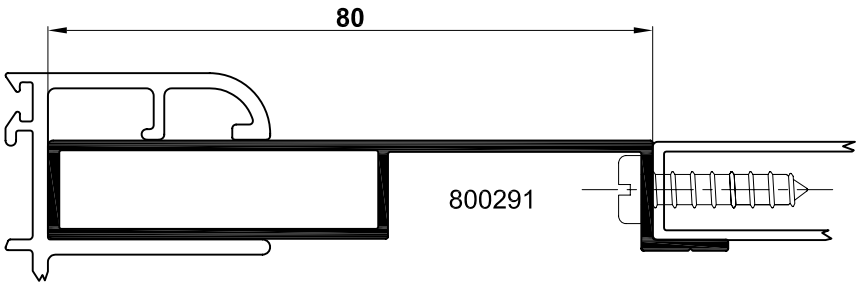

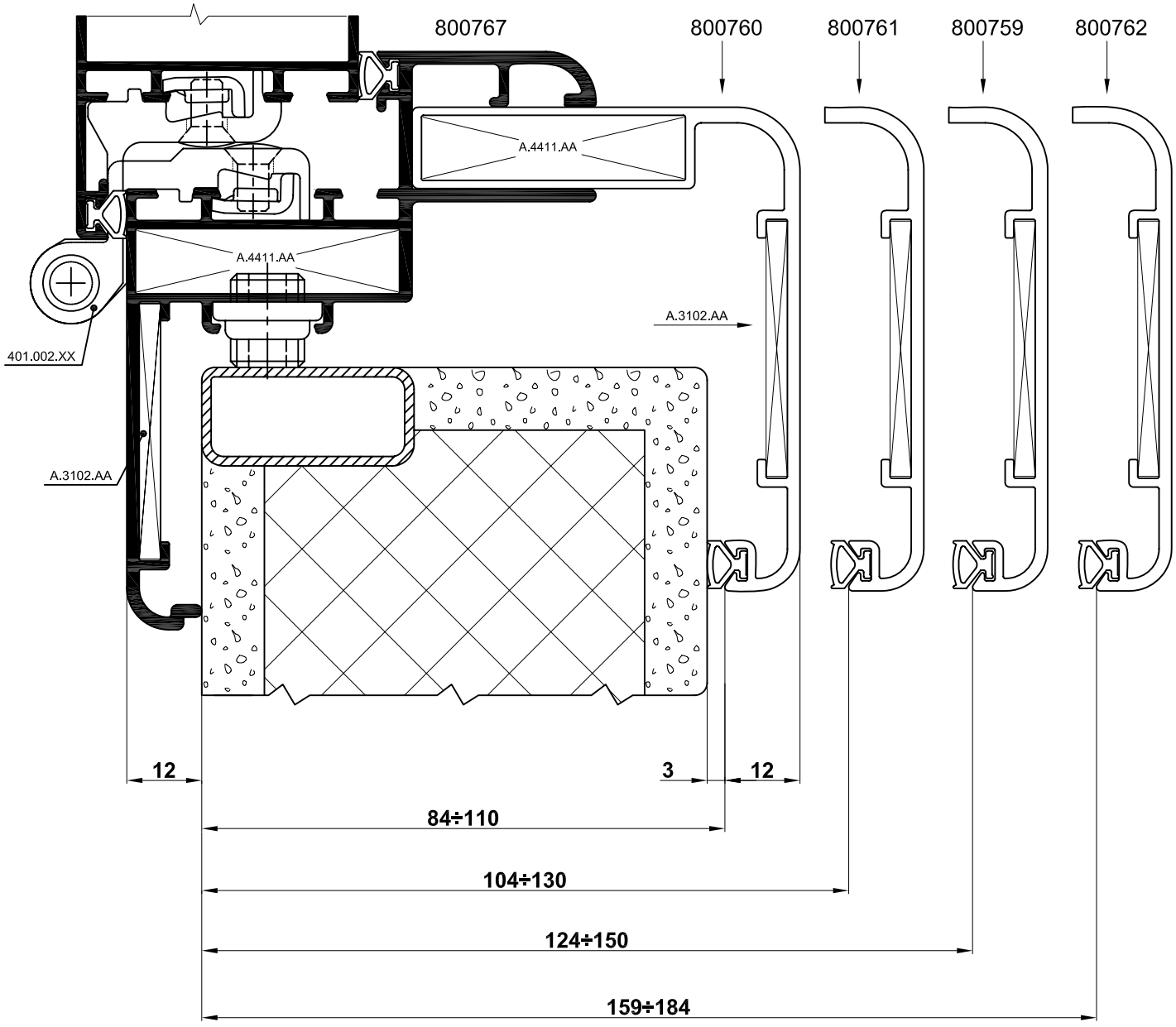

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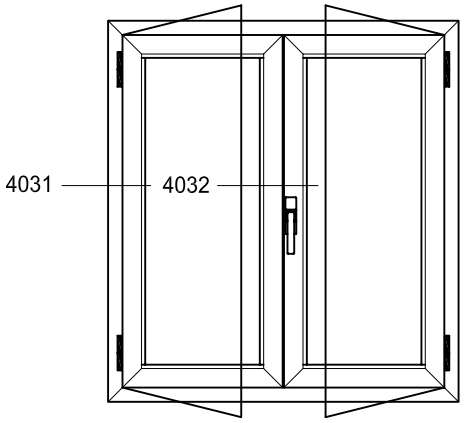

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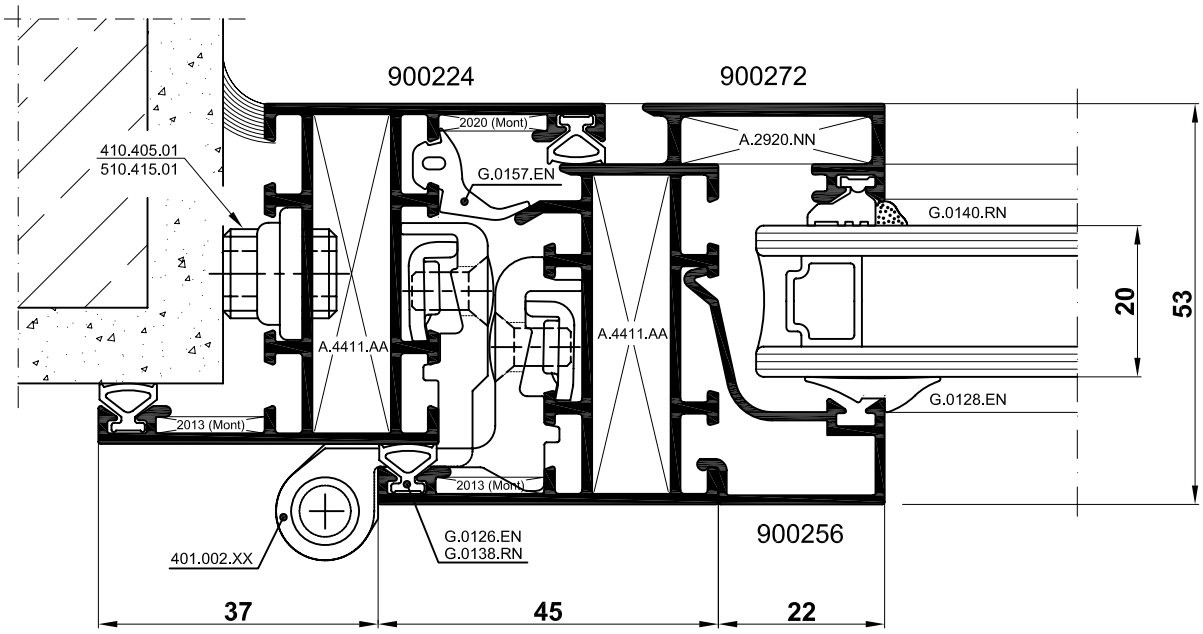

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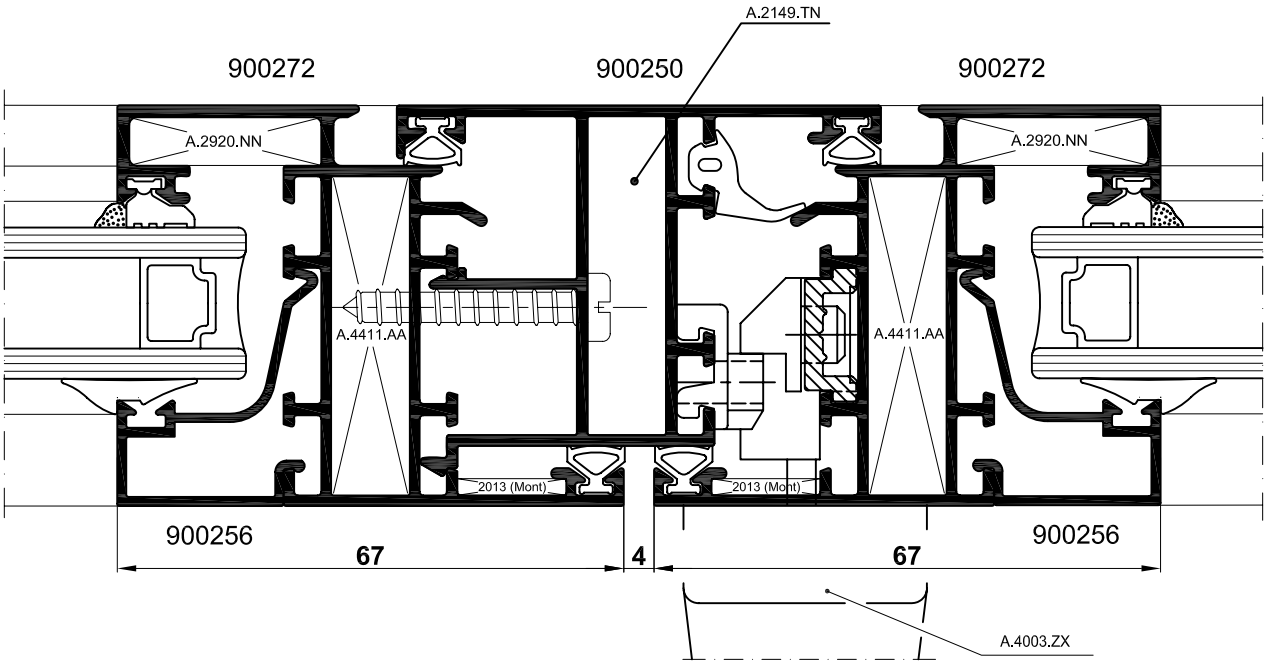

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Gennaio
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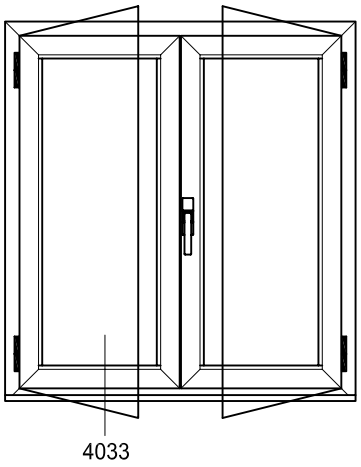

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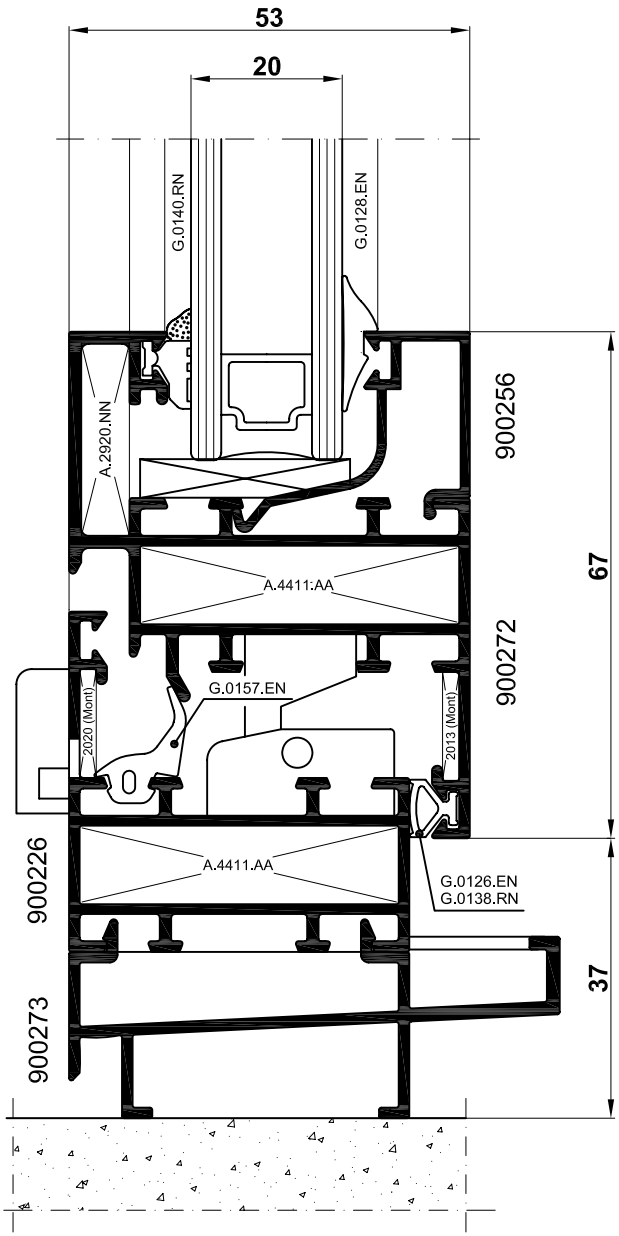

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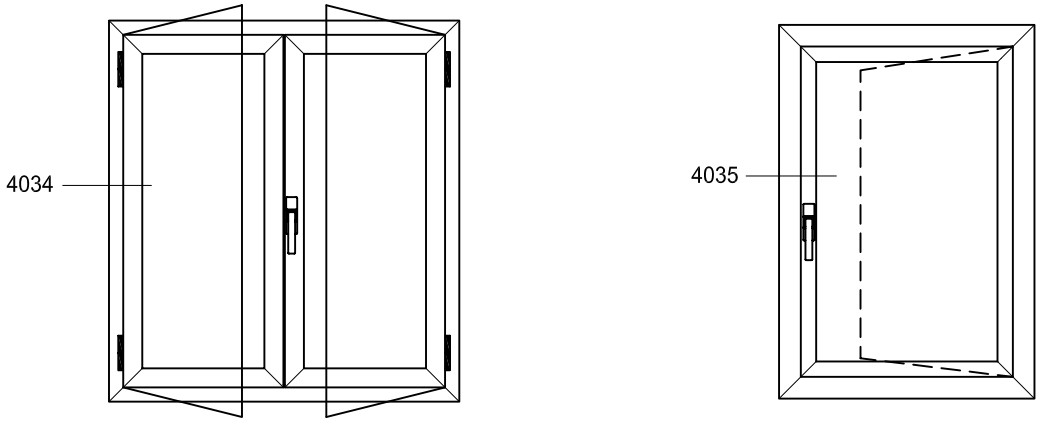
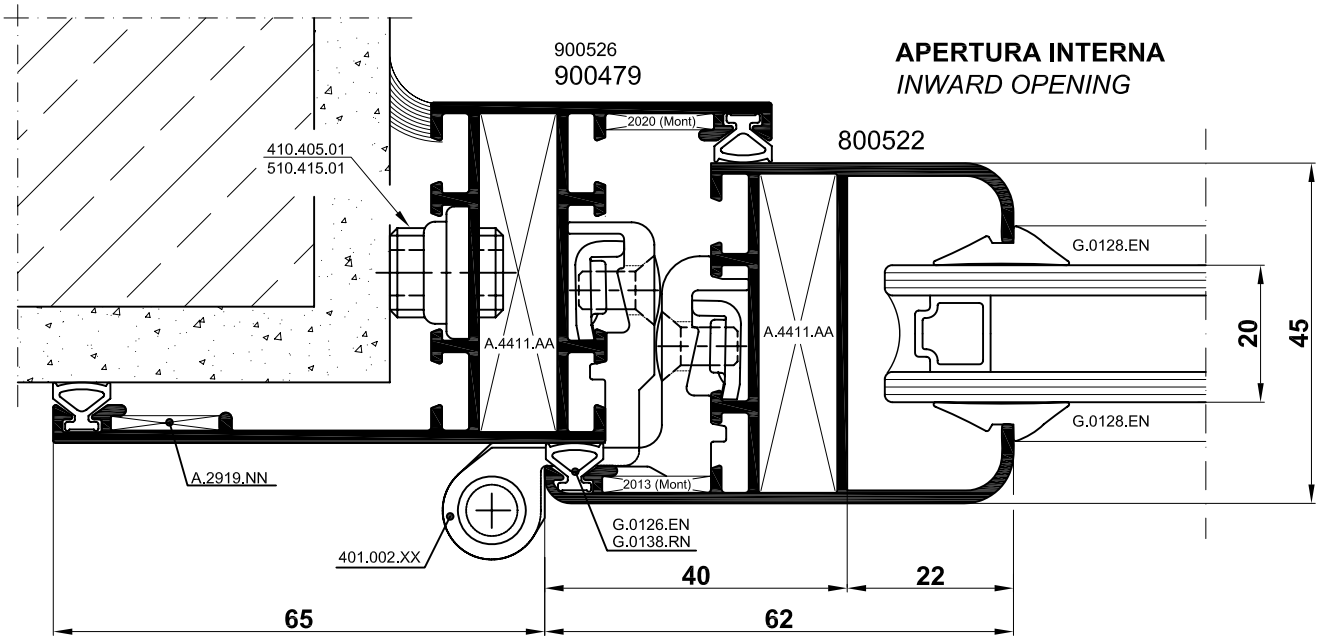


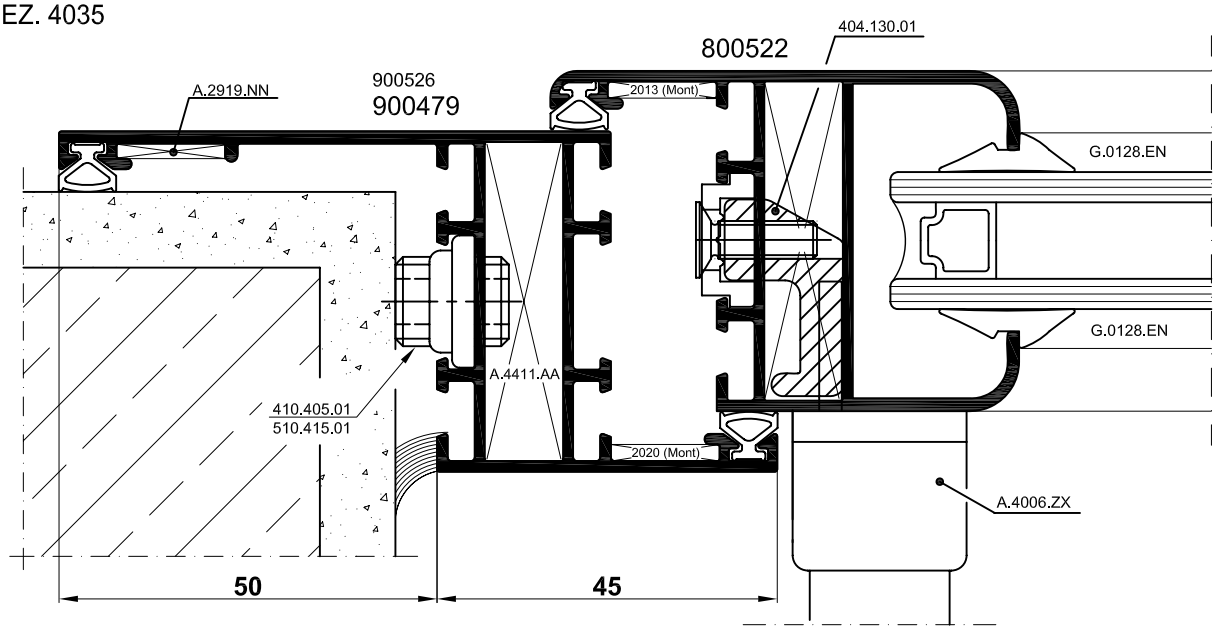
SEZ. 4034

APERTURA INTERNA
INWARD OPENING



APERTURA ESTERNA
OUTWARD OPENING

SEZ. 4035



Rev. : 2011
Febbraio
February

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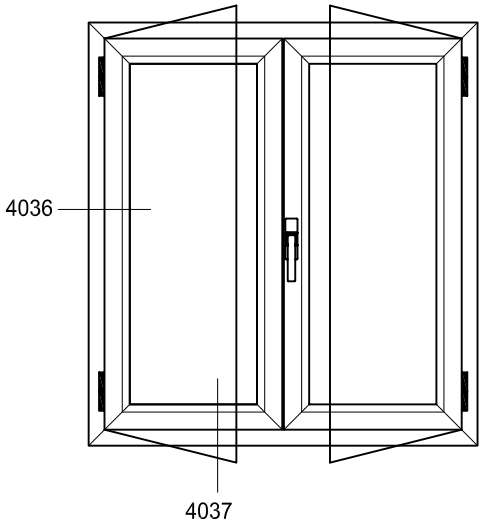
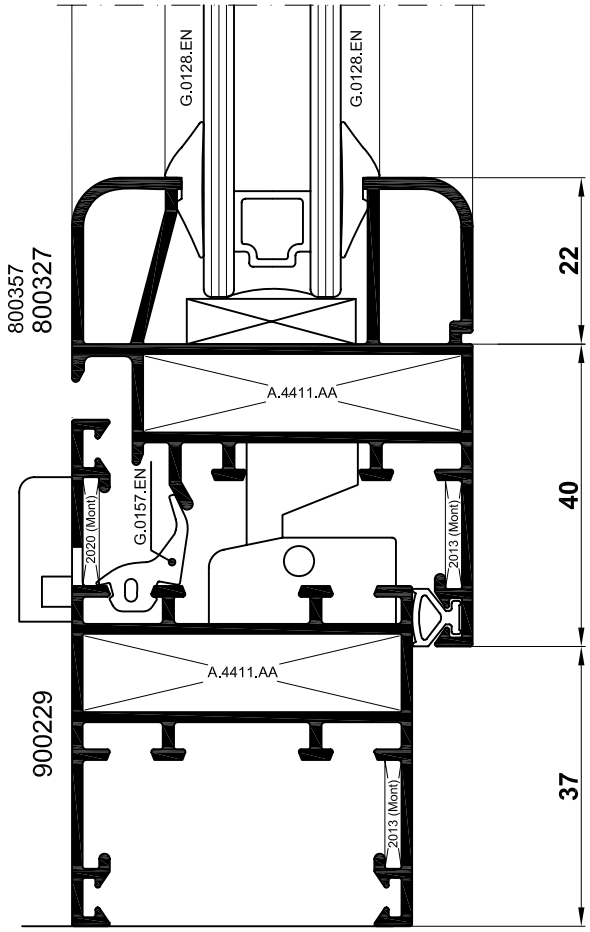
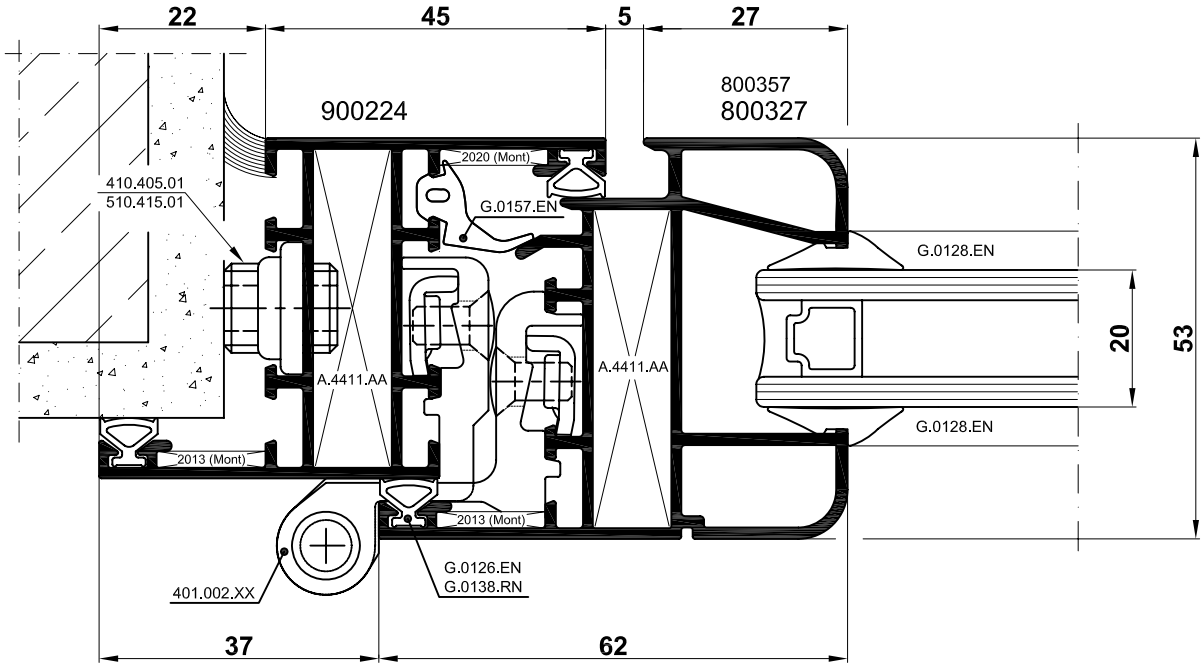
SEZ. 4037





SEZ. 4036



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Gennaio
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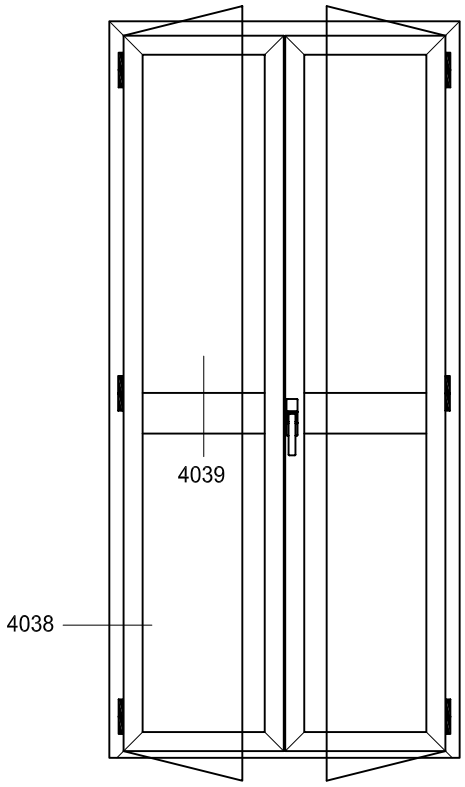
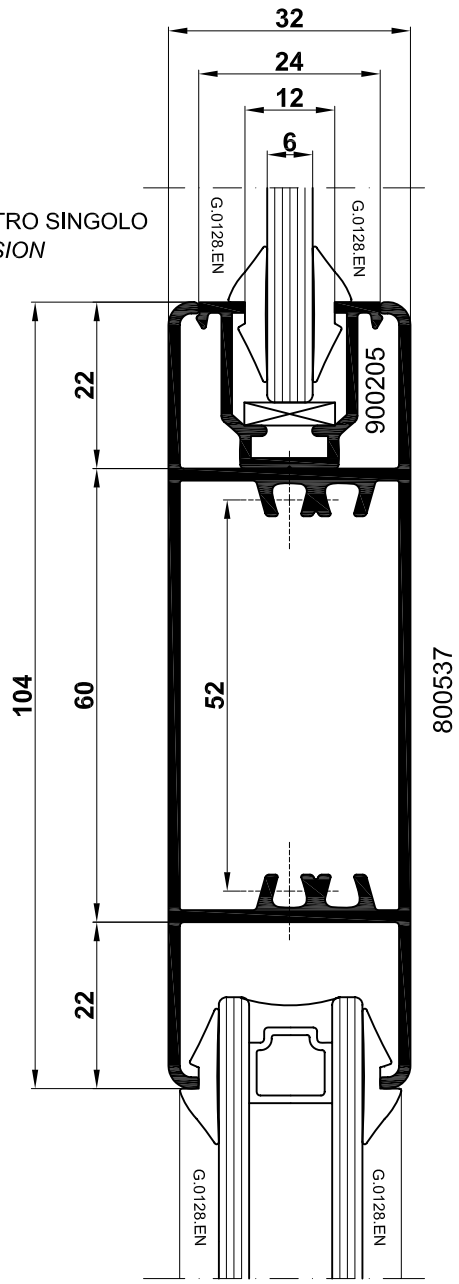
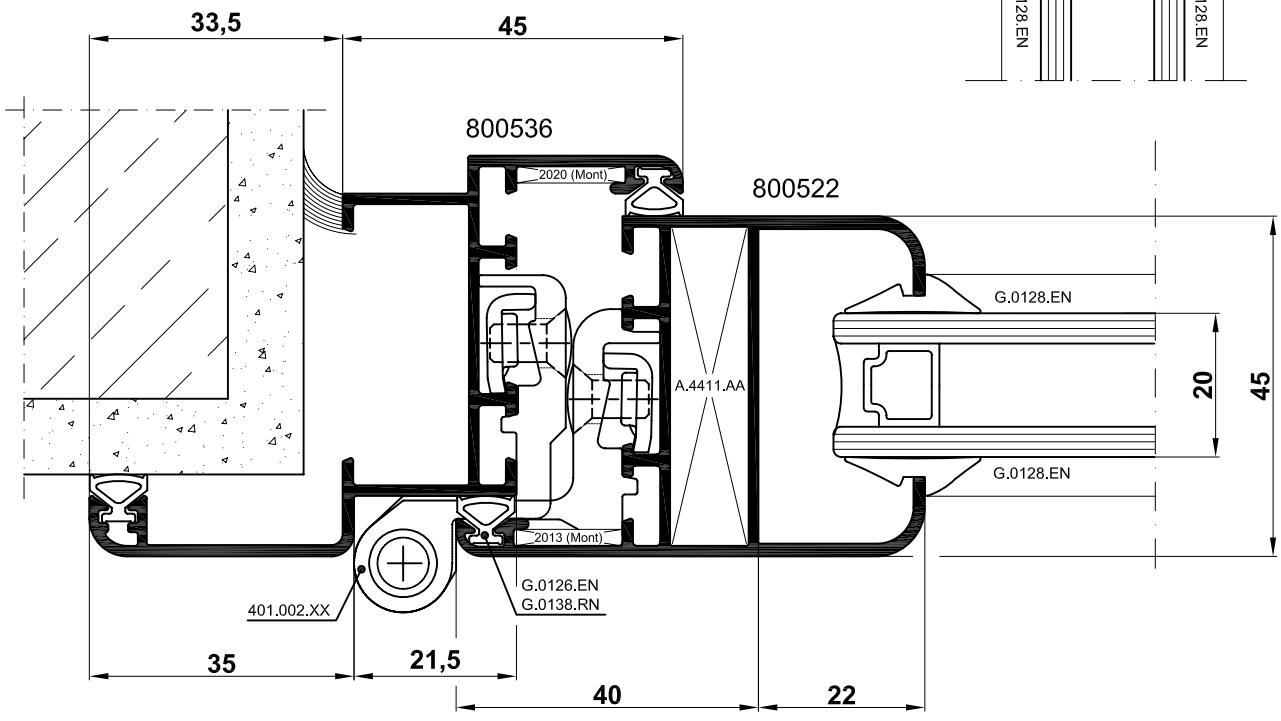


