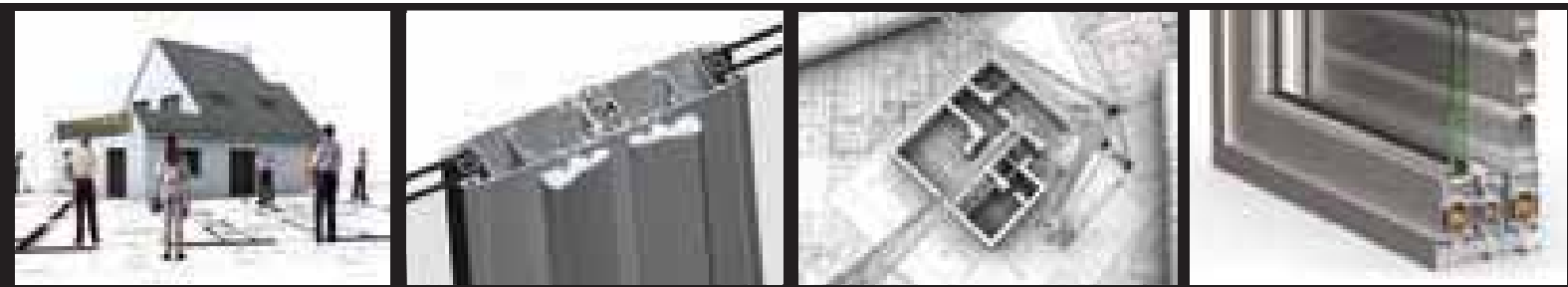


ALUMINCO

A ALUMINIUM BUILDING SYSTEMS

AL 230

SLIDING
COULISSANTS



AL 230

ALUMINIUM SYSTEMS / SYSTEMES EN ALUMINIUM

CERTIFICATES - CERTIFICATS

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



ΕΠΙΧΕΙΡΗΣΗ ΚΑΙ ΕΠΙΧΕΙΡΙΣΤΗΣ
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SUMMARY OF RESULTS OF TESTING CERTIFICATE 09169 / 30.11.2009

NUMBER	09169	DATE	30 / 11 / 2009
Client's data:	ALUMINCO S.A. ALUMINIUM SYSTEMS ΤΡΗΣΗ ΜΙΣΑΛΙ ΕΜΜΕ ΟΔ 300 11 ΣΟΦΙΑ ΤΙΝΙΑΣ ΔΕΙΞΕ		
Product description:	DOUBLE SASH WINDOW SLIDING		
Material:	ALUMINIUM		
System:	AL 230		



1220 x 960 mm

Air Permeability ELOT EN 1026:2000 / ELOT EN 12207:2000	Class 3
Watertightness ELOT EN 1027:2000 / ELOT EN 12206:2000	Class 1B
Resistance to Wind Load ELOT EN 12211:2000 / ELOT EN 12210:2000	Class C3

THE RESULTS CONCERN EXCLUSIVELY THE ABOVE TESTED PRODUCT.

EIRINI PAPAPOPOULOU
 TECHNICAL MANAGER

IOANNIS GIERTSOS
 GENERAL MANAGER

EXACT TRANSLATION FROM THE GREEK ORIGINAL

09169

ΕΚΑΝΑΛ ΕΠΙΧΕΙΡΗΣΗ

Page 1 of 1



ALUMINCO

A ALUMINIUM BUILDING SYSTEMS

Sliding - Coulissants

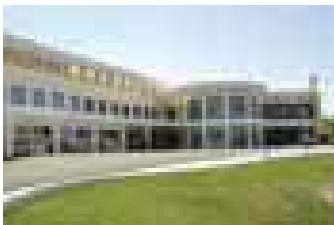
AL 230
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AL 230

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COMPANY PROFILE - PROFIL DE SOCIÉTÉ

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



ALUMINCO represents the first company in the field, which since its foundation in 1982, initiated a new generation of innovative products of cast aluminium in traditional designs, complying with the current architectural and constructional needs.

Today it has been developed into a completely vertical aluminium industry, probably unique in Greece that processes aluminium in three ways:

- Extrusion - with a production capacity of 13.000 tones of profile per year
- Doors & Panels - with a production capacity of 70.000 panels per year
- Foundry - with a production capacity of 1.000 tones per year

In ALUMINCO's production center, which is extended into 30.000m² in Inofyta Viotia, 40 km from Athens, the company has integrated aluminium process units, polyester powder coating, montage, finishing and packaging of the products which produces and delivers finished, ready for use.

With integrated solutions for the professional constructor and an outstanding corporate strategy, characterized by:

- Restless, innovative spirit

Continuously focusing into research and development of new, improved products and systems which fully comply with the quality, the design and performance standards of the EE countries.

- Outstanding quality

With production processes certified by the ISO 9001 & ISO 9014. With dyeing processes based on the QUALICOAT specifications and extra Seaside Class process.

- Unsurpassed flexibility

Besides its size, ALUMINCO is always ready to design and produce customized products and solutions, which meet the requirements of even its most demanding clientele.

There of, it's not an accidental fact that ALUMINCO's export activity covers over 60 countries, in 5 continents.

COMPANY PROFILE - PROFIL DE SOCIÉTÉ

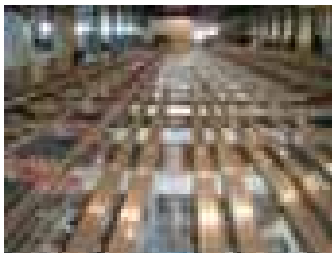
ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



ALUMINCO est la première société d'aluminium qui, depuis sa création en 1982, a lancé une nouvelle génération des produits innovateurs en aluminium coulé sur des motifs traditionnels, en répondant ainsi aux besoins modernes de l'architecture et de la construction.

Aujourd'hui, elle s'évolue continuellement en une industrie d'aluminium complète et verticale, peut-être la seule en Grèce, qui traite l'aluminium des trois façons différentes :

- Extrusion - capacité de production de 13.000 tons des profils en alu par an
- Portes - capacité de production de 70.000 panneaux par an
- Fonderie - capacité de production de 1.000 tons par an

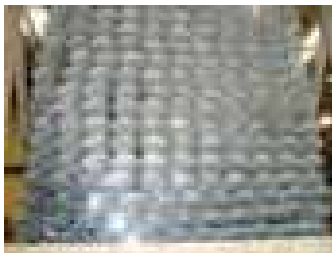


Au centre de production d'ALUMINCO, qui se trouve à 40 kms d'Athènes, à Inofita Viotia et qui occupe 30.000m², nous avons organisé des unités complètes de traitement, de thermo laquage, de montage, de finition et d'emballage des produits que nous produisons et que nous livrons prêts a la pose.

Avec des solutions complètes pour les constructeurs professionnels et une figure distincte caractérisé par:

- Un esprit curieux et innovateur

ALUMINCO est toujours attachée a la recherche continue et au développement des nouveaux produits et des systèmes, capables de correspondre aux marchés du monde occidental tant exigeants et si rapidement évolués, au niveau de qualité, d'esthétique et de fonctionnalité.



- Persistance dans la qualité

Par une procédure de production qualifiée par ISO 9001 & ISO 9014. Par une procédure de thermolaquage basée sur les normes de QUALICOAT et de plus par le traitement spéciale appliqué pour des zones maritimes (Seaside Class).



- Grande flexibilité

ALUMINCO fabrique une large gamme des produits et couvre presque tout besoin d'architecture et de construction, elle est toujours prête à designer et à fabriquer des produits et des solutions sur mesure pour pouvoir répondre a toutes les exigences!

C'est pour cela qu'ALUMINCO présente une activité d'exportation à des 60 pays dans le monde entier.

Profil De
Société

IDENTITY - IDENTITÉ 230

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

AL230 is a new sliding system designed to offer maximum water tightness and safety.

Its greatest advantage is the numerous combinations with as less profiles as possible.

A robust fabrication of overlapping balcony doors is achieved by using divisible joint corners. The weight of the sliding doors is evenly allocated on symmetrical guides, avoiding distorting, while a silent movement and durability are ensured due to the inserted stainless steel rail.

The system includes an elegant rebate with discreet corners and internal stop for the flash fitted sliding doors.

Furthermore, the use of fly screen sash with cover for ultimate concealment.

Both covering profiles are connected by divisible joint corners, ensuring perfect application on even or uneven walls.

The rollers can easily be replaced without dismantling the door which is a big advantage for fabrication, installation and maintenance.

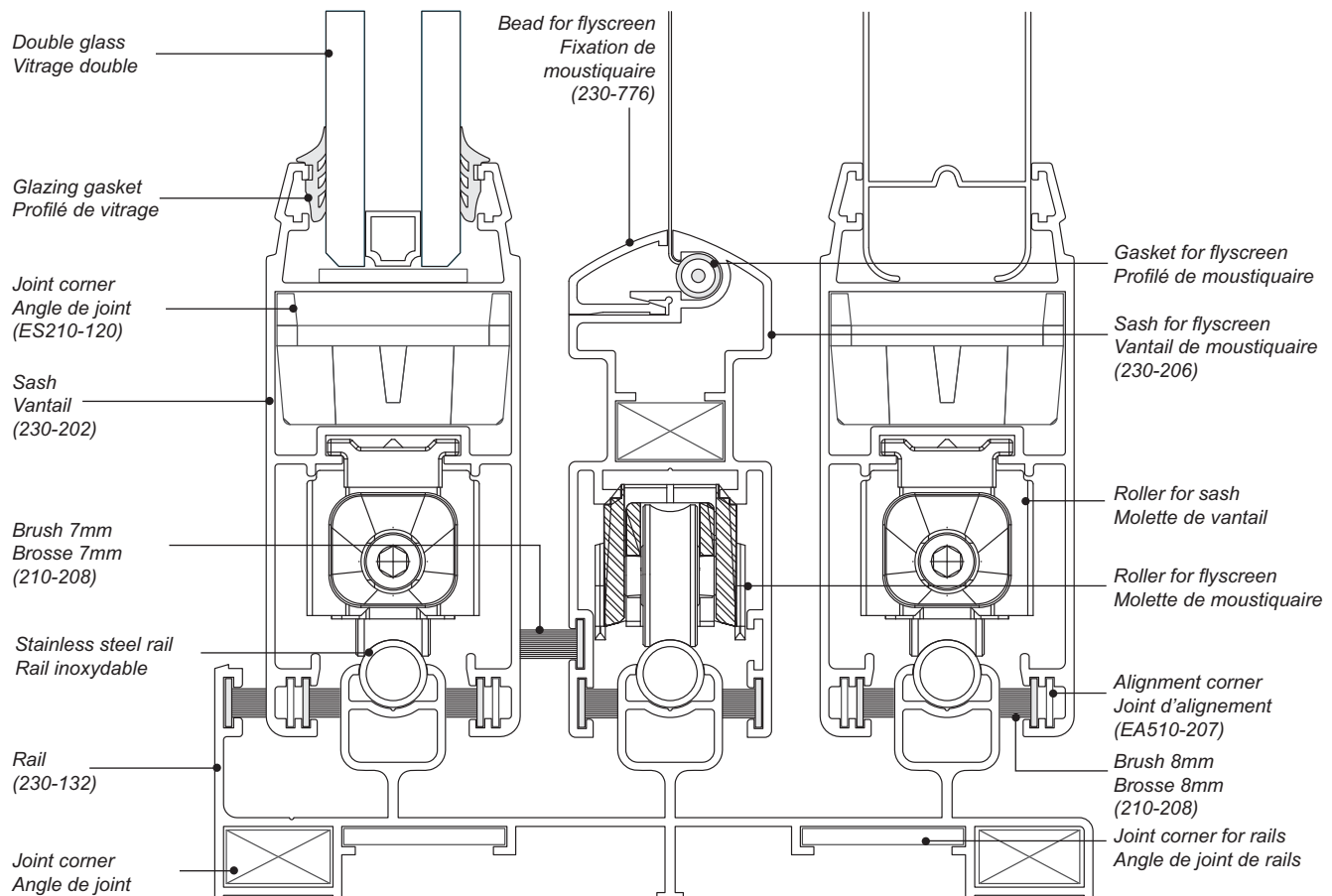
AL230 has been designed to be used in private houses as well as in public buildings.

The modern lines and advanced design make possible large openings for greater view and natural light penetration.

Le nouveau système AL230 est dessiné pour satisfaire les constructions d'applications nombreuses, offrant une étanchéité excellente, ainsi que sécurité. L'emploi de moins profils avec plus de combinaisons le rendre très compétitif. Ce système est créé pour le joint fort des rails, en ce qui concerne les vantaux superposés avec angles de joint séparés. Le poids de portes coulissantes est distribué aux rails symétriquement pour l'évasion de torsions, puisque le roulement aisé et silencieux des parties coulissantes sur le rail inox encastré s'assure l'intemporalité du panneau et ne permet pas décoloration.

Pour le double vantail coulissant, le système accepte sans bouchons visibles et a un arrêt intérieur, fort et distinctif. Le système AL230 permis l'emploi de la moustiquaire avec un couvercle que cachent l'appui élastique et la moustiquaire. Les couvre-joints sont raccordés avec angles divisibles, s'assurant un joint absolu, même si aux murs irréguliers. Le changement de molettes est réalisé sans démonter les panneaux, s'offrant une construction, installation et maintenance facile.

Attention particulière est donnée au dessin soigneux et l'esthétique parfait du système AL230. Les lignes droites et modernes sont idéales pour la construction de maisons et bureaux modernes que demandent d'ouvertures grands pour offrir de vue et la lumière naturelle.



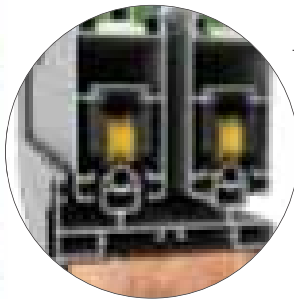
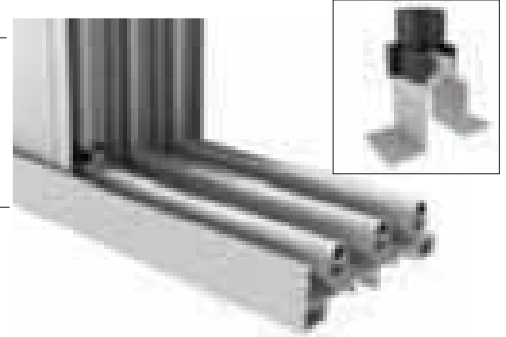
ADVANTAGES - AVANTAGES 230

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



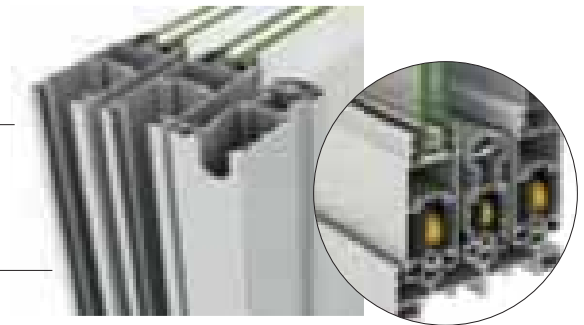
- Robust rail connection for double overlapping sashes with divided corner joints.
- Smooth movement for sliding sashes with an extra inox rail which ensures durability and protects from color damage.
- Joints forts de rails pour les vantaux superposés à angles de joints divisibles.
- Mouvement aisé et silencieux sur un rail inox encastré qui assure l'intemporalité du panneau et ne permet pas sa décoloration.

- Double flush-fitted adapter for sash, without visible plugs.
- Particularly robust and distinctive hidden stop for the flush-fitted constructions.
- Système battant pour double vantail coulissant sans bouchons visible.
- Un arrêt intérieur, particulièrement fort et distinctif.



- To avoid torsion, a weight distribution center with symmetrical rails is used.
- Distribution du centre de gravité des panneaux coulissants aux rails symétriques pour l'évasion de torsions.

- Flyscreen with clip that hides the gasket.
- Moustiquaire avec un couvercle qui cache le joint.



- Excellent aesthetic result.
- Parfait resultat esthetique.



- Cover gap profiles with divided corner joints that ensure absolute connection without rebates.
- The joints offer ultimate water-tightness.
- Fast fabrication and easy installation.

- Profiles de couvre-joints avec des angles de joints symétriques, assurant une connection absolue avec les profils de battement.
- Les joints offrent une etancheite absolue.
- Construction rapide et installation facile.

QUALITY CONTROL METHODS

METHODES DE CONTROLE QUALITE

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

QUALITY CONTROL METHODS

GEOMETRICAL QUALITIES

Dimensions

For a critical nominal dimension of 50 mm, a tolerance of (+/-) 0.40 mm is given, which means that this dimension may range from 49.60 until 50.40 mm.

Straightness

A permissible rod 3mm long is given for a rod 6 m long. Checking may be carried out by placing the two ends of the rod on a flat surface, in order to limit any deviation due to weight.

The arrow in the middle of the rod must not exceed 3 mm.

Distortion

For a profile of median dimensions, a distortion tolerance of 2mm at the end of the rod is given for a rod 5-6 m long. In order to check the distortion, the rod must be placed on a flat surface, the panel side to abut on one end and measure the deviation of the surface on the other side of the rod.

ELECTROSTATIC PAINTING

Appearance

The covering of the critical surface must be examined from the right angle of view from a distance of 2 m (QUALICOAT standards determine a distance of 3 m). Various defects on the surface must not be visible from this distance.

METHODES DE CONTROLE QUALITE DE PRODUITS D'EXTRUSION ET PEINTURE ELECTROSTATIQUE

CARACTERISTIQUES GEOMETRIQUES

Dimensions

Pour une dimension nominale 50 mm, existe une tolérance de (+/-) 0,40 mm, c'est-à-dire que la dimension peut varier de 49,60 mm à 50,40 mm.

Rectitude

Pour une baguette de 6 m, il y a une flèche de 3 mm. Le contrôle s'effectue en appuyant sur ses deux bouts sur un établi plat, pour que l'écart se limite à cause de son poids.

La flèche ne doit pas dépasser les 3mm.

Gauchissement

Pour un profil de dimensions moyennes, il y a une tolérance de gauchissement de 2mm au bout d'une baguette de 5- 6 m de long.

Pour contrôler le gauchissement, la baguette doit être placée sur un écart plat; Alors, un côté du profil est adjacent et la déviation d'écart peut être calculé à l'autre bout de la baguette.

PEINTURE ELECTROSTATIQUE

Face - Apparence

Le revêtement de surfaces importantes doit être examiné par l'angle du regard propre, d'une distance de 2m. (les normes de QUALICOAT stipulent une distance de 3m). Des divers défauts sur la surface, ne doivent pas être visibles par cette distance.

