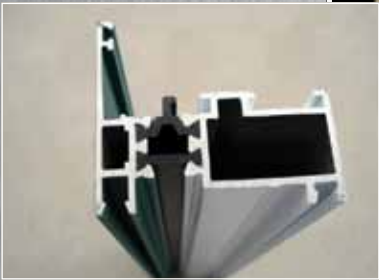
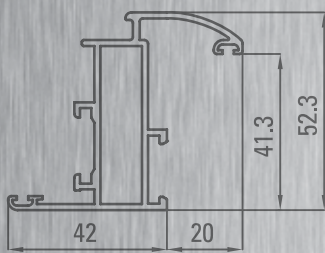




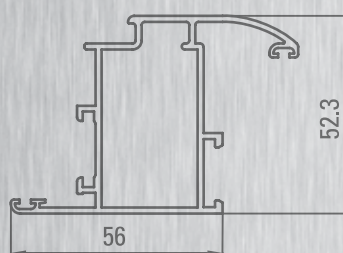
بلكسكو
BALEXCO



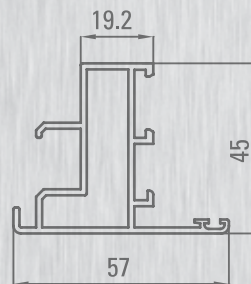
Technical Information



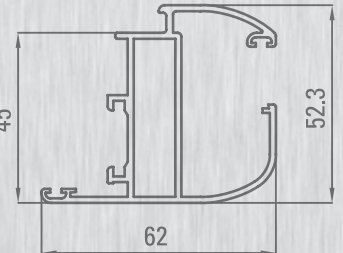
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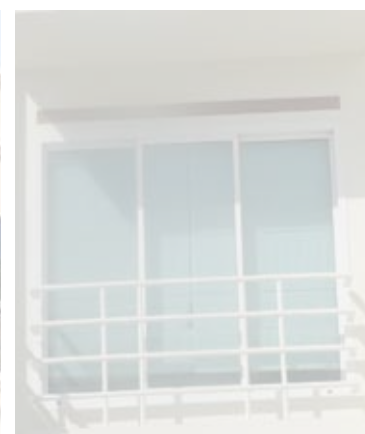


E1232

45 SERIES

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BALEXCO 45, 45i CASEMENT SERIES ALUMINIUM SYSTEMS FOR YOUR LIFETIME

Bahrain Aluminium Extrusion Company (Balexco), the market leader in the Arabian Gulf for the manufacture of Aluminium extruded profiles has been growing consistently, maintaining the highest quality standards on all its products since its inception.

From a humble beginning of 6,000 tons in 1977 to a current production level of 25,000 MT annually is definitely a phenomenal achievement. An addition of press 4 with an individual capacity of 8,000 MT to the existing 3 press lines will enhance the capacity to a total of 33,000 TPA in the year 2012.

For Balexco it is a matter of pride that clients associated with the company are dedicated and loyal thereby achieving mutual benefit, with a commitment from the company to supply high quality products.

Consistently providing good quality by Balexco is a result of its investment in modern technologies and constant up-grading of its Human Resources in their competence and expertise in administration and technical skills.

Herewith, Balexco presents to you a system which has been one of the most successful Window & Door systems in the Gulf, viz., “**Balexco 45, 45 i Casement Series**” which gives you a range of profiles to meet the requirement of different buildings.

The “**Balexco 45, 45 i Casement Series**” is a combination of fabricated Balexco aluminium system profiles, Balexco authorized & approved accessories & gaskets assembled together to provide high performance product duly tested for air, water leakages & for wind pressure. “**Balexco 45, 45 i Casement Series**” is designed to be safe with excellent & inherited advantages of sliding system like space saving, large-size glass for sunlight, etc.

This system is wholly owned by Balexco and is registered as an intellectual industrial right for the company, besides Balexco 45, 45i, Balexco 60 & Balexco Luxury System.

It is with great honor that I present this “**Balexco 45, 45 i Casement Series**” to all clients with assurance of its capability and availability of its accessories. Balexco shall be pleased to extend all the technical support and I assure all customers that Balexco will make all out efforts to ensure the best of our services are rendered along with the intense support so that every single customer is satisfied with Balexco & its products.