SEZ. 4039

VARIANTE CON VETRO SINGOLO
MONO GLASS VERSION



SEZ. 4038



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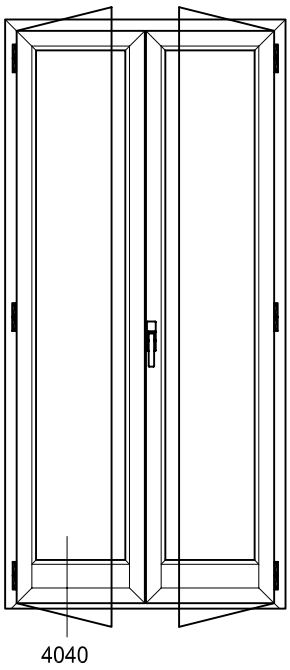
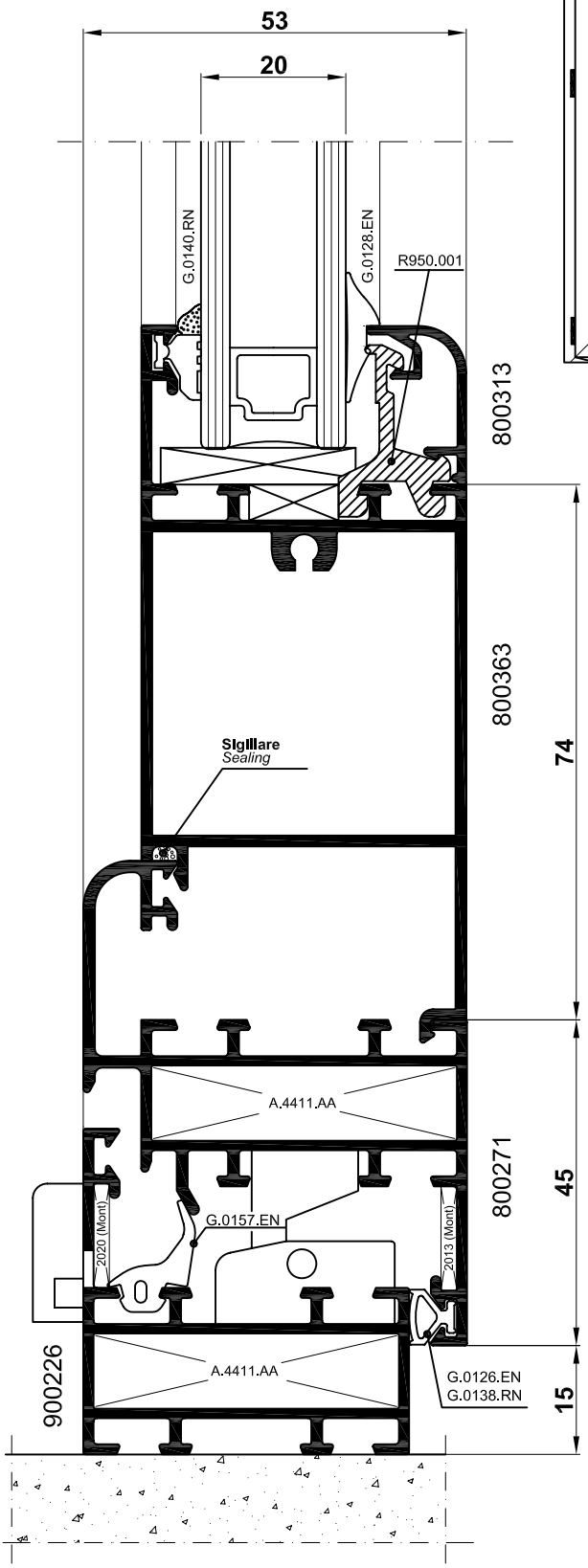
sapa:

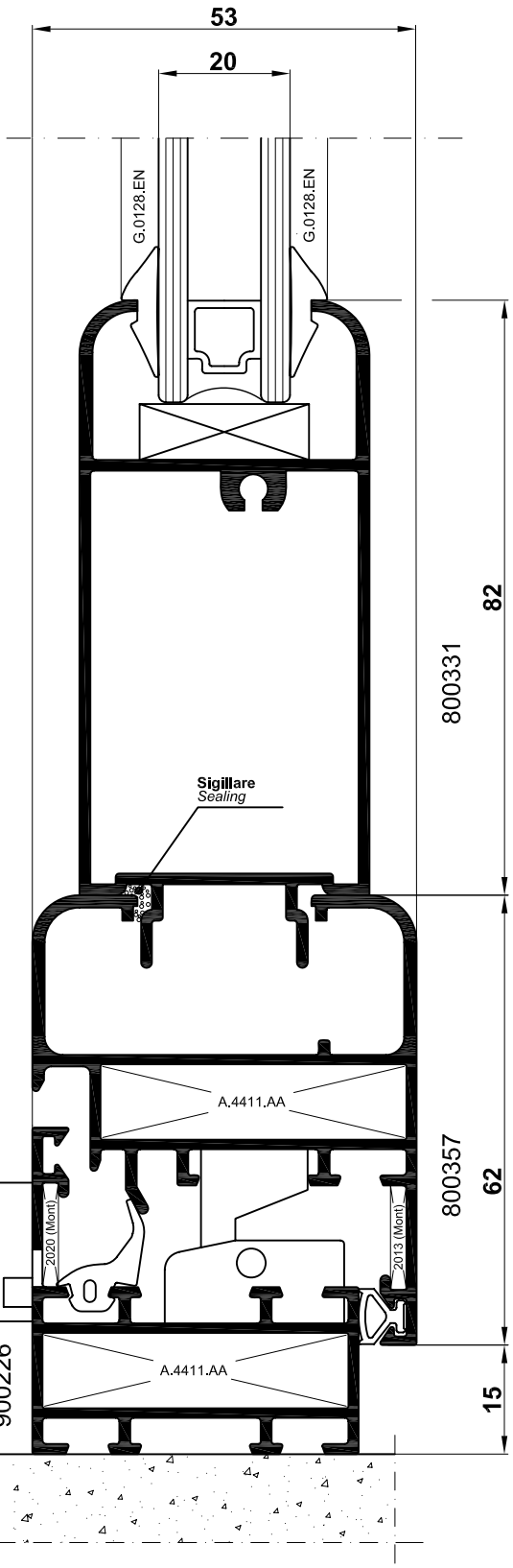
SEZ. 4040





SEZ. 4040

VARIANTE CON VETRO AD INFILARE
VERSION WITH SLIDE-IN-GLASS



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January

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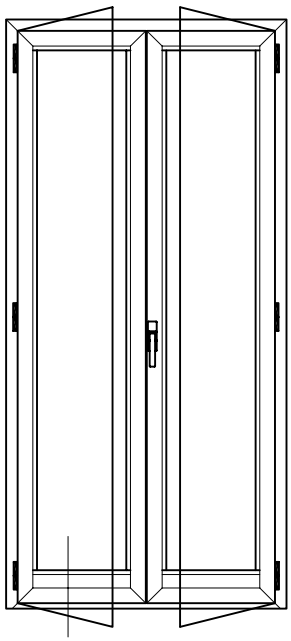

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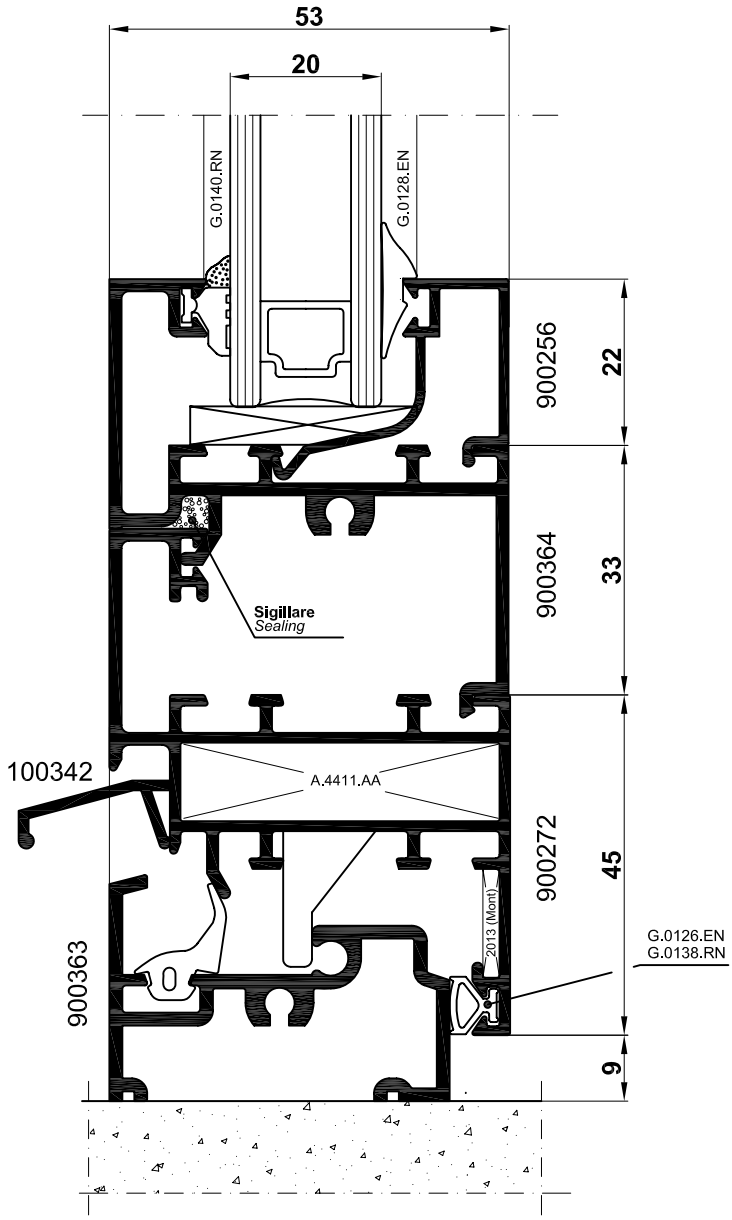

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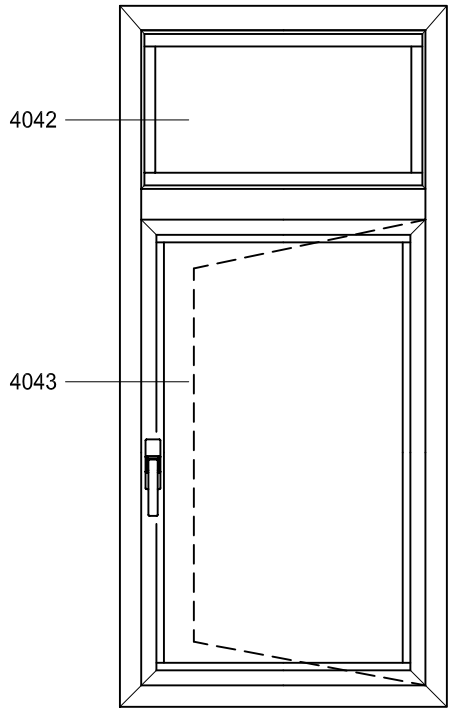

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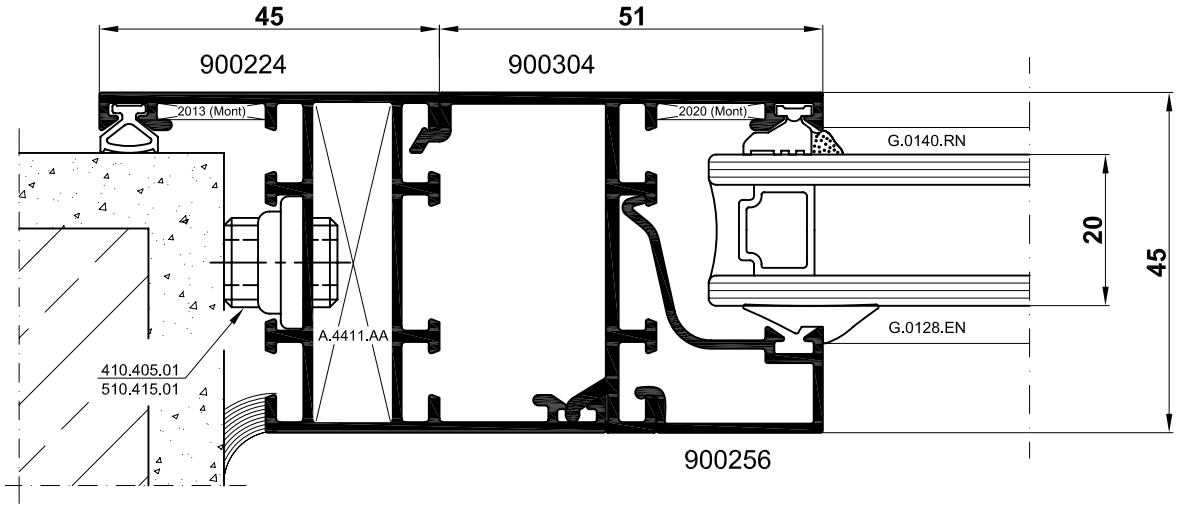

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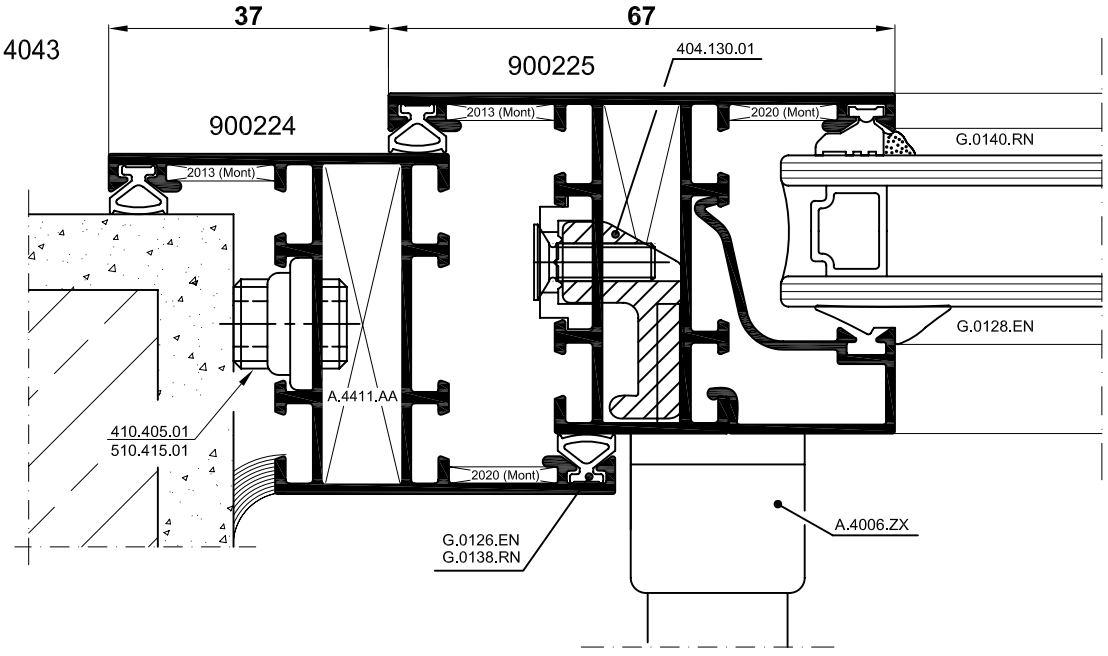

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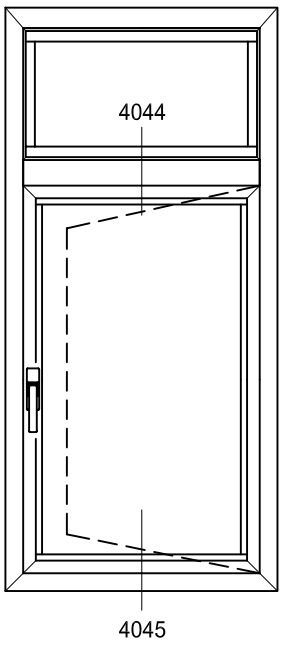

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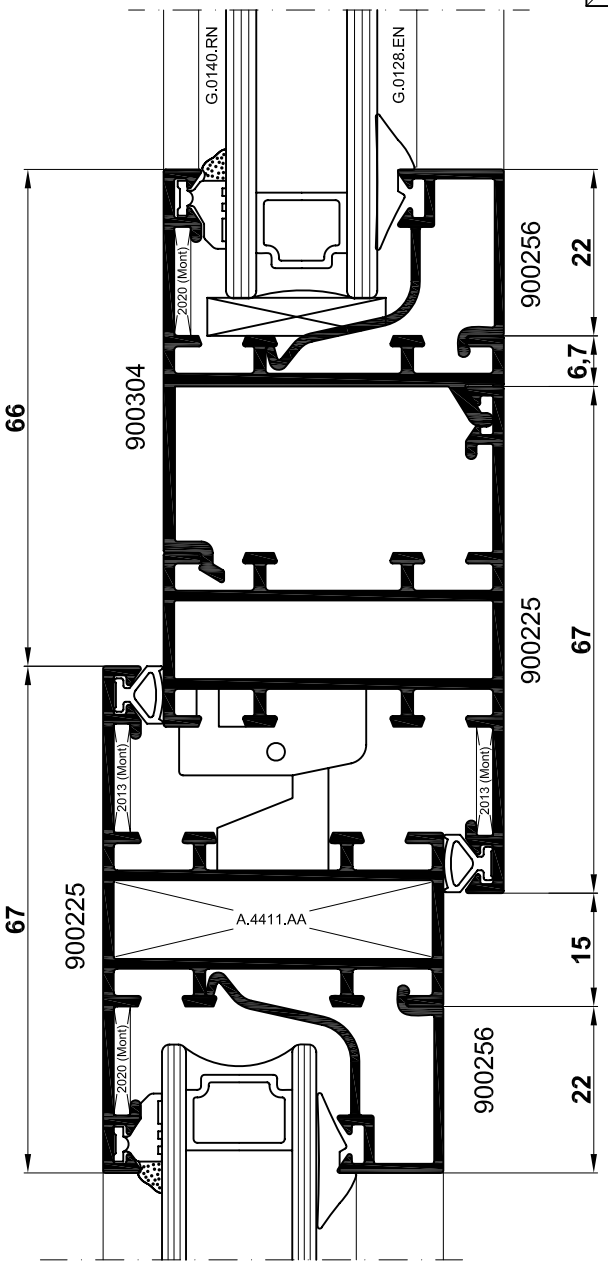

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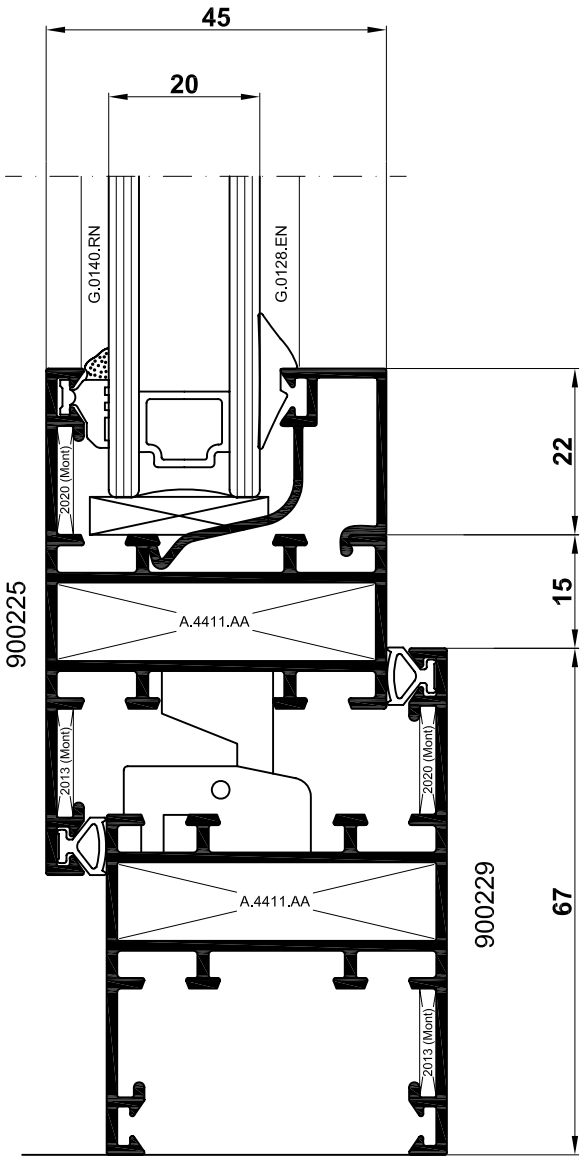

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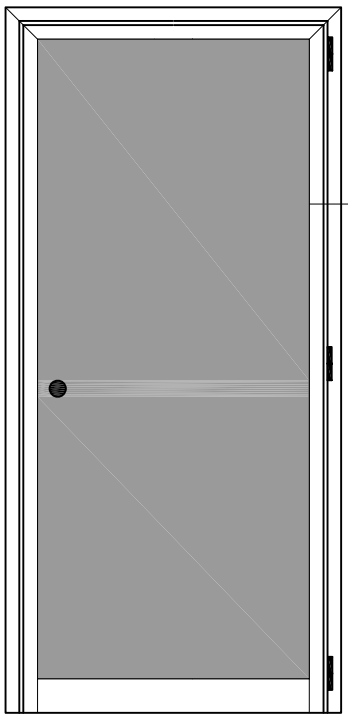

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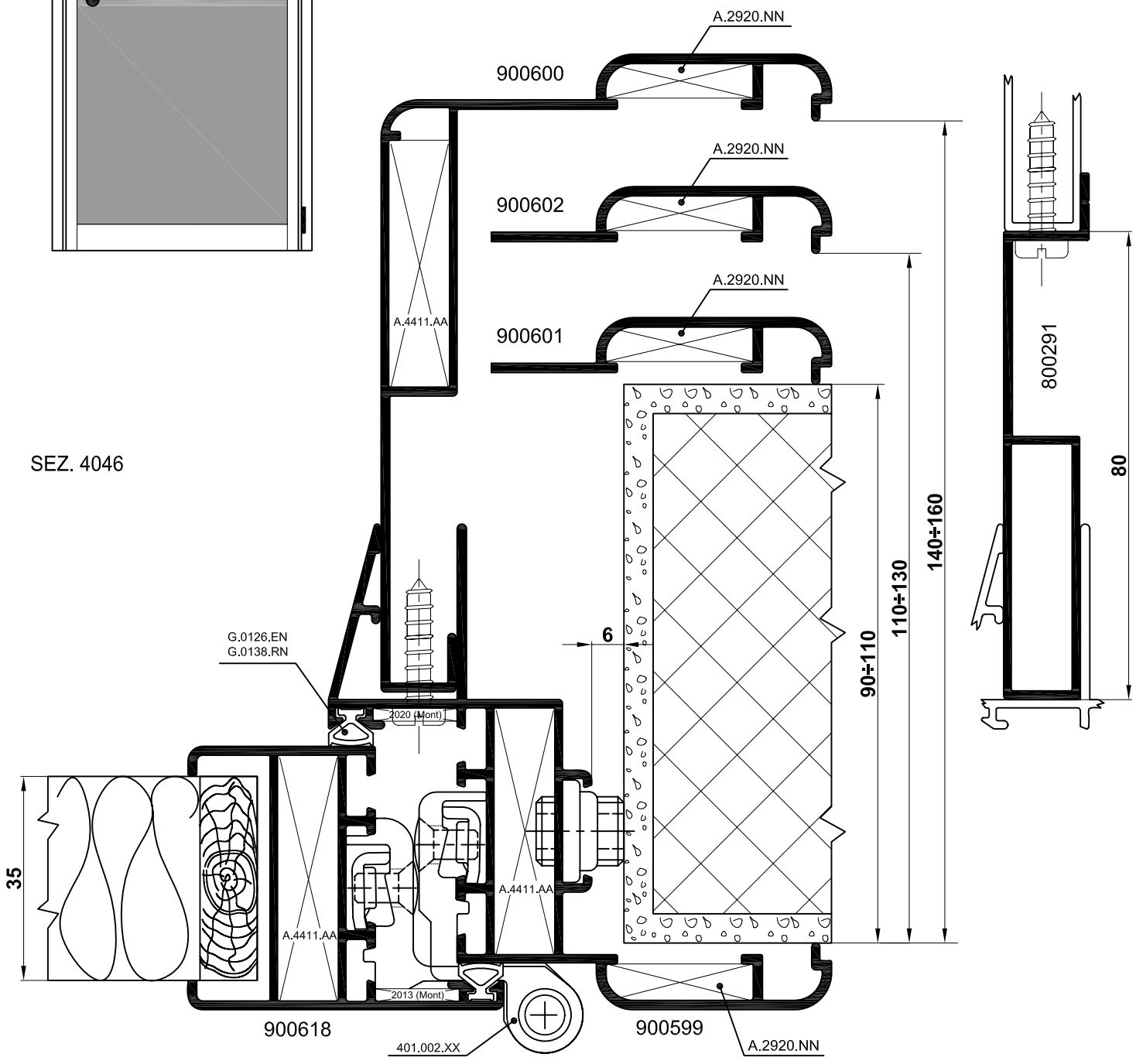

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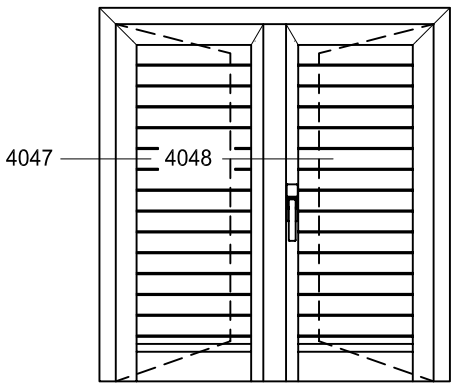

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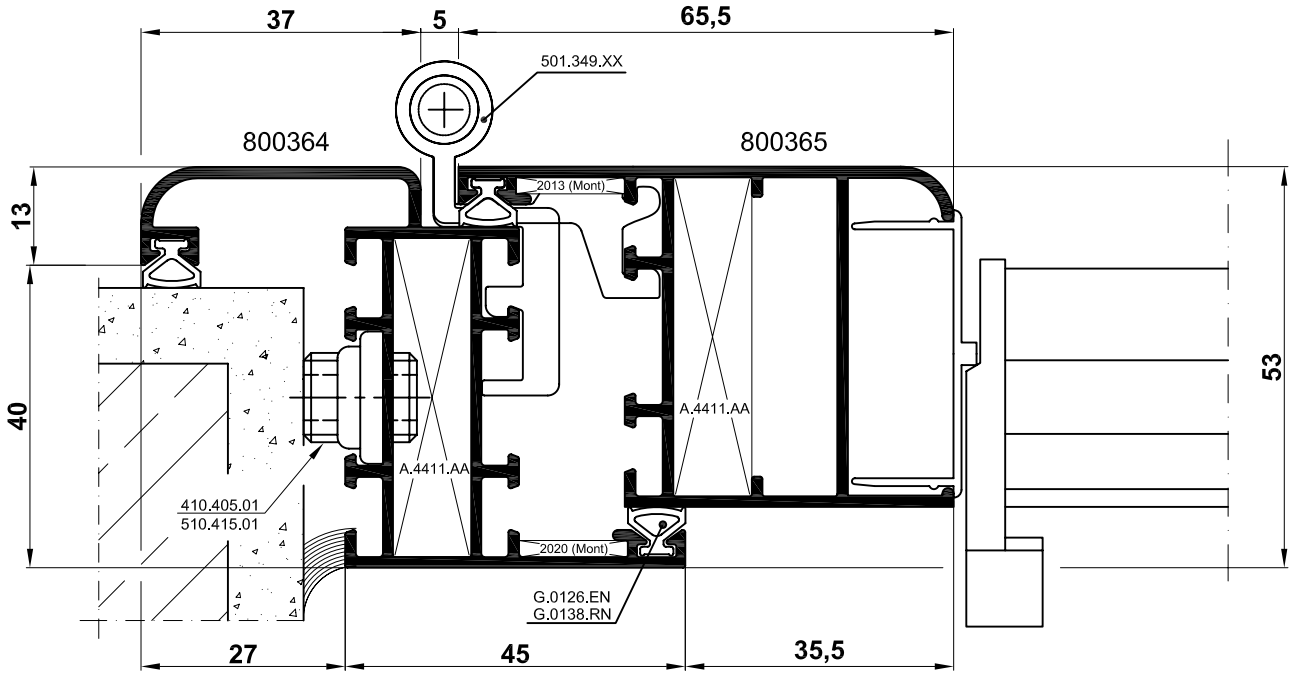