ALUMINCO

A ALUMINIUM BUILDING SYSTEMS


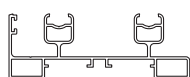
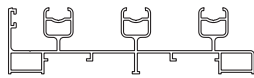
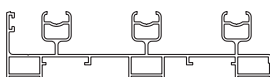
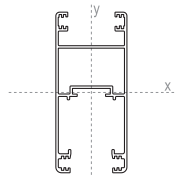
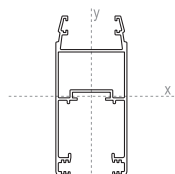
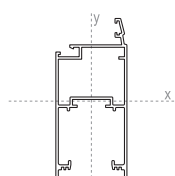
Sliding - Coulissants

AL 230

**GENERAL CATALOGUE
CATALOGUE GENERAL**

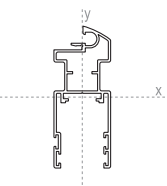
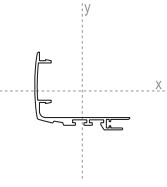
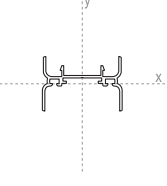
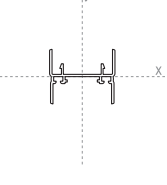



GENERAL CATALOGUE - CATALOGUE GENERAL

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

CODE	SHAPE FORME	WEIGHT POIDS	MOMENT OF INERTIA MOMENT D'INERTIE	MOMENT OF RESISTANCE MOMENT DE RESISTANCE	DESCRIPTION
		LENGTH LONGUEUR			
230-112		632gr/m			SINGLE RAIL RAIL
		6,00m			
230-122		1202gr/m			DOUBLE RAIL DOUBLE RAIL
		6,00m			
230-132		1597gr/m			TRIPLE RAIL (GLASS-MOSQUITO SCREEN SHUTTER) TRIPLE RAIL (VITRAGE- MOUSTIQUAIRE-VOLET)
		6,00m			
230-134		1721gr/m			TRIPLE RAIL FOR OVERLAPPING SASHES TRIPLE RAIL SUPERPOSE
		6,00m			
230-201		1147gr/m	$J_{xx}=28,36 \text{ cm}^4$ $J_{yy}=10,33 \text{ cm}^4$	$W_x=6,50 \text{ cm}^3$ $W_y=5,50 \text{ cm}^3$	SASH FOR DOUBLE GLASS OR SHUTTER VANTAIL COULISSANT
		6,00m			
230-202		1130gr/m	$J_{xx}=26,70 \text{ cm}^4$ $J_{yy}=9,90 \text{ cm}^4$	$W_x=6,24 \text{ cm}^3$ $W_y=5,26 \text{ cm}^3$	SASH FOR DOUBLE GLASS OR SHUTTER VANTAIL COULISSANT
		6,00m			
230-203		1088gr/m	$J_{xx}=25,67 \text{ cm}^4$ $J_{yy}=9,24 \text{ cm}^4$	$W_x=5,62 \text{ cm}^3$ $W_y=4,64 \text{ cm}^3$	SASH FOR DOUBLE GLASS OR SHUTTER VANTAIL COULISSANT
		6,00m			










GENERAL CATALOGUE - CATALOGUE GENERAL

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

CODE	SHAPE FORME	WEIGHT POIDS	MOMENT OF INERTIA MOMENT D'INERTIE	MOMENT OF RESISTANCE MOMENT DE RESISTANCE	DESCRIPTION
		LENGTH LONGUEUR			
230-206		925gr/m	$J_{xx}=15,39 \text{ cm}^4$ $J_{yy}=4,23 \text{ cm}^4$	$W_x=3,84 \text{ cm}^3$ $W_y=2,70 \text{ cm}^3$	SASH FOR MOSQUITO SCREEN VANTAIL DE MOUSTIQUAIRE
		6,00m			
230-300		492gr/m	$J_{xx}=2,30 \text{ cm}^4$ $J_{yy}=4,20 \text{ cm}^4$	$W_x=0,78 \text{ cm}^3$ $W_y=1,25 \text{ cm}^3$	HOOK FOR SASHES CROCHET POUR VANTAIL
		5,00m			
230-305		442gr/m	$J_{xx}=0,60 \text{ cm}^4$ $J_{yy}=4,10 \text{ cm}^4$	$W_x=0,37 \text{ cm}^3$ $W_y=1,94 \text{ cm}^3$	CENTRAL ADAPTER FOR SASHES VANTAIL BATTANT
		5,00m			
230-306		369gr/m	$J_{xx}=0,54 \text{ cm}^4$ $J_{yy}=2,65 \text{ cm}^4$	$W_x=0,36 \text{ cm}^3$ $W_y=5,50 \text{ cm}^3$	CENTRAL ADAPTER FOR MOSQ. SCREEN MOUSTIQUAIRE BATTANT
		5,00m			
230-773		136gr/m			CLIP FOR SASH 230-203 PANNEAU DE VANTAIL 230-203
		6,00m			
230-776		116gr/m			CLIP FOR MOSQUITO SCREEN SASH 230-206 PANNEAU DE MOUSTIQUAIRE 230-206
		6,00m			
230-801		355gr/m			COVER PROFILE COUVRE-JOINT
		6,00m			








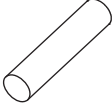

GENERAL CATALOGUE - CATALOGUE GENERAL

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

CODE	SHAPE FORME	WEIGHT POIDS	MOMENT OF INERTIA MOMENT D'INERTIE	MOMENT OF RESISTANCE MOMENT DE RESISTANCE	DESCRIPTION
		LENGTH LONGUEUR			
230-802		348gr/m			COVER PROFILE COUVRE-JOINT DETACHABLE
		6,00m			
230-803		577gr/m			COVER GAP PROFILE COUVRE JOINT DE VANTAIL ENCASTRE
		5,00m			
230-804		228gr/m			CLIP FOR COVER GAP PROFILE 230-803 PANNEAU DE COUVRE-JOINT
		5,00m			
230-806		192gr/m			CLIP FOR COVER GAP PROFILE 230-803 PANNEAU DE COUVRE-JOINT
		5,00m			
230-808		509gr/m			COVER PROFILE COUVRE-JOINT DETACHABLE
		6,00m			
230-809		500gr/m			COVER PROFILE COUVRE-JOINT DE VANTAIL ENCASTRE
		5,00m			
230-810		126gr/m			CLIP FOR COVER PROFILE 230-809 PANNEAU DE COUVRE-JOINT
		5,00m			
230-901		64gr/m			CLIP FOR RAILS COUVERCLE DE RAIL
		6,00m			
230-902		382gr/m			HANDLE PROFILE PROFIL DE POIGNEE
		6,00m			





GENERAL CATALOGUE - CATALOGUE GENERAL

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

CODE	SHAPE FORME	WEIGHT POIDS	MOMENT OF INERTIA MOMENT D'INERTIE	MOMENT OF RESISTANCE MOMENT DE RESISTANCE	DESCRIPTION
		LENGTH LONGUEUR			
230-903		216gr/m			ADDITIONAL HANDLE PROFILE BASE POUR PROFIL DE POIGNEE
		6,00m			
230-905		386gr/m			SEALING CLIP PROFILE FOR SASHES CALE D'ETANCHEITE POUR VANTAUX
		6,00m			
230-907		235gr/m			SEALING CLIP PROFILE FOR MOSQUITO SCREEN CALE D'ETANCHEITE POUR MOUSTIQUAIRE
		6,00m			
230-909		402gr/m			PROFILE FOR DOUBLE FLUSH-FITTED SASH STOPPER PROFIL POUR BOUCHON DE DOUBLE VANTAIL
		6,00m			
230-910		227gr/m			ADDITIONAL RAIL FOR CENTRAL ADAPTER OF SASHES RAIL SUPPLEMENTAIRE POUR VANTAUX A BATTANT
		5,00m			
230-911		171gr/m			ADDITIONAL RAIL FOR CENTRAL ADAPTER OF MOSQ. SCREEN RAIL SUPPLEMENTAIRE POUR MOUSTIQUAIRE A BATTANT
		5,00m			
ES210-801		392gr/m			STAINLESS STEEL RAIL Ø10 TUBE DE RAIL INOX Ø10
		6,00m			
PAT19-084		212gr/m			ALUMINIUM RAIL Ø10 RAIL EN ALUMINIUM Ø10
		6,00m			
245-012		408gr/m			PROFILE FOR SHUTTERS PERSIENNE 15m/m ²
		6,00m			

GENERAL CATALOGUE - CATALOGUE GENERAL

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

CODE	SHAPE FORME	WEIGHT POIDS	MOMENT OF INERTIA MOMENT D'INERTIE	MOMENT OF RESISTANCE MOMENT DE RESISTANCE	DESCRIPTION
		LENGTH LONGUEUR			
245-021		575gr/m			PROFILE FOR SHUTTERS DOUBLE PERSIENNE 12,5m/m ²
		6,00m			
245-023		674gr/m			PROFILE FOR SHUTTERS DOUBLE PERSIENNE 10m/m ²
		6,00m			
245-031		334gr/m			PROFILE FOR SHUTTERS DOUBLE PERSIENNE 15,6m/m ²
		6,00m			
245-013		543gr/m			PROFILE FOR SHUTTERS PERSIENNE
		6,00m			

ALUMINCO

A ALUMINIUM BUILDING SYSTEMS

Sliding - Coulissants

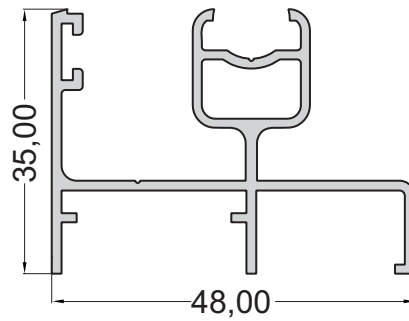
AL 230

PROFILES 1:1

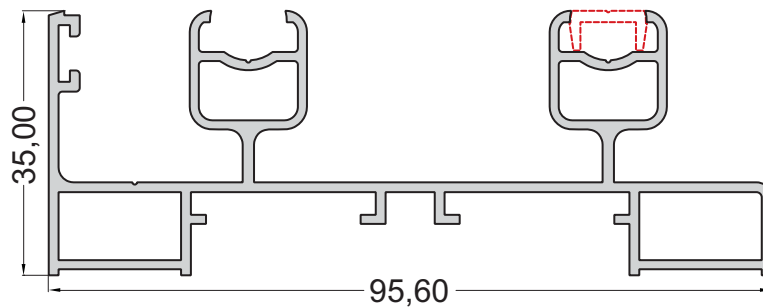
PROFILÉS 1:1

PROFILES - PROFILÉS 1:1

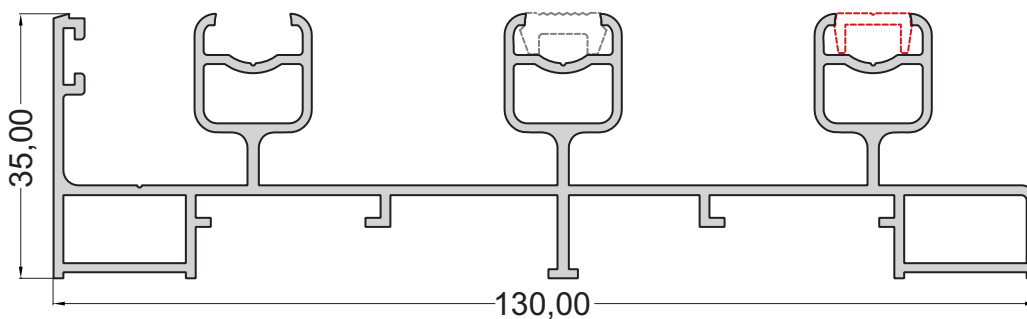
ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-112	SINGLE RAIL	318 mm
WEIGHT - POIDS	RAIL	
632 gr/m		



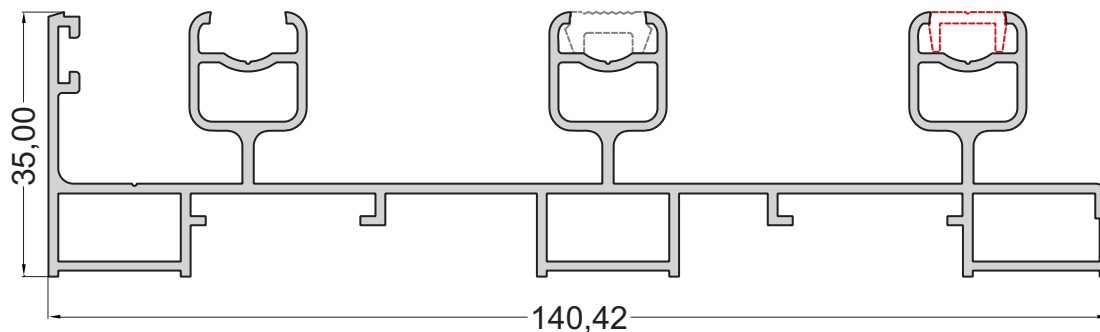
CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-122	DOUBLE RAIL	501 mm
WEIGHT - POIDS	DOUBLE RAIL	
1202 gr/m		



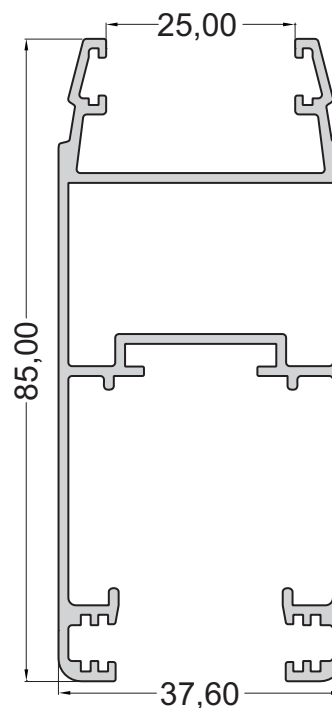
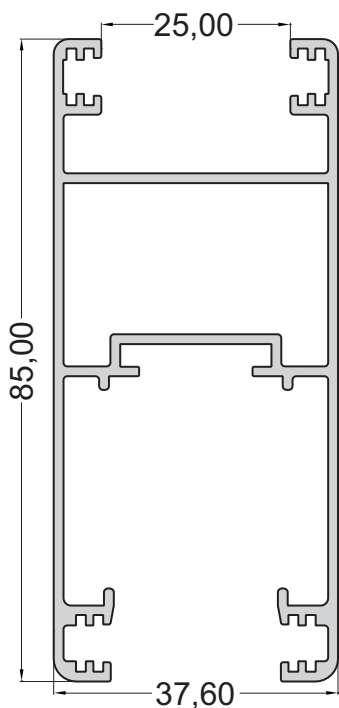
CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-132	TRIPLE RAIL (GLASS-MOSQUITO SCREEN SHUTTER)	680 mm
WEIGHT - POIDS	TRIPLE RAIL (VITRAGE-MOUSTIQUAIRE-VOLET)	
1597 gr/m		

PROFILES - PROFILÉS 1:1

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-134	TRIPLE RAIL FOR OVERLAPPING SASHES	697 mm
WEIGHT - POIDS	TRIPLE RAIL SUPERPOSE	
1721 gr/m		

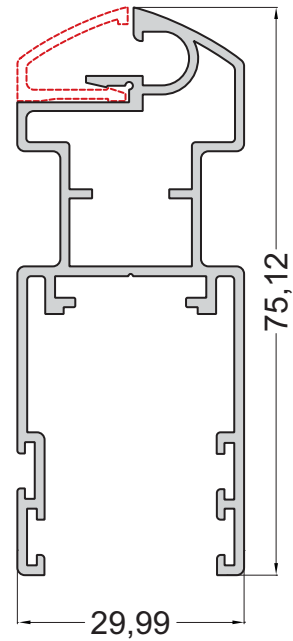
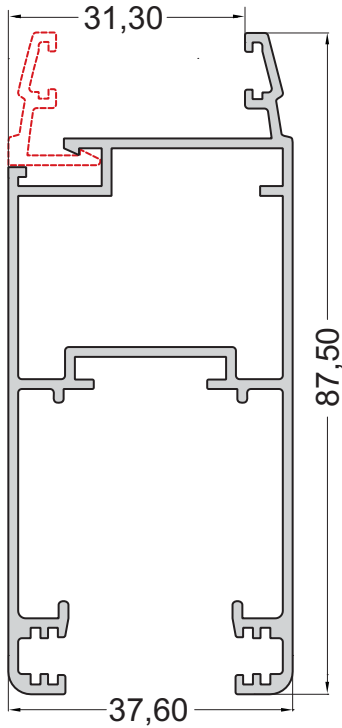


CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-201	SASH FOR DOUBLE GLASS OR SHUTTER	518 mm
WEIGHT - POIDS	VANTAIL COULISSANT	
1147 gr/m		

CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-202	SASH FOR DOUBLE GLASS OR SHUTTER	490 mm
WEIGHT - POIDS	VANTAIL COULISSANT	
1130 gr/m		

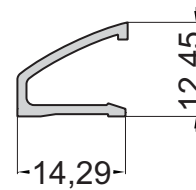
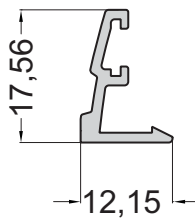
PROFILES - PROFILÉS 1:1

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-203	SASH FOR DOUBLE GLASS OR SHUTTER	462 mm
WEIGHT - POIDS	VANTAIL COULISSANT	
1088 gr/m		

CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-206	SASH FOR MOSQ. SCREEN	409 mm
WEIGHT - POIDS	VANTAIL DE MOUSTIQUAIRE	
925 gr/m		

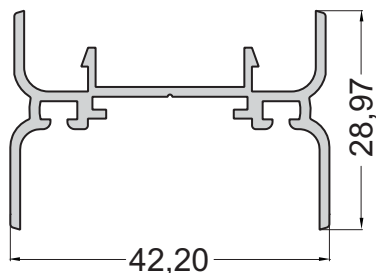


CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-773	CLIP FOR SASH 230-203	75 mm
WEIGHT - POIDS	PANNEAU DE VANTAIL 230-203	
136 gr/m		

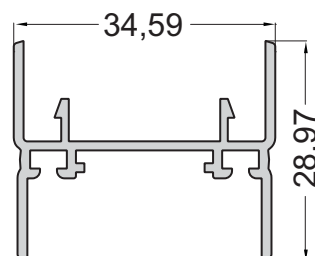
CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-776	CLIP FOR MOSQUITO SCREEN SASH 230-206	71 mm
WEIGHT - POIDS	PANNEAU DE MOUSTIQUAIRE 230-206	
116 gr/m		

PROFILES - PROFILÉS 1:1

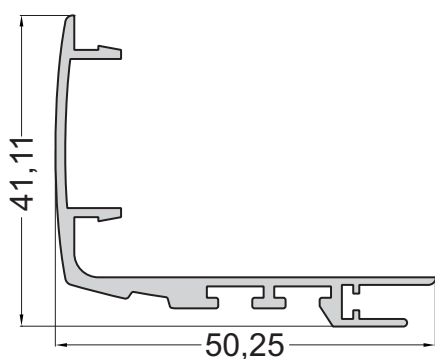
ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



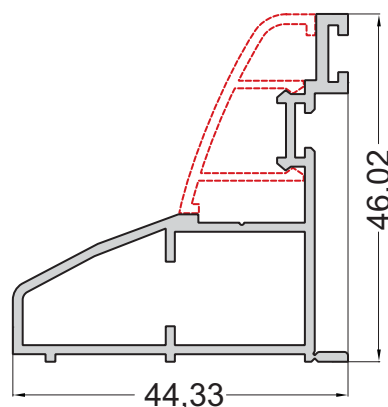
CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-305	CENTRAL ADAPTER FOR SASHES	250 mm
WEIGHT - POIDS	VANTAIL BATTANT	
442 gr/m		



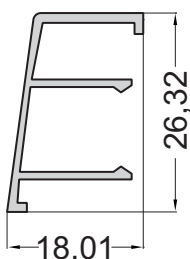
CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-306	CENTRAL ADAPTER FOR MOSQ. SCREEN	225 mm
WEIGHT - POIDS	MOUSTIQUAIRE BATTANT	
369 gr/m		



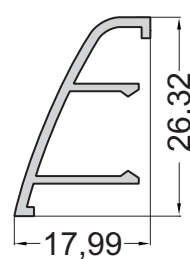
CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-300	HOOK FOR SASHES	246 mm
WEIGHT - POIDS	CROCHET POUR VANTAIL	
492 gr/m		



CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-803	COVER GAP PROFILE	191 mm
WEIGHT - POIDS	COUVRE JOINT DE VANTAIL ENCASTRE	
577 gr/m		



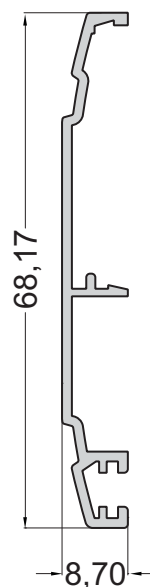
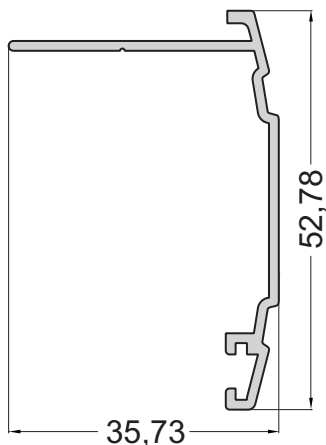
CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-804	CLIP FOR COVER GAP PROFILE 230-803	144 mm
WEIGHT - POIDS	PANNEAU DE COUVRE-JOINT	
228 gr/m		



CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-806	CLIP FOR COVER GAP PROFILE 230-803	121 mm
WEIGHT - POIDS	PANNEAU DE COUVRE-JOINT	
192 gr/m		

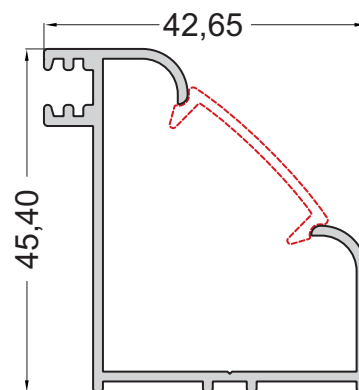
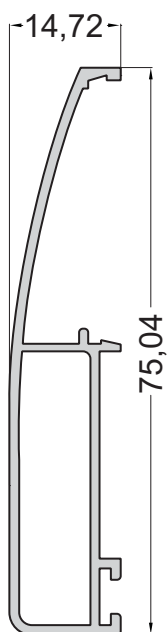
PROFILES - PROFILÉS 1:1

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE 201 mm
230-801	COVER PROFILE	
WEIGHT - POIDS	COUVRE-JOINT	
355 gr/m		

CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE 203 mm
230-802	COVER PROFILE	
WEIGHT - POIDS	COUVRE-JOINT DETACHABLE	
348 gr/m		