نظام بلكسكو ٤٥، ٤٥ i المفصلي نظام النيووم مدى الحياة

استمرت شركة البحرين لسحب الألمنيوم (بلكسكو)، من الشركات الرائدة في صناعة سحب مقاطع الألمنيوم في أسواق منطقة الخليج العربي، التي ظلت منذ إنشائها ومازالت تنمو بشكل متواصل ومستمر للحفاظ على أعلى معايير الجودة في جميع منتجاتها.

من بداية متواضعة في عام ١٩٧٧ بإنتاج ٦٠٠٠ طن متري، إلى مستوى الإنتاج الحالي والذي بلغ ٢٥٠٠٠ طن متري سنوياً، وهو بلا شك يعتبر إنجازاً هائلاً في صناعة الألمنيوم. وسوف يشكل إضافة خط المكبس الرابع بقدرة على إنتاج ٨٠٠٠ طن متري سنوياً بالإضافة إلى قدرات إنتاج خطوط المكابس الثلاثة القائمة حالياً إلى تعزيز القدرة الإنتاجية إلى ٣٣٠٠٠ طن متري سنوياً، مع بداية عام ٢٠١٢.

ولن دواعي فخر بلكسكو بأن المتعاملين معها هم عملاء مشتركين في التفاني والإخلاص مع الشركة لأنهم يدركون بأن بلكسكو كانت وما زالت شديدة الالتزام بتصنيع منتجات عالية الجودة.

وتستمر بلكسكو بتوفير منتجات عالية الجودة نتيجة لاستثماراتها في مجال التكنولوجيا الحديثة والمتطورة باستمرار، بالإضافة إلى تطوير مواردها البشرية المختصة وخبرتها في مجال الإدارة والمهارات التقنية.

ويسر بلكسكو أن تقدم لكم واحدة من أحدث وأنجح ابتكاراتها وتصميماتها في مجال أنظمة النوافذ والأبواب بمنطقة الخليج، وهو نظام بلكسكو ٤٥، ٤٥ i المفصلي والذي يحتوي على مجموعة من المقاطع التي بإمكانها الإيفاء باحتياجات ومتطلبات الزبون في مختلف المباني.

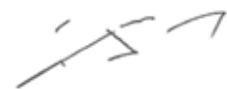
إن نظام بلكسكو ٤٥، ٤٥ i المفصلي هو تركيبة من مقاطع نظام الألمنيوم المفبرك، بلكسكو لديها صلاحيات مصدقة بتجميع الإكسسوارات والعازل لتوفير منتجات عالية الأداء تم اختبارها لمنع تسرب الماء والهواء وضغط الرياح.

وقد صمم نظام بلكسكو ٤٥، ٤٥ i المفصلي ليجمع مزايا النظام المفصلي والنظام السحاب في آن واحد مما يوفر في المساحة ويضاعف حجم الزجاج للحصول على مزيد من الإضاءة في نفس الوقت، الخ.

وهذا النظام خاص بالشركة ومسجل باسمها في سجل الحماية الفكرية الصناعية، بالإضافة إلى أنظمة بلكسكو الأخرى مثل بلكسكو ٤٥، ٤٥ i، بلكسكو ٦٠، ونظام بلكسكو الفاخر.

إننا نعتز كثيراً بتقديم نظام بلكسكو ٤٥، ٤٥ i المفصلي لجميع أسواقنا ولكل من يحتاجه من زبائننا، ونحن نؤكد بأن هذا النظام يتمتع بكفاءة عالية، وإكسسواراته متوفرة. كما أن بلكسكو من خلال فريق خدماتها للدعم الفني على استعداد تام لتقديم أي مساعدة أو مشورة للجميع، مما سيحظى بالرضى من قبل كل زبون تجاه بلكسكو ومنتجاتها.

Jassim Mohamed Seyadi



Chief Executive Officer

Historical Information about Bahrain Aluminium Extrusion Company (Balexco)

Bahrain Aluminium Extrusion Company BSC – Balexco, was established in 1977 as the first aluminium extrusion plant in the Arabian Gulf.

Its main objective was to add value to the primary aluminium produced by Aluminium Bahrain (ALBA). Balexco commenced operations with one extrusion press and one anodizing line mainly targeting to meet the demands of the construction and building industry in the Gulf.