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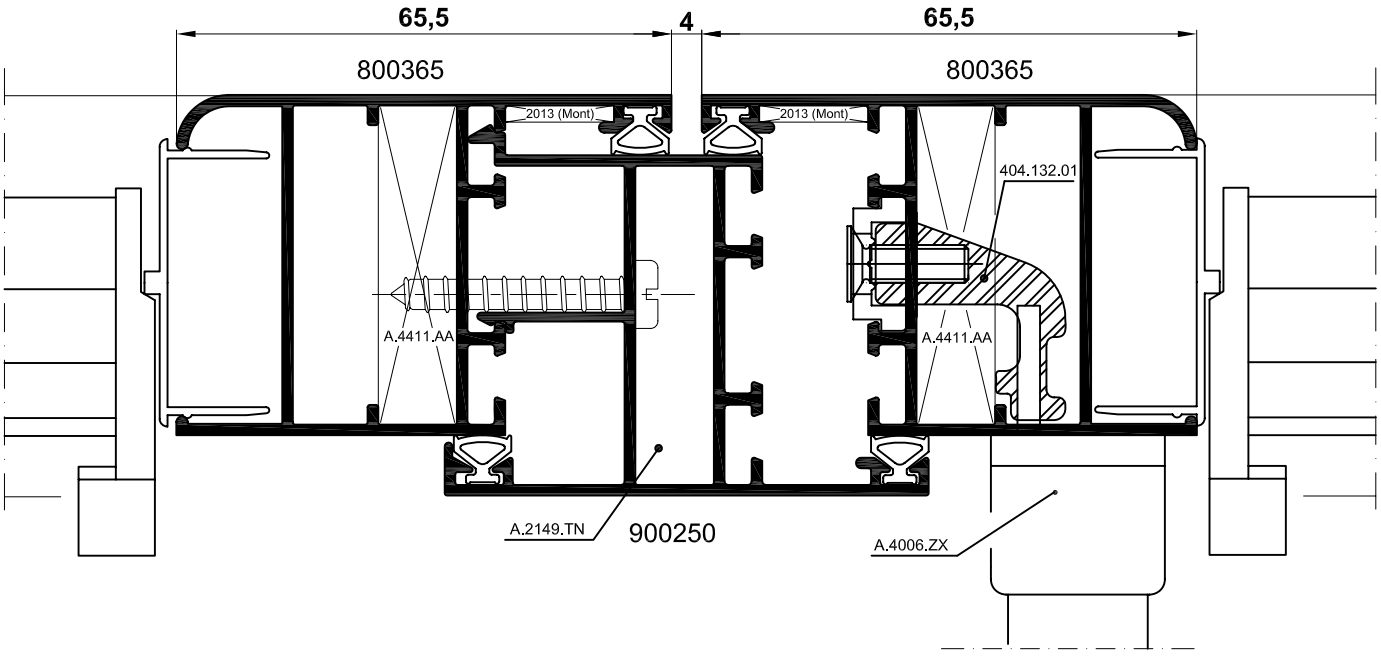

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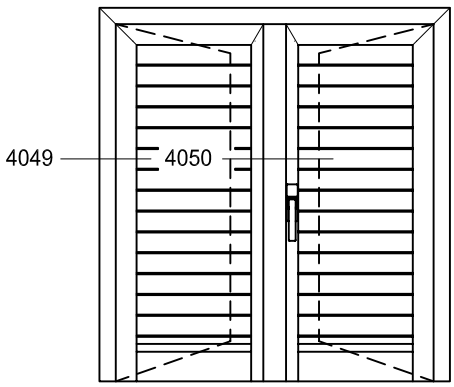

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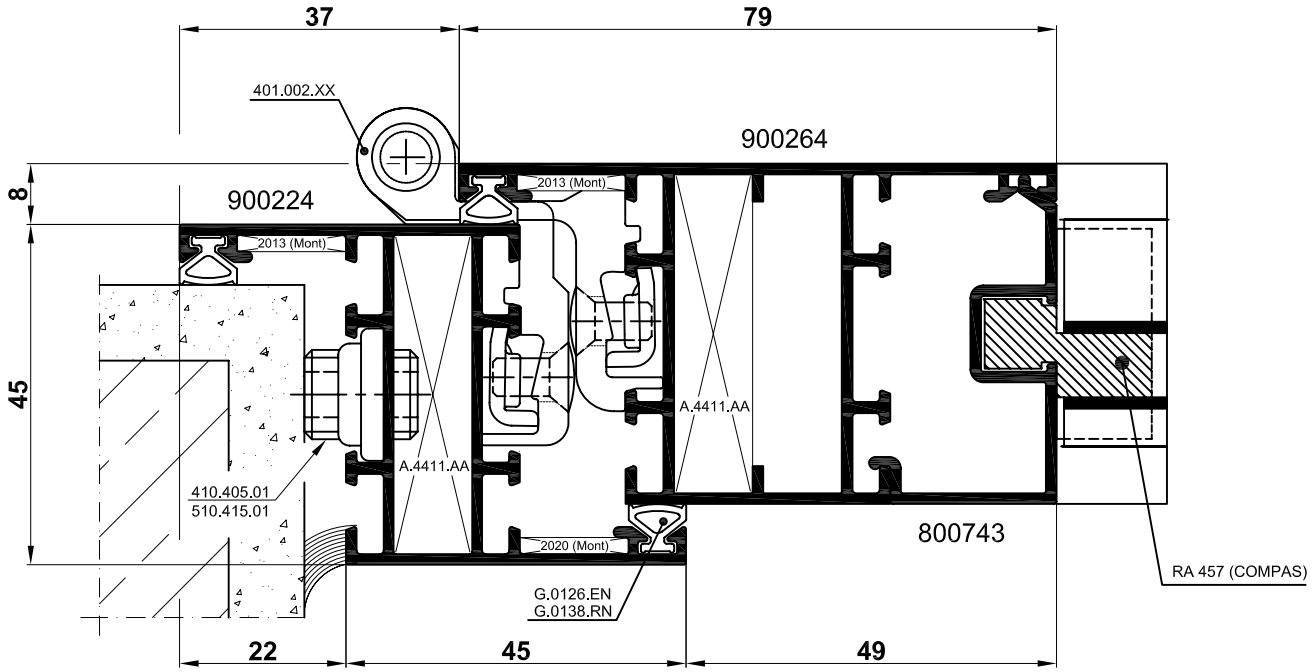

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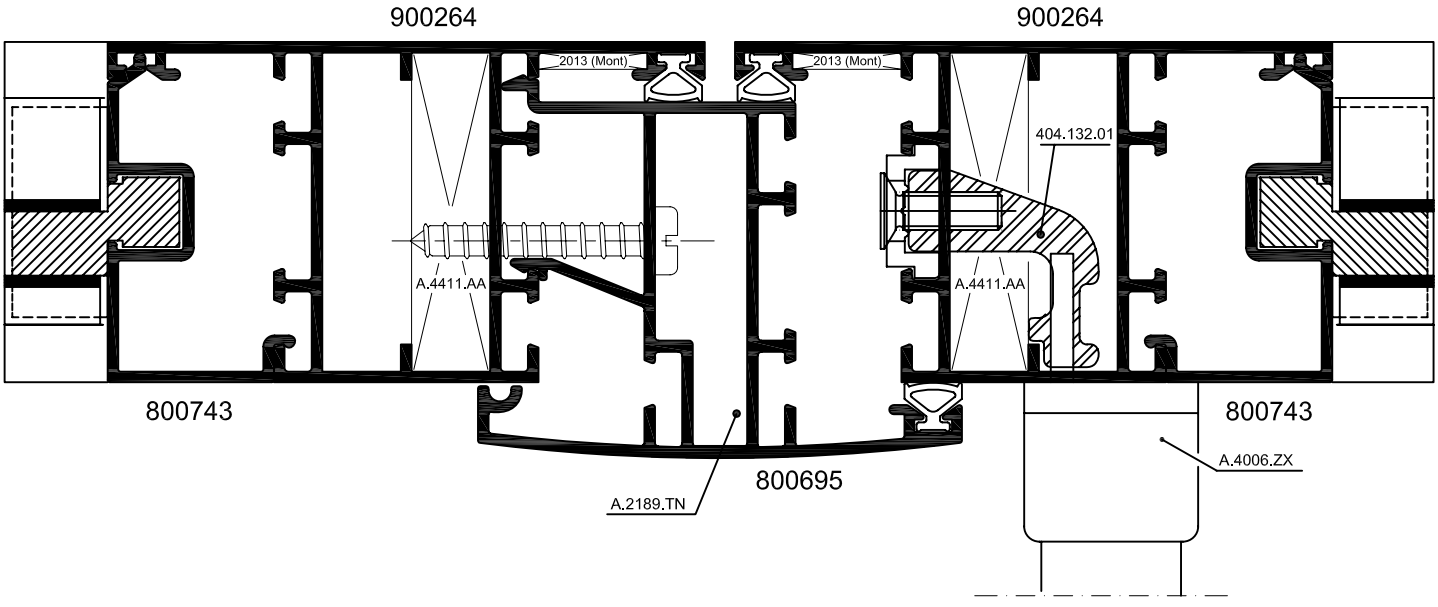

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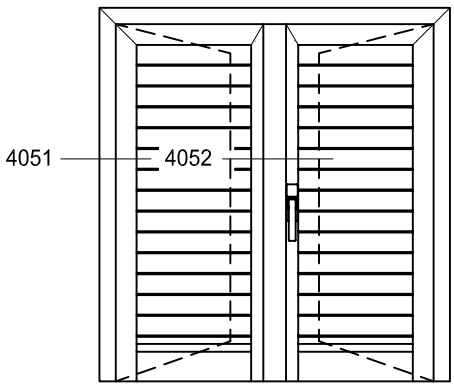

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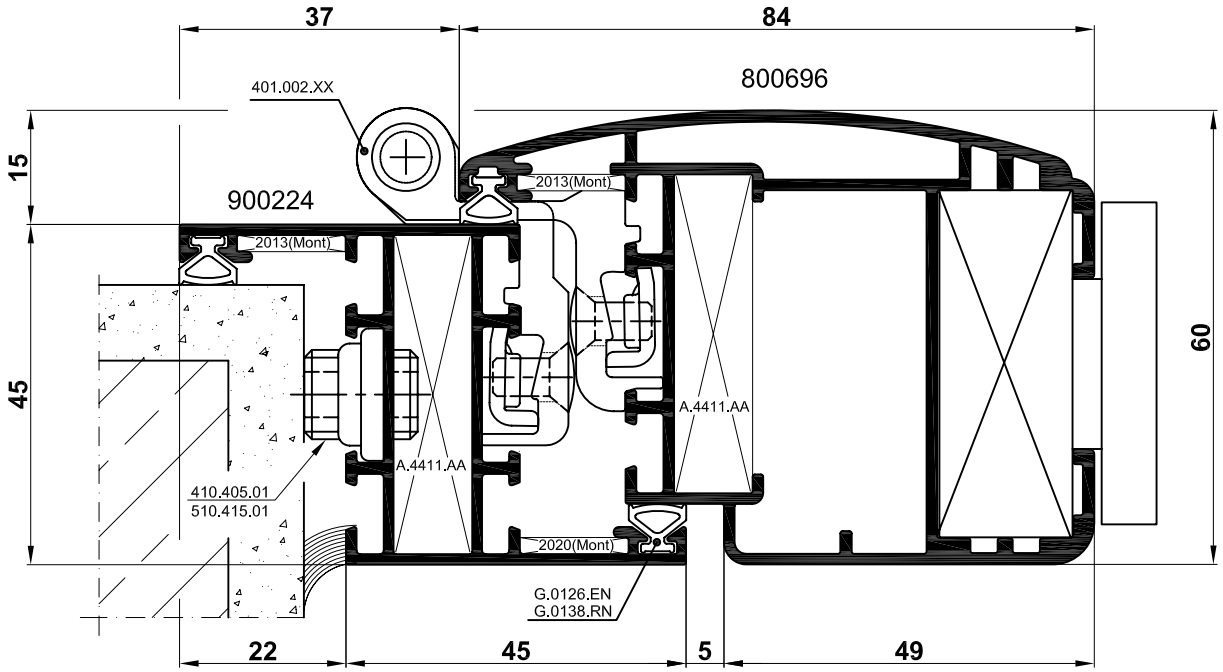

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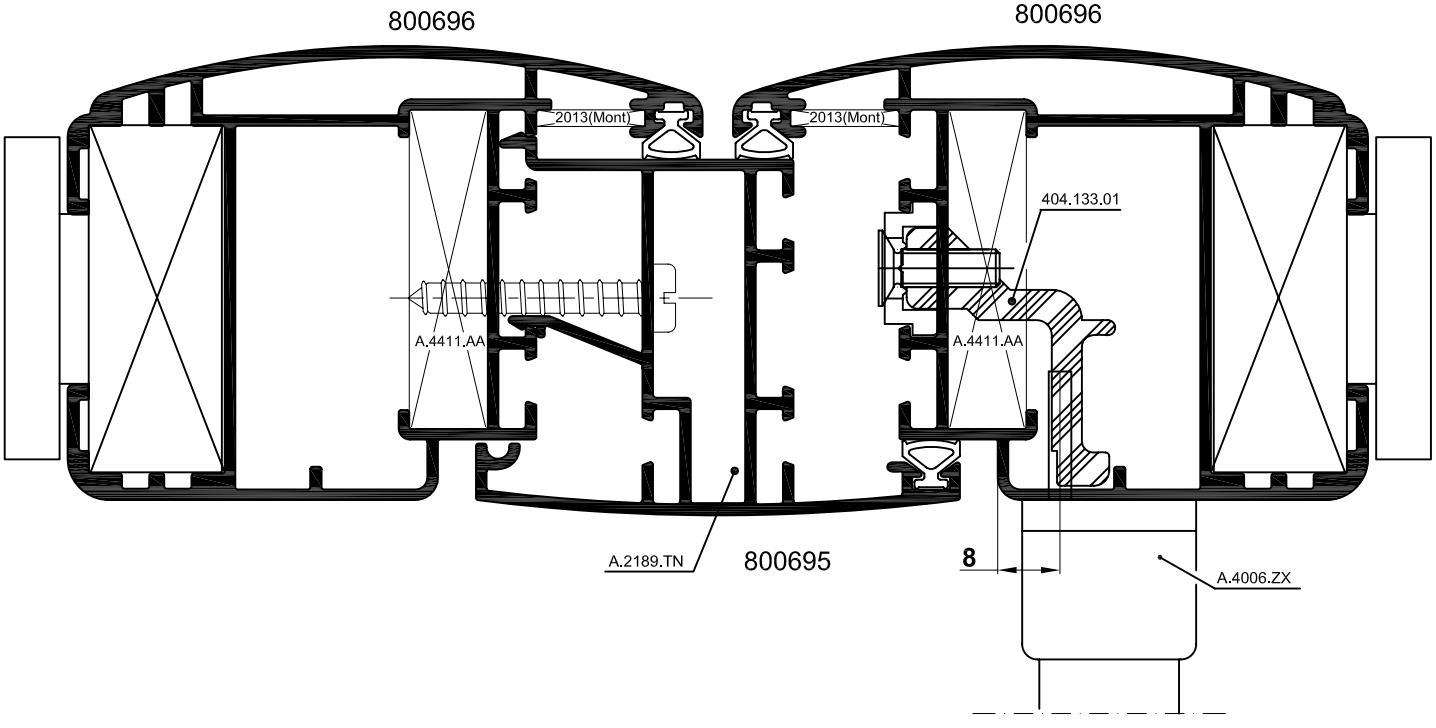

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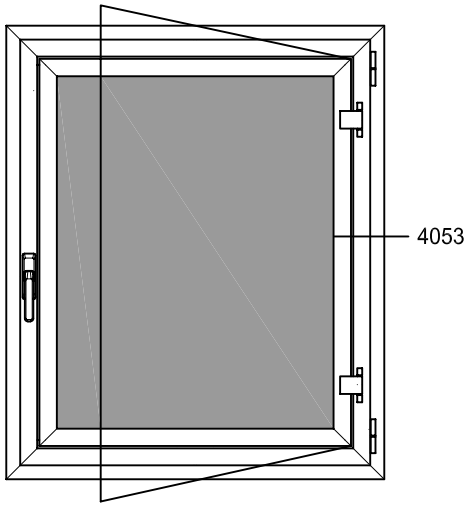

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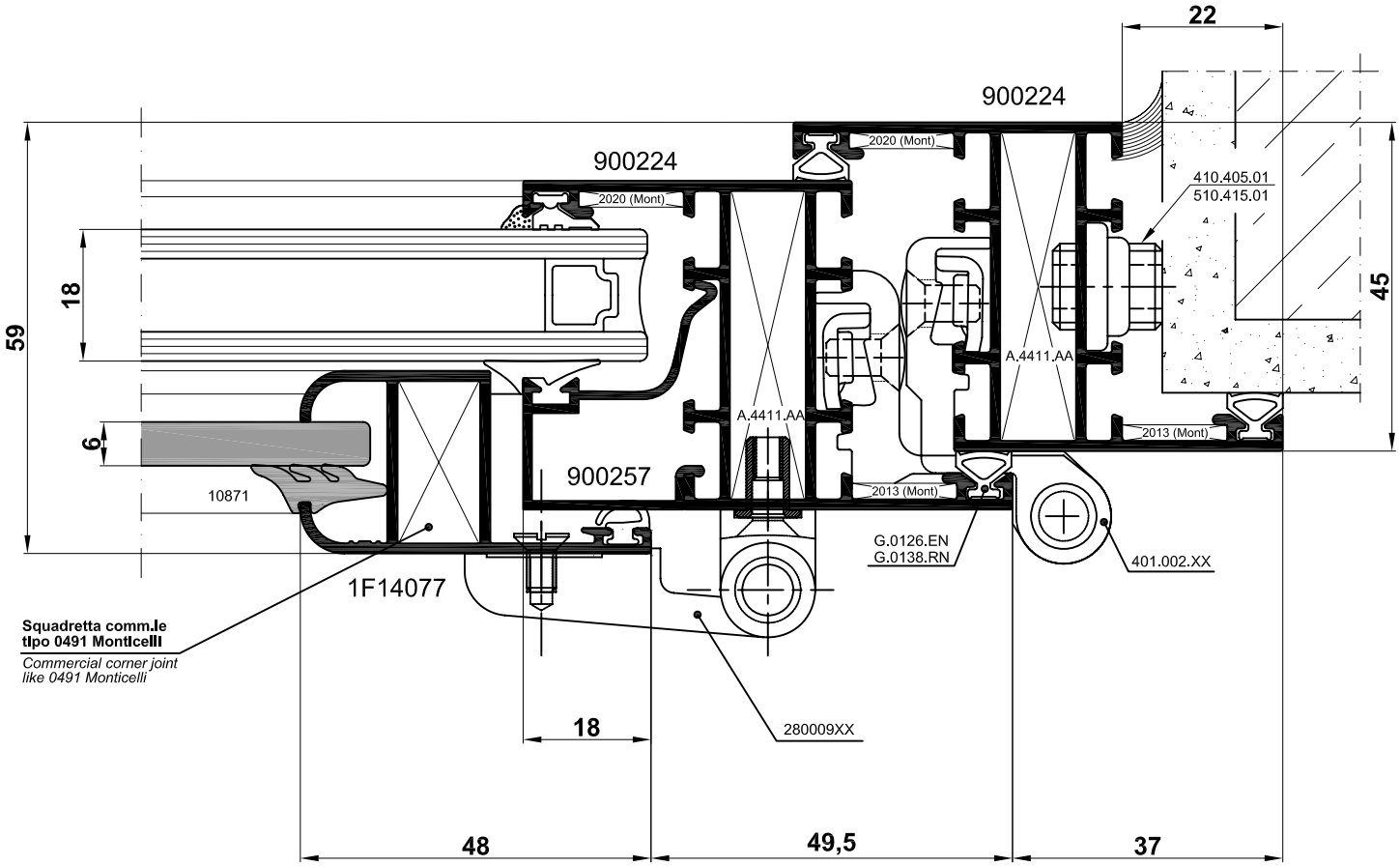

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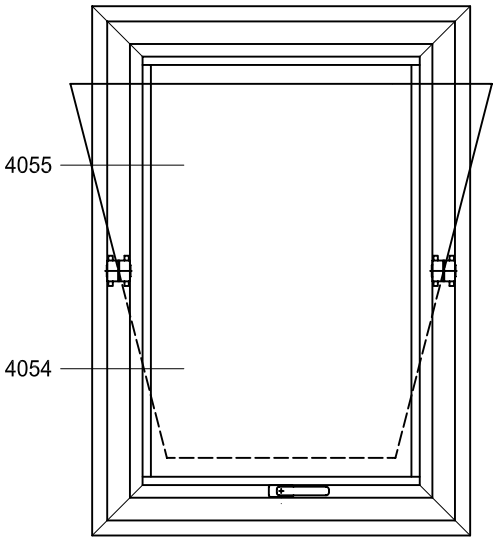

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OSS: FOR MORE DETAILS CONSULT SP.813.41

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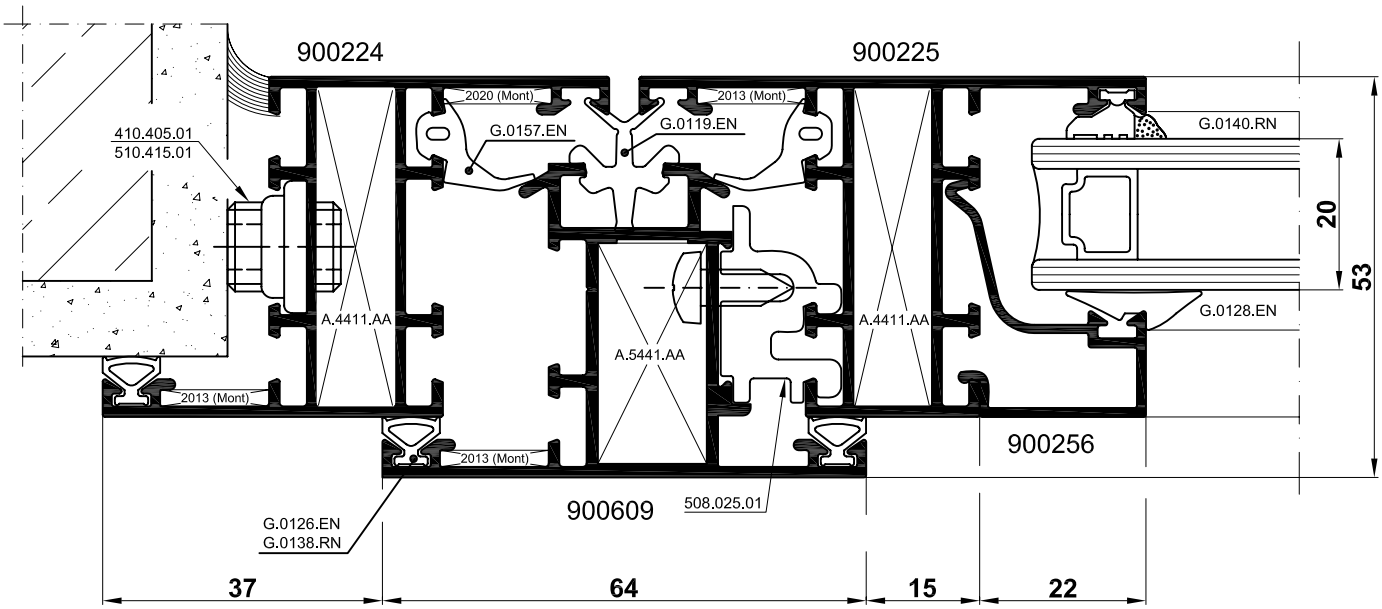

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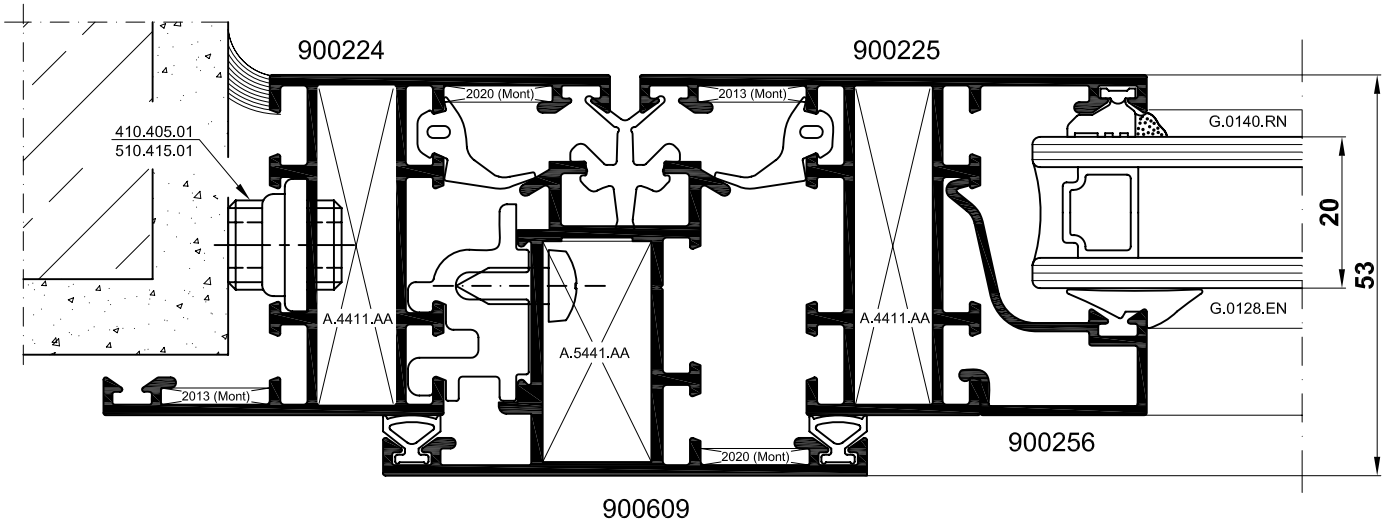

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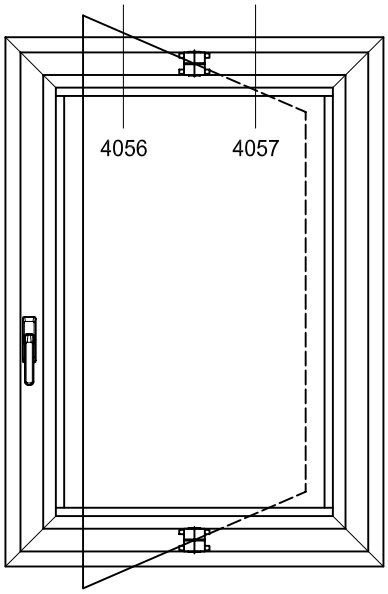

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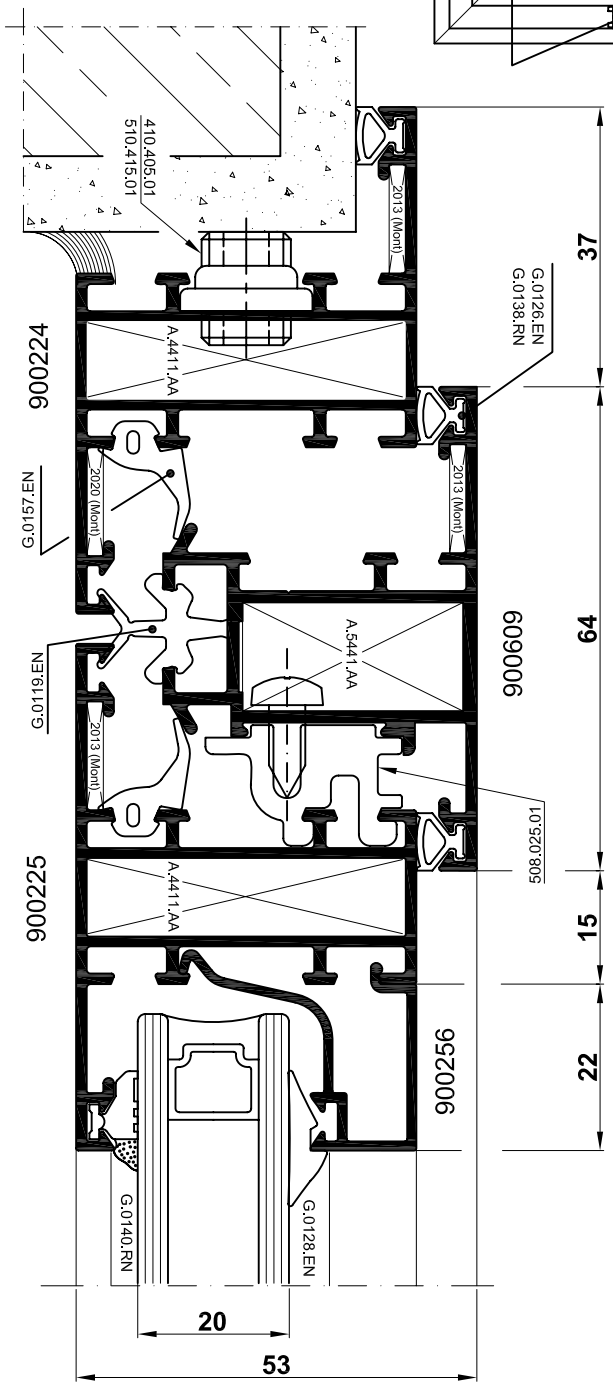

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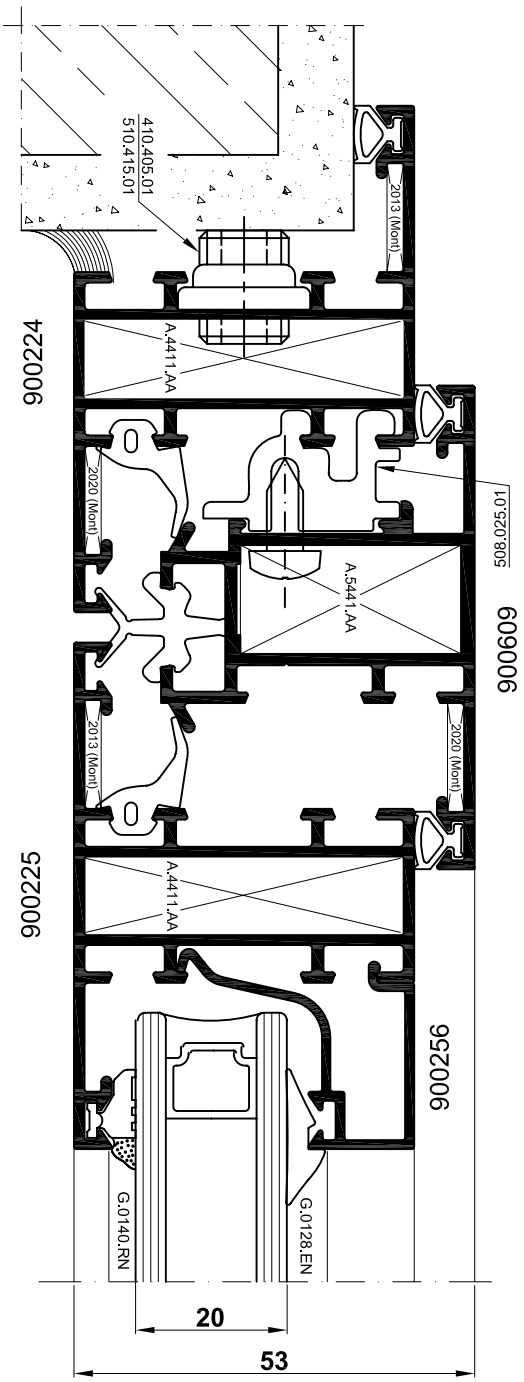