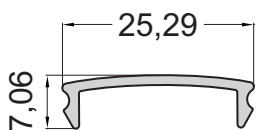


CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE 210 mm
230-808	COVER PROFILE	
WEIGHT - POIDS	COUVRE-JOINT DETACHABLE	
509 gr/m		

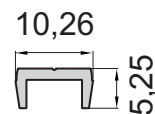
CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE 280 mm
230-809	COVER PROFILE	
WEIGHT - POIDS	COUVRE-JOINT DE VANTAIL ENCASTRE	
500 gr/m		

PROFILES - PROFILÉS 1:1

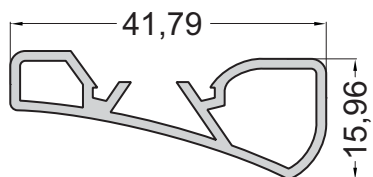
ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



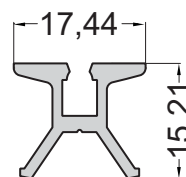
CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-810	CLIP FOR COVER PROFILE 230-809	70 mm
WEIGHT - POIDS	PANNEAU DE COUVRE-JOINT	
126 gr/m		



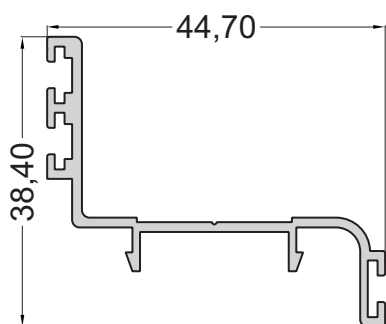
CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-901	CLIP FOR RAILS	37 mm
WEIGHT - POIDS	COUVERCLE DE RAIL	
64 gr/m		



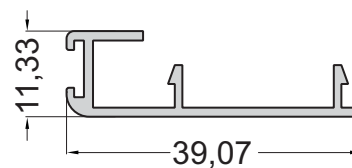
CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-902	HANDLE PROFILE	138 mm
WEIGHT - POIDS	PROFIL DE POIGNEE	
382 gr/m		



CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-903	ADDITIONAL HANDLE PROFILE	97 mm
WEIGHT - POIDS	BASE POUR PROFIL DE POIGNEE	
216 gr/m		



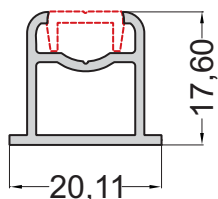
CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-905	SEALING CLIP PROFILE FOR SASHES	227 mm
WEIGHT - POIDS	CALE D'ETANCHEITE POUR VANTAUX	
386 gr/m		



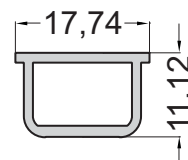
CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-907	SEALING CLIP PROFILE FOR MOSQUITO SCREEN	146 mm
WEIGHT - POIDS	CALE D'ETANCHEITE POUR MOUSTIQUAIRE	
235 gr/m		

PROFILES - PROFILÉS 1:1

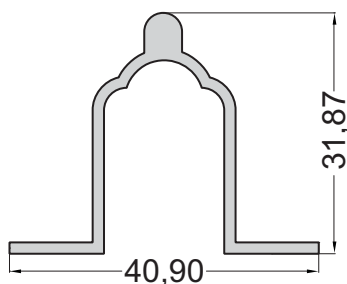
ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



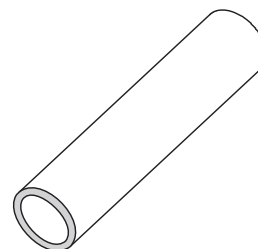
CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-910	ADDITIONAL RAIL FOR CENTRAL ADAPTER OF SASHES	90 mm
WEIGHT - POIDS	RAIL SUPPLEMENTAIRE POUR VANTAUX A BATTANT	
227 gr/m		



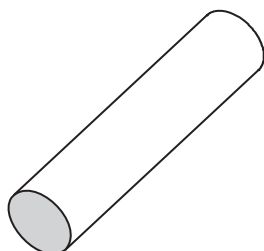
CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-911	ADDITIONAL RAIL FOR CENTRAL ADAPTER OF MOSQ. SCREEN	55 mm
WEIGHT - POIDS	RAIL SUPPLEMENTAIRE POUR MOUSTIQUAIRE A BATTANT	
171 gr/m		



CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE
230-909	PROFILE FOR DOUBLE FLUSH-FITTED SASH STOPPER	181 mm
WEIGHT - POIDS	PROFIL POUR BOUCHON DE DOUBLE VANTAIL	
402 gr/m		



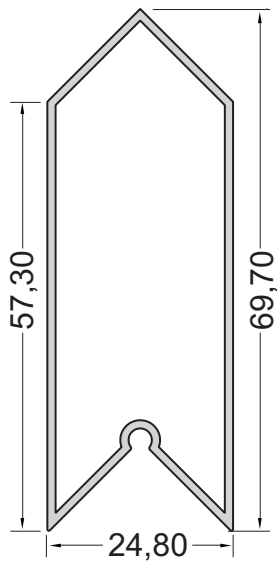
CODE	DESCRIPTION
ES210-801	STAINLESS STEEL RAIL Ø10
WEIGHT - POIDS	TUBE DE RAIL INOX Ø10
392 gr/m	



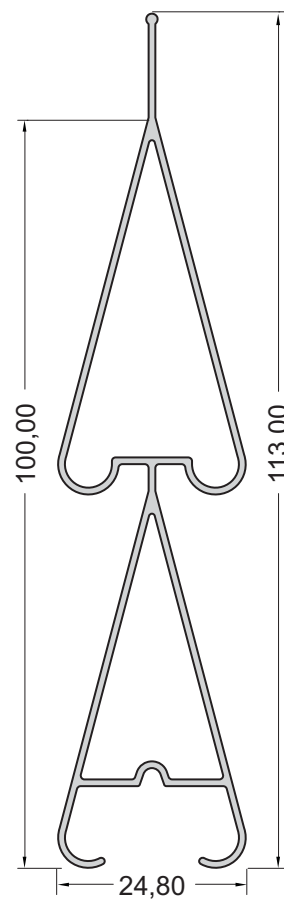
CODE	DESCRIPTION
PAT19-084	ALUMINIUM RAIL Ø10
WEIGHT - POIDS	RAIL EN ALUMINIUM Ø10
212 gr/m	

PROFILES - PROFILÉS 1:1

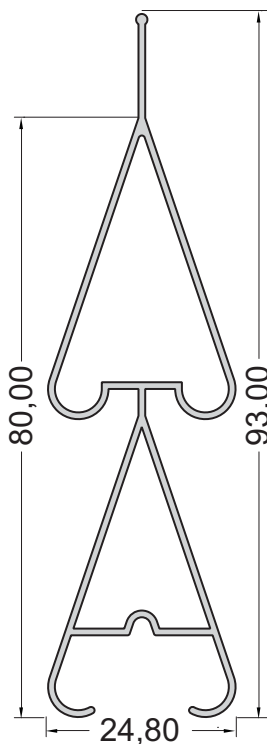
ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE	WEIGHT/ AREA POIDS/ SURFACE
245-013	PROFILE FOR SHUTTERS		
WEIGHT - POIDS	PERSIENNE		
543 gr/m		188 mm	8145 gr/m ²



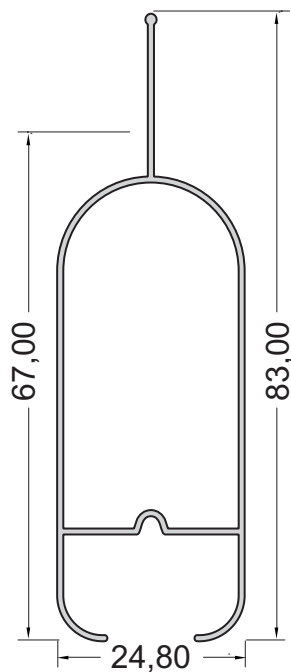
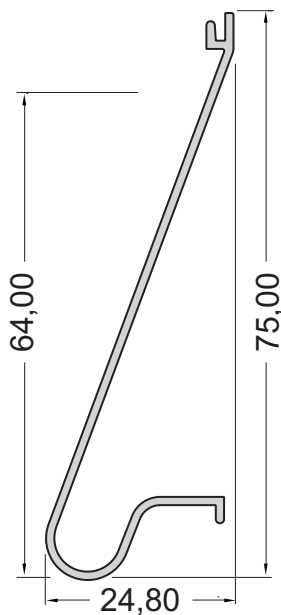
CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE	WEIGHT/ AREA POIDS/ SURFACE
245-023	PROFILE FOR SHUTTERS		
WEIGHT - POIDS	DOUBLE PERSIENNE		
674 gr/m	10m/m ²	326 mm	6740 gr/m ²



CODE	DESCRIPTION	OUTER PERIMETER CIRCUMFERENCE EXTERIEURE	WEIGHT/ AREA POIDS/ SURFACE
245-021	PROFILE FOR SHUTTERS		
WEIGHT - POIDS	DOUBLE PERSIENNE		
575 gr/m	12,5m/m ²	200 mm	7250 gr/m ²

PROFILES - PROFILÉS 1:1

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



CODE	DESCRIPTION	OUTER PERIMETER CIRCONFERENCE EXTERIEURE	WEIGHT/ AREA POIDS/ SURFACE
245-031	PROFILE FOR SHUTTERS		
WEIGHT - POIDS			
334 gr/m	DOUBLE PERSIENNE 15,6m ²	225 mm	5210 gr/m ²

CODE	DESCRIPTION	OUTER PERIMETER CIRCONFERENCE EXTERIEURE	WEIGHT/ AREA POIDS/ SURFACE
245-012	PROFILE FOR SHUTTERS		
WEIGHT - POIDS			
408 gr/m	DOUBLE PERSIENNE 15m ²	250 mm	6150 gr/m ²

ALUMINCO

A ALUMINIUM BUILDING SYSTEMS

Sliding - Coulissants

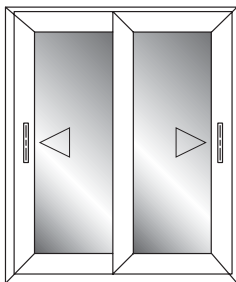
AL 230

SECTIONS 1:1

HEAVY DUTY - CONSTRUCTIONS LOURDES 230

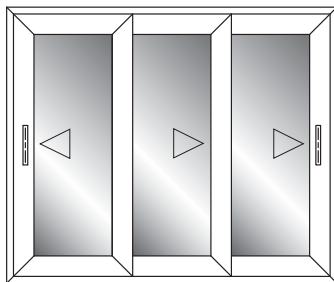
ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

DOUBLE OVERLAPPING SASHES
SUPERPOSE COULISSANT



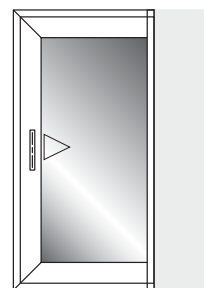
PAGE. 28, 29, 30

TRIPLE OVERLAPPING SASHES
TRIPLE VANTAIL SUPERPOSE



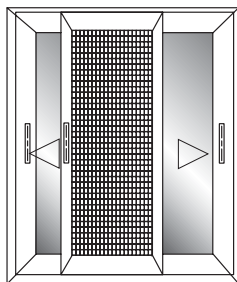
PAGE. 32

FLUSH-FITTED SASH
ENCASTRE COULISSANT



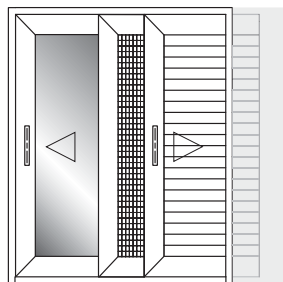
PAGE. 27

DOUBLE OVERLAPPING SASHES WITH
MOSQ. SCREEN
SUPERPOSE AVEC MOUSTIQUAIRE



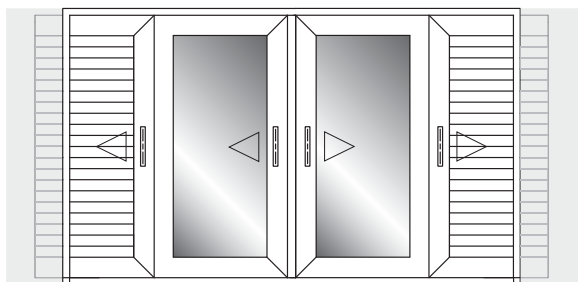
PAGE. 33

FLUSH-FITTED SASH WITH
MOSQUITO SCREEN & SHUTTER
VITRAGE-MOUSTIQUAIRE-VOLET ENCASTRE



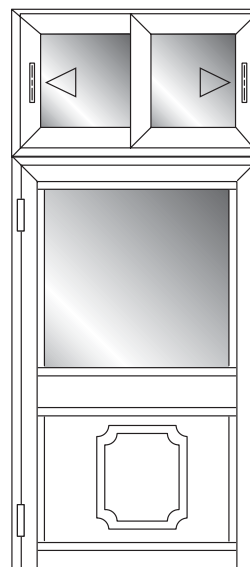
PAGE. 36

DOUBLE FLUSH-FITTED SASH WITH SHUTTER
DOUBLE VITRAGE-VOLET ENCASTRE



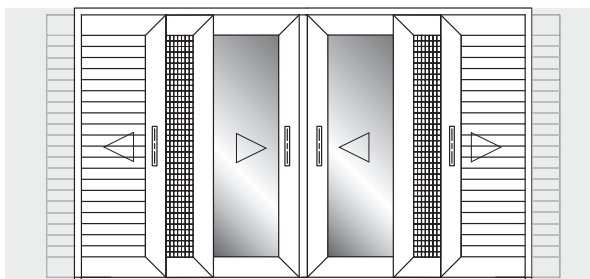
PAGE. 35

OPENING DOOR WITH DOUBLE
OVERLAPPING DORMER
PORTE OUVRANTE
A CLAIRE-VOIE



PAGE. 31

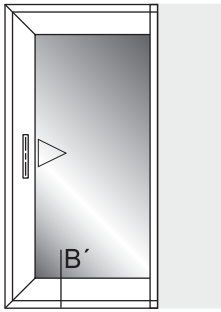
DOUBLE FLUSH-FITTED SASH WITH MOSQUITO
SCREEN & SHUTTER
DOUBLE VITRAGE-MOUSTIQUAIRE-VOLET ENCASTRE



PAGE. 34

SECTIONS

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

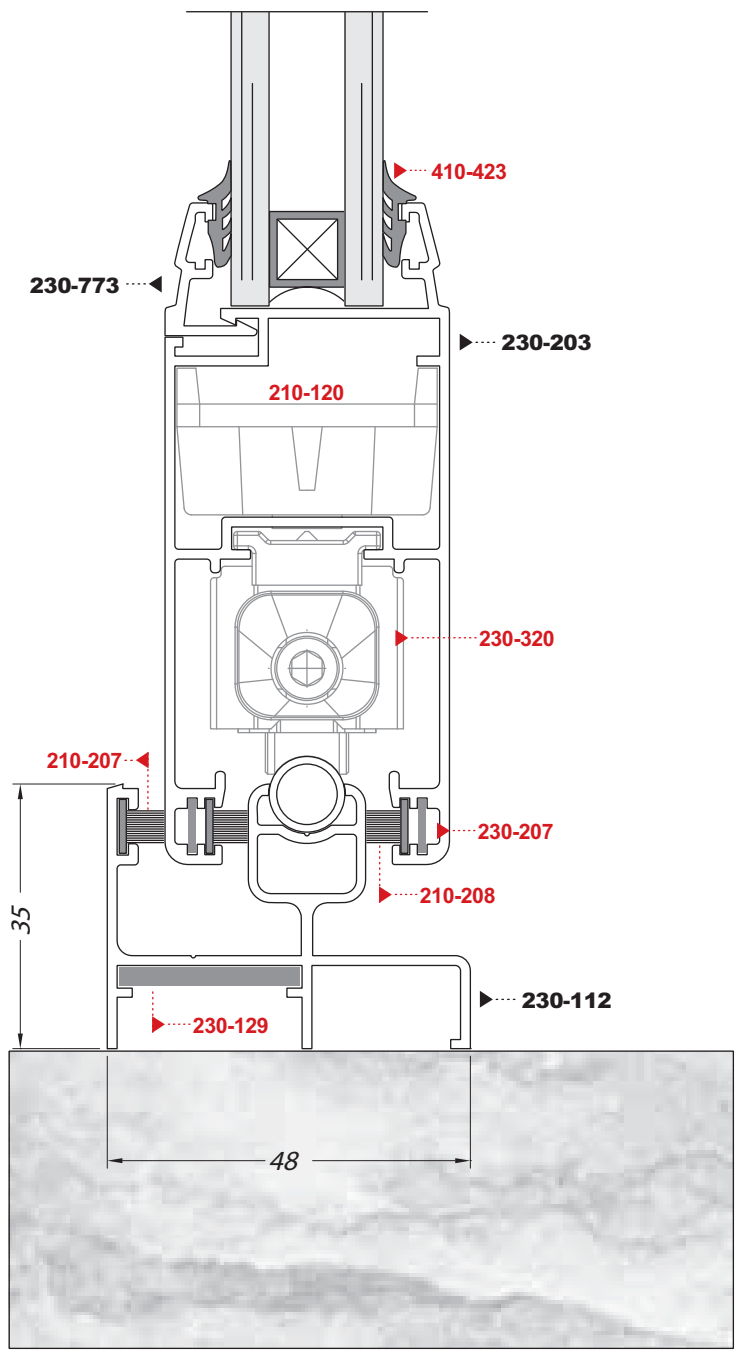


VERTICAL SECTION OF SINGLE FLUSH-FITTED SASH

SECTION VERTICALE DE VANTAIL ENCASTRE COULISSANT

Scale 1:1
Echelle 1:1

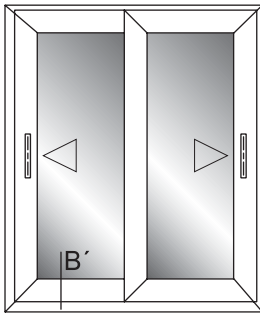
- ▶ ACCESSORIES
ACCESSOIRES
- ▶ PROFILES
PROFILÉS



SECTION B'

SECTIONS


ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



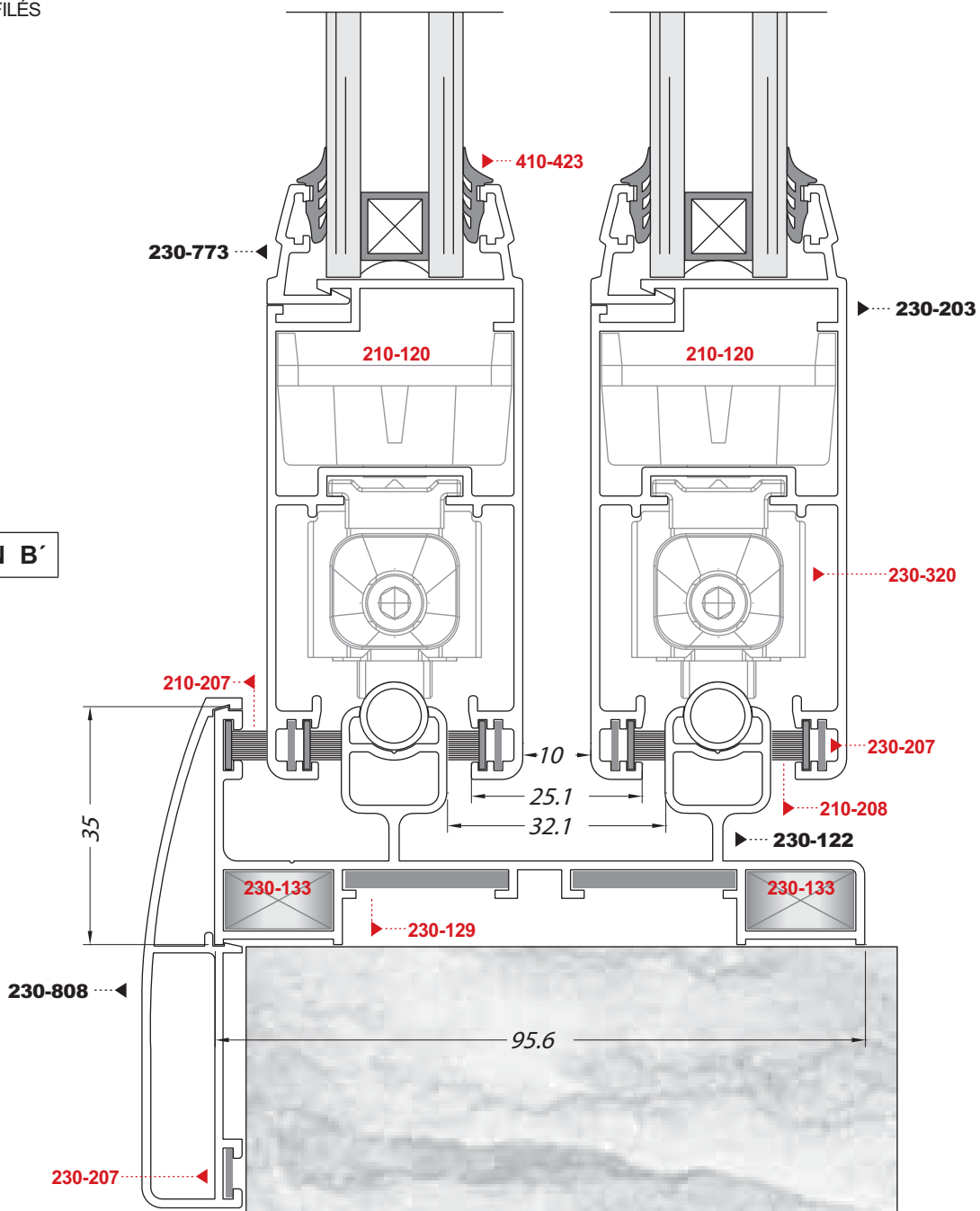
VERTICAL SECTION OF DOUBLE OVERLAPPING SASHES

SECTION VERTICALE DE VANTAIL SUPERPOSE COULISSANT

Scale 1:1
Echelle 1:1

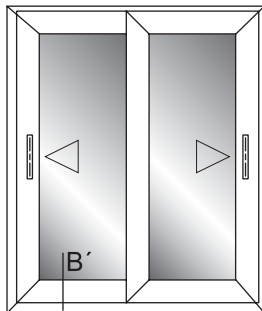
-  ACCESSORIES
ACCESSOIRES
-  PROFILES
PROFILÉS

SECTION B'



SECTIONS



ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



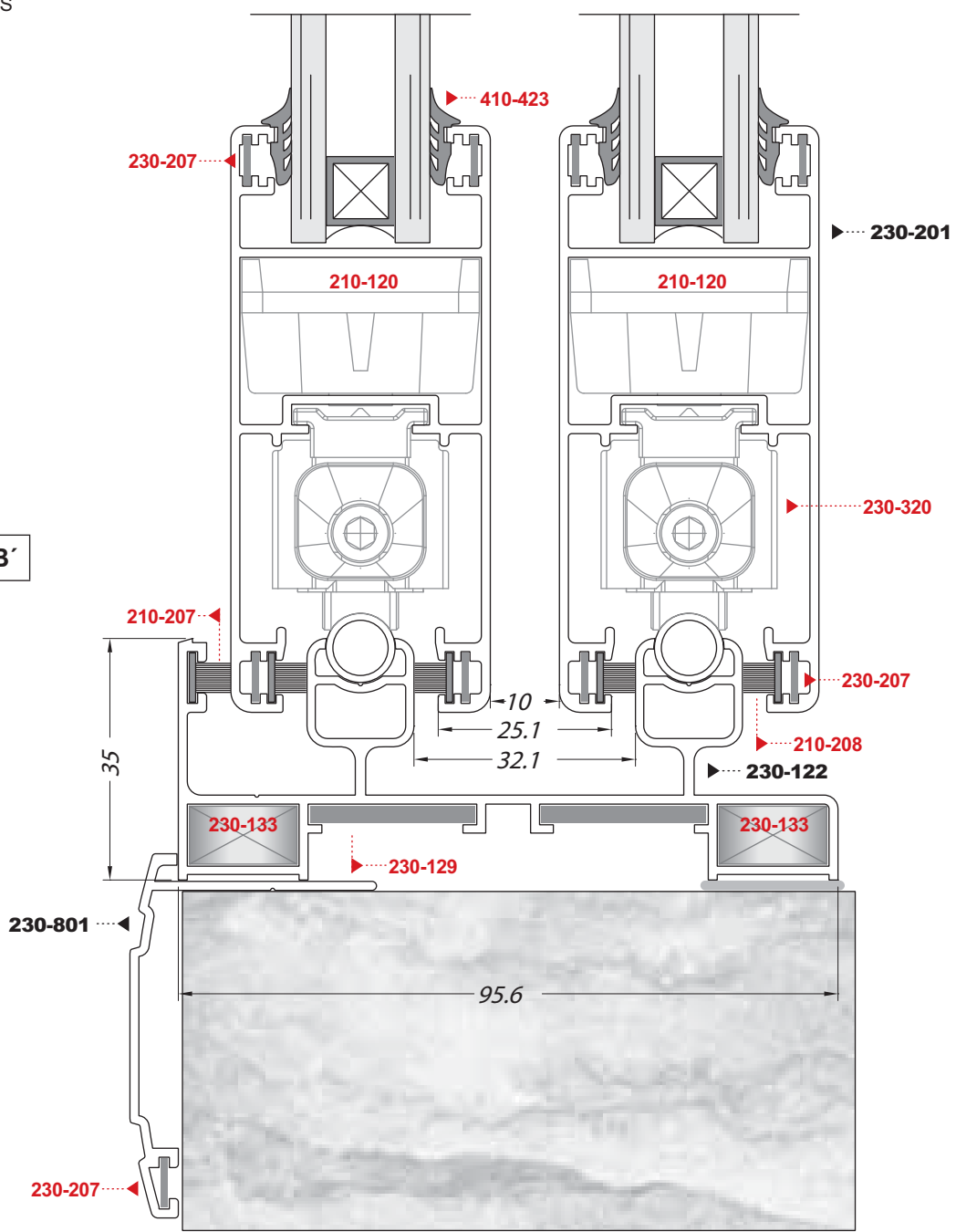
VERTICAL SECTION OF DOUBLE OVERLAPPING SASHES

SECTION VERTICALE DE VANTAIL SUPERPOSE COULISSANT

Scale 1:1
Echelle 1:1

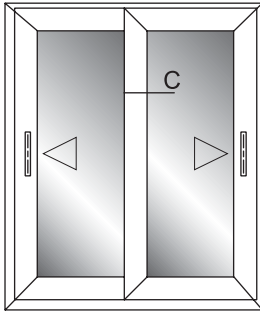
-  ACCESSORIES
ACCESSOIRES
-  PROFILES
PROFILÉS

SECTION B'



SECTIONS

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



HORIZONTAL SECTION OF DOUBLE OVERLAPPING SASHES

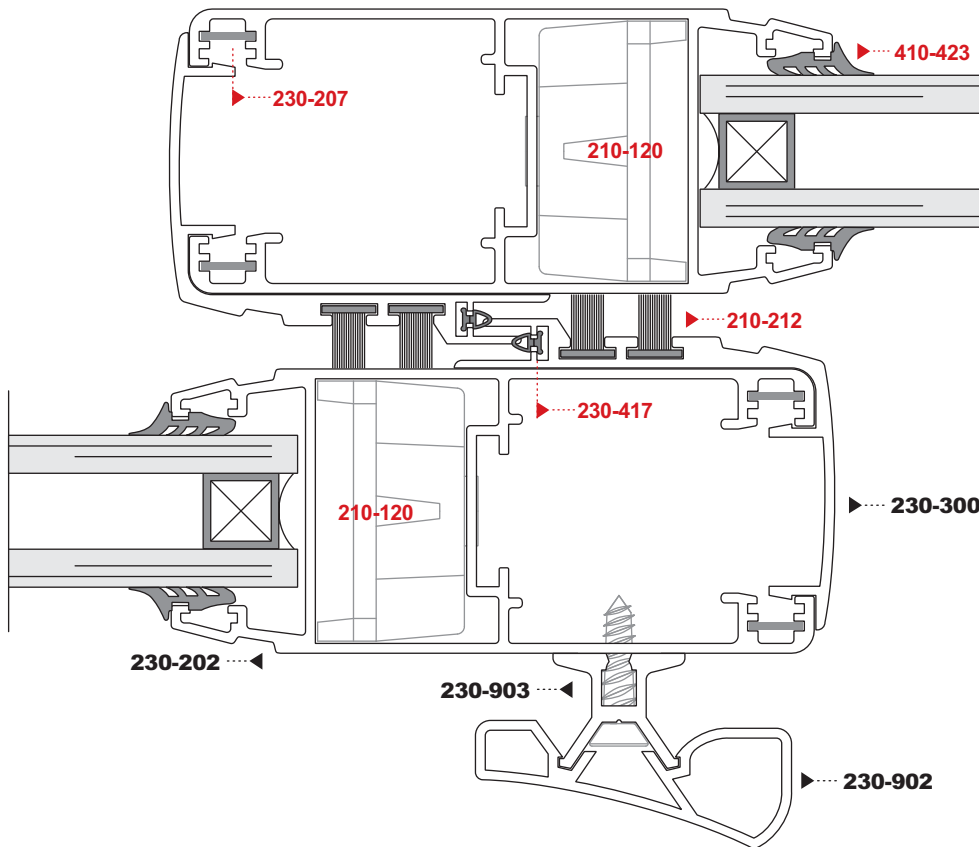
SECTION HORIZONTALE DE VANTAIL SUPERPOSE COULISSANT

Scale 1:1
Echelle 1:1

- ▶ ACCESSORIES
ACCESSOIRES
- ▶ PROFILES
PROFILÉS

SECTION C

Outside / Extérieur

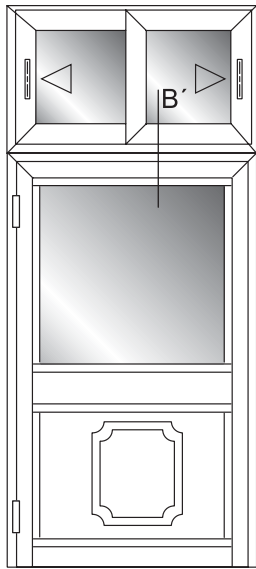


Inside / Intérieur

SECTIONS

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

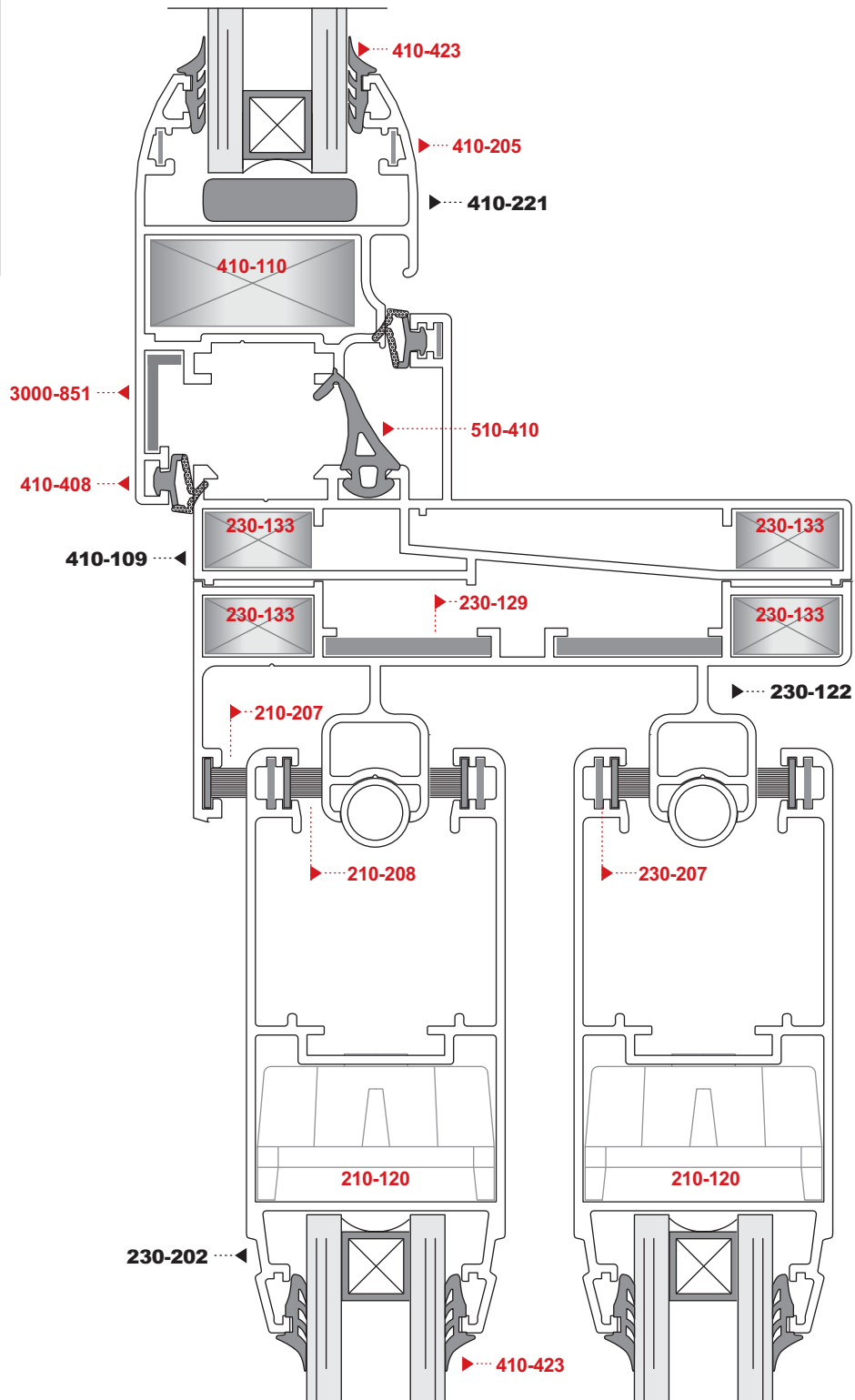
Scale 1:1
Echelle 1:1



SECTION OF OPENING DOOR WITH DOUBLE OVERLAPPING DORMER

SECTION VERTICALE DE PORTE OUVRANTE A CLAIRE-VOIE

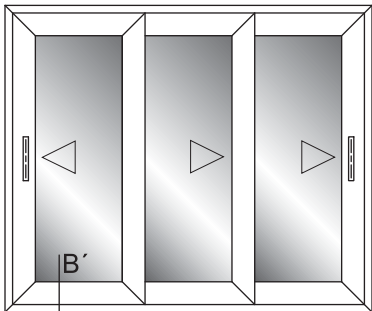
- ▶ ACCESSORIES
ACCESSOIRES
- ▶ PROFILES
PROFILÉS



SECTION B'