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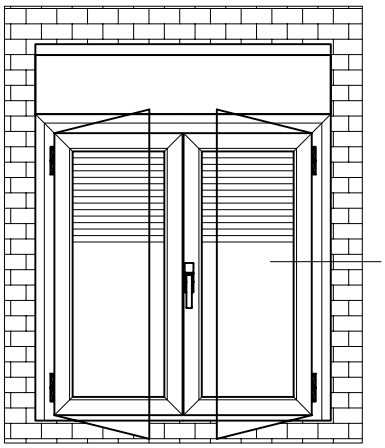

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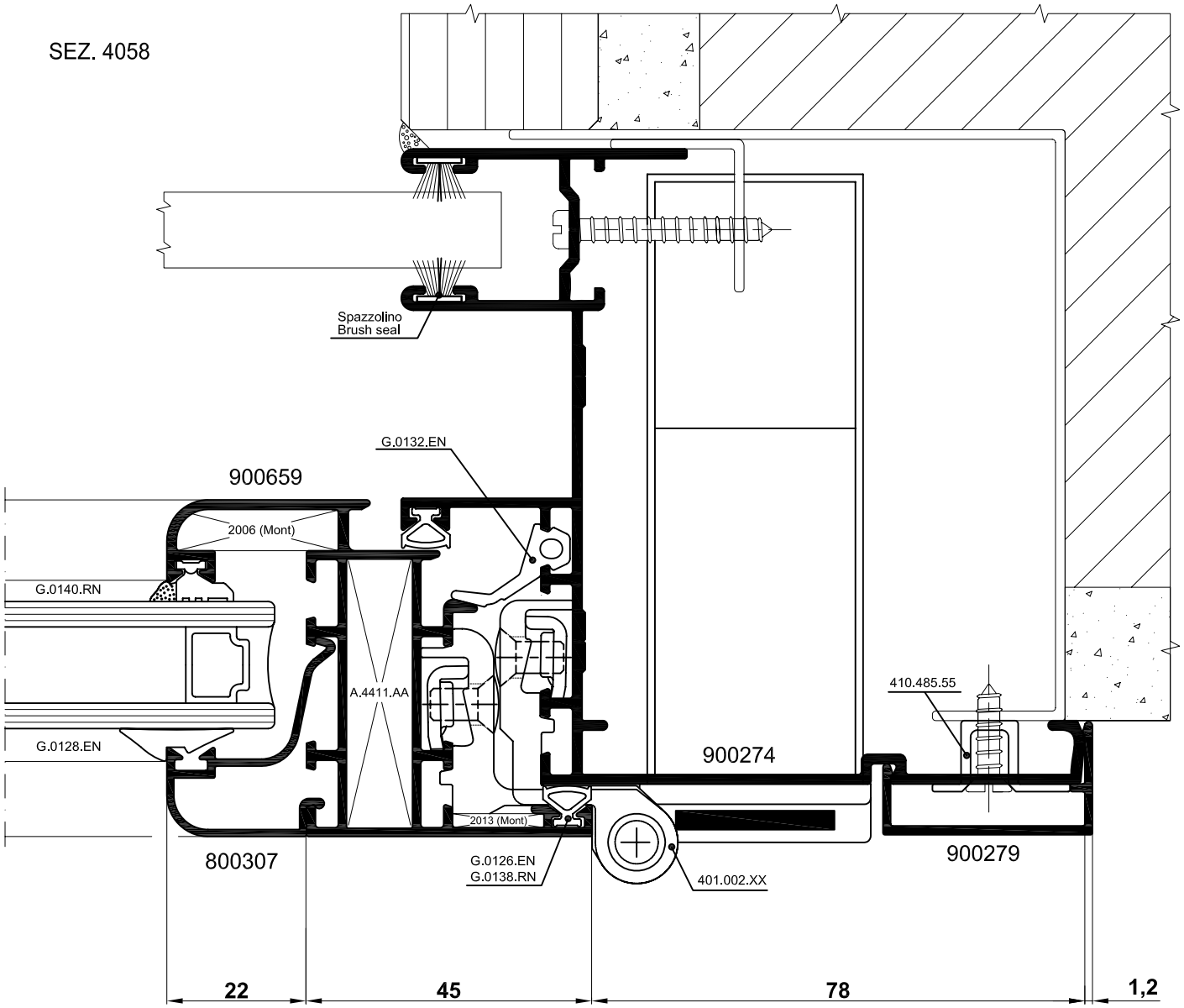

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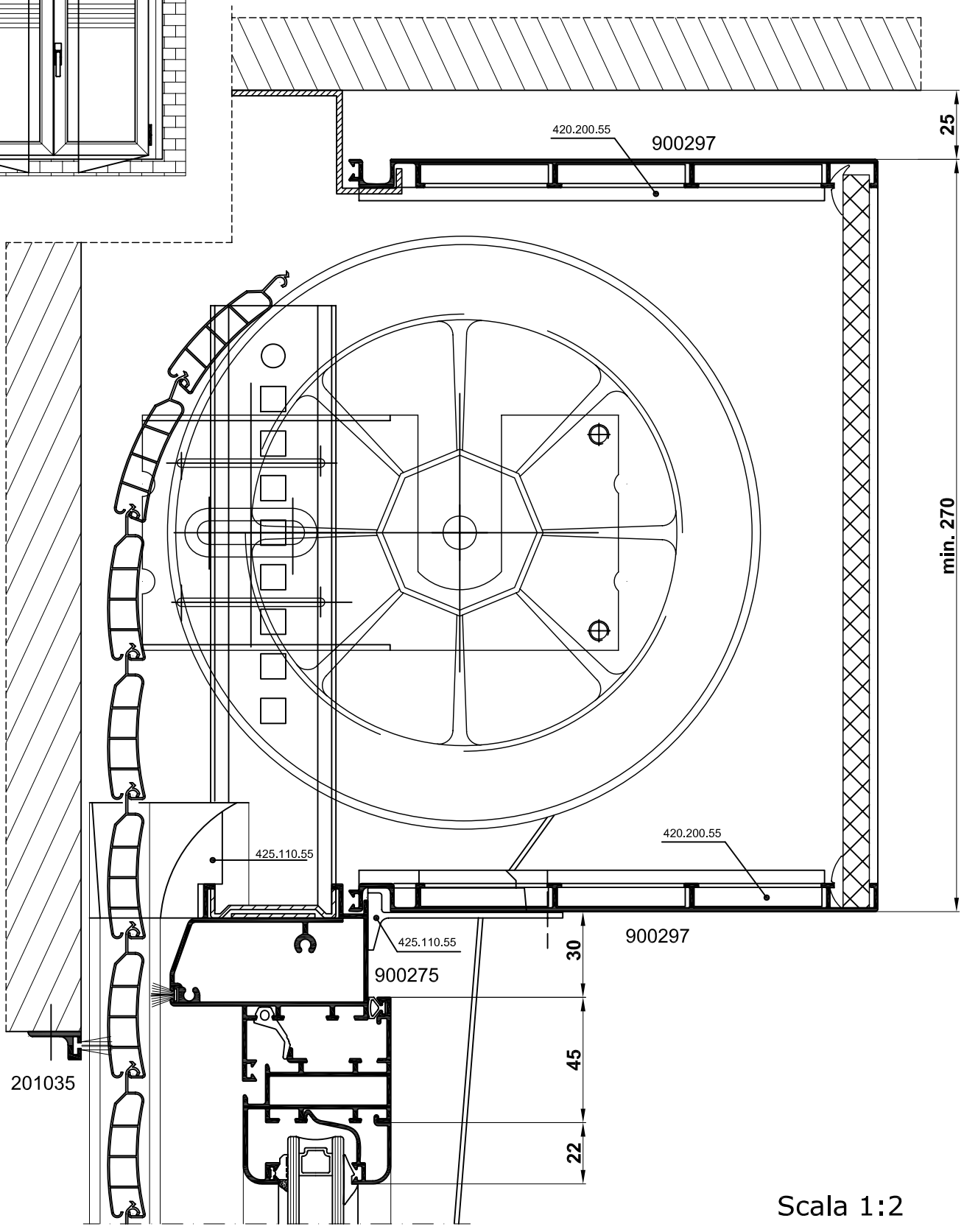

Scala 1:2

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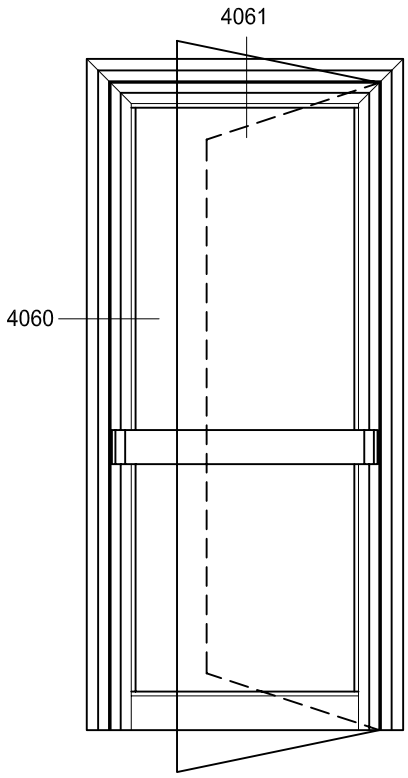

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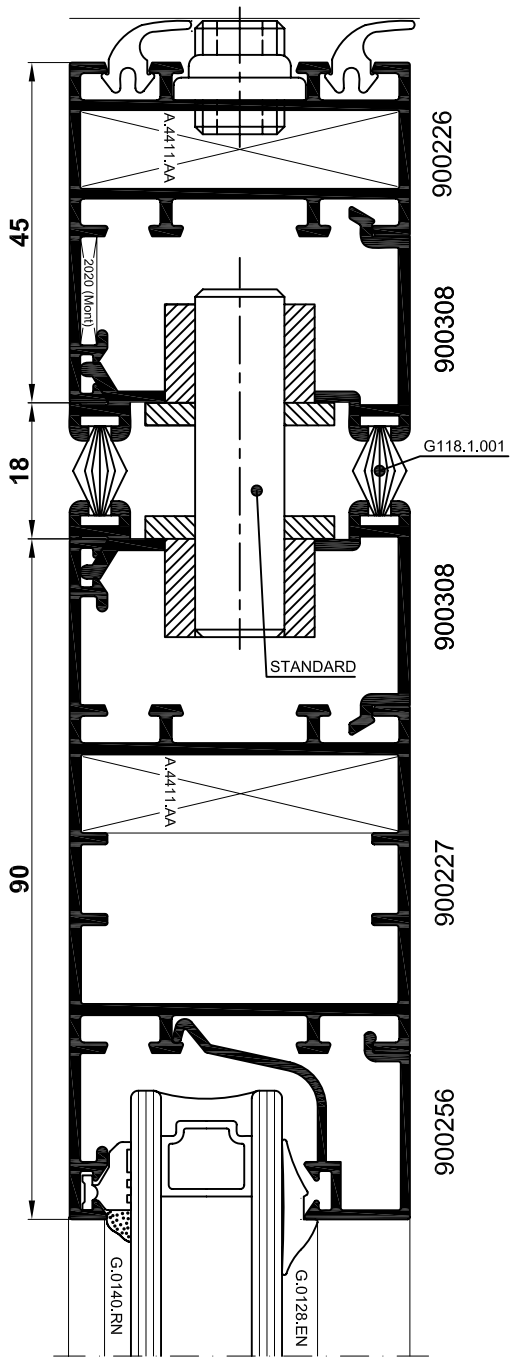

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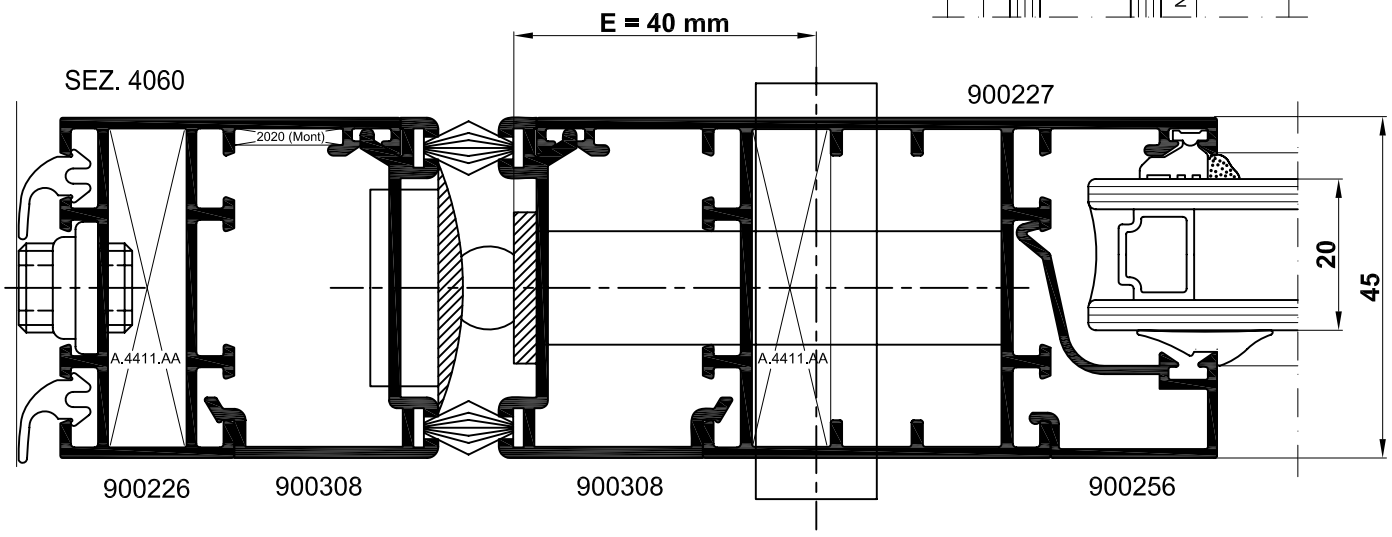

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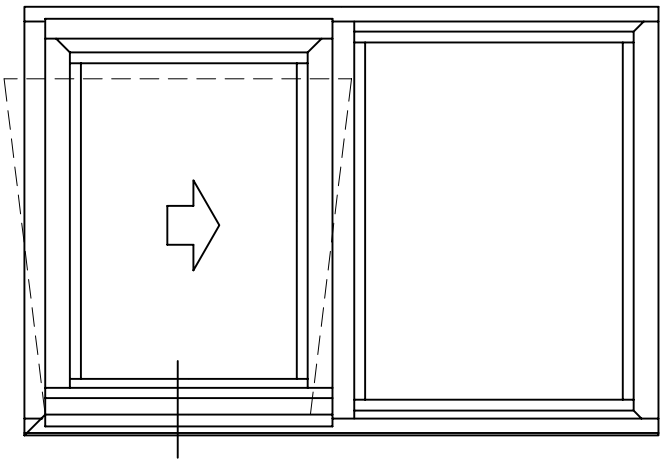

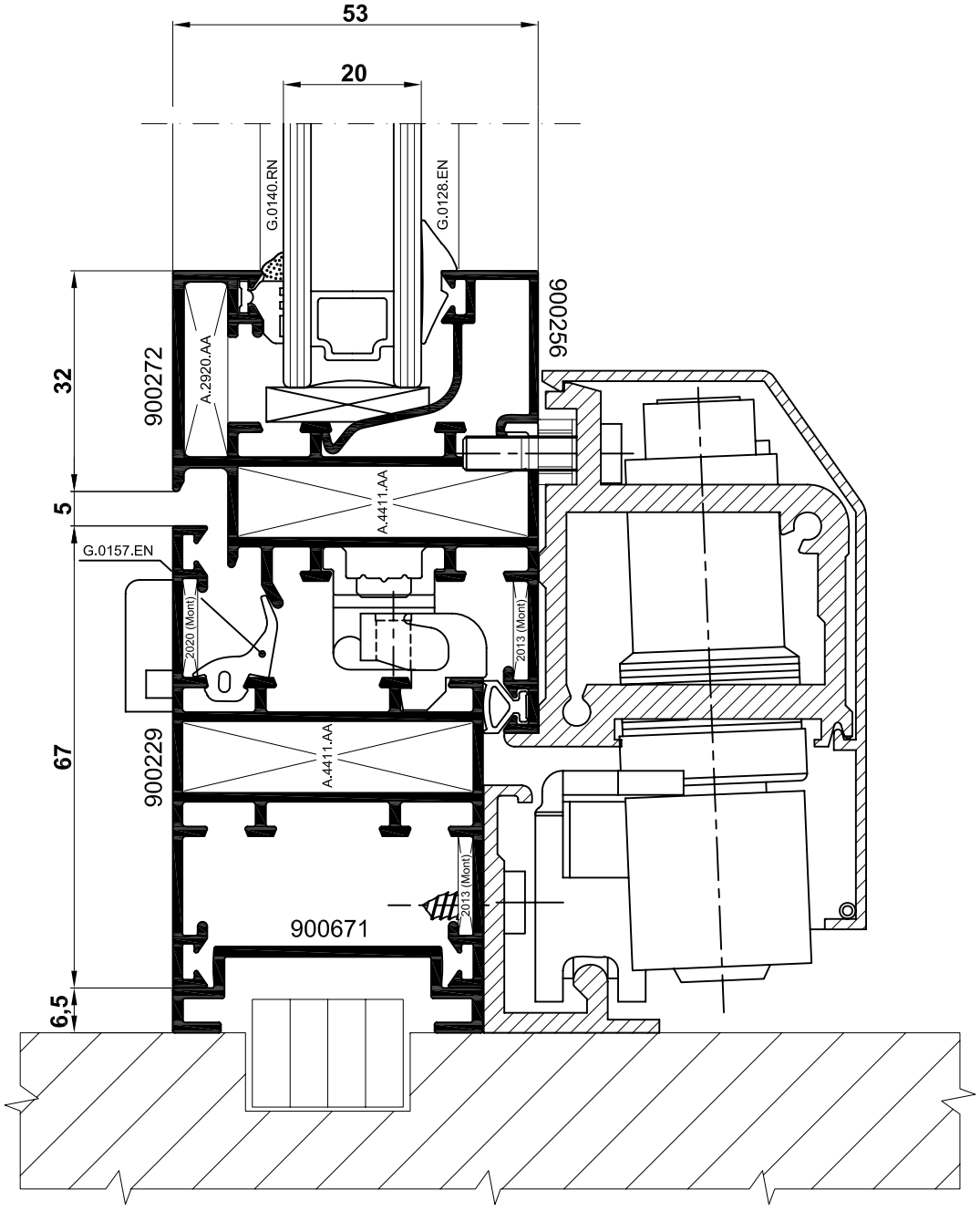

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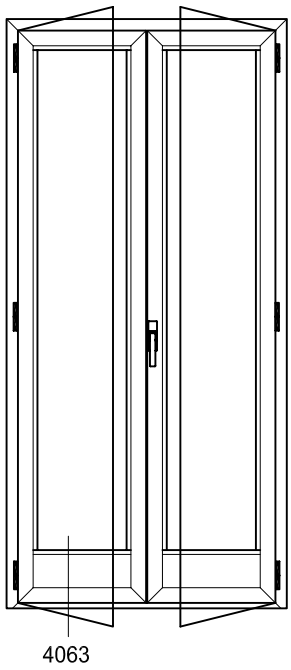

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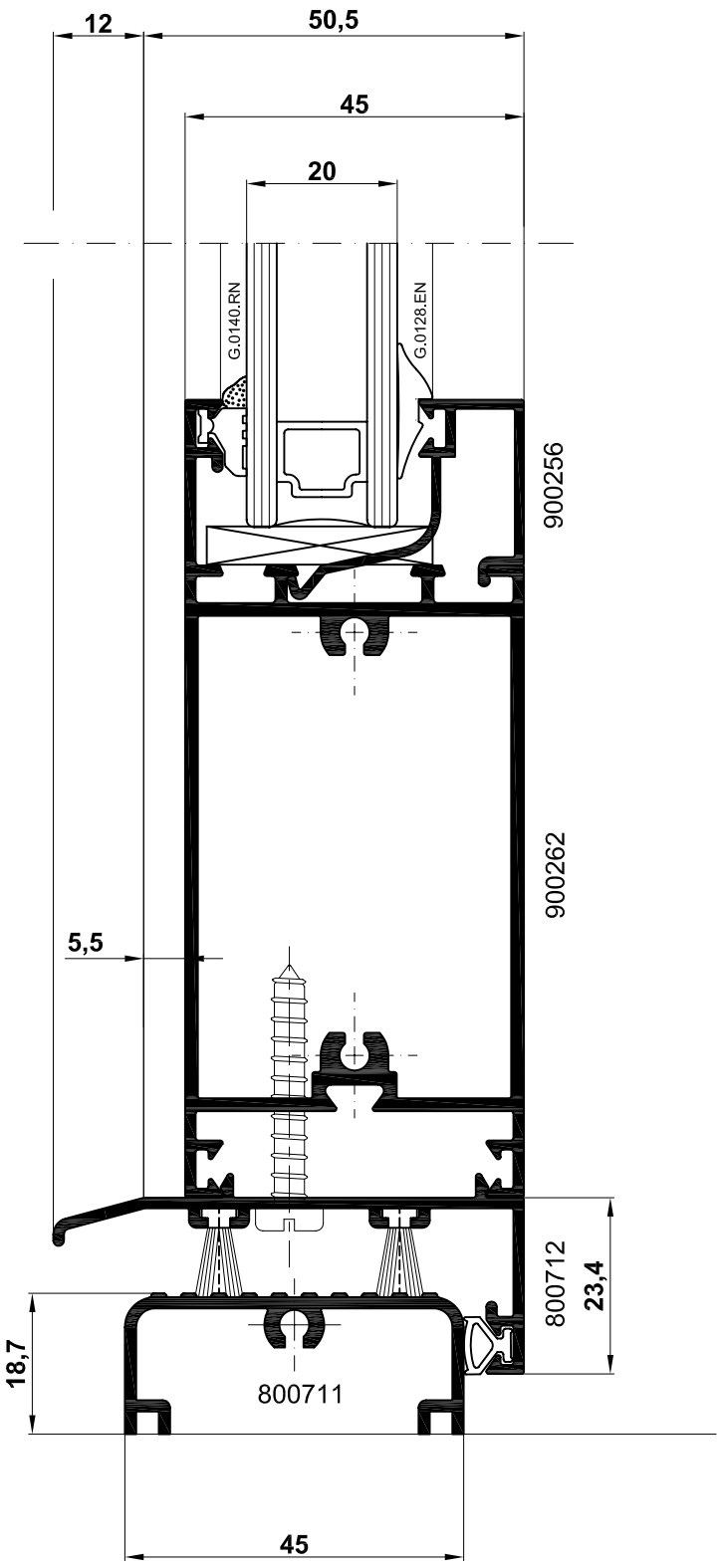
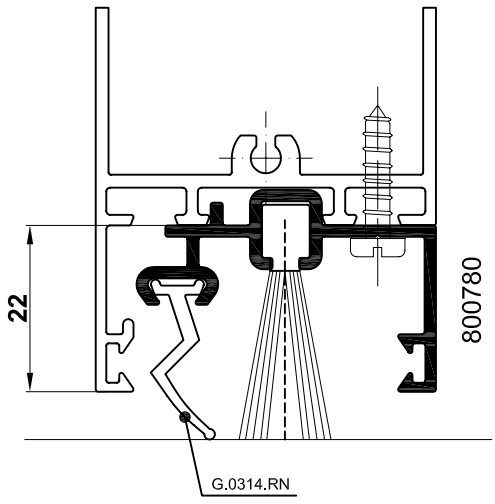


VARIANTE CON PROFILO 800780
VERSION WITH PROFILE 800780

SEZ. 4063



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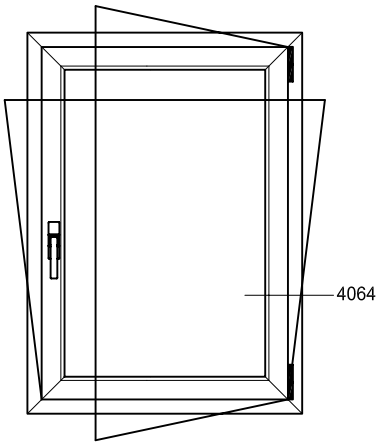

(*) Negli angoli a 45° le squadrette inserite nel tubolare esterno devono essere sempre incollate e cianfrinate. Cianfrinatura eseguibile anche con attrezzatuara manuale Cod. M.2001.OO
In the 45° corners, the corner joints in the external tubular section, must always be glued and caulked. Caulking may also be carried out by hand with equipment Art.M.2001.OO

CAMPO DI APPLICAZIONE
APPLICATION RANGE

H \ L	350	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
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600	50	50	50	50	50	50	●	●	●	●	●	●	●	●	●

H = Altezza anta mobile
H = Height of the moving leaf
L = Larghezza anta mobile
L = Widnt of the moving leaf

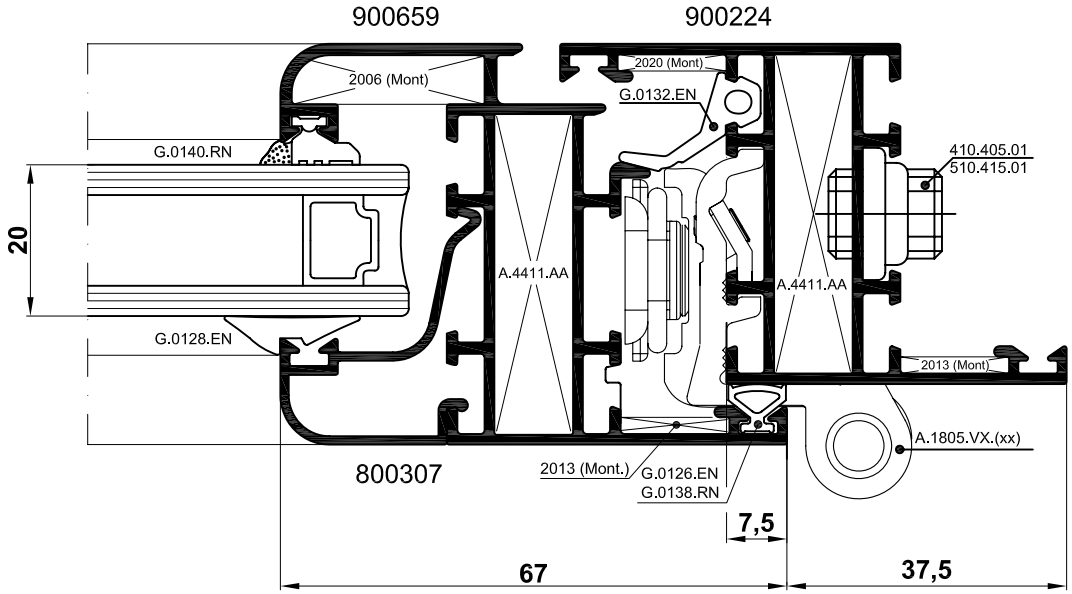
● Non eseguibile / Not feasible

28 Max spessore vetro 28 mm / Max glass thickness 28 mm

N.B. Lo spessore vetro si riferisce al materiale senza camera d'aria
N.B. Glass thickness refers to material without air chamber