SECTIONS



ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

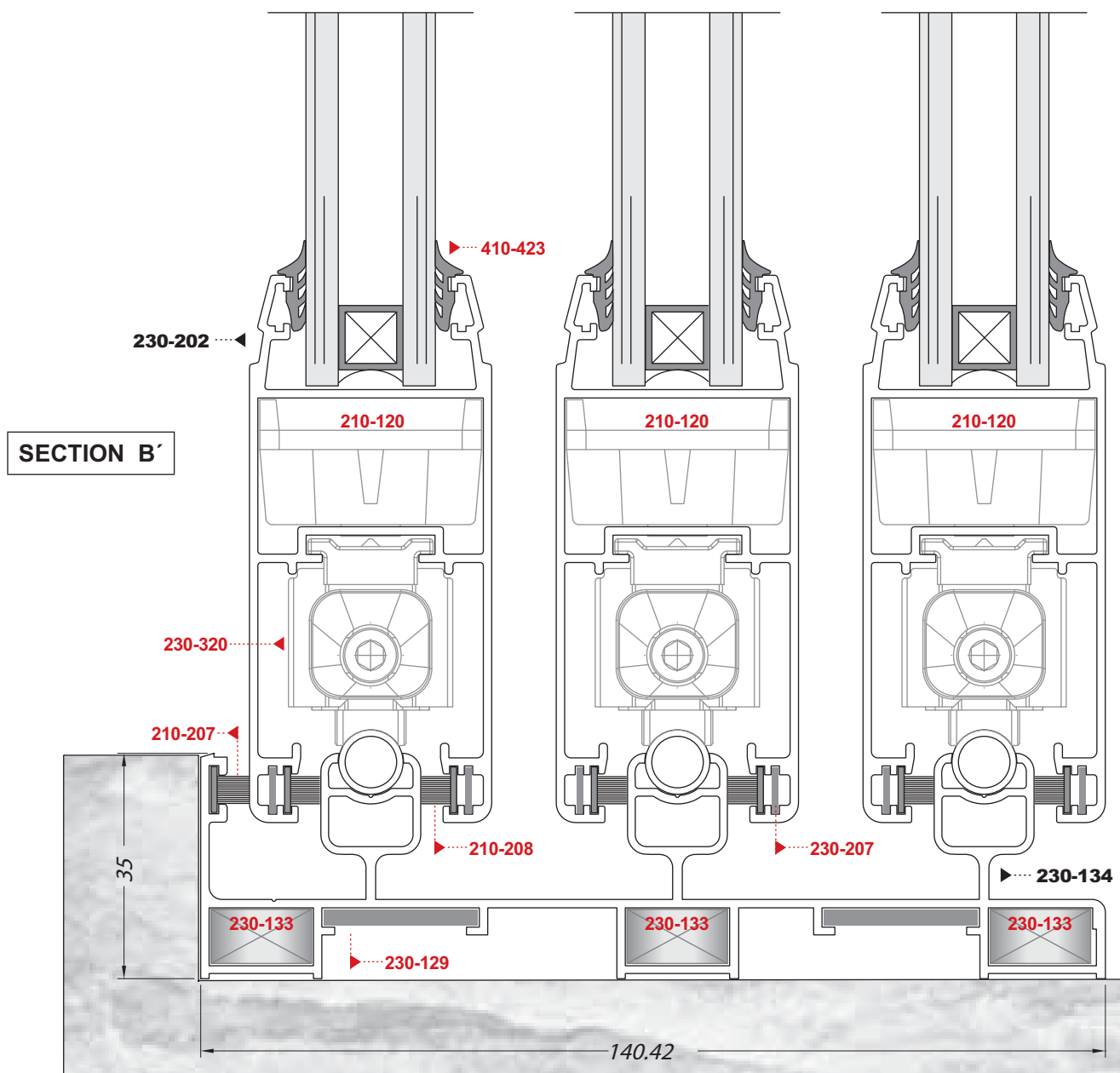


VERTICAL SECTIONS OF TRIPLE OVERLAPPING SASHES

Scale 1:1
Echelle 1:1

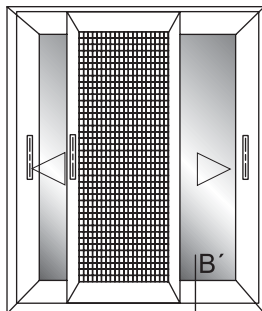
SECTION VERTICALE DE TRIPLE VANTAIL SUPERPOSE

-  ACCESSORIES
ACCESSOIRES
-  PROFILES
PROFILÉS



SECTIONS



ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

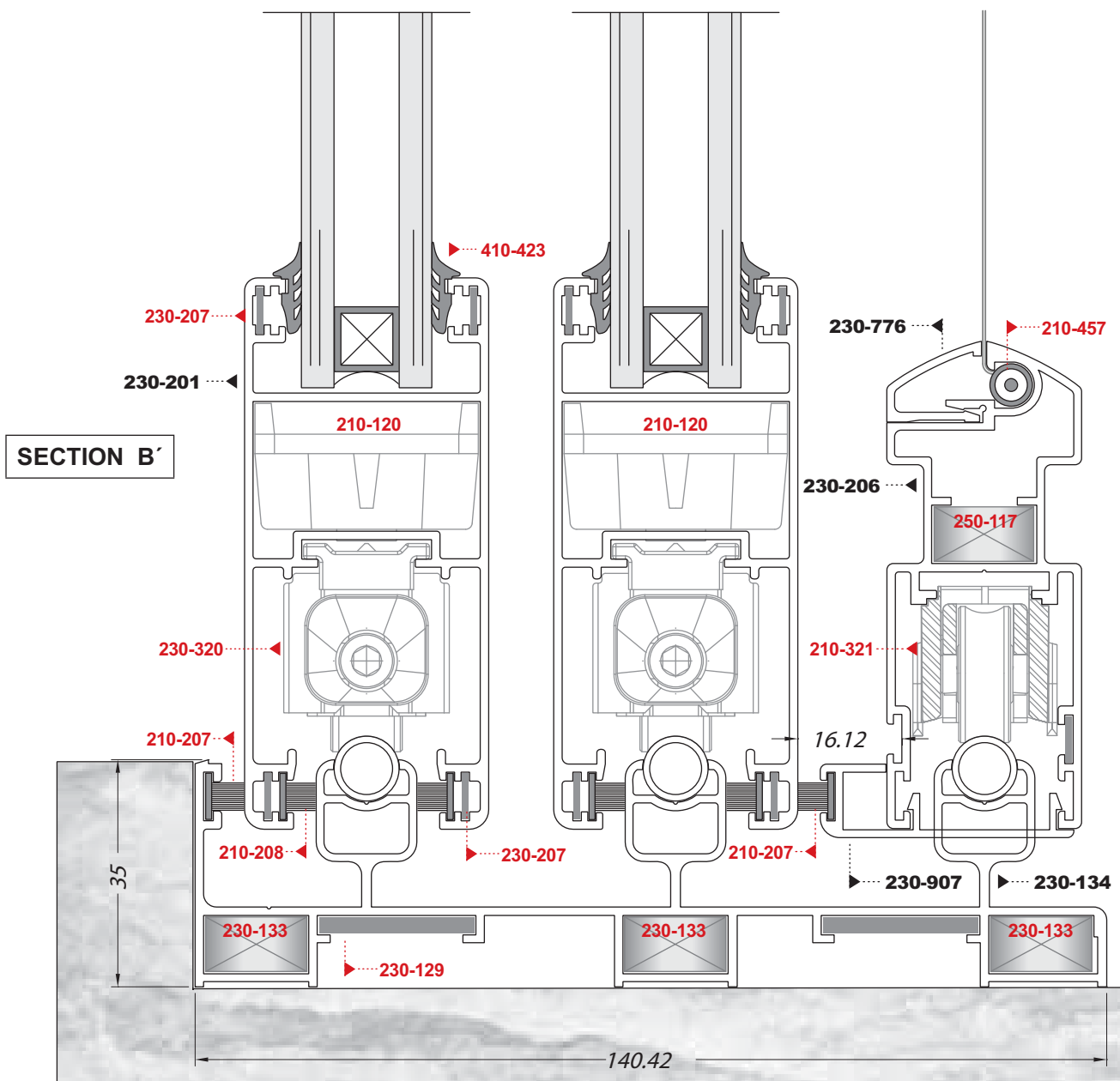


**VERTICAL SECTIONS OF
DOUBLE OVERLAPPING SASHES
WITH MOSQUITO SCREEN**

**SECTION VERTICALE DE VANTAIL
SUPERPOSE COULISSANT AVEC
MOUSTIQUAIRE**

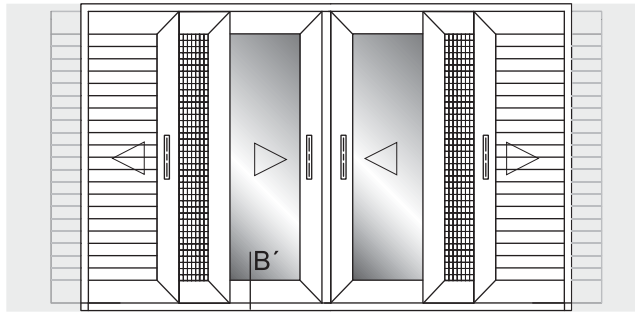
**Scale 1:1
Echelle 1:1**

-  ACCESSORIES
ACCESSOIRES
-  PROFILES
PROFILÉS



SECTIONS



ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

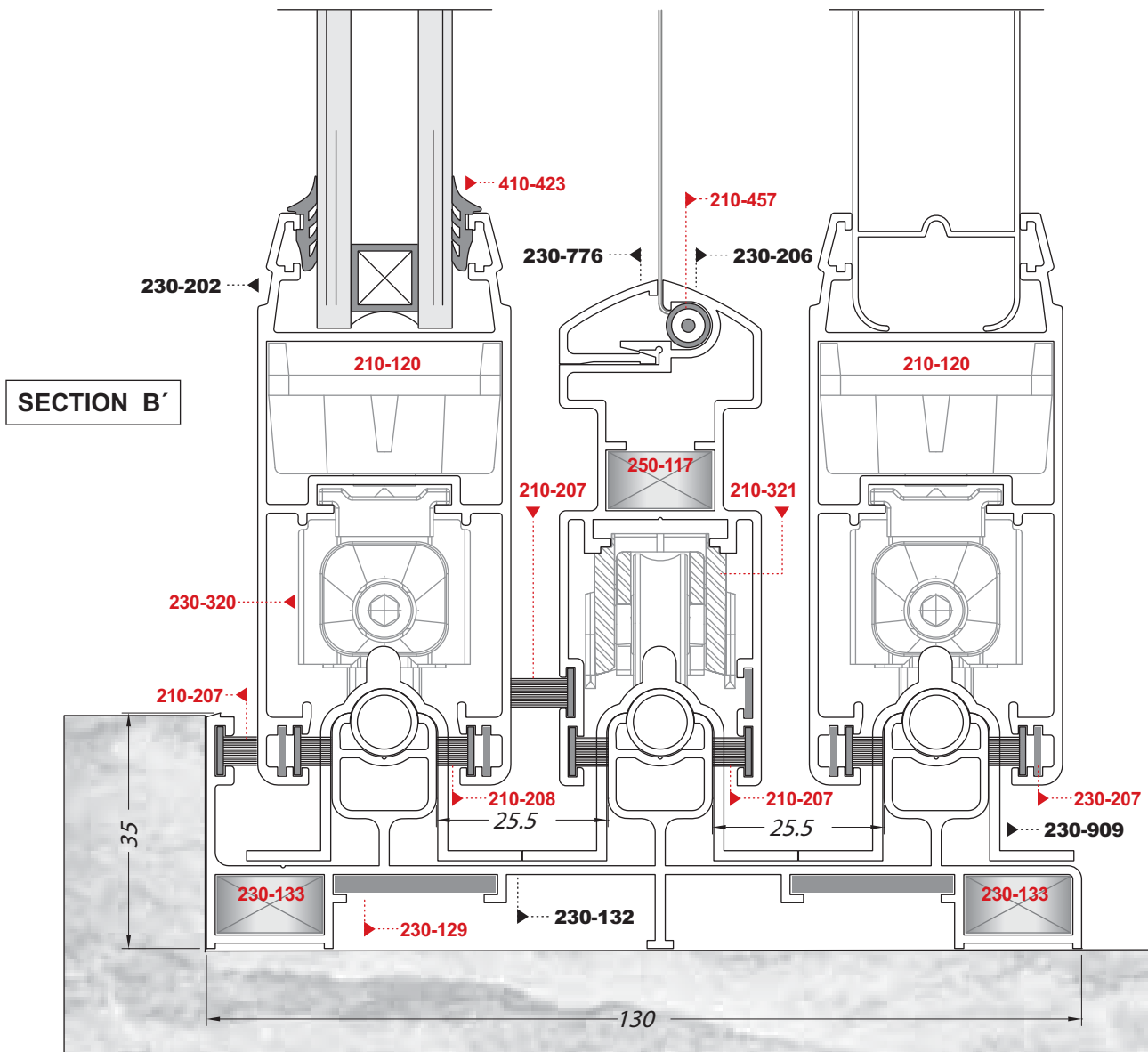


**VERTICAL SECTIONS OF DOUBLE
FLUSH-FITTED SASH WITH
MOSQUITO SCREEN & SHUTTER**

**Scale 1:1
Echelle 1:1**

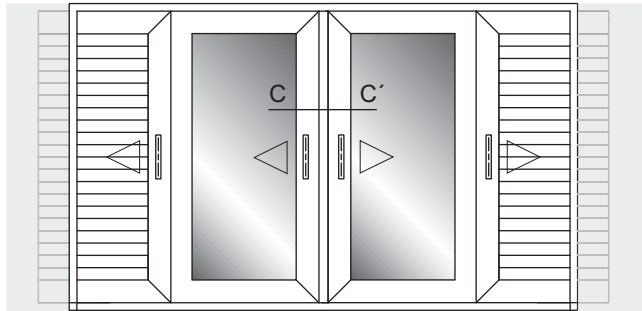
**SECTION VERTICALE DE VITRAGE-
MOUSTIQUAIRE-VOLE ENCASTRE**

-  ACCESSORIES
ACCESSOIRES
-  PROFILES
PROFILÉS



SECTIONS

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



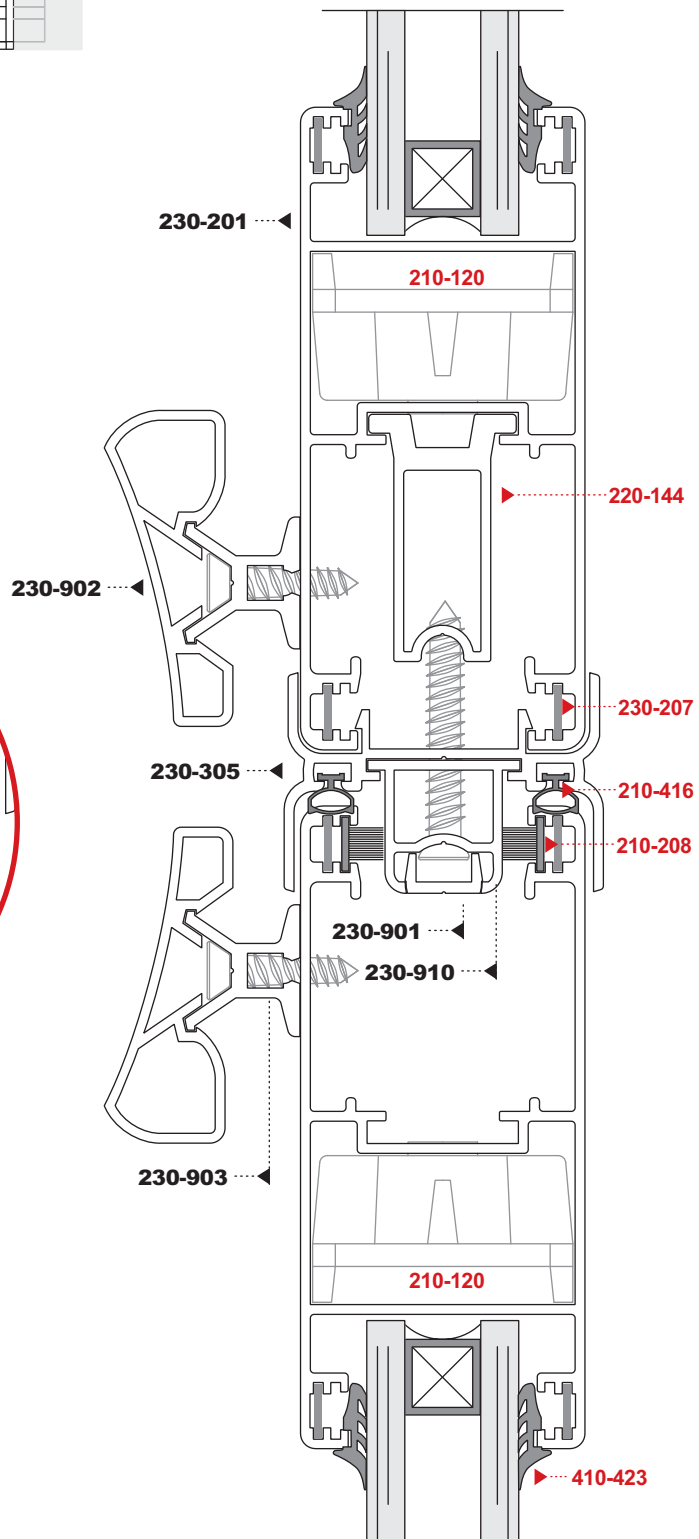
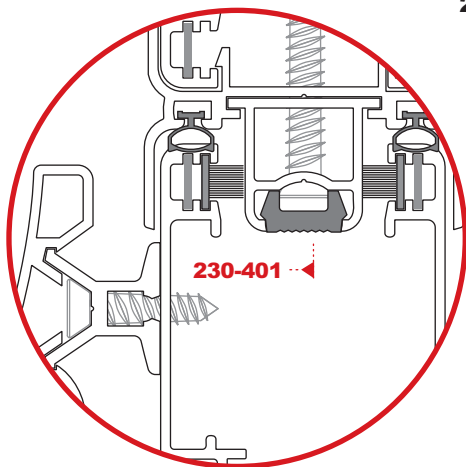
HORIZONTAL SECTIONS OF DOUBLE FLUSH-FITTED SASH WITH SHUTTER

Scale 1:1
Echelle 1:1

SECTION HORIZONTALE DE DOUBLE VITRAGE-VOLET ENCASTRE

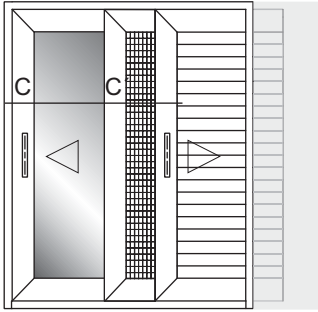
- ▶ ACCESSORIES
ACCESSOIRES
- ▶ PROFILES
PROFILÉS

SECTION C-C'



SECTIONS

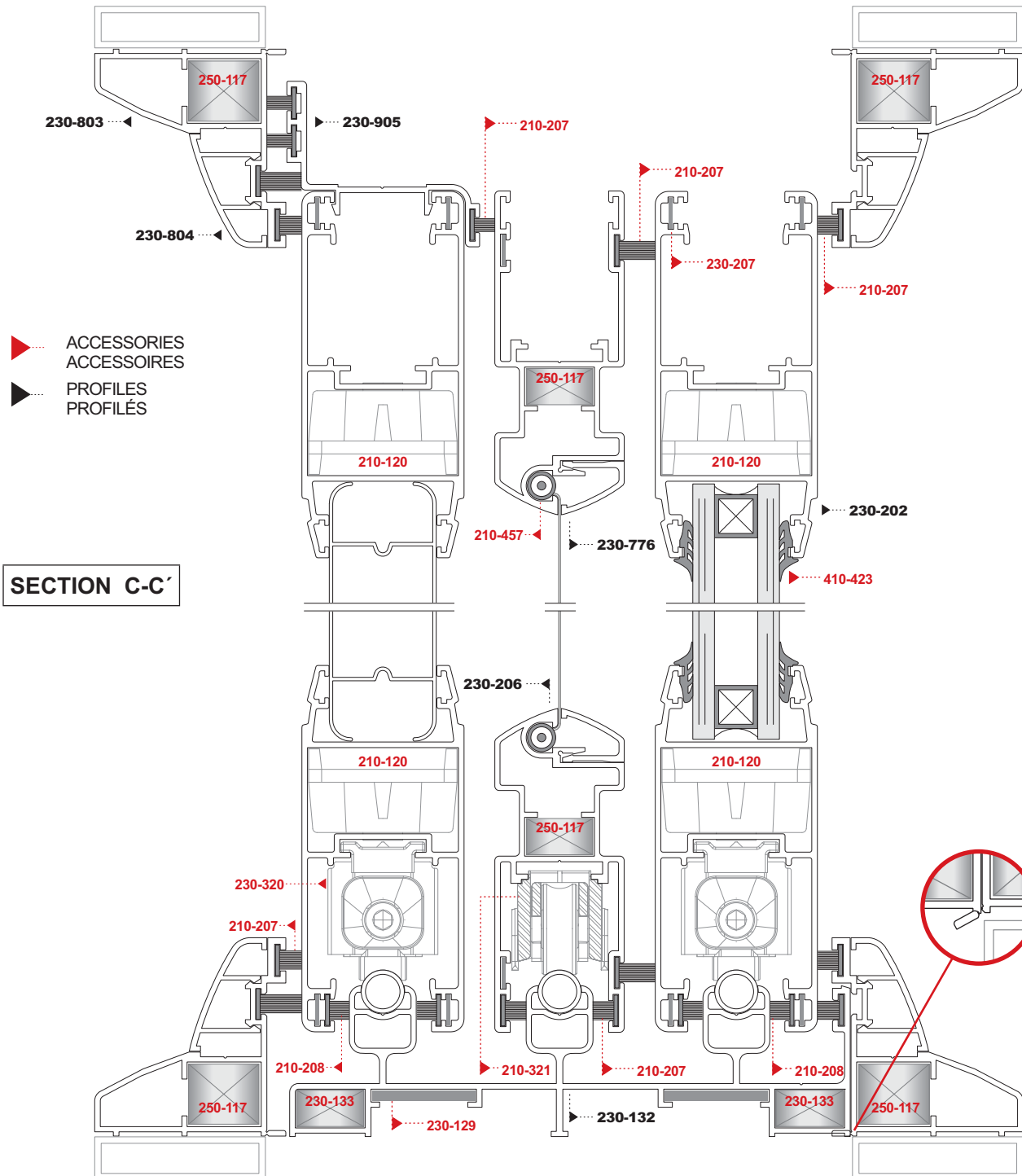
ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



HORIZONTAL SECTIONS OF SINGLE FLUSH-FITTED SASH WITH MOSQUITO SCREEN & SHUTTER

SECTION HORIZONTALE DE VITRAGE-MOUSTIQUE-A VOILET ENCASTRE

Scale 70%
Echelle 70%



ALUMINCO

A ALUMINIUM BUILDING SYSTEMS

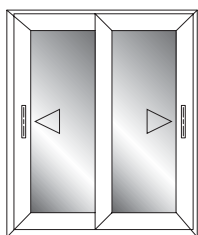
Sliding - Coulissants

AL 230

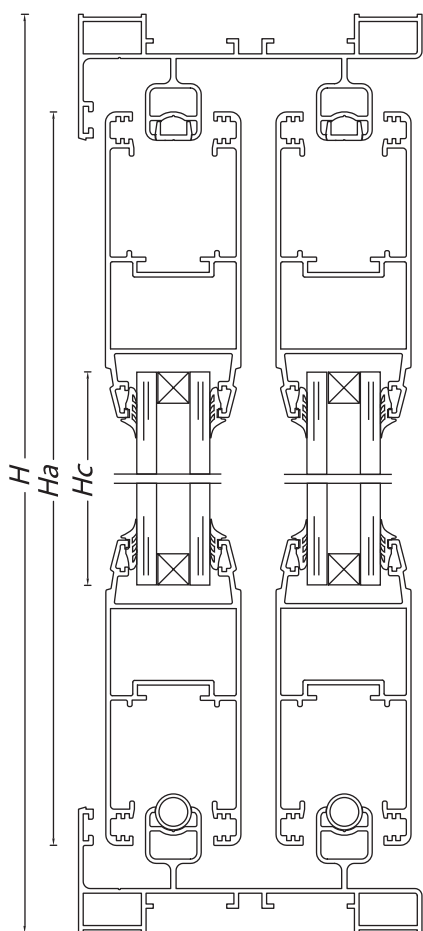
**CUTTING CALCULATIONS
CALCUL DE DECOUPAGE**

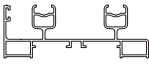


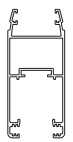





CUTTING CALCULATIONS - CALCUL DE DECOUPAGE

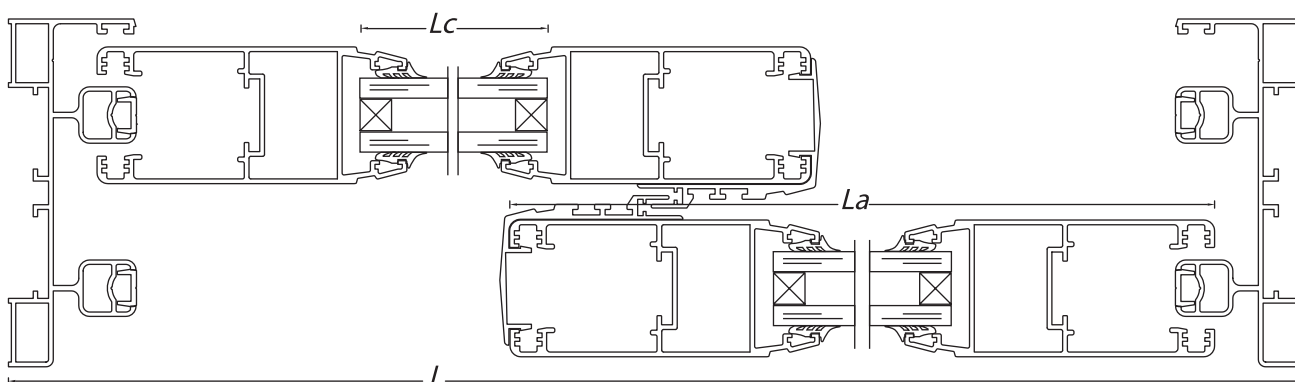
ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



DOUBLE OVERLAPPING SASHES SUPERPOSE COULISSANT



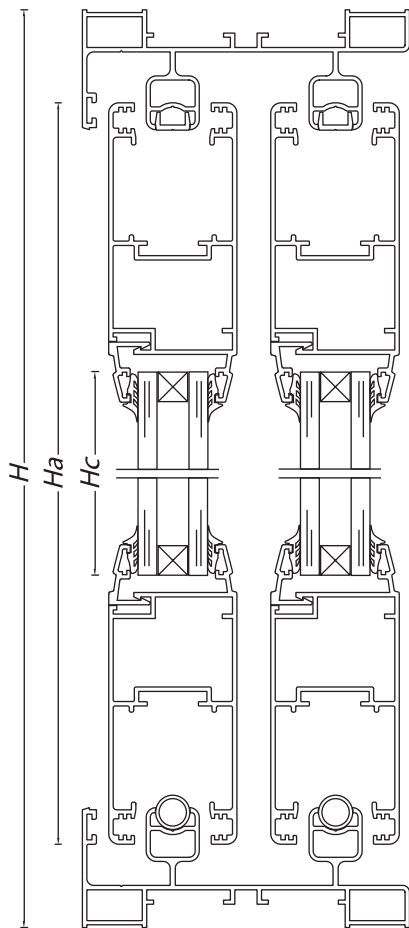
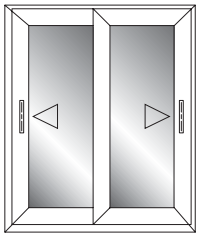
CODE	PROFILE PROFILÉ	HEIGHT (H) HAUTEUR (H)	WIDTH (L) LARGEUR (L)
230-122		 Pcs.=2	Pcs.=2 
230-202		Ha=H-52 Pcs.=4	La=(L+34)/2 Pcs.=4
230-300		He=Ha Pcs.=2	
ES210-801			Le=L-59 Pcs.=2 
230-901		Hk=H-70 Pcs.=4	Lk=L-70 Pcs.=2
GLASS VITRAGE		Hc=Ha-145	Lc=La-145



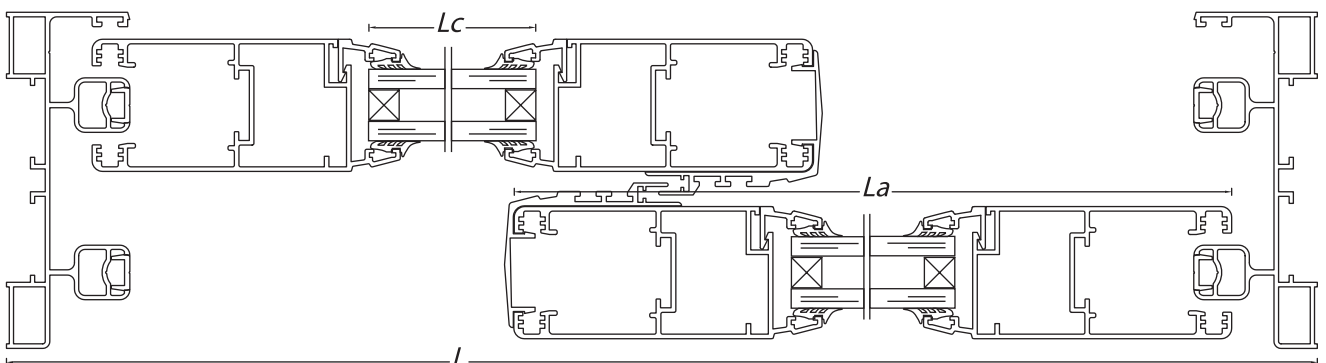
CUTTING CALCULATIONS - CALCUL DE DECOUPAGE

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

DOUBLE OVERLAPPING SASHES SUPERPOSE COULISSANT

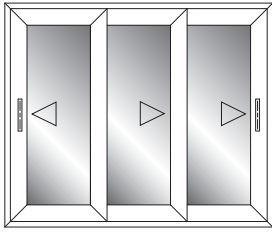


CODE	PROFILE PROFILÉ	HEIGHT (H) HAUTEUR (H)	WIDTH (L) LARGEUR (L)
230-122		 Pcs.=2	Pcs.=2
230-203		Ha= H-52 Pcs.=4	La=(L+36)/2 Pcs.=4
230-300		He=Ha Pcs.=2	
ES210-801			Le=L-59 Pcs.=2
230-901		Hk=H-70 Pcs.=4	Lk=L-70 Pcs.=2
GLASS VITRAGE	Pcs.=2 	Hc=Ha-157	Lc=La-157

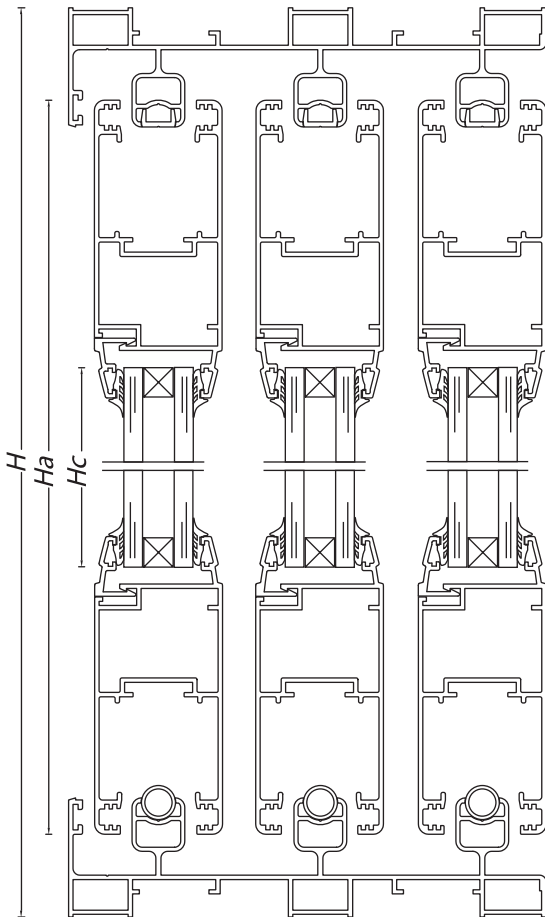


CUTTING CALCULATIONS - CALCUL DE DECOUPAGE

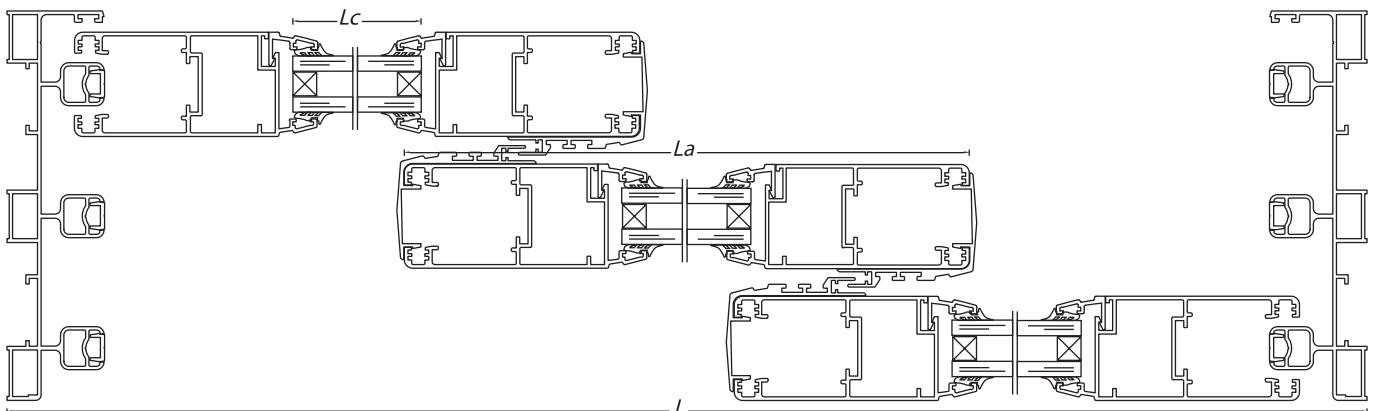
ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



TRIPLE OVERLAPPING SASHES TRIPLE VANTAIL SUPERPOSE

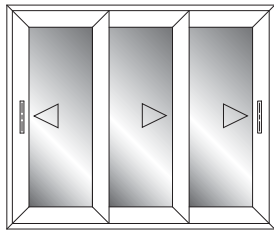


CODE	PROFILE PROFILÉ	HEIGHT (H) HAUTEUR (H)	WIDTH (L) LARGEUR (L)
230-134		 Pcs.=2	Pcs.=2
230-202		Ha=H-52 Pcs.=6	La=(L+116)/3 Pcs.=6
230-300		He=Ha Pcs.=4	
ES210-801			Le=L-59 Pcs.=3
230-901		Hk=H-70 Pcs.=6	Lk=L-70 Pcs.=3
GLASS VITRAGE		Hc=Ha-145	Lc=La-145

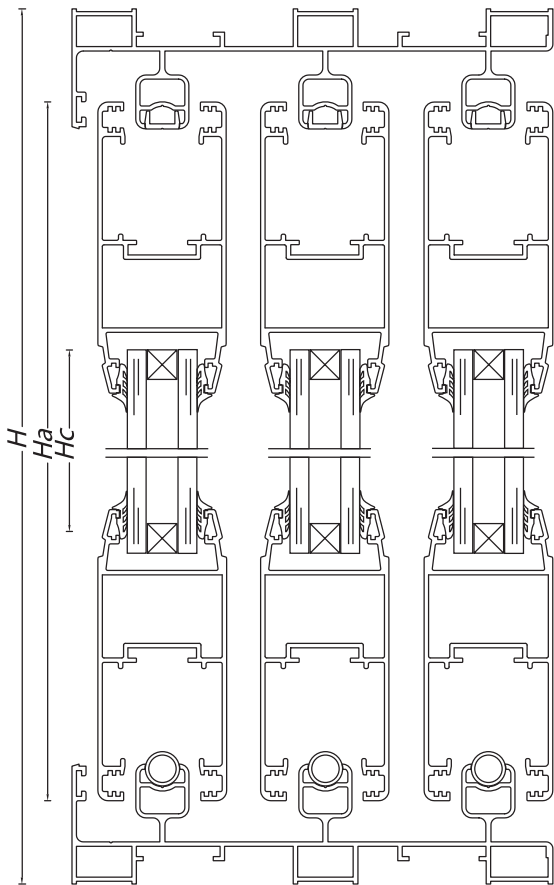


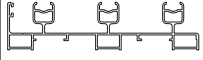

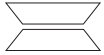
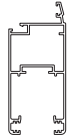





CUTTING CALCULATIONS - CALCUL DE DECOUPAGE

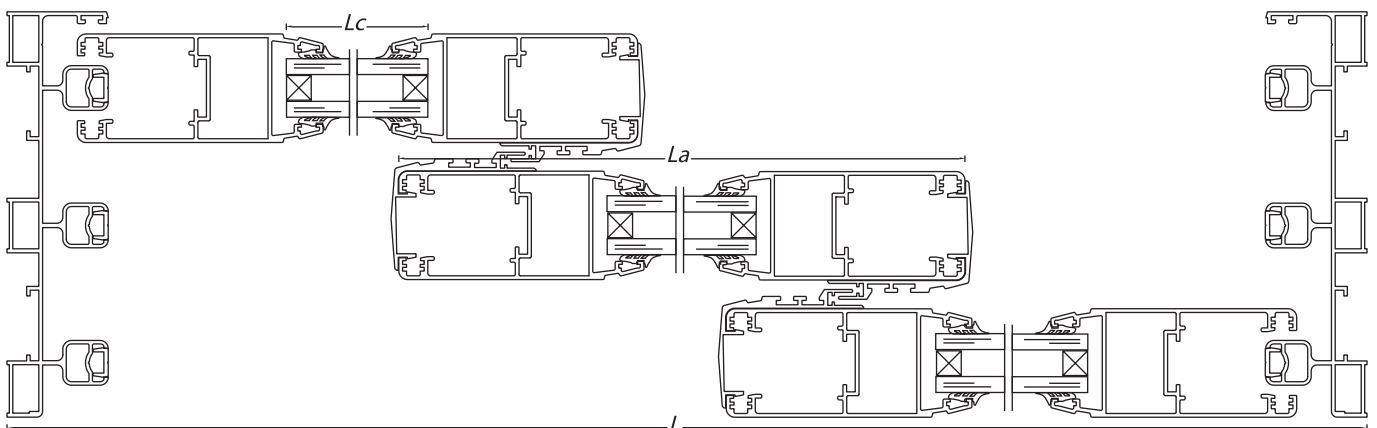
ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



TRIPLE OVERLAPPING SASHES TRIPLE VANTAIL SUPERPOSE

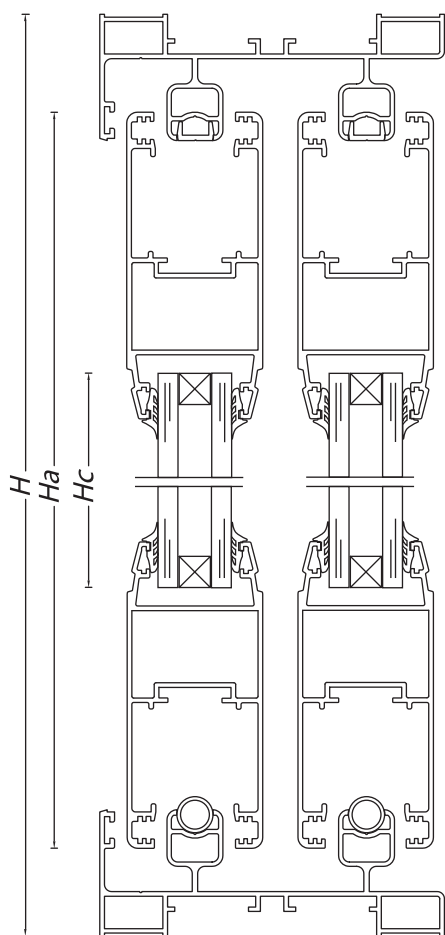
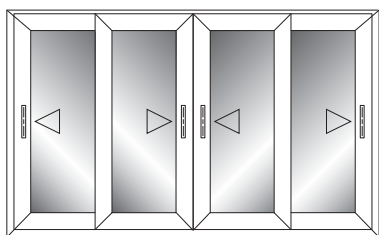


CODE	PROFILE PROFILÉ	HEIGHT (H) HAUTEUR (H)	WIDTH (L) LARGEUR (L)
230-134		 Pcs.=2	Pcs.=2 
230-203		Ha=H-52 Pcs.=6	La=(L+121)/3 Pcs.=6
230-300		He=Ha Pcs.=4	
ES210-801			Le=L-59 Pcs.=3 
230-901		Hk=H-70 Pcs.=6	Lk=L-70 Pcs.=3
GLASS VITRAGE		Hc=Ha-157	Lc=La-157



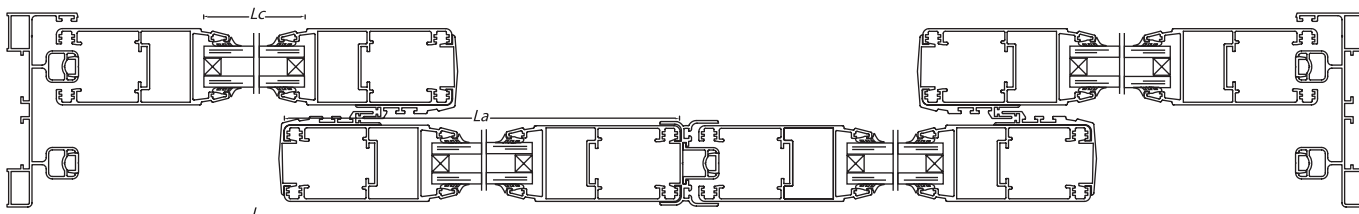
CUTTING CALCULATIONS - CALCUL DE DECOUPAGE

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



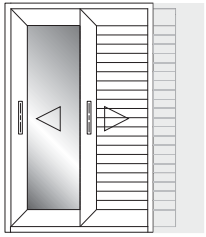
QUADRUPLE OVERLAPPING SASHES QUADRUPLE VANTAUX SUPERPOSE

CODE	PROFILE PROFILÉ	HEIGHT (H) HAUTEUR (H)	WIDTH (L) LARGEUR (L)
230-122		 Pcs.=2	Pcs.=2
230-202		Ha=H-52 Pcs.=8	La=(L+107)/4 Pcs.=8
230-300		He=Ha Pcs.=4	
230-305		Hb=Ha Pcs.=1	
230-910		Hm=Hb-71 Pcs.=1	
ES210-801			Le=L-59 Pcs.=2
230-901 (CENTRAL ADAPTER VANTAIL BATTANT)		Hk=Hm Pcs.=1	
230-901 (RAIL)		Hk=H-70 Pcs.=4	Lk=L-70 Pcs.=2
GLASS VITRAGE	Pcs.=4 	Hc=Ha-157	Lc=La-157

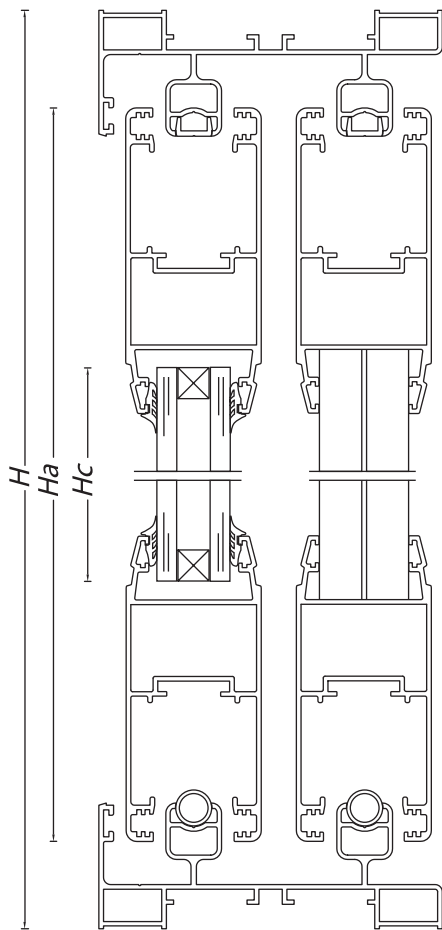


CUTTING CALCULATIONS - CALCUL DE DECOUPAGE

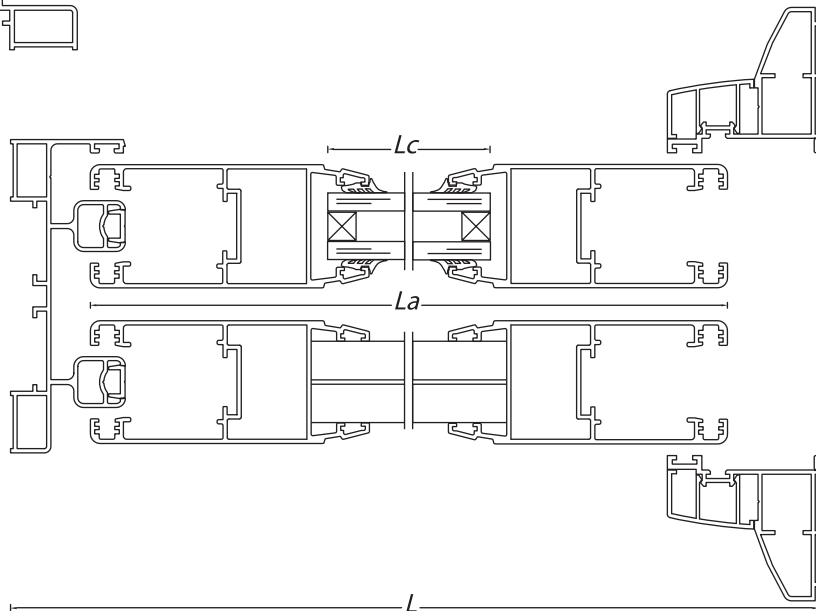
ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