PER MAGGIORI CHIARIMENTI CONSULTARE SP.918.01
FOR MORE DETAILS CONSULT SP.918.01

SEZ.4064



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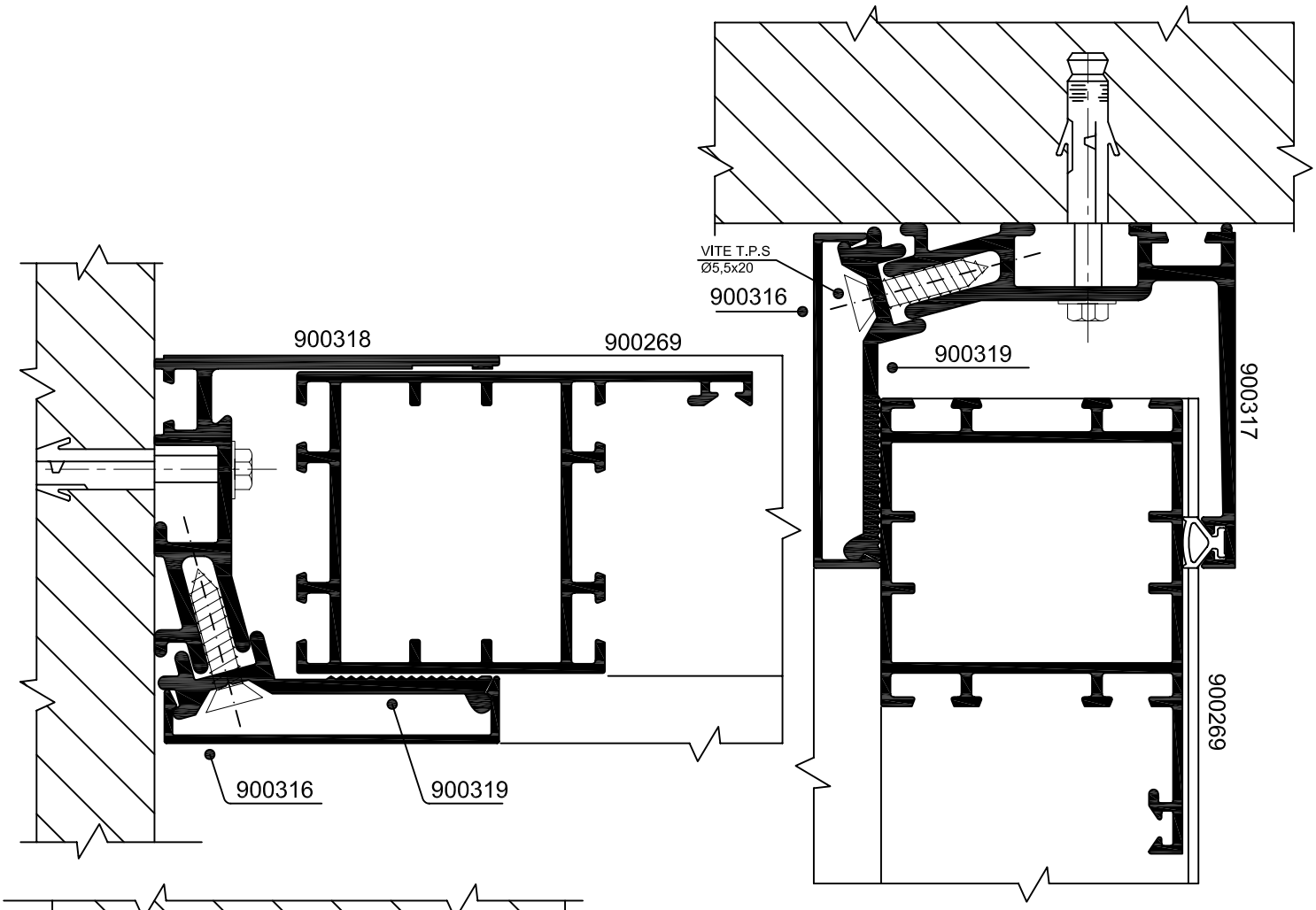
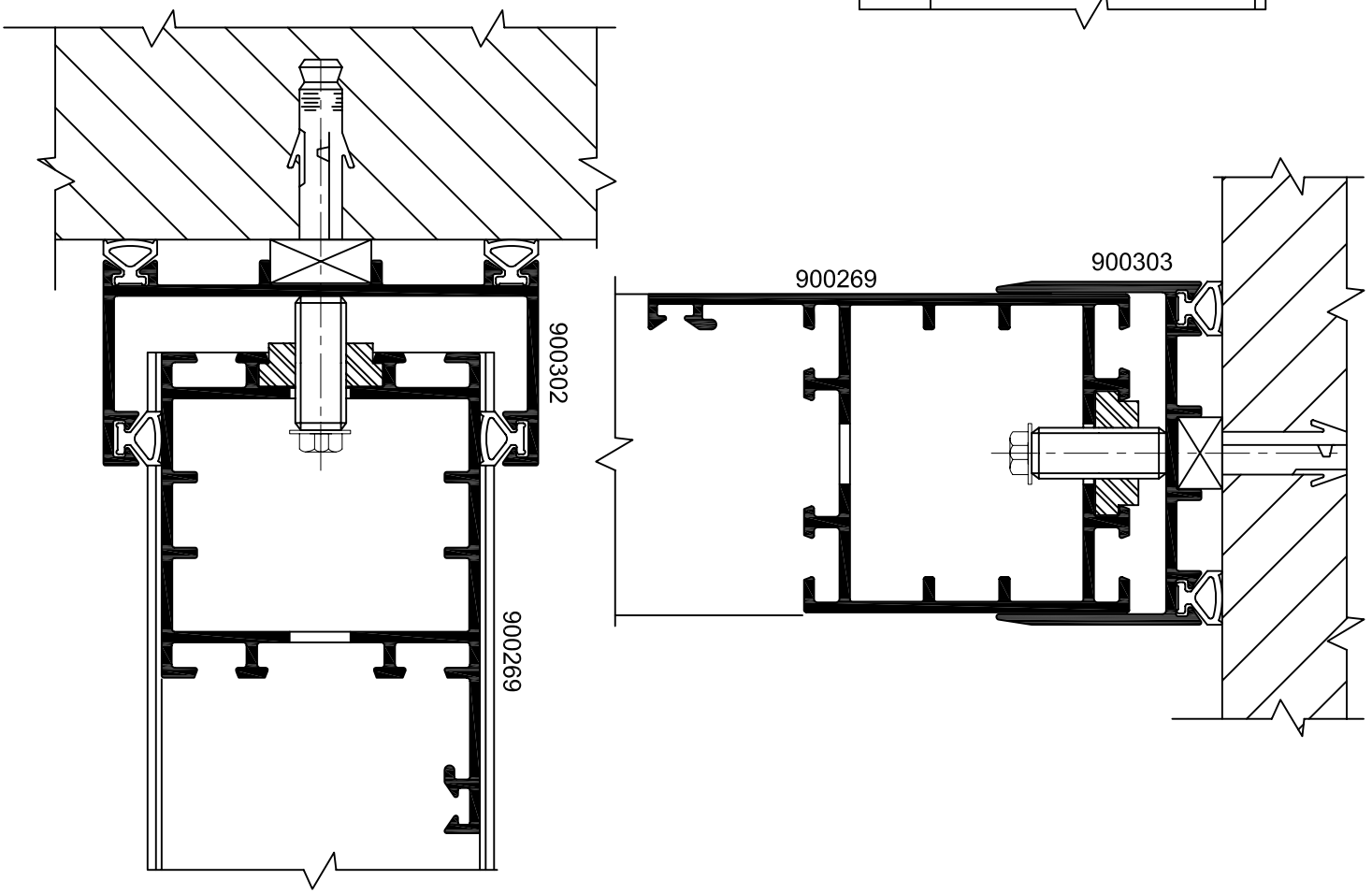
sapa:





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Ottobre
October

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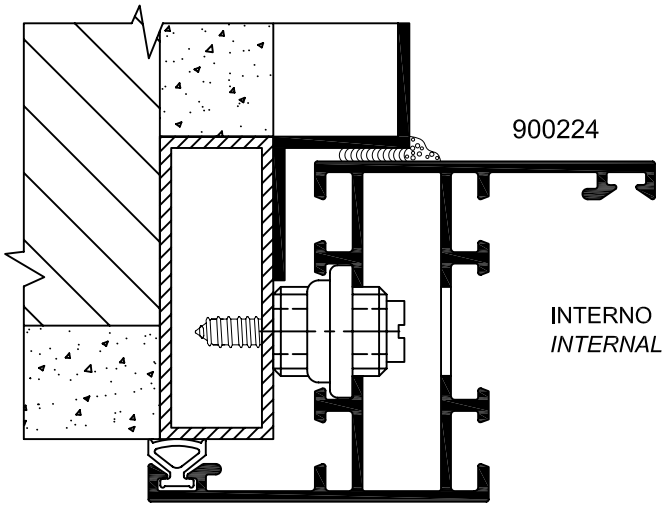

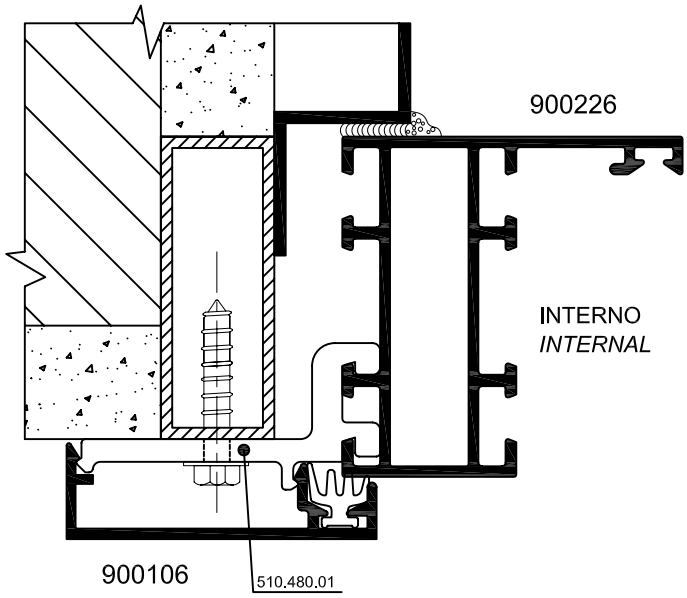

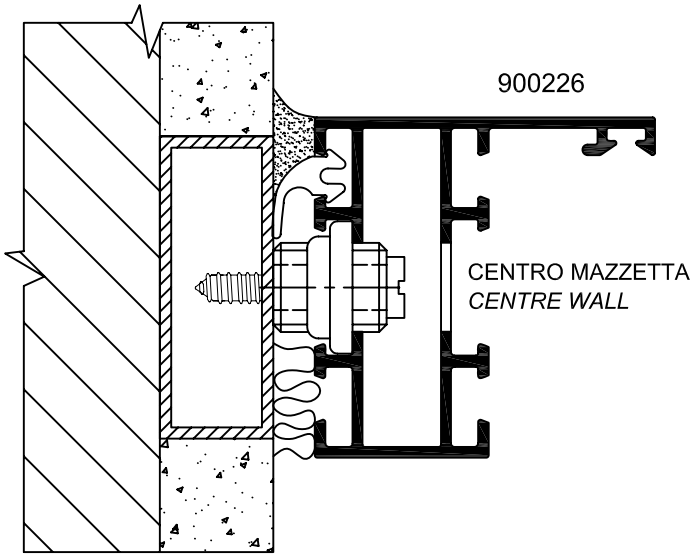

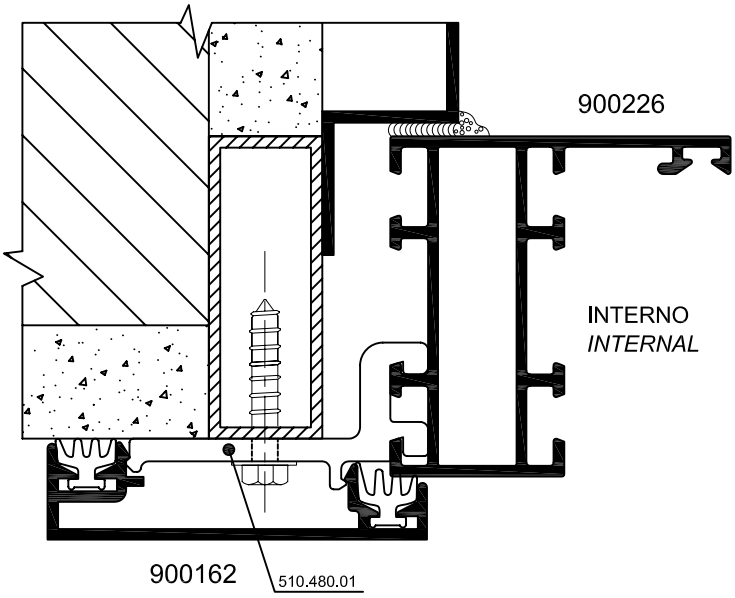

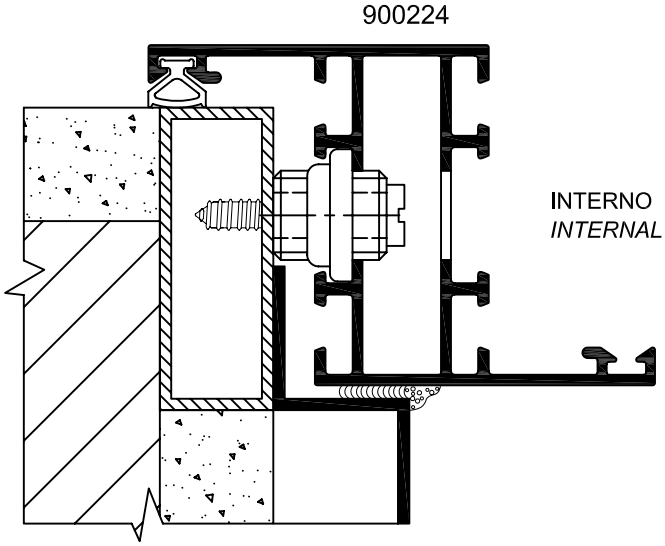

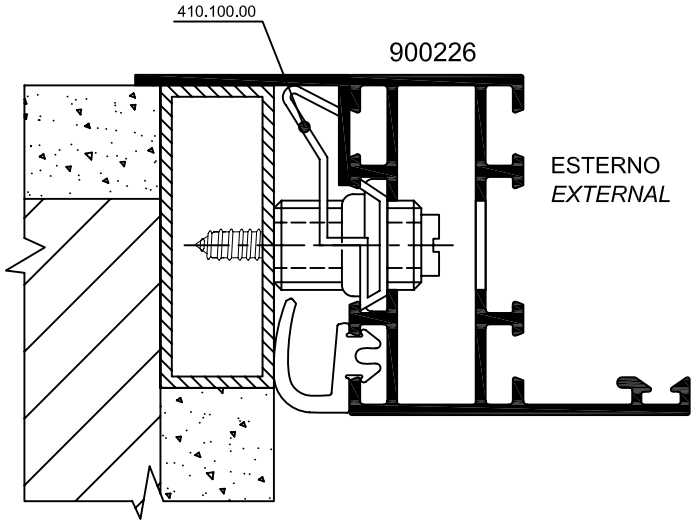

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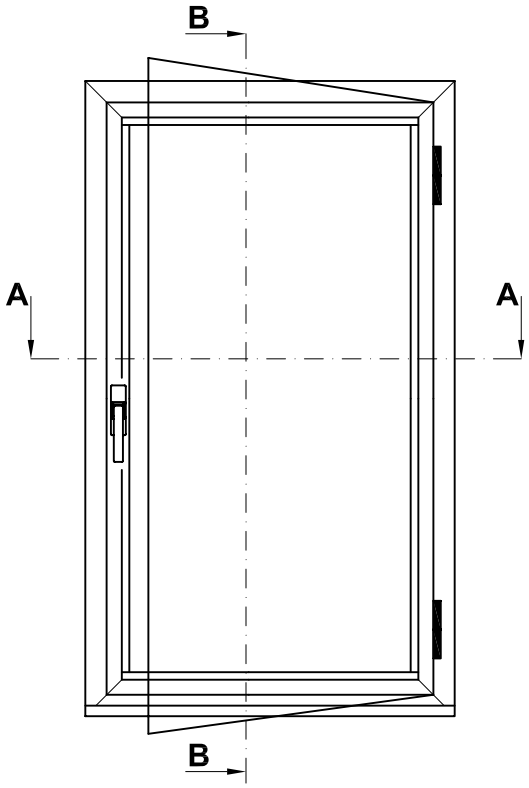
sapa:

DISTINTE DI TAGLIO FINESTRA 1 ANTA
CUT LIST 1 WING CASEMENTS WINDOW

N.B:
- **Le dimensioni di taglio e di lavorazione indicate nelle pagine seguenti sono state ottenute considerando le quote teoriche.**
  Pertanto è necessario verificare sempre le dimensioni dei profilati prima di effettuare i tagli.
  Sapa declina ogni responsabilità per errori dovuti al mancato controllo da parte del costruttore.

N.B:
- *The cutting and processing dimensions, indicated in the following pages, are obtained considering theorical values. It is, therefore, allways necessary to check the dimensions of the profiles before executing the cutting.*
  Sapa declines any responsability from errors caused from the missing dimensional check of the carpenter



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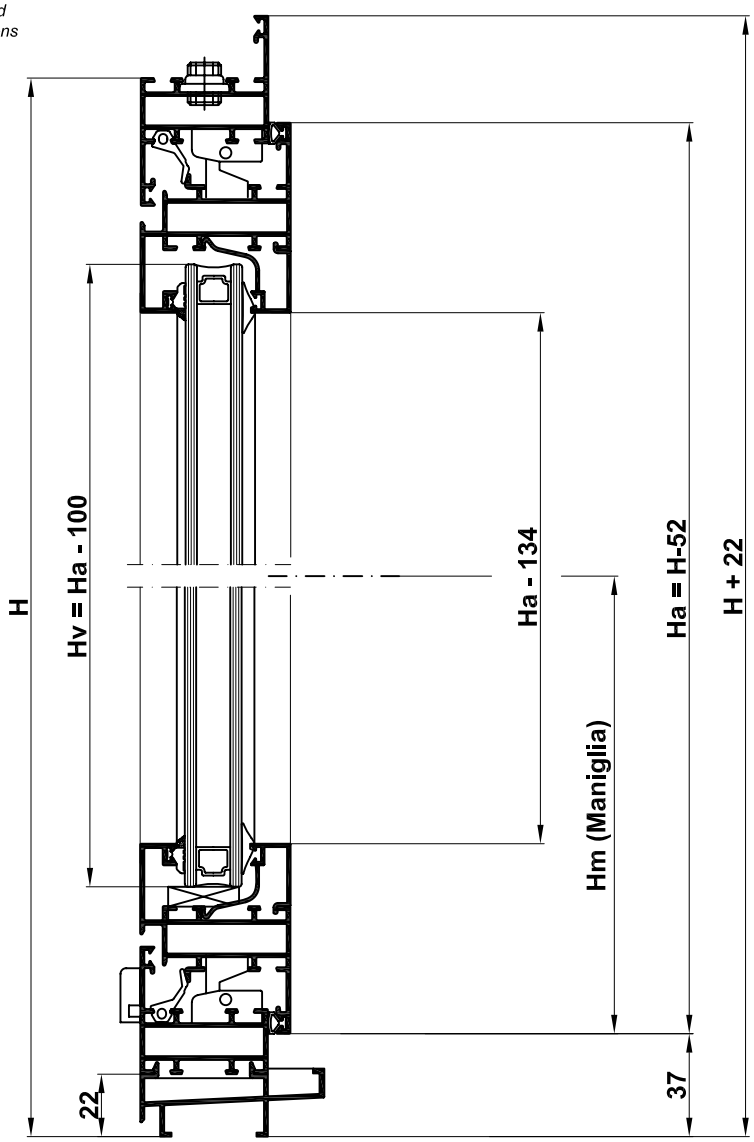
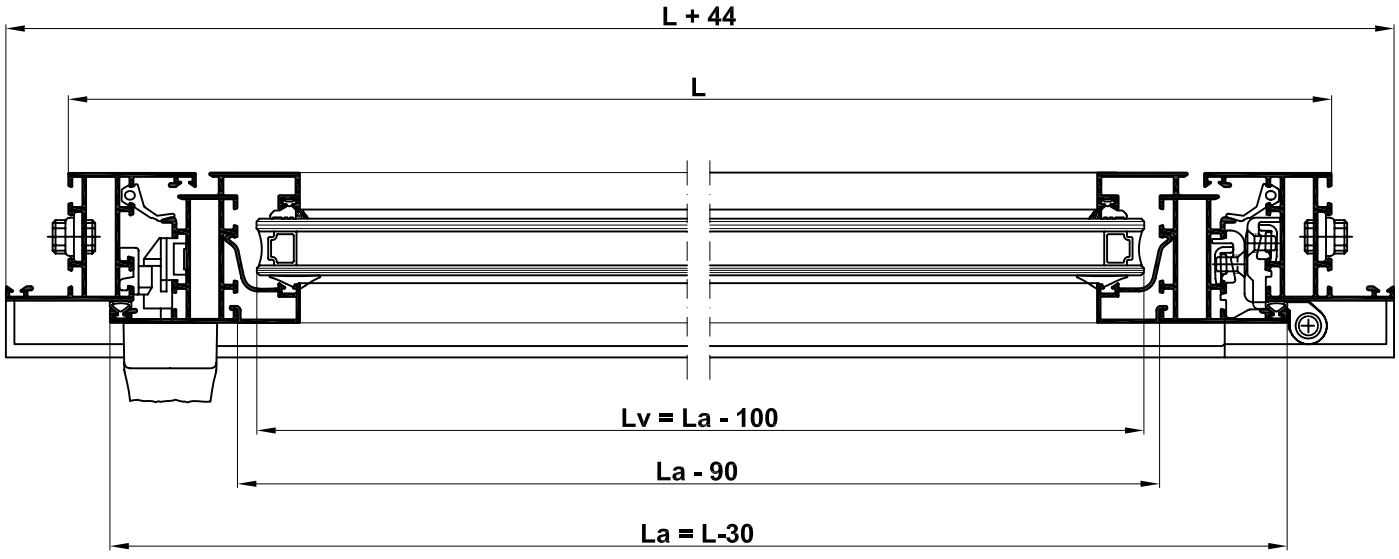


N.B.
Spessore vetro considerato 20mm
Gioco perimetrale tra profilato in allumino e vetro 5 mm
For glass with 20mm thickness
Space between glass and aluminium section 5 mm

SEZ. A-A



Rev. : 2007
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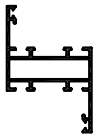
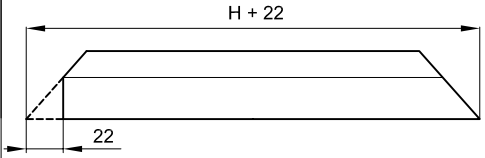
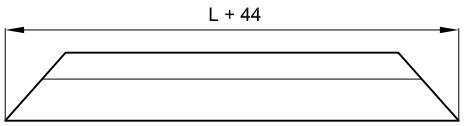
DISTINTE DI TAGLIO FINESTRA A 1 ANTA
CUT LIST ONE WING CASEMENT WINDOW

PROFILATO *SECTION*	**N.Pz** *N.Pz*	**TAGLIO** *CUT*	**N.Pz** *N.Pz*	**TAGLIO** *CUT*
900224 	2		1	
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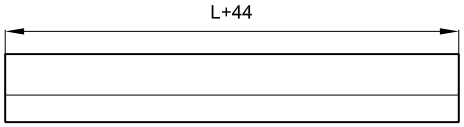
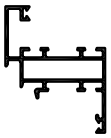
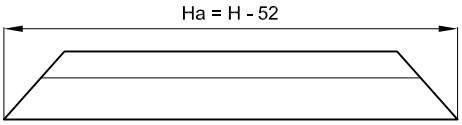
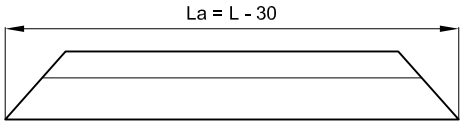
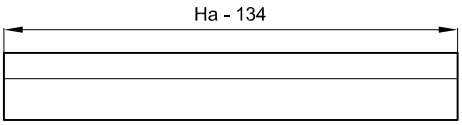
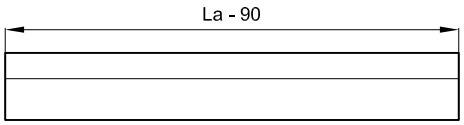
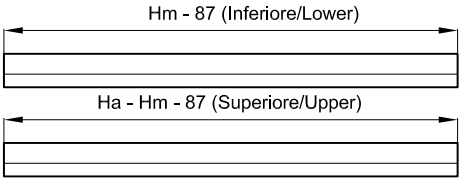
900273			1	
900657 	2		2	
900256	2		2	
900221	2			

ACCESSORI
ACCESSORIES

ARTICOLO *ITEM*	**DESCRIZIONE** *DESCRIPTION*	*N.*	**ARTICOLO** *ITEM*	**DESCRIZIONE** *DESCRIPTION*	*N.*	**ARTICOLO** *ITEM*	**DESCRIZIONE** *DESCRIPTION*	*N.*
A.4411.AA	Squadretta in alluminio estruso inserto unificato *Extruded aluminium corner joint unified insert*	*8*	*A.2920.NN*	Squadretta d' allineamento lato esterno 900657 *Alignment corner joint on fin 900657*	*4*	*510.490.55*	Tappo coprIforo rettangolare Ø 12mm *Rectangular coverhole plug Ø 12mm*	*8*
404.110.55	Coppia innesti cremonese apertura interna *Pair of couplings for internal opening*	*1*	*A.4003.ZX*	Cremonese reversibile apertura interna *Reversible cremone for internal opening*	*1*	*Comm.le*	Tasselli spessoramento vetro *Glass registration dolly*	*4*
404.145.05	Coppia puntali in zama *Zamak pair of terminals*	*1*	*504.081.55*	Riscontro in nylon con rullino per puntali *Nylon striker with roller for terminals*	*2*			
410.405.01	Basetta regolo mobile *Plate for adjustable block*	*8*	*509.261.55*	Paratempesta in nylon *Nylon water drainage cover*	*2*			
A.0227.EN	Angolo stampato per guarnizione G.0132.EN *Printed angle for weatherstrips G.0132.EN*	*4*	*510.420.01*	Regolo mobile L = 20 mm *Adjustable block L = 20 mm*	*8*			
401.231.XX	Cerniera sfilabile *Slip-off hinge*	*2*	*504.103.01*	Riscontro terza chiusura su innesti *Striker for 3rd locking on couplings*	*1*			
2013 (Mont.)	Squadretta d' allineamento aletta Interna "FUJI" *Alignment corner joint for rabbet internal "FUJI"*	*6*	*409.100.55*	Coppia tappi laterali raccoglicondensa *Pair lateral plugs for condensation collection*	*1*			
2020 (Mont.)	Squadretta d' allineamento aletta esterna "FUJI" *Alignment corner joint for rabbet esterna "FUJI"*	*4*	*509.282.55*	Tappo laterale di chiusura raccoglicondensa *Insert internal handle for locking*	*2*			

GUARNIZIONI
WEATHERSTRIPS

ARTICOLO *ITEM*	**DESCRIZIONE** *DESCRIPTION*	*N.*	**ARTICOLO** *ITEM*	**DESCRIZIONE** *DESCRIPTION*	*N.*	**ARTICOLO** *ITEM*	**DESCRIZIONE** *DESCRIPTION*	*N.*
G.0140.RN	Guarnizione appoggio vetri da 3 mm *mm 3 glass support weatherstrip*	*2H - 2L*	*G.0132.EN*	Guarnizione per precamera *Central weatherstrip*	*2H - 2L*			
G.0128.EN	Guarnizione su fermavetro spessore 3 mm *Weatherstrip on glazing bead shim mm 3*	*2H - 2L*	*G.0126.EN*	Guarnizione di battuta *Weatherstrip of rabbet*	*2H - 2L*			

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Gennaio
January

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CUT LIST TWO WINGS CASEMENT WINDOW

N.B:
- **Le dimensioni di taglio e di lavorazione indicate nelle pagine seguenti sono state ottenute considerando le quote teoriche.**
  Pertanto è necessario verificare sempre le dimensioni dei profilati prima di effettuare i tagli.
  Sapa declina ogni responsabilità per errori dovuti al mancato controllo da parte del costruttore.

N.B:
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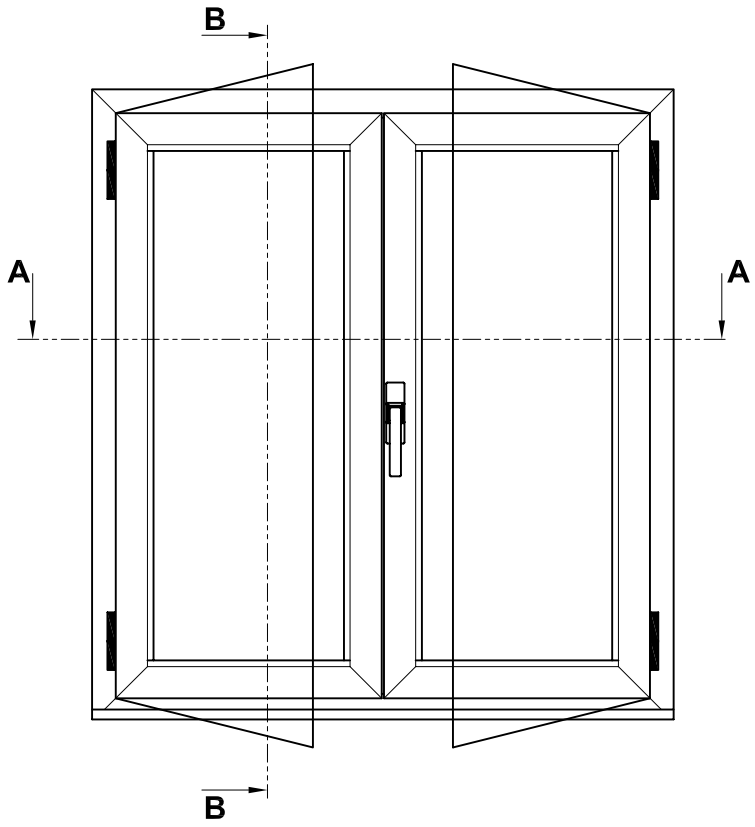
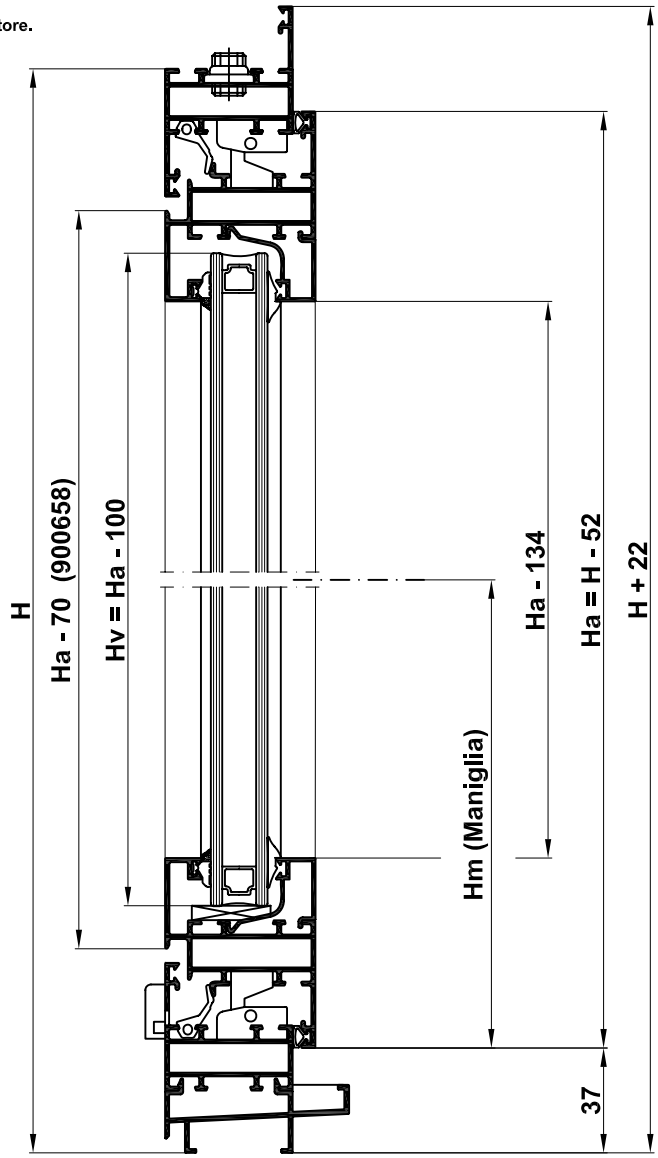
  Sapa declines any responsability from errors caused from the missing dimensional check of the carpenter