FLUSH-FITTED SASH VANTAIL ENCASTRE



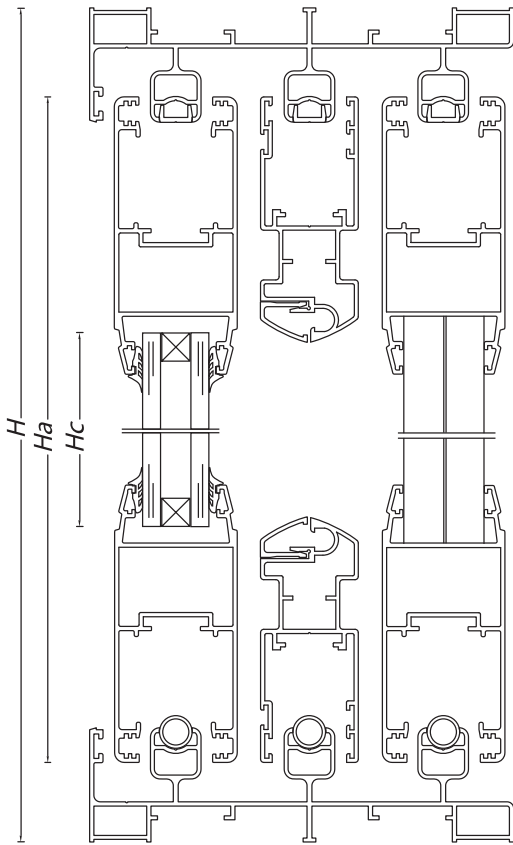
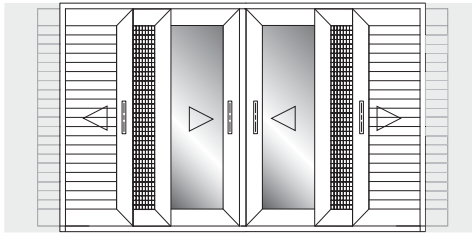
CODE	PROFILE PROFILÉ	HEIGHT (H) HAUTEUR (H)	WIDTH (L) LARGEUR (L)
230-122		Pcs.=1	L+300 Pcs.=1
230-122			Lx2 Pcs.=1
230-202		Ha=H-52 Pcs.=4	La=L-52 Pcs.=4
230-803		Hg=H Pcs.=2	
230-804		Hg=H Pcs.=2	
ES210-801			Le=L-30 Pcs.=2
230-901		Hk=H-70 Pcs.=2	Lk=L-35 Pcs.=2
GLASS VITRAGE		Hc=Ha-145	Lc=La-145



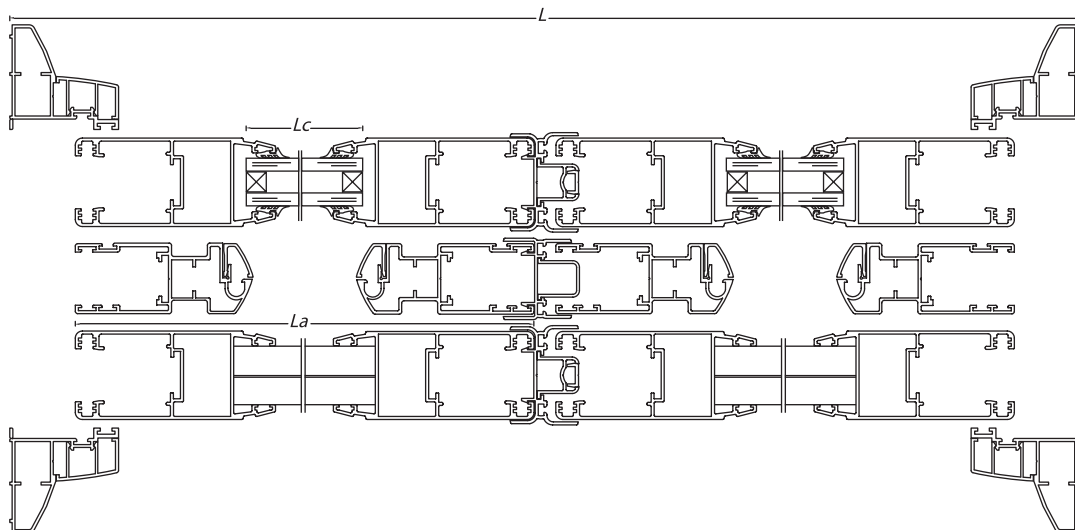
CUTTING CALCULATIONS - CALCUL DE DECOUPAGE

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

DOUBLE SASH (GLASS-MOSQ.SCREEN-SHUTTER) DOUBLE VANTAIL VITRAGE-MOUSTIQUE-VOILET



CODE	PROFILE PROFILÉ	HEIGHT (H) HAUTEUR (H)	WIDTH (L) LARGEUR (L)
230-132			L+600 Pcs.=1
230-132			Lx2 Pcs.=1
230-202		Ha=H-52 Pcs.=8	La=(L-65)/2 Pcs.= 8
230-206		Hs=H-52 Pcs.=4	La=(L-65)/2 Pcs.=4
230-305		Hb=Ha Pcs.=2	
230-306		Hk=Hs	
230-910		Hm=Hb-71	
230-911		Hf=Hk-44	
230-803		Hg=H Pcs.=4	
230-804		Hg=H Pcs. =4	
ES210-801			Le=L Pcs.=3
230-901 (CENTRAL ADAPTER VANTAIL BATTANT)		Hk=Hm Pcs.=2	
230-901 (RAIL)			Lk=L Pcs.=3
GLASS VITRAGE		Pcs.=2 Hc=Ha-145	Lc=La-145



ALUMINCO

A ALUMINIUM BUILDING SYSTEMS

Sliding - Coulissants

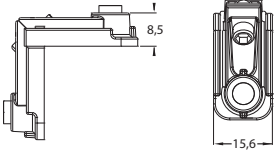
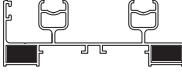
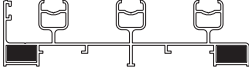
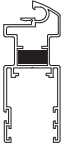

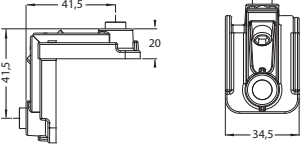
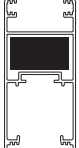
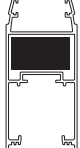
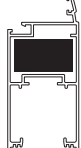
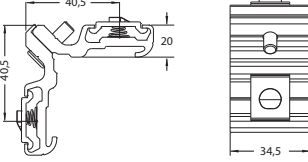
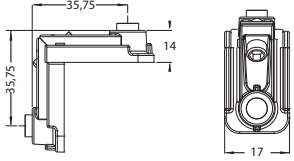

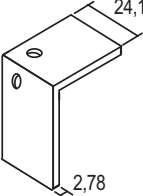


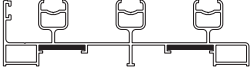
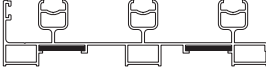
AL 230

ACCESSORIES
ACCESSOIRES

ACCESSORIES - ACCESSOIRES

CORNERS - JOINTS

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

<p>CODE: ES 230-133X</p>	<p>DESCRIPTION: CORNER JOINT (8,5x15,6mm) ANGLE DE JOINT (8,5x15,6mm)</p>		
	 <p>230-122</p>	 <p>230-132</p>	 <p>230-206</p>
<p>PACKAGE/EMBALLAGE: 250 Pcs.</p>	 <p>230-134</p>		
<p>CODE: ES 210-120X</p>	<p>DESCRIPTION: CORNER JOINT (34,5x20mm) ANGLE DE JOINT (34,5x20 mm)</p>		
	 <p>230-201</p>	 <p>230-202</p>	 <p>230-203</p>
<p>PACKAGE/EMBALLAGE: 250 Pcs.</p>			
<p>CODE: ES 210-120U</p>			
	<p>PACKAGE/EMBALLAGE: 50 Pcs.</p>		
<p>CODE: ES 250-117X</p>	<p>DESCRIPTION: CORNER JOINT DYNAMIC (14x17mm) ANGLE DE JOINT (14x17 mm)</p>		
	 <p>230-803</p>		
<p>PACKAGE/EMBALLAGE: 250 Pcs.</p>			
<p>CODE: ES 230-129U</p>	<p>DESCRIPTION: CORNER JOINT FOR RAILS (2,78x24,1mm) ANGLE DE JOINT DE RAILS (2,78x24,1 mm)</p>		
 <p>PROFILE CODE 49-007 PROFILÉ CODE 49-007</p>	 <p>230-112</p>	 <p>230-122</p>	
<p>PACKAGE/EMBALLAGE: 200 Pcs.</p>	 <p>230-132</p>	 <p>230-134</p>	

ACCESSORIES - ACCESSOIRES

GASKETS / ROLLERS - PROFILÉS / MOLETTES

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

	<p>CODE: ES 210-457</p>	<p>DESCRIPTION: GASKET FOR MOSQUITO SCREEN PROFILÉ DE MOUSTIQUAIRE</p> <p>PACKAGE/EMBALLAGE: 175 m</p>
	<p>CODE: ES 230-417M</p>	<p>DESCRIPTION: GASKET FOR 230-300 PROFILÉ DE CROCHET 230-300</p> <p>PACKAGE/EMBALLAGE: 400 m</p>
	<p>CODE: ES 230-401M</p>	<p>DESCRIPTION: GASKET FOR RAILS & 230-910 PROFILE PROFILÉ DE RAIL A BATTANT (VANTAIL)</p> <p>PACKAGE/EMBALLAGE: 100 m</p>
	<p>CODE: EA 410-422 2mm EA 410-423 3,5mm EA 410-425 5mm EA 410-427 7mm</p>	<p>DESCRIPTION: GLAZING GASKET PROFILÉ DE VITRAGE</p>
<p>Ø22</p> 	<p>CODE: ES 210-310P</p>	<p>DESCRIPTION: ROLLER FOR PROFILE 230-206 (SINGLE) MOLETTE POUR PROFIL 230-206 (SIMPLE)</p> <p>PACKAGE/EMBALLAGE: 100 Pcs.</p>
<p>Ø22</p> 	<p>CODE: ES 210-320P</p>	<p>DESCRIPTION: ROLLER FOR PROFILE 230-206 (DOUBLE) MOLETTE POUR PROFIL 230-206 (DOUBLE)</p> <p>PACKAGE/EMBALLAGE: 100 Pcs.</p>
<p>Ø27</p> 	<p>CODE: ES 230-310</p>	<p>DESCRIPTION: ROLLER FOR SASH (SINGLE) MOLETTE POUR VANTAIL (SIMPLE)</p> <p>PACKAGE/EMBALLAGE: 100 Pcs.</p>
<p>Ø27</p> 	<p>CODE: ES 230-320</p>	<p>DESCRIPTION: ROLLER FOR SASH (DOUBLE) MOLETTE POUR VANTAIL (DOUBLE)</p> <p>PACKAGE/EMBALLAGE: 100 Pcs.</p>

VARIOUS ACCESSORIES - ACCESSOIRES VARIÉS

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

	<p>CODE: ES 210-207 (No7) 7mm ES 210-208 (No8) 8mm ES 210-212 (No12) 12mm</p>	<p>DESCRIPTION: BRUSHES BROSSE D'ETANCHEITE</p>
	<p>CODE: ES 230-207P</p>	<p>DESCRIPTION: ALIGNMENT ANGLE 7,3x2,8mm PLASTIC ANGLE DE PLANEITE 7,3x2,8 mm PLASTIQUE</p> <p>PACKAGE/EMBALLAGE: 5000 Pcs.</p>
	<p>CODE: ES 230-939(12mm)</p>	<p>DESCRIPTION: STOPPER FOR MOSQUITO SCREEN BOUCHON D'ETANCHEITE</p> <p>PACKAGE/EMBALLAGE: 600 Pcs.</p>
	<p>CODE: ES 230-940(18mm)</p>	<p>DESCRIPTION: SASH STOPPER FOR 230-927 BOUCHON A SUSPENSION DE VANTAIL 230-927</p> <p>PACKAGE/EMBALLAGE: 400 Pcs.</p>
	<p>CODE: ES 230-941(25mm)</p>	<p>DESCRIPTION: SASH STOPPER FOR 230-928 BOUCHON A SUSPENSION DE VANTAIL 230-928</p> <p>PACKAGE/EMBALLAGE: 200 Pcs.</p>
	<p>CODE: ES 220-144U</p>	<p>DESCRIPTION: ADDITIONAL PROFILE SEMELLE</p> <p>PACKAGE/EMBALLAGE: 200 Pcs.</p>
	<p>CODE: EA 410-846M</p>	<p>DESCRIPTION: SPACER FOR 245-013 PROFILE ENTRETOISE DE PERSIENNE 245-013</p> <p>PACKAGE/EMBALLAGE: 1000 Pcs.</p>

VARIOUS ACCESSORIES - ACCESSOIRES VARIES

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

	<p>CODE: ES 230-916M</p>	<p>DESCRIPTION: CENTRAL WEATHERPROOF FOR OVERLAPPING CALE D'ETANCHEITE DE VANTAUX SUPER-POSES 45,8mm</p> <p>PACKAGE/EMBALLAGE: 200 Pcs.</p>
	<p>CODE: ES 230-927M</p>	<p>DESCRIPTION: PLASTIC STOPPER FOR SASHES & MOSQUITO SCREEN AMORTISSEUR POUR VANTAIL & MOUSTIQUAIRE</p> <p>PACKAGE/EMBALLAGE: 200 Pcs.</p>
	<p>CODE: ES 230-928M</p>	<p>DESCRIPTION: AJUSTABLE PLASTIC STOPPER FOR SASHES AMORTISSEUR REGLABLE DE VANTAIL</p> <p>PACKAGE/EMBALLAGE: 250 Pcs.</p>
	<p>CODE: ES 230-843M</p>	<p>DESCRIPTION: END COVER FOR 230-300 BOUCHON DE CROCHET</p> <p>PACKAGE/EMBALLAGE: 300 Pairs</p>
	<p>CODE: ES 230-873M</p>	<p>DESCRIPTION: END COVER FOR 230-305 BOUCHON POUR VANTAIL A BATTANT</p> <p>PACKAGE/EMBALLAGE: 300 Pairs</p>
	<p>CODE: ES 230-874M</p>	<p>DESCRIPTION: END COVER FOR 230-306 BOUCHON POUR MOUSTIQUAIRE A BATTANT</p> <p>PACKAGE/EMBALLAGE: 300 Pairs</p>
	<p>CODE: ES 230-844M</p>	<p>DESCRIPTION: END COVER 230-903 BOUCHON DE POIGNEE 230-903</p> <p>PACKAGE/EMBALLAGE: 500 Pairs</p>

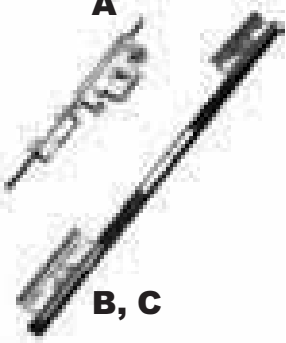
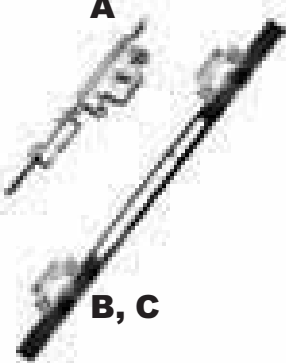
VARIOUS ACCESSORIES - ACCESSOIRES VARIÉS

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

	<p>CODE: ES 230-845M</p>	<p>DESCRIPTION: END COVER 230-905/907 BOUCHON DE PROFIL 230-905/907</p> <p>PACKAGE/EMBALLAGE: 1500 Pcs.</p>
	<p>CODE: ES 210-721</p>	<p>DESCRIPTION: SLIDING DOOR LOCK SERRURE ENCASTREE POUR VANTAIL COULISSANT</p> <p>PACKAGE/EMBALLAGE: 50 Pcs.</p>
	<p>CODE: ES 210-711</p>	<p>DESCRIPTION: SLIDING DOOR LOCK WITH HANDLE SERRURE DE POIGNEE PIVOTANTE POUR VANTAIL COULISSANT</p> <p>PACKAGE/EMBALLAGE: 50 Pcs.</p>
	<p>CODE: ES 210-730</p>	<p>DESCRIPTION: SLIDING DOOR LOCK POIGNEE POUR VANTAIL COULISSANT</p> <p>PACKAGE/EMBALLAGE: 50 Pcs.</p>
	<p>CODE: ES 230-530</p>	<p>DESCRIPTION: SPARTA HANDLE SINGLE POIGNEE SPARTA SIMPLE</p> <p>PACKAGE/EMBALLAGE: 10 Pcs.</p>
	<p>CODE: ES 230-502K</p>	<p>DESCRIPTION: 2 LOCKS KIT FOR LOCK 210-711 KIT A 2 POINTS POUR SERRURE 210-711</p> <p>PACKAGE/EMBALLAGE: 50 Pcs.</p>

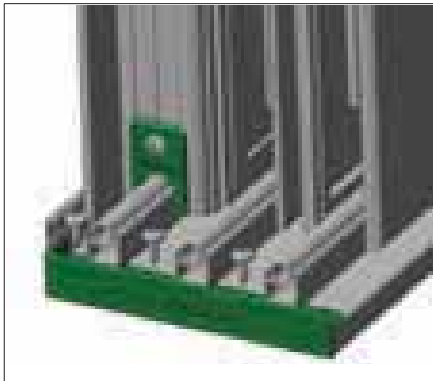
VARIOUS ACCESSORIES - ACCESSOIRES VARIÉS

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

 <p>A</p> <p>B, C</p>	<p>CODE: A) ES 230-742U B) ES 230-754U C) ES 230-756U</p>	<p>DESCRIPTION: A) LOCK MECHANISM FOR SLIDING B) 4 LOCKS ROD FOR SASH C) 6 LOCKS ROD FOR SASH A) MECANISME CARRE POUR VANTAUX COULISSANTS B) TIGE A 4 POINTS 230 POUR VANTAIL C) TIGE A 6 POINTS 230 POUR VANTAIL</p> <p>PACKAGE/EMBALLAGE: 1 Pcs.</p>
 <p>A</p> <p>B, C</p>	<p>CODE: A) ES 230-742U B) ES 230-752I C) ES 230-753I</p>	<p>DESCRIPTION: A) LOCK MECHANISM FOR SLIDING B) 2 LOCKS INOX ROD FOR SASH C) 3 LOCKS INOX ROD FOR SASH A) MECANISME CARRE POUR VANTAUX COULISSANTS B) TIGE A 2 POINTS 230 POUR VANTAIL C) TIGE A 3 POINTS 230 POUR VANTAIL</p> <p>PACKAGE/EMBALLAGE: 1 Pcs.</p>

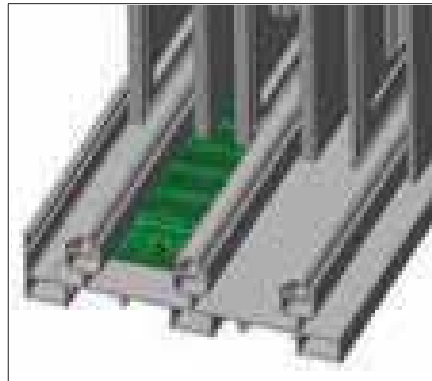
THREE DIMENSIONAL APPLICATION OF ACCESSORIES APPLICATIONS DES ACCESSOIRES EN TROIS DIMENSIONS

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

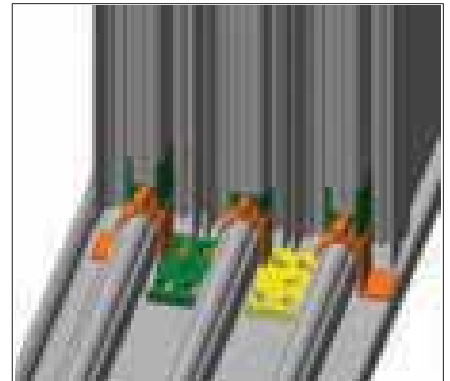


1. Sealing method for triple flush fitted guide.
Etanchéité de triple rail encastré.

CODE: **ES 230-848M**

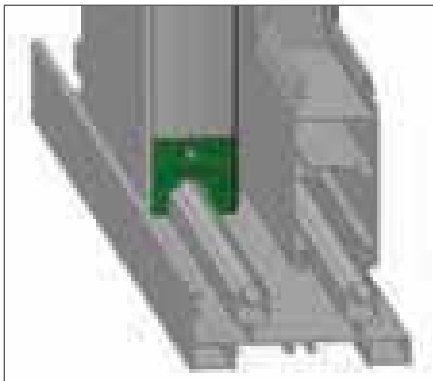


2. Elastic waterproof barrier.
Cale élastique d'étanchéité.

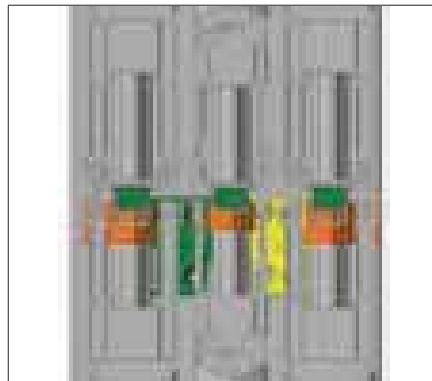


3. Stop for flush fitted with alignment covers - decorative.
Arrêt encastré aux bouchons de centrage - décoration.

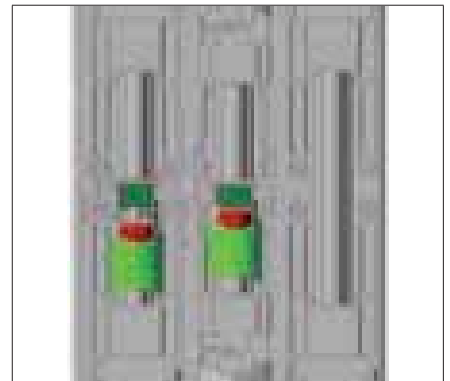
CODE: **ES 230-849M**



4. Hook cover.
Bouchon de crochet.



5. Cross-section, combination of stop and internal rebate cover.
Profil de la combinaison entre l'arrêt et le bouchon intérieur battant.