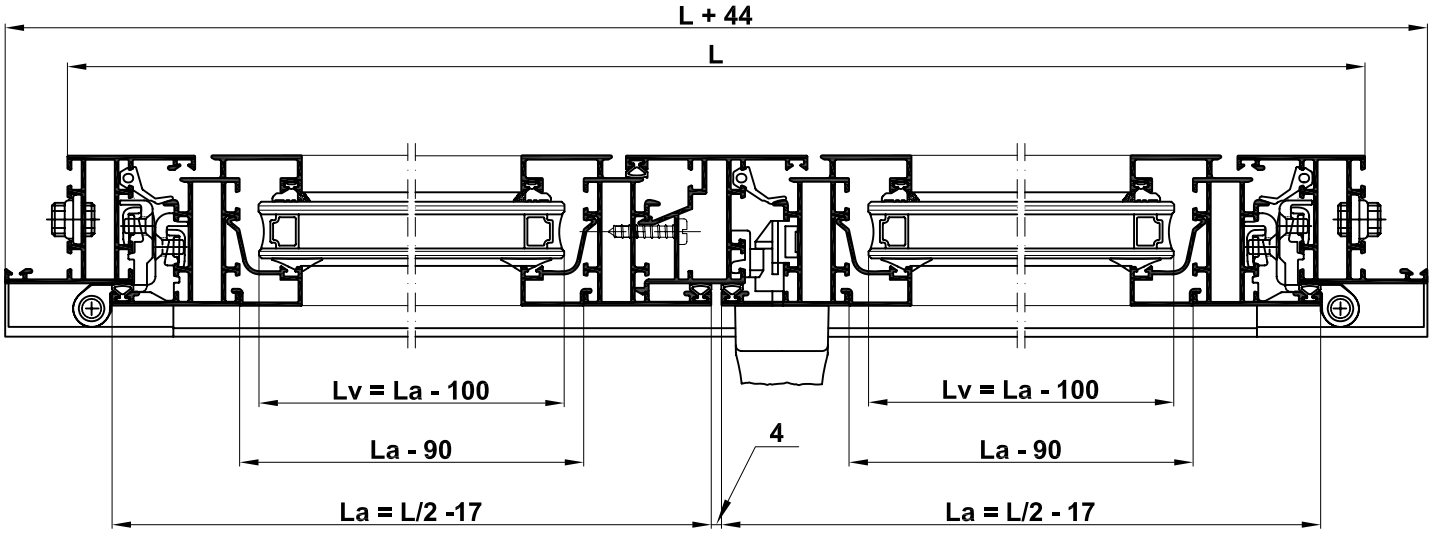


SEZ. B-B



N.B.
Spessore vetro considerato 20mm
Gioco perimetrale tra profilato in allumino e vetro 5mm
For glass with 20mm thickness
Space between glass and aluminium section 5mm

SEZ. A-A



Rev. : 2007
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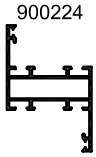
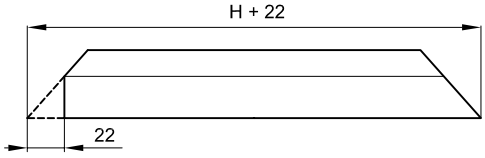
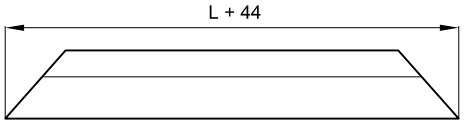
DISTINTE DI TAGLIO FINESTRA A 2 ANTE
CUT LIST TWO WINGS CASEMENT WINDOW

PROFILATO *SECTION*	N.Pz *N.Pz*	TAGLIO *CUT*	N.Pz *N.Pz*	TAGLIO *CUT*
900224 	2		1	
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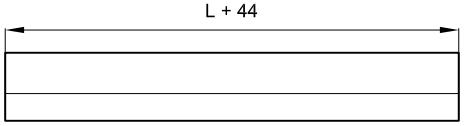
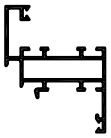
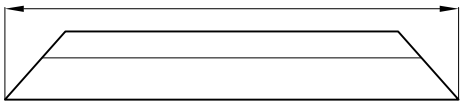
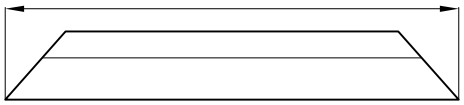
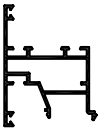
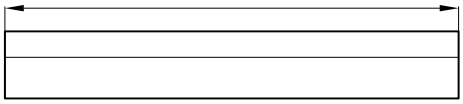
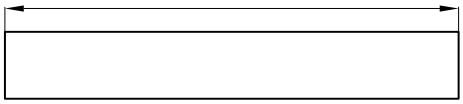
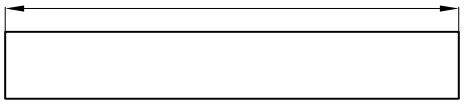
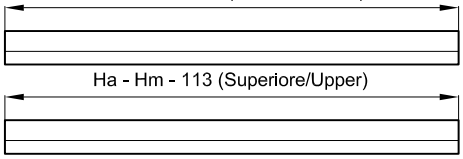
900273			1	
900657 	4		4	
900658 	1			
900256	4		4	
900221	2			

ACCESSORI
ACCESSORIES

ARTICOLO *ITEM*	DESCRIZIONE *DESCRIPTION*	N.	ARTICOLO *ITEM*	DESCRIZIONE *DESCRIPTION*	N.	ARTICOLO *ITEM*	DESCRIZIONE *DESCRIPTION*	N.
A.4411.AA	Squadretta in alluminio estruso inserto unificato *Extruded aluminium corner joint unified insert*	*12*	*2013 (Mont.)*	Squadretta d' allineamento aletta interna "FUJI" *Alignment corner joint for rabbet internal "FUJI"*	*10*	*409.100.55*	Coppia tappi laterali raccogli condensa *Pair lateral plugs for condensation collection*	*1*
403.801.55	Manovra per puntali 404.145.05 *Deadlatch for terminals 404.145.05*	*2*	*2020 (Mont.)*	Squadretta d' allineamento aletta esterna "FUJI" *Alignment corner joint for rabbet esterna "FUJI"*	*4*	*509.282.55*	Tappo laterale di chiusura raccogli condensa *Insert internal handle for locking*	*2*
404.110.55	Coppia innesti cremonese apertura interna *Pair of couplings for internal opening*	*1*	*A.2920.NN*	Squadretta d' allineamento lato esterno 900657 *Alignment corner joint on fin 900657*	*8*	*510.490.55*	Tappo copriforo rettangolare Ø 12mm *Rectangular coverhole plug Ø 12mm*	*8*
404.145.05	Coppia puntali in zama *Zamak pair of terminals*	*1*	*A.4003.ZX*	Cremonese reversibile apertura interna *Reversible cremone for internal opening*	*1*	*Comm.le*	Tasselli spessoramento vetro *Glass registration dolly*	*8*
A.2136.NN	Coppia tappi in nylon battuta centrale *Nylon pair of plugs for central rabbet*	*1*	*504.081.55*	Riscontro in nylon con rullino per puntali *Nylon striker with roller for terminals*	*2*			
410.405.01	Basetta regolo mobile *Plate for adjustable block*	*8*	*509.261.55*	Paratempesta in nylon *Nylon water drainage cover*	*3*			
A.0227.EN	Angolo stampato per guarnizione G.0132.EN *Printed angle for weatherstrips G.0132.EN*	*4*	*510.420.01*	Regolo mobile L = 20 mm *Adjustable block L = 20 mm*	*8*			
401.231.XX	Cerniera sfilabile *Slip-off hinge*	*4*	*504.103.01*	Riscontro terza chiusura su innesti *Striker for 3rd locking on couplings*	*1*			

GUARNIZIONI
WEATHERSTRIPS

ARTICOLO *ITEM*	DESCRIZIONE *DESCRIPTION*	N.	ARTICOLO *ITEM*	DESCRIZIONE *DESCRIPTION*	N.	ARTICOLO *ITEM*	DESCRIZIONE *DESCRIPTION*	N.
G.0140.RN	Guarnizione appoggio vetri da 3 mm *mm 3 glass support weatherstrip*	*4H - 2L*	*G.0132.EN*	Guarnizione per precamera *Central weatherstrip*	*3H - 2L*			
G.0128.EN	Guarnizione su fermavetro spessore 3 mm *Weatherstrip on glazing bead shim mm 3*	*4H - 2L*	*G.0126.EN*	Guarnizione di battuta *Weatherstrip of rabbet*	*5H - 2L*			

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Gennaio
January

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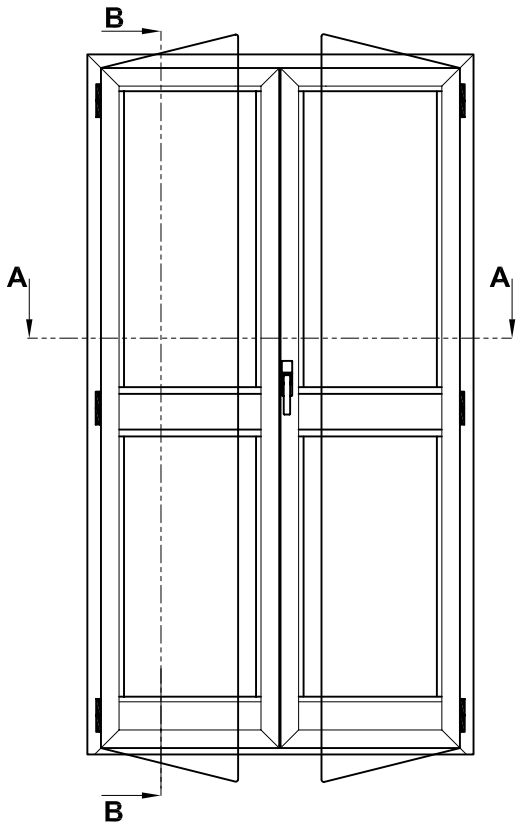
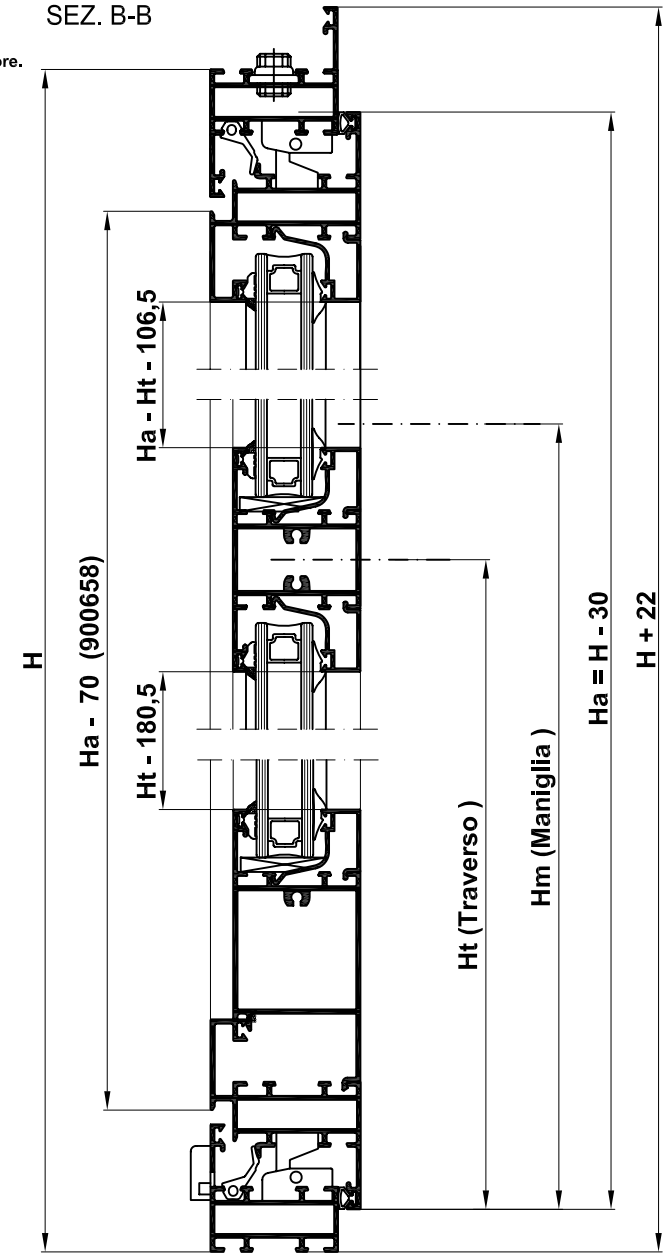
DISTINTE DI TAGLIO FINESTRA BALCONE A 2 ANTE
CUT LIST TWO WINGS CASEMENT BALCONY WINDOW

N.B:
- Le dimensioni di taglio e di lavorazione indicate nelle pagine seguenti sono state ottenute considerando le quote teoriche.
Pertanto è necessario verificare sempre le dimensioni dei profilati prima di effettuare i tagli.
Sapa declina ogni responsabilità per errori dovuti al mancato controllo da parte del costruttore.

N.B:
- The cutting and processing dimensions, indicated in the following pages, are obtained considering theorical values. It is, therefore, allways necessary to check the dimensions of the profiles before executing the cutting.
Sapa declines any responsability from errors caused from the missing dimensional check of the carpenter

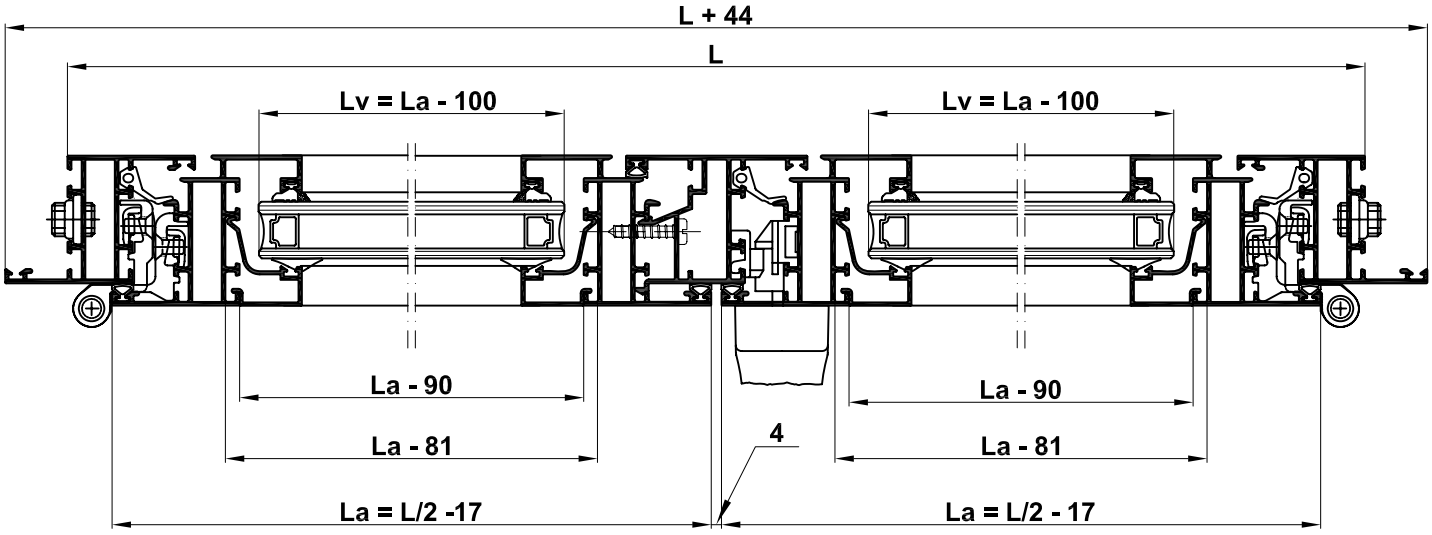


SEZ. B-B



N.B.
Spessore vetro considerato 20mm
Gioco perimetrale tra profilato in allumino e vetro 5mm
For glass with 20mm thickness
Space between glass and aluminium section 5mm

SEZ. A-A



Rev. : 2007
Ottobre
October

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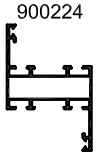
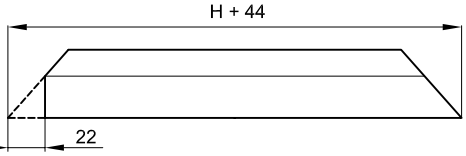
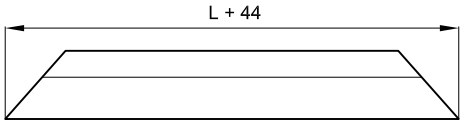
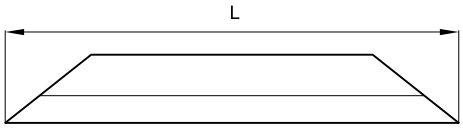
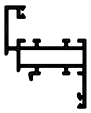
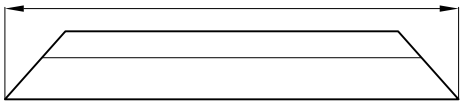
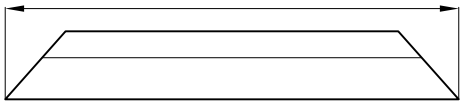
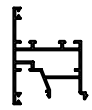
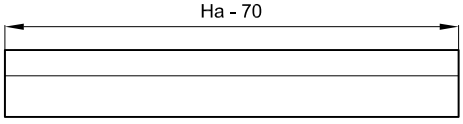
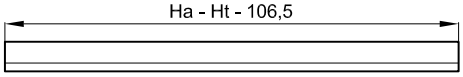
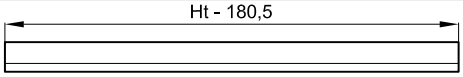
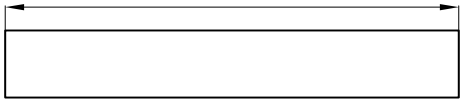
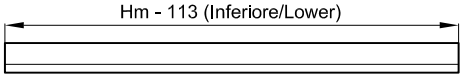
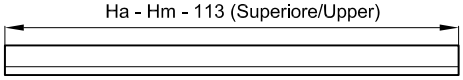
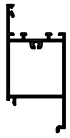
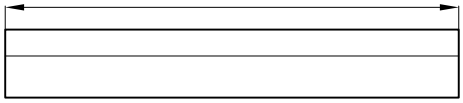
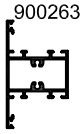
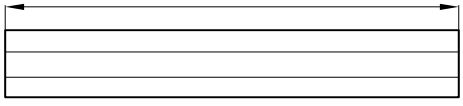
sapa:

DISTINTE DI TAGLIO FINESTRA BALCONE A 2 ANTE
CUT LIST TWO WINGS CASEMENT BALCONY WINDOW

PROFILATO *SECTION*	**N.Pz** *N.Pz*	**TAGLIO** *CUT*	**N.Pz** *N.Pz*	**TAGLIO** *CUT*
900224 	2	H + 44  22	1	L + 44 
900226			1	L 
900657 	4	Ha = H - 30 	4	La = L/2 -17 
900658 	1	Ha - 70 		
900256	4 4	Ha - Ht - 106,5  Ht - 180,5 	8	La - 90 
900221	2	Hm - 113 (Inferiore/Lower)  Ha - Hm - 113 (Superiore/Upper) 		
800363 			2	La - 81 
900263 			2	La - 81 

ACCESSORI
ACCESSORIES

ARTICOLO *ITEM*	**DESCRIZIONE** *DESCRIPTION*	*N.*	**ARTICOLO** *ITEM*	**DESCRIZIONE** *DESCRIPTION*	*N.*	**ARTICOLO** *ITEM*	**DESCRIZIONE** *DESCRIPTION*	*N.*
A.4411.AA	Squadretta in alluminio estruso inserto unificato *Extruded aluminium corner joint unified insert*	*12*	*2013 (Mont.)*	Squadretta d' allineamento aletta interna "FUJI" *Alignment corner joint for rabbet internal "FUJI"*	*10*	*510.490.55*	Tappo coprlforo rettangolare Ø 12mm *Rectangular coverhole plug Ø 12mm*	*10*
403.801.55	Manovra per puntali 404.145.05 *Deadlatch for terminals 404.145.05*	*2*	*2020 (Mont.)*	Squadretta d' allineamento aletta esterna "FUJI" *Alignment corner joint for rabbet esterna "FUJI"*	*4*	*Comm.le*	Tasselli spessoramento vetro *Glass registration dolly*	*16*
404.110.55	Coppia innesti cremonese apertura interna *Pair of couplings for internal opening*	*1*	*A.2920.NN*	Squadretta d' allineamento lato esterno 900657 *Alignment corner joint on fin 900657*	*8*			
404.145.05	Coppia puntali in zama *Zamak pair of terminals*	*1*	*A.4003.ZX*	Cremonese reversibile apertura interna *Reversible cremone for internal opening*	*1*			
A.2136.NN	Coppla tappl In nylon battuta centrale *Nylon pair of plugs for central rabbet*	*1*	*504.081.55*	Riscontro In nylon con rullino per puntall *Nylon striker with roller for terminals*	*2*			
410.405.01	Basetta regolo mobile *Plate for adjustable block*	*10*	*509.261.55*	Paratempesta in nylon *Nylon water drainage cover*	*3*			
A.0227.EN	Angolo stampato per guarnlzlone G.0132.EN *Printed angle for weatherstrips G.0132.EN*	*4*	*510.420.01*	Regolo mobile L = 20 mm *Adjustable block L = 20 mm*	*10*			
401.231.XX	Cerniera sfilabile *Slip-off hinge*	*6*	*504.103.01*	Riscontro terza chiusura su innesti *Striker for 3rd locking on couplings*	*1*			

GUARNIZIONI
WEATHERSTRIPS

ARTICOLO *ITEM*	**DESCRIZIONE** *DESCRIPTION*	*N.*	**ARTICOLO** *ITEM*	**DESCRIZIONE** *DESCRIPTION*	*N.*	**ARTICOLO** *ITEM*	**DESCRIZIONE** *DESCRIPTION*	*N.*
G.0140.RN	Guarnlzlone appoggio vetri da 3 mm *mm 3 glass support weatherstrip*	*4H - 4L*	*G.0132.EN*	Guarnlzlone per precamera *Central weatherstrip*	*3H - 2L*			
G.0128.EN	Guarnlzlone su fermavetro spessore 3 mm *Weatherstrip on glazing bead shim mm 3*	*4H - 4L*	*G.0126.EN*	Guarnizione di battuta *Weatherstrip of rabbet*	*5H - 2L*			

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Gennaio
January

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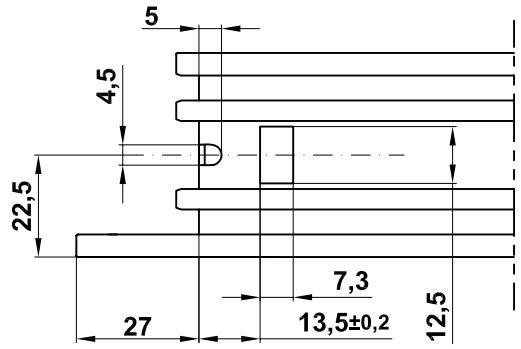
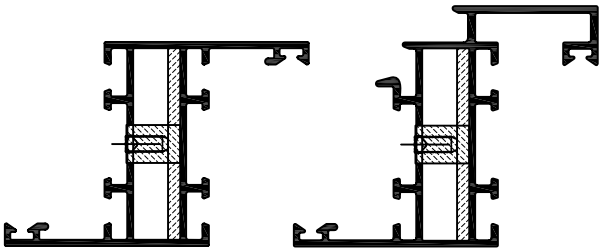
SQUADRETTA AD AVVITARE
CORNER JOINTS TO BE SCREWED



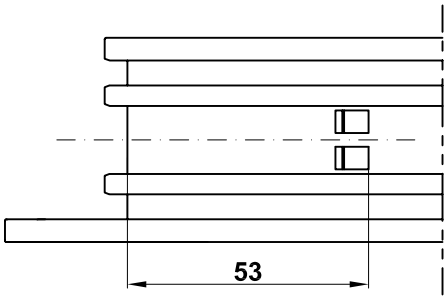


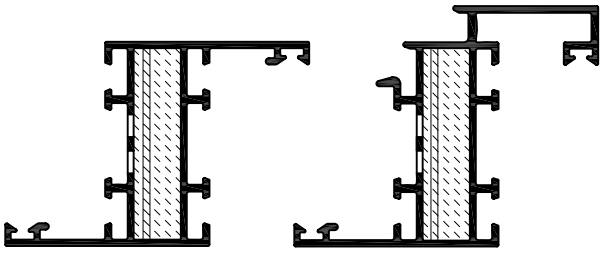
900224 900657

A.4411.AA

Attrezzatura: PUNZONATRICE
Tooling: PUNCHING MACHINE

SQUADRETTA A CIANFRINARE
CORNER JOINTS TO BE CRIMPED





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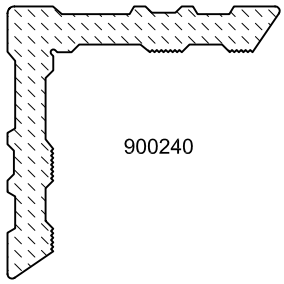
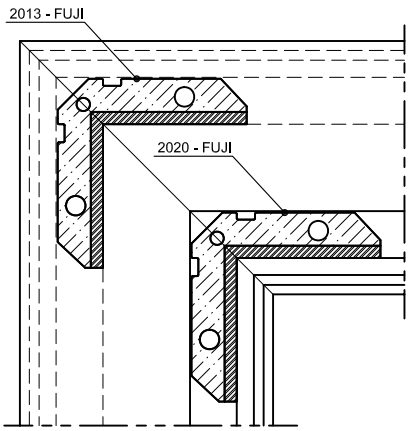
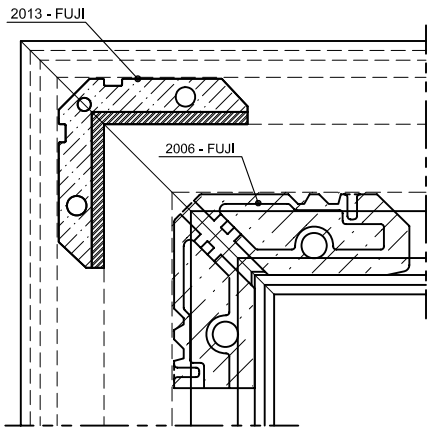


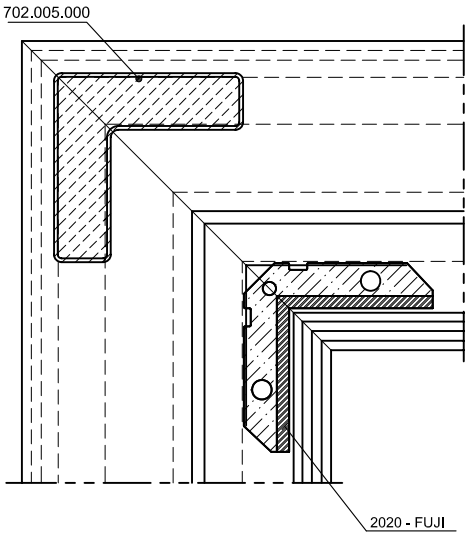
900240

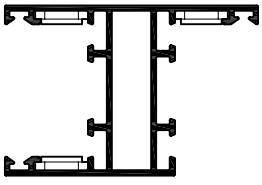
Attrezzatura: CIANFRINATRICE
Tooling: CRIMPING MACHINE

APPLICAZIONE SQUADRETTE DI ALLINEAMENTO ALETTE
CORNER JOINT APPLICATION OF ALIGNMENT ON FINS









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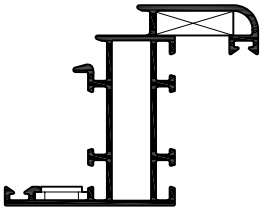
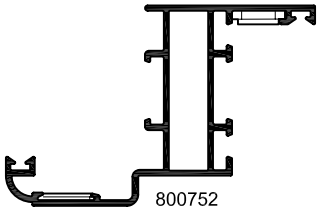


900659



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- Le squadrette di allineamento su alette, devono essere incollate con colle per alluminio di tipo epossidico bicomponente o di tipo poliuretanico monocomponente

- The corner joints to be crimped, and alignment on fins, must be glued with bicomponent epoxy or monocomponent polyuretan glue for aluminium

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Gennaio
January

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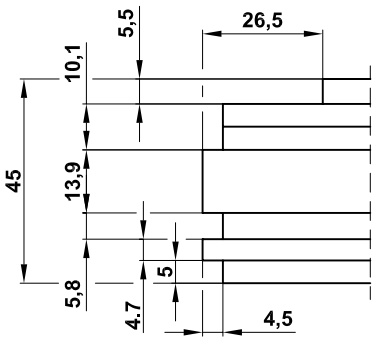
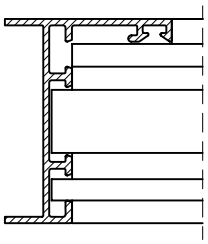
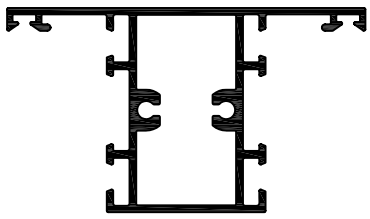
sapa:

INTESTATURA FASCE - ZOCCOLI
BUTTING HORIZONTAL PANELS - SKIRTING BOARDS





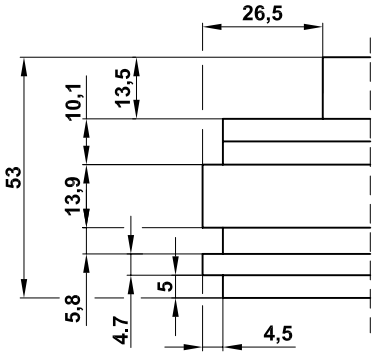


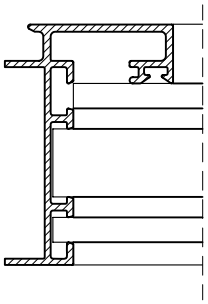
900263

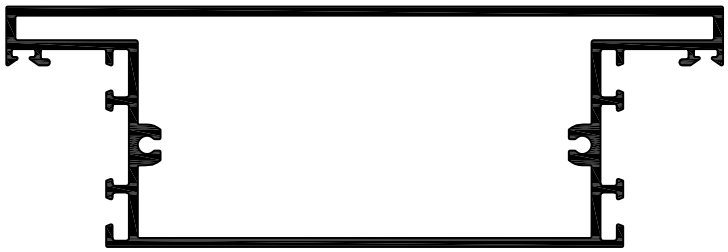
900230
900261
900262
900232
900307
900346
900363

Attrezzatura: GRUPPO FRESE
Tooling: MILLING CUTTER GROUP

INTESTATURA FASCE - ZOCCOLI - COMPLANARI
BUTTING HORIZONTAL PANELS - SKIRTING BOARDS - COMPLANAR



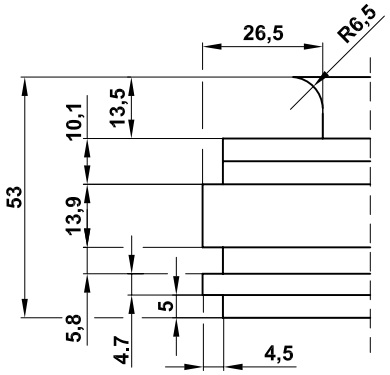


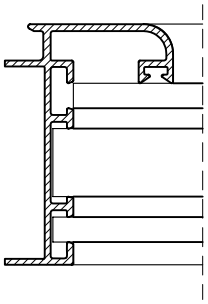


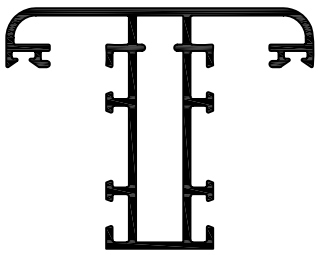
900306
900305 - 900364 - 900391 - 900481