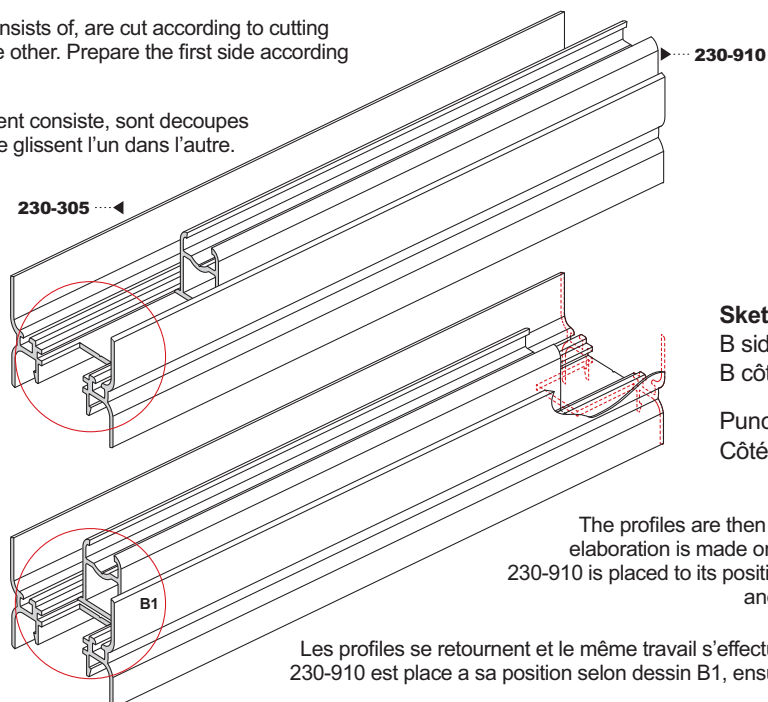
6. Cross-section of suspension
Profil de l'application d'amortisseur.

MANTLING INSTRUCTIONS FOR REBATE 230 / MODE DE MONTAGE DU REBATE 230

The two profiles of which the rebate consists of, are cut according to cutting dimensions, and are slid one into the other. Prepare the first side according to sketch 1.

Les 2 profils dont le profil de battement consiste, sont découpés selon les dimensions souhaitées et ils se glissent l'un dans l'autre. Préparez un côté selon dessin 1.

Sketch/Dessin 1
A side
A côté
Punch machine side
Côté de presse



Sketch/Dessin 2
B side
B côté

Punch machine side
Côté de presse

The profiles are then turned over and the same elaboration is made on the opposite side. Profile 230-910 is placed to its position according to sketch B1 and then the cover is placed.

Les profils se retournent et le même travail s'effectue à l'autre côté. Le profil 230-910 est placé à sa position selon dessin B1, ensuite le couvercle est placé.

ALUMINCO

A ALUMINIUM BUILDING SYSTEMS

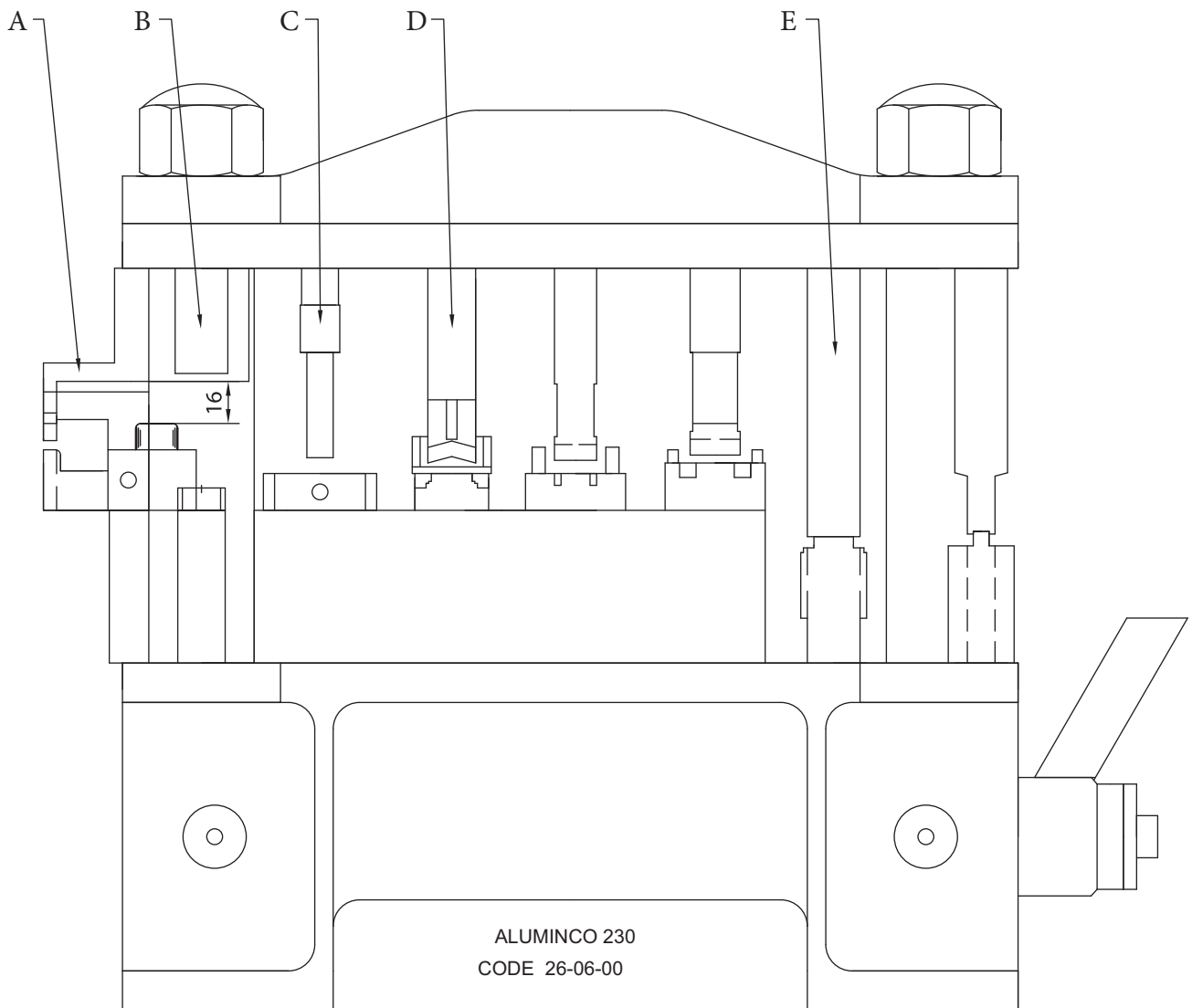
Sliding - Coulissants

AL 230

**SYSTEM TOOLS
& COMPOSITION MATERIALS
OUTILS DE SYSTEME
& MATERIAUX DE COMPOSITION**

MANUAL PUNCH MACHINE FOR SLIDINGS PRESSE A DECOUPAGE POUR COULISSANTS

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

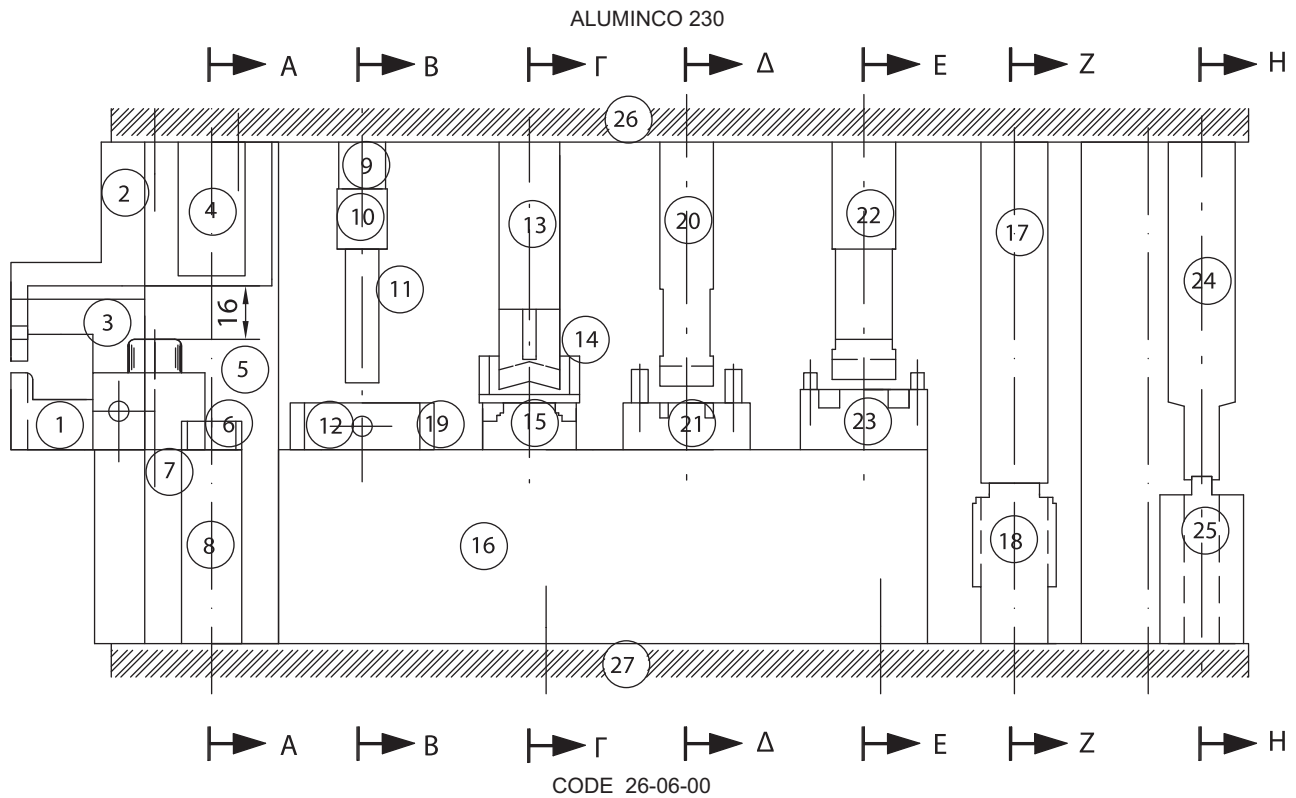


EA 010-10PSD

A. PUNCH OUT FOR DRAINAGE	DECOUPEUR POUR DRAINAGE
B. PERFORATION FOR JOINT CORNER OF RAIL	PERFORATION DE L'ANGLE DE JOINT POUR RAILS
C. PERFORATION FOR JOINT CORNER OF SASH	PERFORATION D'ANGLE DE JOINT POUR VANTAIL
D. PERFORATION FOR CENTRAL ADAPTER	DECOUPEUR POUR LA PERFORATION DU SYSTEME BATTANT
E. PERFORATION FOR MECHANISM ON SASHES	BROCHAGE DES CLIQUETS DE VANTAIL

MANUAL PUNCH MACHINE FOR SLIDINGS PRESSE A DECOUPAGE POUR COULISSANTS

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



Nr.	CODE	DESCRIPTION	DESCRIPTION
1=3	26.06.01	PUNCH OUT FOR DRAINAGE (BOTTOM)	DECOUPEUR POUR DRAINAGE (BAS)
2	26.06.02	PUNCH OUT FOR DRAINAGE (UP)	DECOUPEUR POUR DRAINAGE (HAUT)
4=5	26.06.04	PERFORATION FOR JOINT CORNER (UP)	PERFORATION D'ANGLE DE JOINT (HAUT)
6	26.06.06	PERFORATION FOR JOINT CORNER (BOTTOM)	PERFORATION D'ANGLE DE JOINT (BAS)
7	26.06.07	SPACER FOR PUNCH OUT EXTRACTOR	FOURCHE – ENTRETOISE
8	26.06.08	PERFORATION SUPPORT	CALE D'APPUI DE PERFORATION
9	26.06.09	ADDITIONAL PERFORATION FOR JOINT CORNER (UP)	CALE POUR PERFORATION D'ANGLE DE JOINT (HAUT)
10=11	26.06.10	PERFORATION FOR JOINT CORNER (UP)	PERFORATION D'ANGLE DE JOINT (HAUT)
12	26.06.12	PERFORATION FOR JOINT CORNER (BOTTOM)	PERFORATION D'ANGLE DE JOINT (BAS)
13	26.06.13	PUNCH OUT FOR HOOK COVER (UP)	DECOUPEUR POUR BOUCHON DE CROCHET (HAUT)
14	26.06.14	PUNCH OUT EXTRACTOR FOR HOOK COVER	ARRACHEUR DU DECOUPEUR POUR LE BOUCHON DE CROCHET
15	26.06.15	PUNCH OUT FOR HOOK COVER (BOTTOM)	DECOUPEUR POUR LE BOUCHON DE CROCHET (BAS)
16	26.06.16	PERFORATION SUPPORT FOR ACCESSORIES	CALE POUR LES DECOUPEURS (GRANDE)
17	26.06.17	LARGE PERFORATION FOR MECHANISM (UP)	DECOUPER POUR CLIQUET (HAUT) LARGE
18	26.06.18	LARGE PERFORATION FOR MECHANISM (BOTTOM)	DECOUPER POUR CLIQUET (BAS) LARGE
19	26.06.19	PERFORATION SUPPORT	FOURCHE – ENTRETOISE
20	26.06.20	MILING REBATE (UP)	BROCHAGE POUR SYSTEME BATTANT (HAUT)
21	26.06.21	MILING REBATE (BOTTOM)	BROCHAGE POUR SYSTEME BATTANT (BAS)
22	26.06.22	MILING REBATE (UP)	BROCHAGE POUR SYSTEME BATTANT (HAUT)
23	26.06.23	MILING REBATE (BOTTOM)	BROCHAGE POUR SYSTEME BATTANT (BAS)
24	26.06.24	SMALL PERFORATION FOR MECHANISM (UP)	DECOUPEUR POUR CLIQUET (HAUT) ETROIT
25	26.06.25	SMALL PERFORATION FOR MECHANISM (BOTTOM)	DECOUPEUR POUR CLIQUET (BAS) ETROIT
26	26.06.26	PUNCHING DEVICE COVER	COUVERCLE DE PRESSE
27	26.06.27	PUNCHING DEVICE BODY	CORPS DE PRESSE

INSTRUCTIONS FOR CONSTRUCTION - MAINTENANCE

INSTRUCTIONS POUR LA CONSTRUCTION - MAINTENANCE

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

INSTRUCTIONS FOR THE CONSTRUCTION OF PANELS

1. The manufacturer must know exactly the whole range of profiles, as well as their capacities.
2. He must be able to give solutions and recommend the proper construction for each case.
3. He must make and install the proper false frame, depending on the frame type.
4. He must always measure the air between the false frame and the frame, 2,5 - 3 mm at each side, (taking into consideration the circumferential thermal rubber) for the easy placement and alignment of the frame; furthermore, for the better isolation by filling the interior void with sealant adhesive.
5. He must cut and pierce in a proper way the profiles and protect these section points with anticorrosive materials for the avoidance of corrosion.
6. Put sealant adhesive at the profile borders when assembling them, for better impermeability that will lead water to the exterior part of the frame, through the drainage channels.
7. Furthermore, silicone must be added at the lower part of the frame, between the frame and the marble, thus prohibiting water to enter inside the building.
8. Make always the necessary drainage channels, depending on the position of the frame, for better impermeability.
9. Open holes for the avoidance of corrosion and the drainage of deposits at the lower part of each window shade panel.
10. Always use the right accessories (mechanisms, etc) contained in the catalogues.
11. Pay more attention to the sealing, ensuring they are made of E.P.D.M.
12. Fit properly the glass panels to avoid the "hanging" of the construction.
13. Ask for help from the technicians in case of a difficult construction, for the avoidance of problems.

Note:

The sealing used for frames must be detachable, in order to be replaced in case of damage or wear.

INSTRUCTIONS FOR THE MAINTENANCE OF PANELS

- The regular cleaning of painted profiles will maintain the paint in a satisfactory condition.
- Cleaning is necessary when dust or other pollutants are visible on their surface, which must be carried out by water and a mild detergent, the pH of which must range between 5 - 5,8.
- Periodic cleaning must be carried out by a sponge and water containing a neuter wetting agent, being afterwards rinsed with clean water.
- Periodic cleaning must be carried out by a sponge and water containing a neuter wetting agent, being afterwards rinsed with clean water.
- The cleaning products must not affect the surface nor change its appearance. A hard sponge, wire wool or dis-solvents damage the surface, whereas the area where the building is located is also an important factor.
- More particularly at industrial or seaside areas, cleaning must be relevant to the accumulated pollutants or salts respectively, due to their intense corrosive effect. It is noted that building alkaline materials, such as cement, whitewash and plaster must not remain on the paint.
- Moreover, sticking non-approved adhesive tapes on the paint should be avoided.
- The protection film placed at the factory is suitable for use. However, it must be removed immediately after the installation of the frame, as its exposure to the sun may cause problems when removing the film.

The observation of the above, as well as the use of special glue at the parts where the paint has been damaged (due to profile processing) will extend the original polish of paint and avoid probable corrosion problems.

INSTRUCTIONS FOR CONSTRUCTION - MAINTENANCE

INSTRUCTIONS POUR LA CONSTRUCTION - MAINTENANCE

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM

INSTRUCTIONS POUR LA CONSTRUCTION DES PANNEAUX

1. Le fabricant doit savoir toute la gamme des profils et leur capacité
2. donner de solutions et proposer la construction propre pour chaque cas
3. fabriquer et installer le cadre propre, selon le type du panneau
4. calculer toujours l'air entre le cadre et le panneau, de 2,5 mm à 3 mm, de chaque côté (en tenant compte le profilé circonférentiel) pour l'installation facile et alignement du panneau et la meilleure isolation par le transperçement de colle dedans le vide
5. découper et perforer bien les profils and protéger ces points de sections par matériaux anti-corrosion pour empêcher la corrosion
6. utiliser de colle à l'assemblage en biseau des profils, en créant étanchéité et permettant l'écoulement de l'eau a l'extérieur du panneau
7. utiliser de silicone au panneau, entre le cadre et le marbre, empêchant l'entrée de l'eau dedans le bâtiment
8. fabriquer les goutteurs nécessaire, selon la position du panneau pour la meilleure étanchéité
9. ouvrir de barbacanes a chaque vantail de volet pour l'empêchement de corrosion
10. utiliser toujours les accessoires propres (mécanismes, etc.) recommandés par les listes
11. se concentrer sur les profilés d'étanchéité, s'assurant qu'ils sont fabriqués d'E.P.D.M.
12. fixer le vitrage pour que la construction ne pas tomber
13. demander l'aide de techniciens en cas d'une construction difficile

Note:

Les profilés utilisés pour les panneaux doivent être détachable pour sont remplacés en cas de défaut.

INSTRUCTIONS POUR LA MAINTENANCE DES PANNEAUX

- Le nettoyage fréquent de profils peints peut maintenir la peinture à une condition satisfaisante.
- Le nettoyage est nécessaire quand la poussière ou autres polluants sont visibles sur la surface ; elle peut être lavée à l'eau et un détergent léger, le pH desquels doit être de 5 à 5,8.
- Utiliser une éponge et eau d'agent neutre, et rincer avec d'eau pur.
- Les produits de nettoyage ne doivent pas affecter la surface ni changer son apparence. Une éponge dure, fil ou solvants endommagent l'apparence; la région où le bâtiment se trouve est un facteur important.
- Particulièrement, aux zones industrielles et à coté de la mer, le nettoyage doit être fréquent à cause des polluants ou sels. Les matériaux alcalins, comme ciment, chaux et gypse ne doit pas rester sur la teinture.
- Le collage de bandes non-approuvé directement sur la teinture doit être évité.
- Le film de protection placé à l'usine est propre. Alors, il doit être enlevé directement après l'installation du panneau, parce que l'exposition au sol peut créer de problèmes.

L'implémentation des instructions et l'utilisation de la colle spécial aux point que la teinture est endommagé, peuvent maintenir le lustre original et éviter la corrosion.

AVAILABLE SYSTEMS - SYSTEMES DISPONIBLES

ALUMINIUM SYSTEMS - SYSTEMES EN ALUMINIUM



AL 205



AL 210



AL 420



AL 410



AL 520



AL 510



AL 220



AL 250



AL 230



AL 460



ALUMINIUM SYSTEMS
SYSTEMES EN ALUMINIUM

AL 230
FEBRUARY 2010



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