Attrezzatura: GRUPPO FRESE
Tooling: MILLING CUTTER GROUP

INTESTATURA FASCE - ZOCCOLI - COMPLANARI ARROTONDATI
BUTTING HORIZONTAL PANELS - SKIRTING BOARDS - COMPLANAR RADIUSED



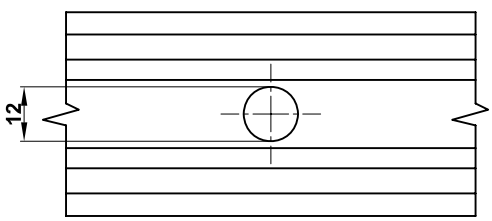


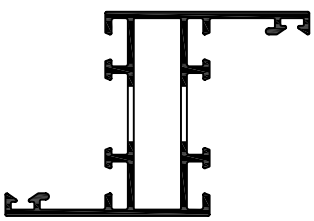


900589 - 900595

Attrezzatura: GRUPPO FRESE
Tooling: MILLING CUTTER GROUP

FORATURA PER REGOLO
DRILLING FOR ADJUSTABLE BLOCK





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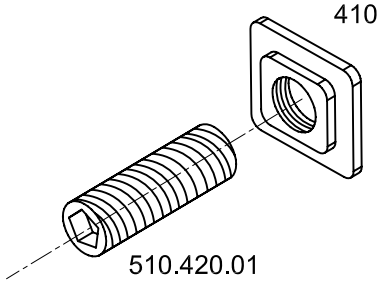

410.405.01

510.420.01

Attrezzatura: TRAPANO
Tooling: DRILL

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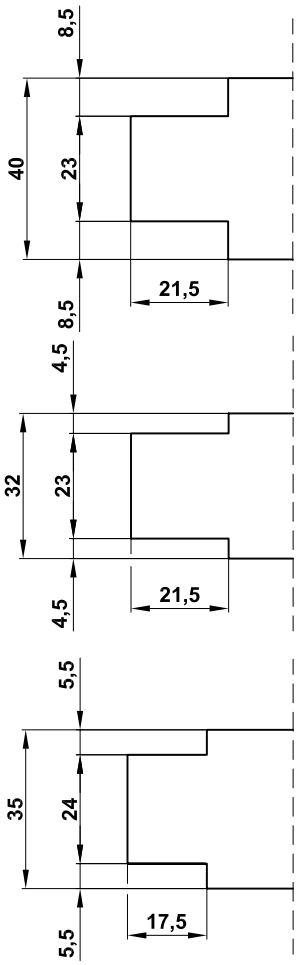
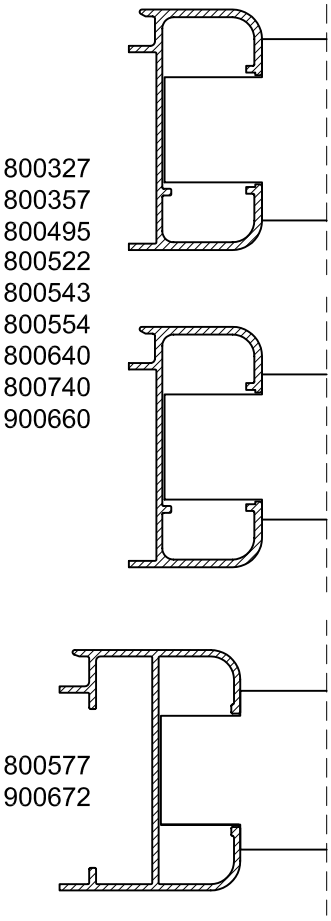
INTESTATURA FASCE - ZOCCOLI - (VETRO AD INFILARE)
BUTTING HORIZONTAL PANELS - SKIRTING BOARDS - (GLASS TO INSERT)





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800740
900660

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800331 - 800326

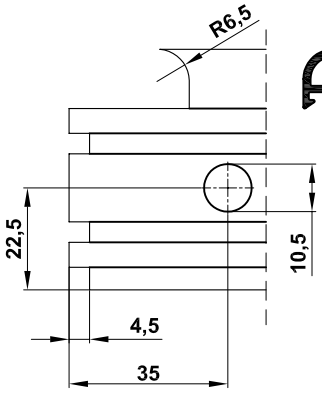
800537

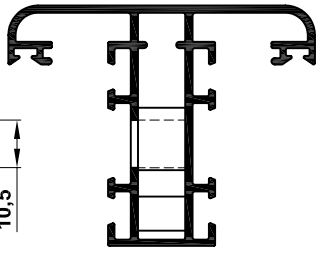
800577
900672

800473
800474 - 800475

FORATURA PER CAVALLOTTO
DRILLING FOR T JOINT

Attrezzatura: GRUPPO FRESE
Tooling: MILLING CUTTER GROUP





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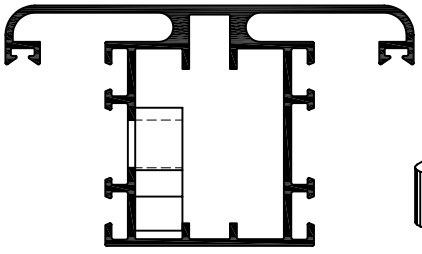

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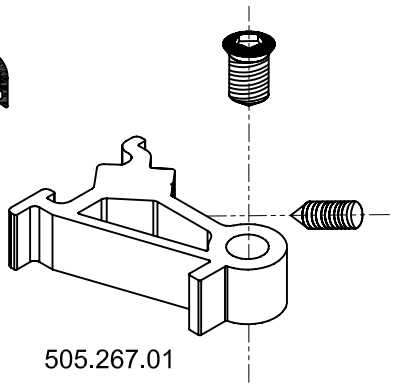

505.267.01

Attrezzatura: TRAPANO
Tooling: DRILL

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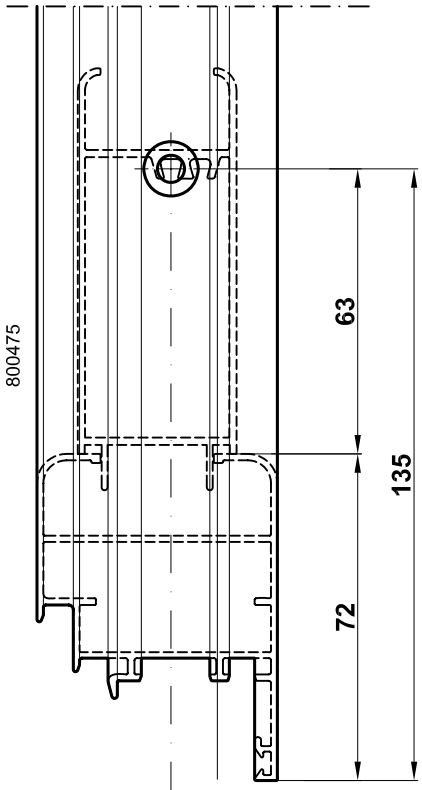
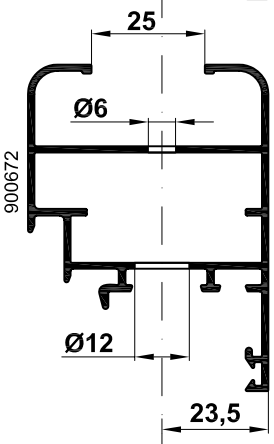
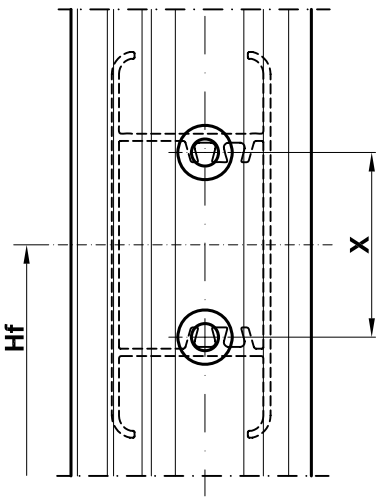
FORATURA PER UNIONE SAVRAZZOCCOLI E FASCE (VETRO AD INFILARE)
PUNCHING FOR BAND AND HORIZONTAL PANELS CONNECTION (GLASS TO INSERT)







Profilo *Section*	X mm
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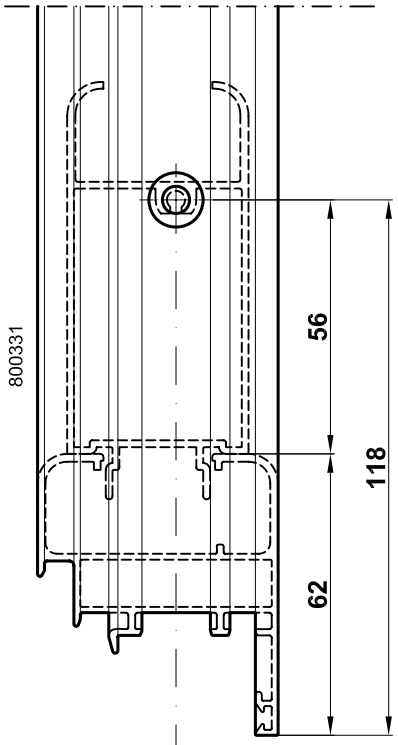
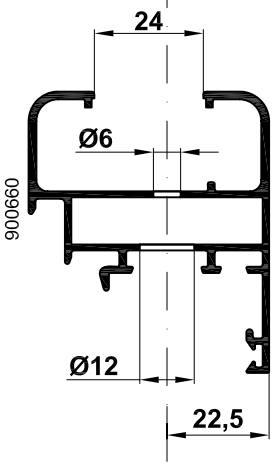
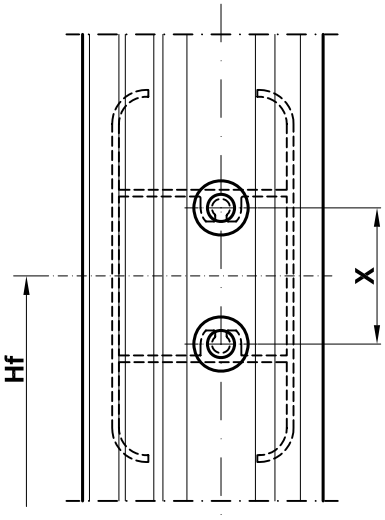
800473	94





Attrezzatura: TRAPANO
Tooling: DRILL



Profilo *Section*	X mm
800326	30
800537	52
800325	96

Rev. : 2007
Ottobre
October

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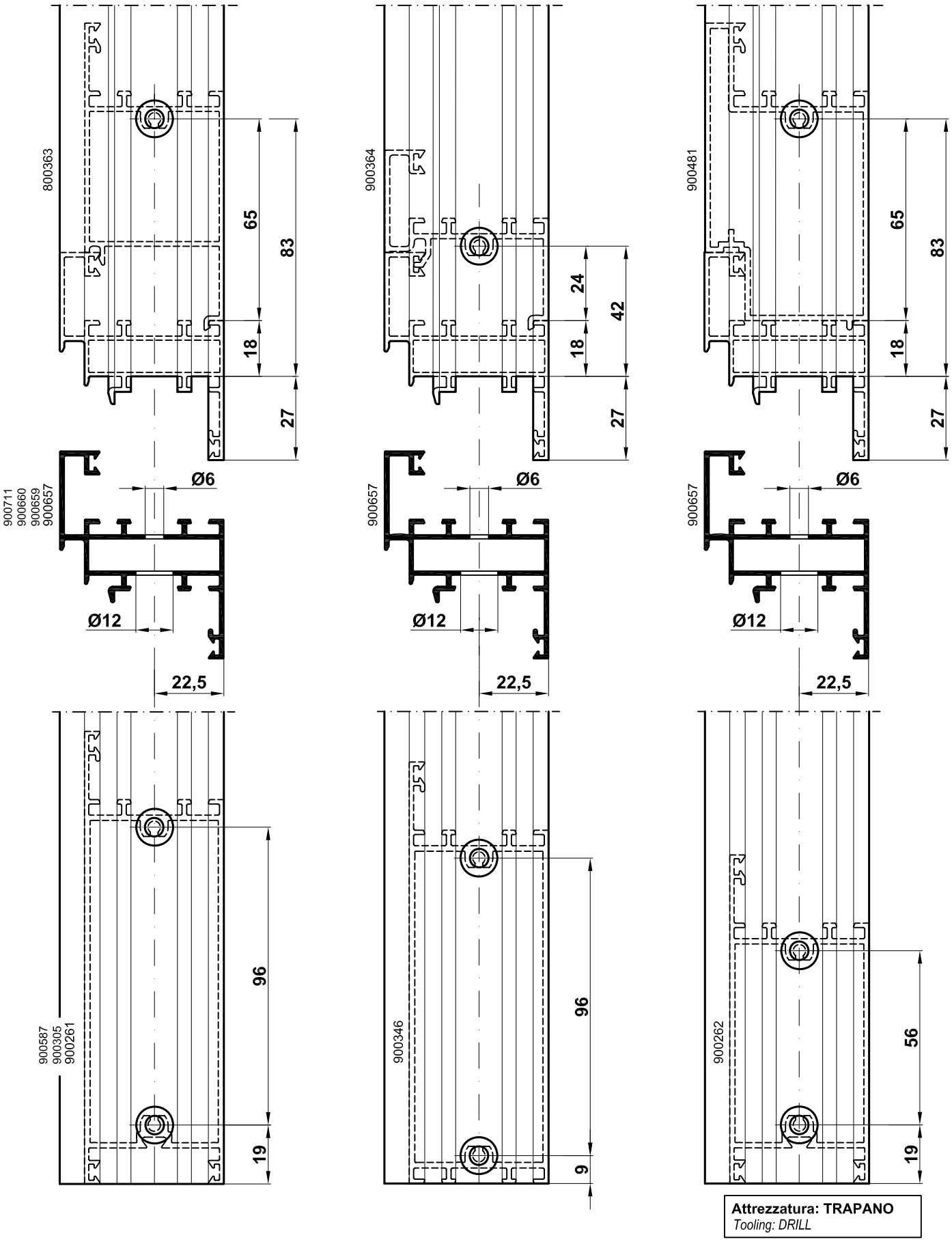
FORATURA PER UNIONE SAVRAZZOCCOLI E ZOCCOLI
PUNCHING FOR BAND AND SKIRTING BOARD CONNECTION



Attrezzatura: TRAPANO
Tooling: DRILL

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Ottobre
October

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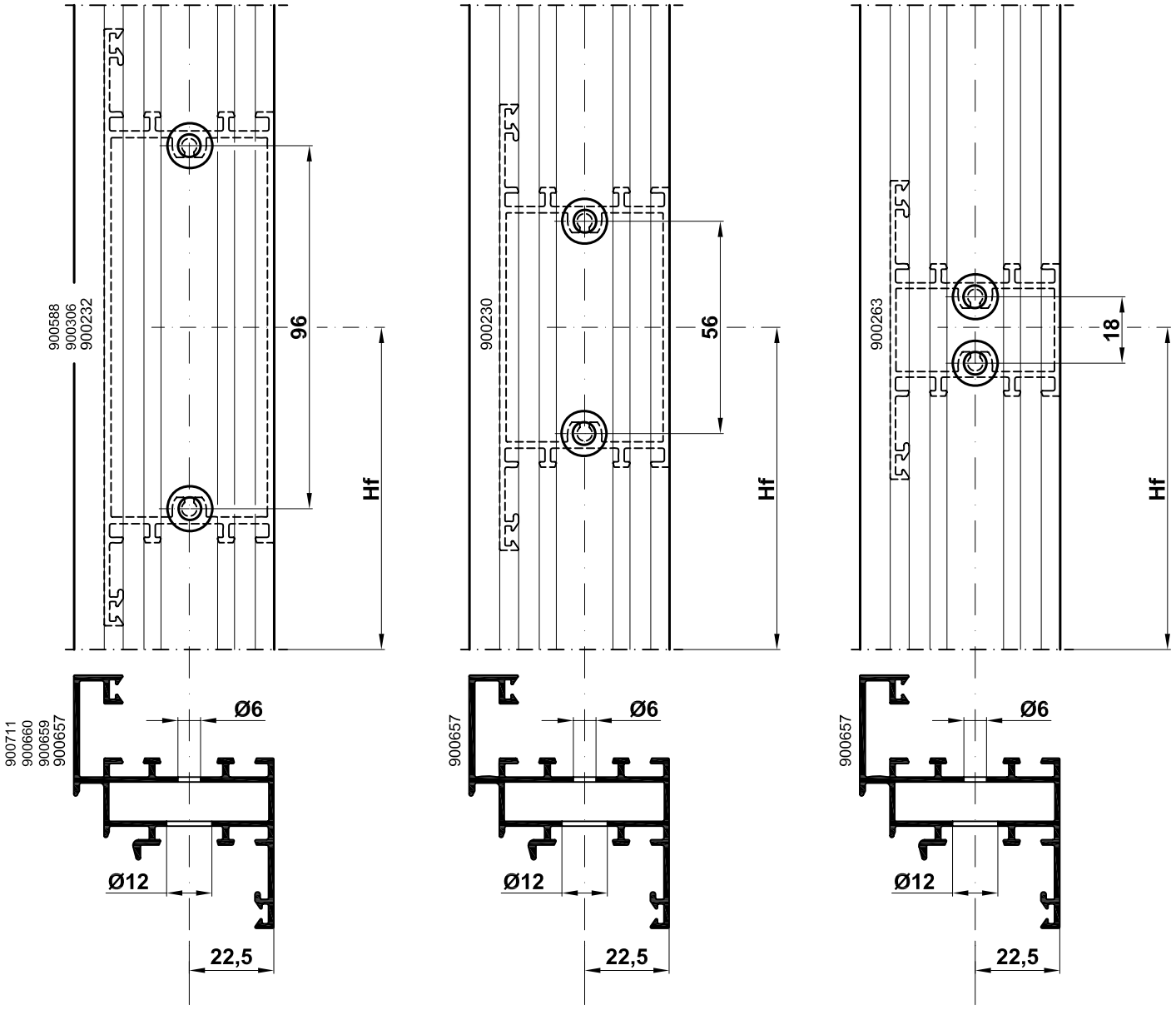
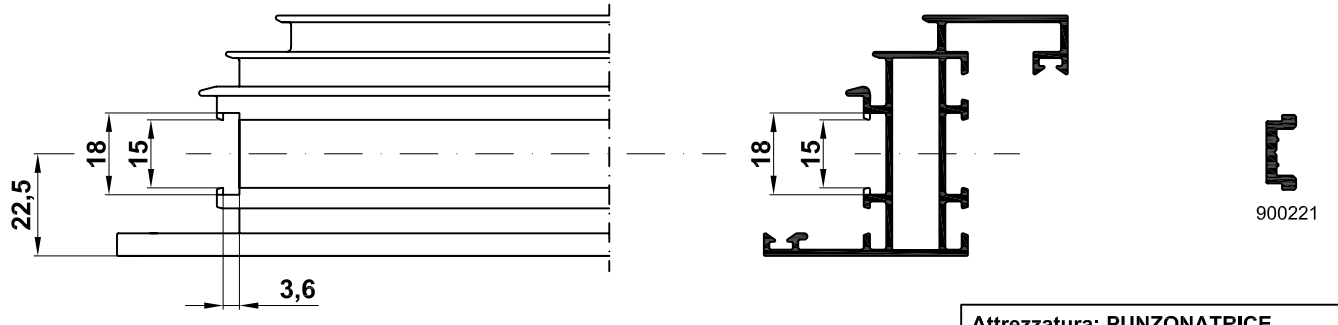
FORATURA PER UNIONE FASCE
PUNCHING FOR HORIZONTAL PANELS



Attrezzatura: TRAPANO
Tooling: DRILL

ASPORTAZIONE DENTINI PER INSERIMENTO ASTA
TOOTH REMOVAL FOR ROD NOTCH



Attrezzatura: PUNZONATRICE
Tooling: PUNCHING MACHINE - DRILL

Rev. : 2007
Ottobre
October

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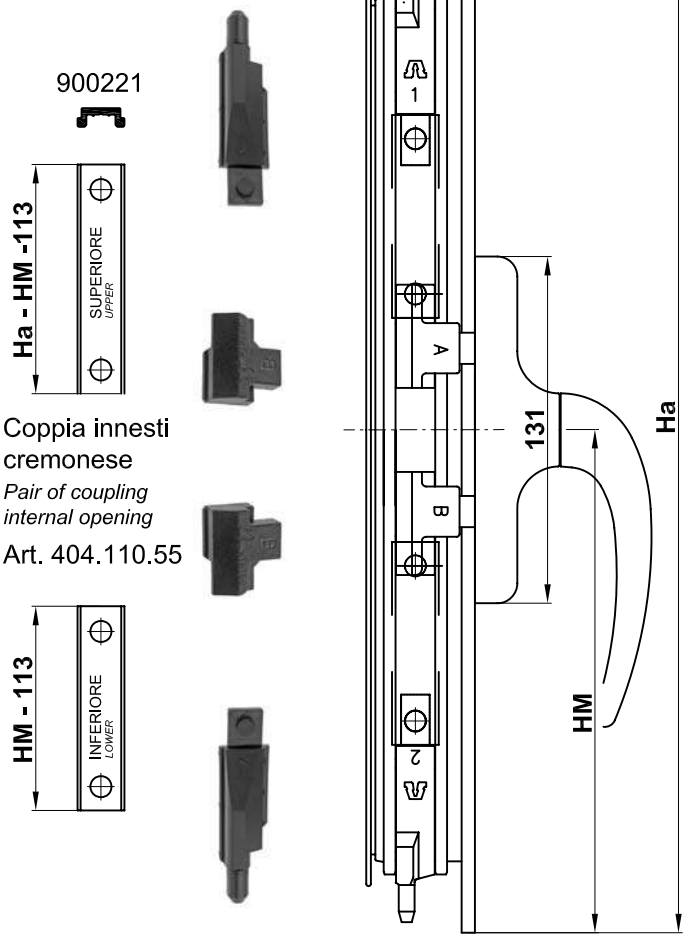
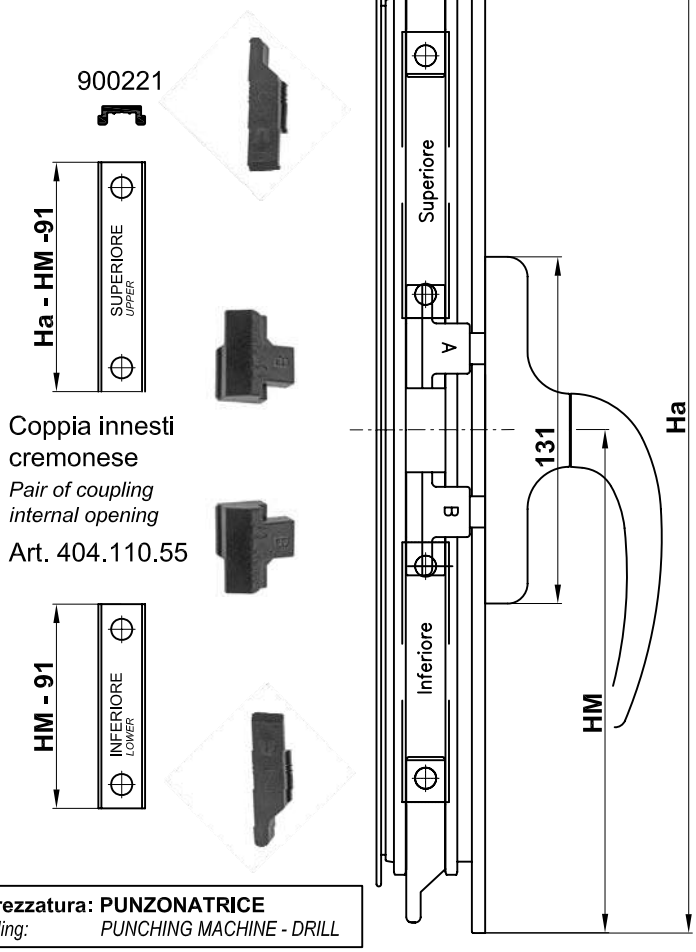
PUNTALI , RISCONTRI E CREMONESI

Coppia puntali in zama
Pair of zamak terminals
Art. 404.145.05

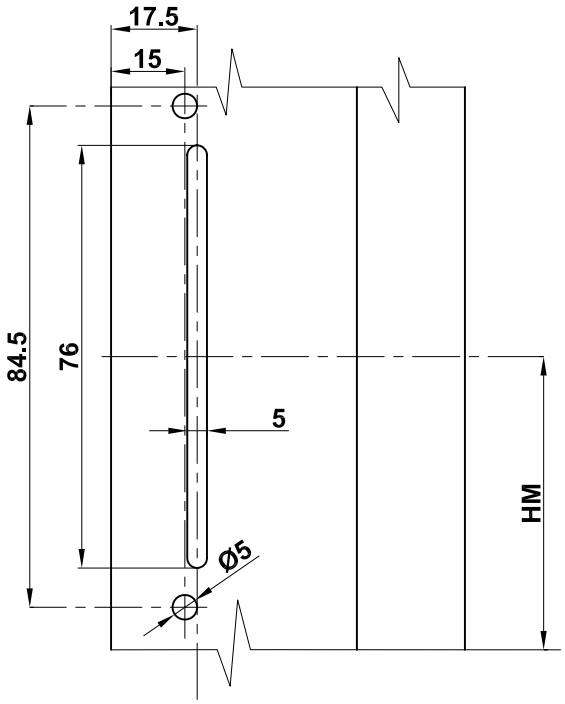


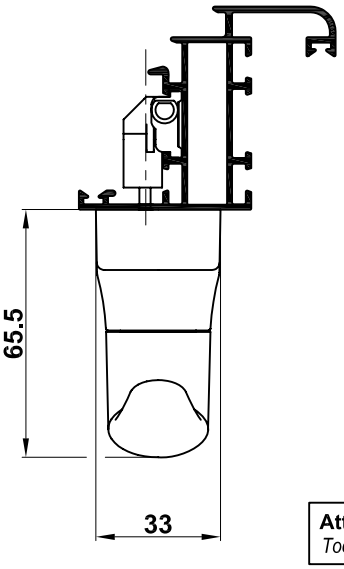
Coppia puntali in nylon
Pair of nylon terminals
Art. 404.141.55



Attrezzatura: PUNZONATRICE
Tooling: PUNCHING MACHINE - DRILL

LAVORAZIONE PER CREMONESI
TOOLING FOR CREMONES BOLT





Cremonese reversibile Sapa
Reversible cremone Sapa
Art. A.4003.ZX

Attrezzatura: PUNZONATRICE
Tooling: PUNCHING MACHINE - DRILL

Rev. : 2013
Gennaio
January

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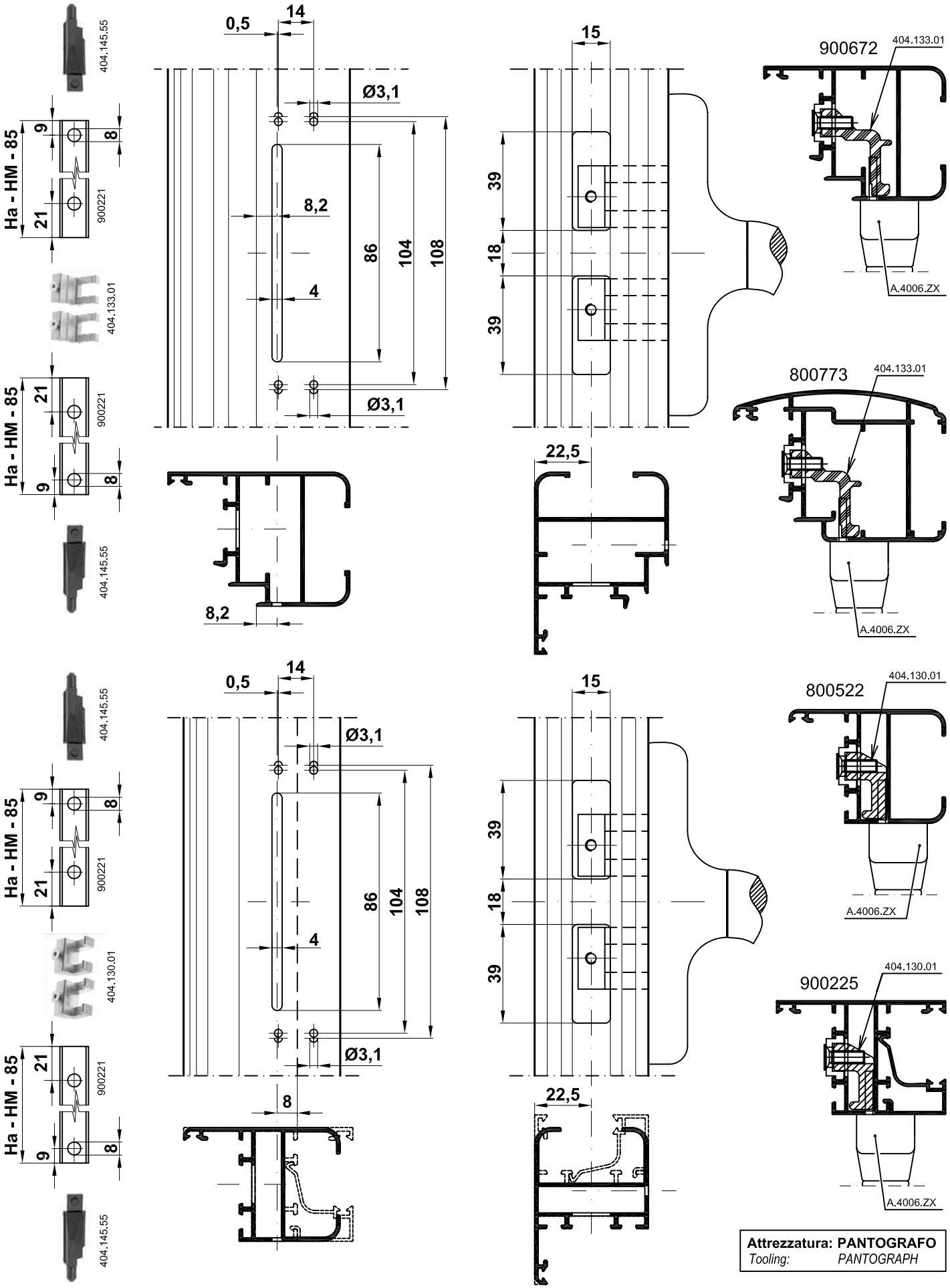
LAVORAZIONE PER CREMONESE PER APERTURE ESTERNE
TOOLINGS FOR CREMONE FOR EXTERNAL OPENINGS



Attrezzatura: PANTOGRAFO
Tooling: PANTOGRAPH

Rev. : 2013
Gennaio
January

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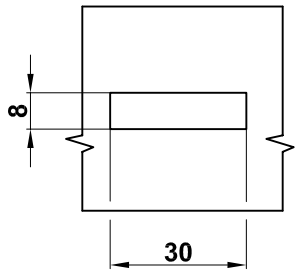
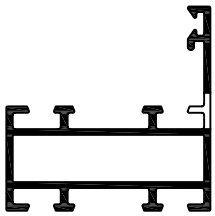
LAVORAZIONE DEFLUSSO ACQUA
TOOLING WATER DRAINAGE





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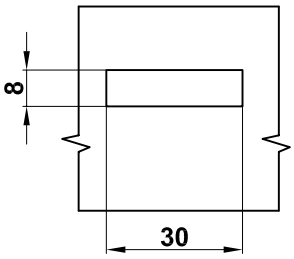
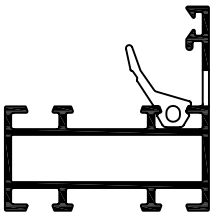


VARIANTE CON PRECAMERA
VERSION WITH CENTRAL WEATHERSTRIPS



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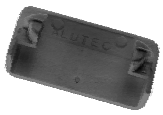
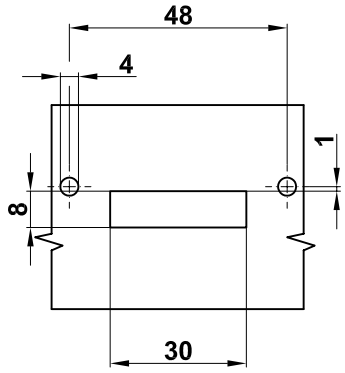
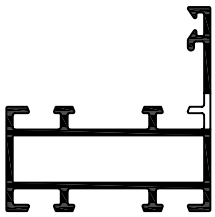


509.261.55





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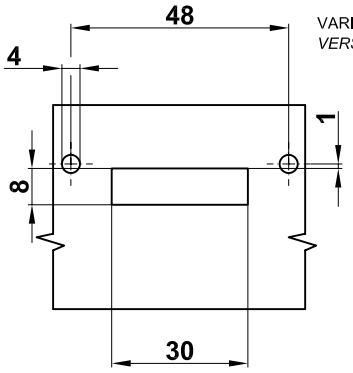
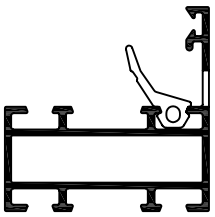


VARIANTE CON PRECAMERA
VERSION WITH CENTRAL WEATHERSTRIPS

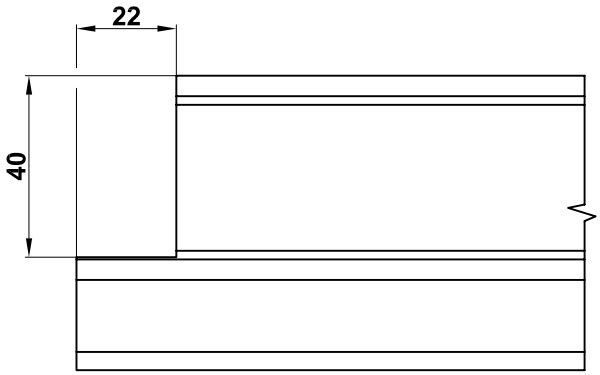


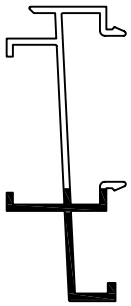
900226

509.265.55

Attrezzatura: PUNZONATRICE
Tooling: PUNCHING MACHINE

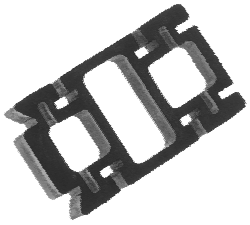
LAVORAZIONE PROFILO 900273
TOOLING FOR PROFILE 900273





900273

409.100.55



509.282.55

Attrezzatura: GRUPPO FRESE
Tooling: MILLING CUTTER GROUP

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January

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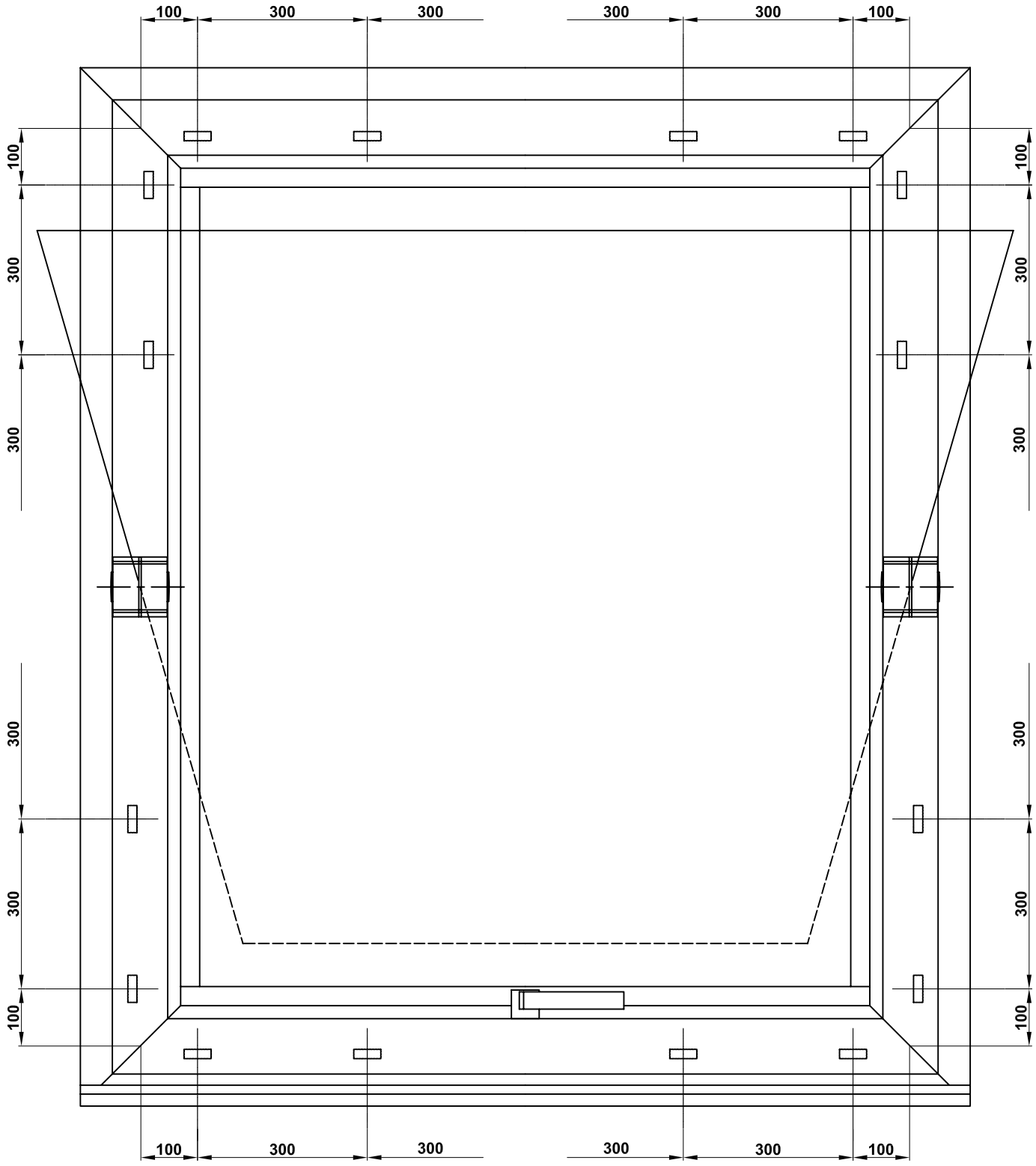
POSIZIONAMENTO FISSAGGIO ART. 508.025.01
MOUNTING POSITION ART. 508.025.01

ART. 508.025.01



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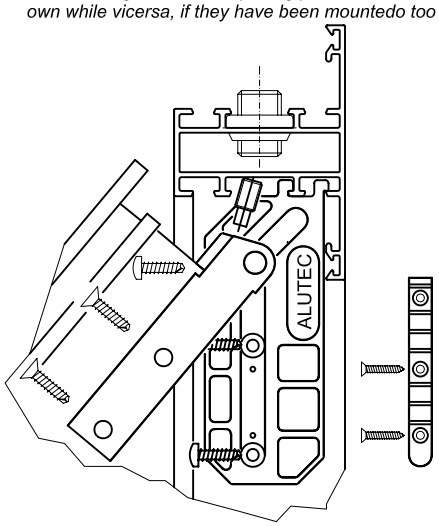
sapa:

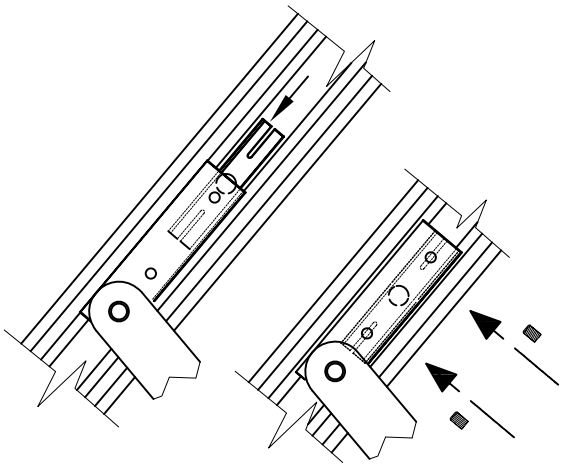
GRUPPO ARTICOLAZIONE RINFORZATO PER SPORGERE PORTATA 90 Kg Cod. 406.499.05

RELEASABLE ARMS FOR HOPPER WINDOW

I sistemi a sporgere R40, sono basati sul bilanciamento dell'anta che deve rimanere in equilibrio indipendentemente dalla sua posizione in apertura. Per ottenere le prestazioni ottimali e garantite, il peso dell'anta deve scaricarsi sempre sui bracci e mai sullo scivolo.
Per verificare l'equilibratura dell'anta si può procedere nella seguente maniera: se i bracci sono stati montati troppo in basso l'anta tenderà ad aprirsi autonomamente, viceversa se sono stati montati troppo in alto l'anta tenderà a chiudersi

R40, awning systems with load-bearing arms, are based on the balancing of the sash whichmust remain balanced regarless of its opening position. If the arms have been mounted too low the sash will tend to open on its own while vicersa, if they have been mountedo too high up, the sash tends to close.



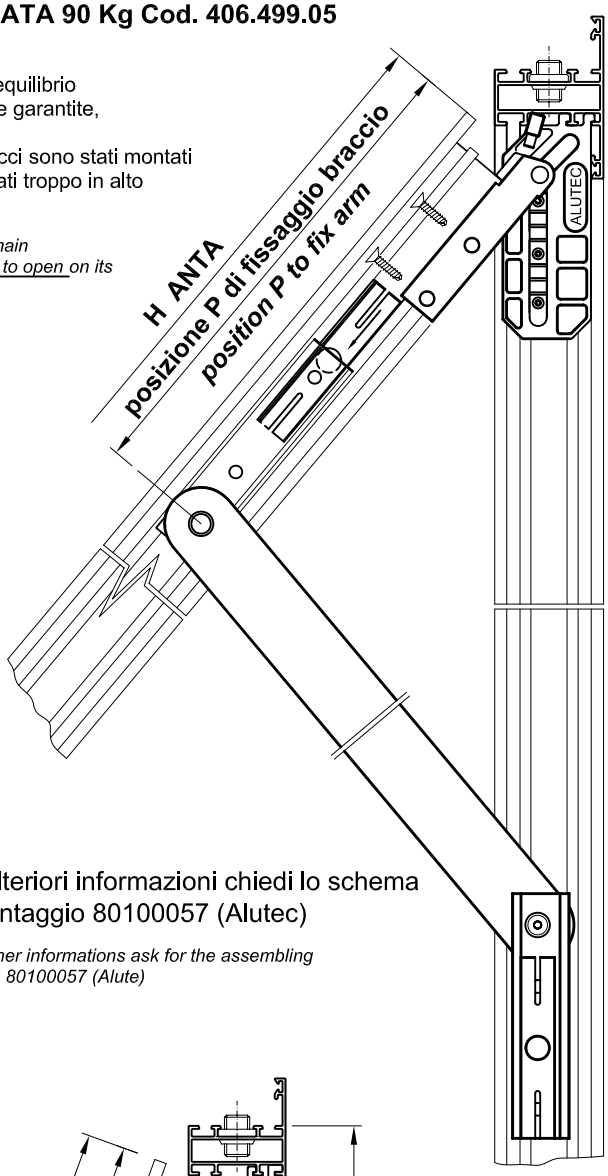


406.499.05
Portata 90 Kg
Maximum load 90 Kg

Per dimensioni superiori ad L=900 mm applicare n°2 chiusure

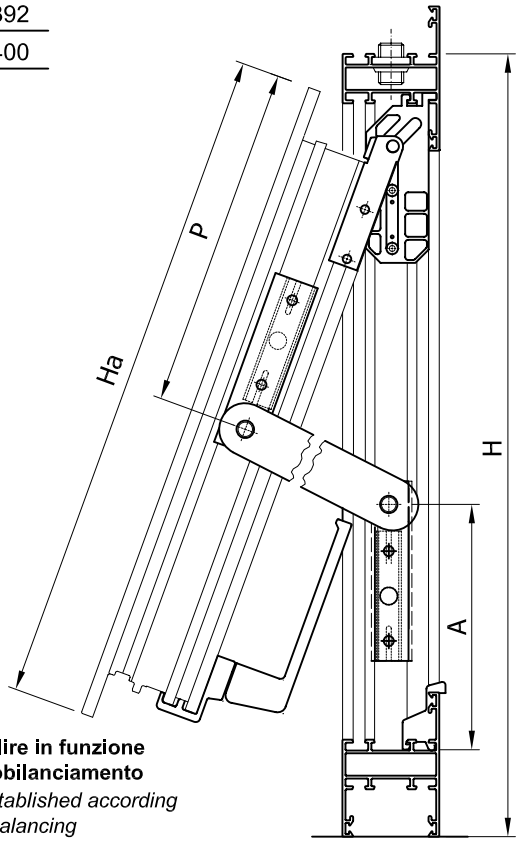
For dimensions with width over 900 mm 2 locks are to be applied

Posizione P *Position P*	
H anta *H wing*	P
500	NON FATTIBILE
600	183
700	223
800	265
900	285
1000	300
1100	318
1200	332
1300	342
1400	352
1500	362
1600	370
1700	377
1800	384
1900	392
2000	400



Per ulteriori informazioni chiedi lo schema di montaggio 80100057 (Alutec)

For further informations ask for the assembling scheme 80100057 (Alute)



A = Da stabilire in funzione dell'autobilanciamento
A = To be established according to self-balancing

Rev. : 2013
Gennaio
January

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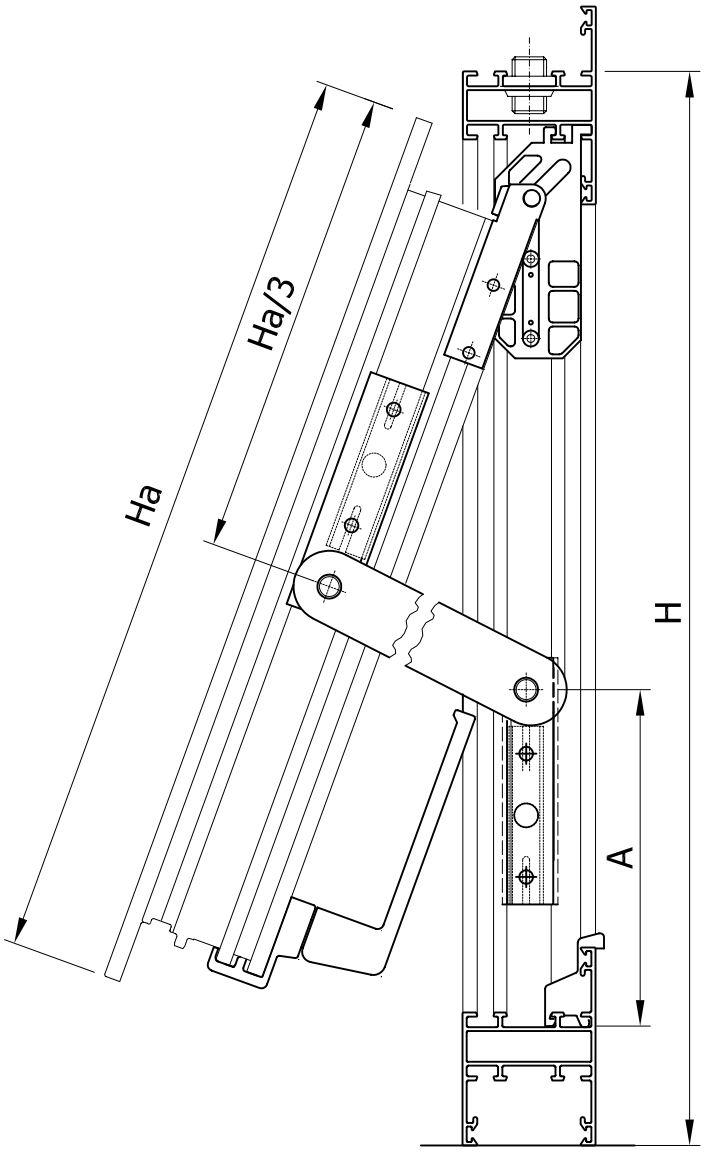
GRUPPO ARTICOLAZIONE RINFORZATO PER SPORGERE PORTATA 75 Kg Cod. 506.300.05

RELEASABLE ARMS FOR HOPPER WINDOW

I sistemi a sporgere R40, sono basati sul bilanciamento dell'anta che deve rimanere in equilibrio indipendentemente dalla sua posizione in apertura. Per ottenere le prestazioni ottimali e garantite, il peso dell'anta deve scaricarsi sempre sui bracci e mai sullo scivolo.
Per verificare l'equilibratura dell'anta si può procedere nella seguente maniera: se i bracci sono stati montati troppo in basso l'anta tenderà ad aprirsi autonomamente, viceversa se sono stati montati troppo in alto l'anta tenderà a chiudersi

R40, awning systems with load-bearing arms, are based on the balancing of the sash whichmust remain balanced regarless of its opening position. If the arms have been mounted too low the sash will tend to open on its own while vicersa, if they have been mountedo too high up, the sash tends to close.

506.300.05
Portata 75 Kg
Maximum load 75 Kg



Utilizzabile con Articoli:
406.300.05 / 406.500.05

Can be applied:
406.300.05 / 406.500.05

Per dimensioni superiori ad L=900 mm applicare n°2 chiusure

For dimensions with width over 900 mm 2 locks are to be applied

A = Da stabilire in funzione dell'autobilanciamento
A = To be established according to self-balancing

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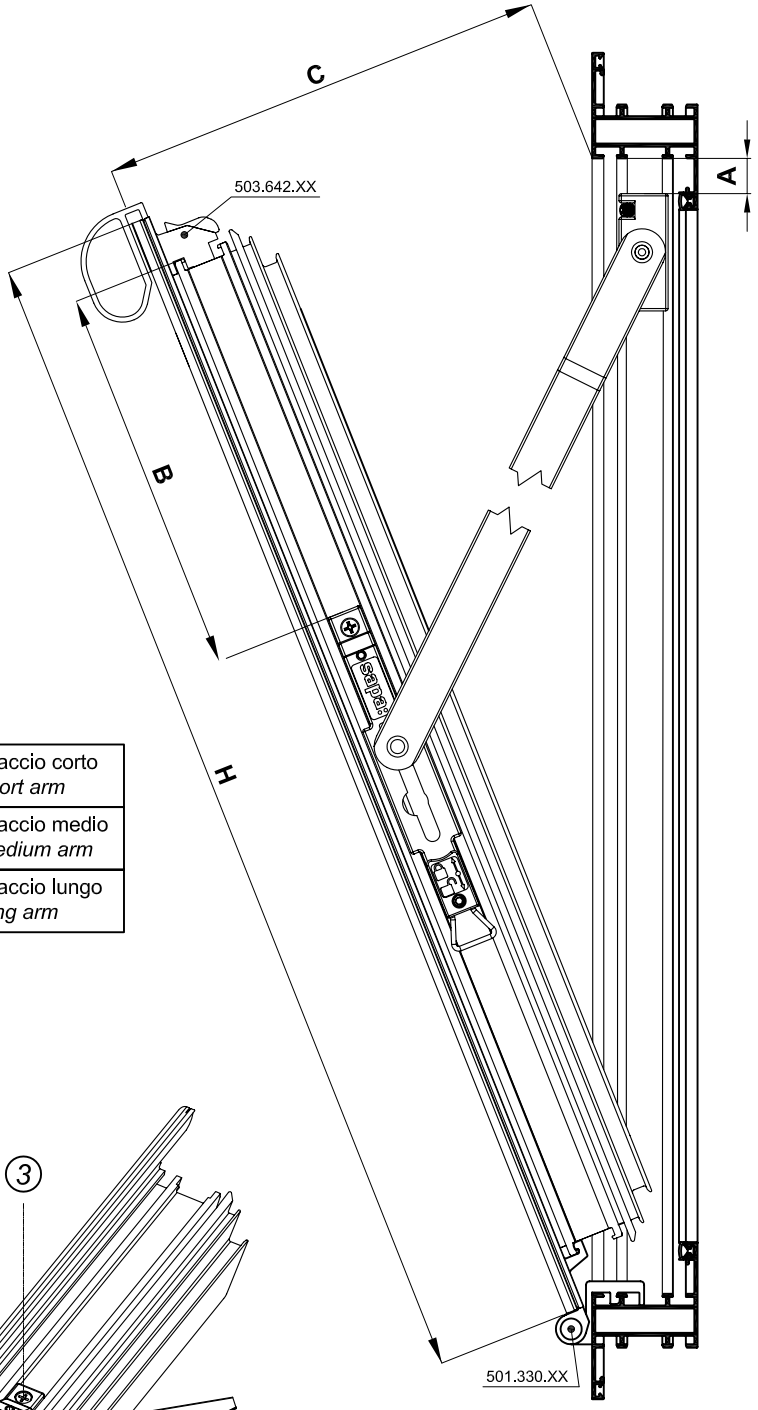
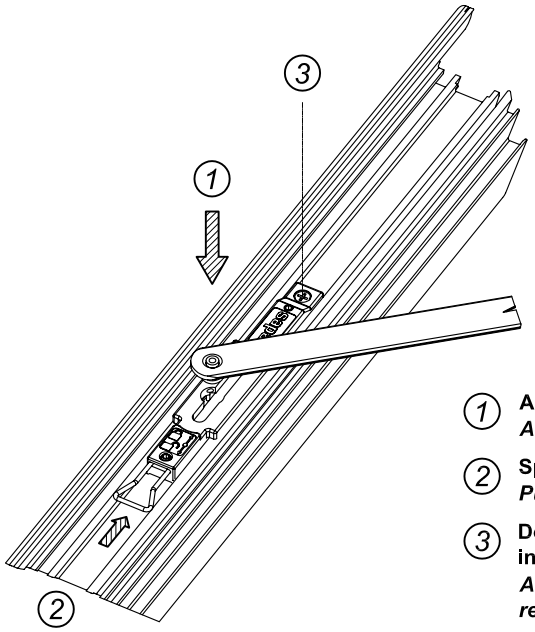
BRACCI SGANCIABILI AMMORTIZZATI PER VASISTAS
RELEASABLE AND AMORTIZED ARMS FOR VASISTAS

CAMPO DI APPLICAZIONE
APPLICATION RANGE

H	Art. A.3907.IA H da 1000 a 2000mm			Art. A.3906.IA H da 350 a 1600mm			Art. A.3905.IA H da 250 a 500mm		
	A	B	C	A	B	C	A	B	C
250							0	40	145
300							0	40	132
							50	90	171
350				0	150	250	0	40	124
							50	90	152
							100	140	198
400				0	150	220	0	40	119
				50	200	284	50	90	140
							100	140	172
450				0	150	202	0	40	115
				50	200	246	50	90	132
				100	250	318	100	140	157
							150	190	193
500				0	150	190	0	40	112
				50	200	223	50	90	127
				100	250	272	100	140	146
				150	300	353	150	190	173
550				0	150	181			
				50	200	208			
				100	250	244			
				150	300	299			
600				0	150	174			
				50	200	197			
				100	250	226			
				150	300	266			
				200	350	325			
700				0	150	165			
				100	250	202			
				200	350	262			
800				0	150	159			
				100	250	188			
				200	350	230			
900				0	150	155			
				100	250	178			
				200	350	210			
				300	450	257			
1000	0	340	238	0	150	151			
	100	440	278	100	250	170			
	200	540	334	200	350	196			
	300	640	421	300	450	232			
1100	0	340	229	0	150	148			
	100	440	261	100	250	165			
	200	540	305	200	350	187			
	300	640	366	300	450	215			
1200	0	340	223	0	150	146			
	100	440	250	100	250	161			
	200	540	284	200	350	180			
	300	640	332	300	450	203			
	400	740	400	400	550	235			
1300	0	340	217	0	150	145			
	100	440	240	100	250	158			
	200	540	270	200	350	174			
	300	640	308	300	450	194			
	400	740	359	400	550	220			
1400	0	340	213	0	150	144			
	100	440	233	100	250	156			
	200	540	258	200	350	170			
	300	640	290	300	450	187			
	400	740	331	400	550	209			
1500	0	340	209	0	150	142			
	100	440	227	100	250	153			
	200	540	249	200	350	166			
	300	640	276	300	450	181			
	400	740	310	400	550	200			
	500	840	354	500	650	223			
1600	0	340	200	0	150	141			
	100	440	223	100	250	151			
	200	540	242	200	350	163			
	300	640	265	300	450	177			
	400	740	294	400	550	193			
	500	840	330	500	650	213			
1700	0	340	204						
	100	440	219						
	200	540	236						
	300	640	257						
	400	740	282						
	500	840	312						
1800	0	340	201						
	100	440	215						
	200	540	231						
	300	640	250						
	400	740	271						
	500	840	298						
	600	940	330						
1900	0	340	199						
	100	440	212						
	200	540	227						
	300	640	243						
	400	740	263						
	500	840	286						
	600	940	315						
2000	0	340	198						
	100	440	210						
	200	540	223						
	300	640	243						
	400	740	263						
	500	840	286						
	600	940	315						



Art. A.3905.IA	Braccio corto *short arm*
Art. A.3906.IA	Braccio medio *medium arm*
Art. A.3907.IA	Braccio lungo *long arm*



1. **Agganciare il braccio al cursore anta**
   Attach the arm to the cursor of the wing
2. **Spingere l'otturatore fino allo scatto**
   Push the shutter until it clicks
3. **Dopo aver verificato il corretto funzionamento, inserire la vite di rinforzo**
   After verifying the correct functioning, insert the reinforcement screw

Per sganciare, eseguire l'operazione inversa
To release, perform the inverse operation

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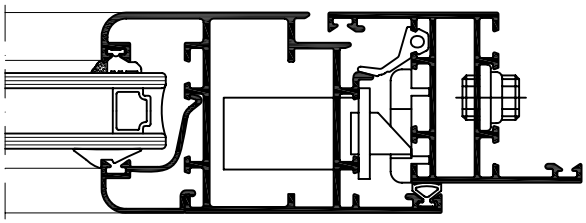
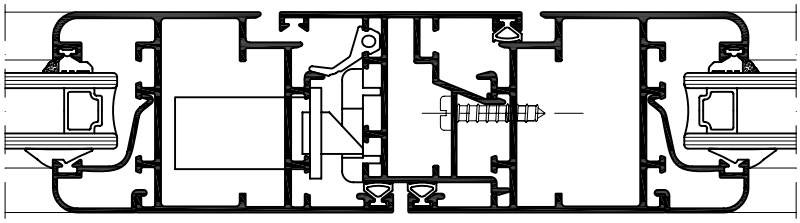
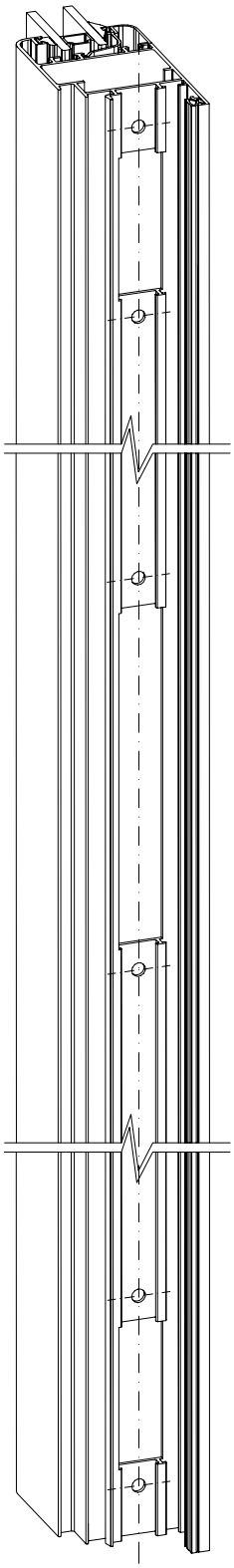
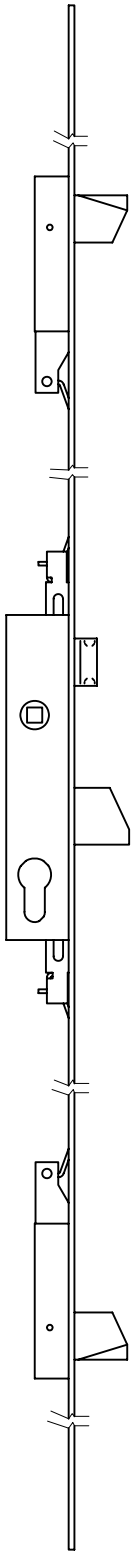
SCHEMA INSTALLAZIONE SERRATURE
LOCKS INSTALLATION DIAGRAM









OSS: PER LAVORAZIONI E MONTAGGIO DELLE SERRATURE FARE RIFERIMENTO AI MANUALI DEI COSTRUTTORI

OSS: FOR TOOLINGS AND MOUNTING OF LOCKS REFER TO THE MANUALS OF THE BUILDERS

Attrezzatura: PANTOGRAFO, TRAPANO
Tooling: PANTOGRAPH, DRILL

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