Over the years, Balexco has tripled its capacity and expanded into markets all over the GCC, Yemen, West Asia & North Africa markets. Balexco now exports some 80% of its output to over many countries like India, Sri Lanka, Germany, France, United Kingdom, Lebanon, Yemen and to all the GCC countries.

Consumption of aluminium globally has been increasing in various industrial applications due to its main characteristics which are as follows:

- **Light weight.**
- **Corrosion – Resistant, when powder coated/anodized.**
- **Ability to accommodate a variety of surface finishes and durability.**
- **Ease of machining into desired shapes.**

On going expansion & future plans:

Balexco's aim is to provide the best aluminium extrusions which suit the systems for windows and doors in the construction industry apart from various other applications in the industrial sector

Balexco had initiated & been the leader in the development of Systems., viz., Balexco **sliding 100 series** and **casement 45 series**. The curtain wall system in **Balexco 60** and **Balexco Luxury system** are the latest in the list of new products that have been added to the existing systems thereby providing more options for the customers to choose from a wide range of a package of profiles. Balexco now has Casement

نبذة تاريخية عن شركة البحرين لسحب الألمنيوم (بلكسكو)

تعتبر شركة البحرين لسحب الألمنيوم ش.م.ب.م التي بدأت إنتاجها في عام ١٩٧٧م أول شركة من نوعها لسحب الألمنيوم في منطقة الخليج العربي.

كان الغرض الأساسي من إنشاء الشركة هو تعزيز قيمة منتجات الألمنيوم الأولية التي تصنعها شركة ألمنيوم البحرين (ألبا). بدأت بلكسكو بداية متواضعة باستخدام مكبس واحد وخط واحد لمعالجة الأنودة ، واستهدفت أساساً تلبية متطلبات قطاع الإنشاءات في منطقة الخليج.

بمرور السنين تمكنت بلكسكو من زيادة طاقتها الإنتاجية بمعدل ثلاثة أضعاف ،

وتوسعت في أسواقها في جميع دول مجلس التعاون الخليجي واليمن وغرب آسيا وأسواق شمال أفريقيا. وفي الوقت الحاضر تقوم بلكسكو بتصدير نحو ٨٠٪ من إنتاجها إلى العديد من الدول مثل الهند وسريلانكا وألمانيا وفرنسا والمملكة المتحدة ولبنان واليمن وجميع دول مجلس التعاون الخليجي.

إن معدلات استهلاك الألمنيوم تشهد ارتفاعاً متواصلاً على مستوى العالم في مختلف الاستخدامات الصناعية. وتعد أسباب هذه الزيادة إلى الخصائص الهامة التالية التي يتميز بها الألمنيوم وهي على النحو التالي :

- خفة الوزن.
- مقاومة الصدأ أو التآكل عند طلائه.
- إمكانية طلائه بألوان مختلفة ، وهو يملك قوة تحمل عالية.
- سهولة تشكيله حسب التصميم المطلوبة.

التوسع المستمر والخطط المستقبلية:

تهدف بلكسكو إلى توفير أفضل منتجات الألمنيوم المتوافق مع أنظمة النوافذ والأبواب المستخدمة في قطاع الإنشاءات إلى جانب الأغراض والتطبيقات الأخرى في قطاع الصناعة.

وكخطوة رائدة نحو المستقبل عملت بلكسكو على تطوير مجموعة (النظام السحاب ١٠٠) ومجموعة (أنظمة المفصلات ٤٥). نظام الساتر الحائطية في منتجنا بلكسكو ٦٠ ونظام بلكسكو الفاخر يعتبران من أحدث الابتكارات في قائمة المنتجات الجديدة، و التي أضيفت إلى الأنظمة الحالية مما سيوفر المزيد من الخيارات للزبائن بحيث يمكنهم الاختيار من بين مجموعات متنوعة و جديدة.



systems with 3 mm thickness for robust and sturdy performances, newer high performance **thermal break systems** - the Balexco Luxury system. We are in the process of introduction of 2.50 mm thick sections in casement Thermal break systems also very soon.

Besides manufacturing high quality aluminium extrusions, Balexco's commitment to meet the stringent needs of the market & the evergrowing customer's demand has been addressed on top priority which has resulted in Balexco investing in state-of-the-art manufacturing technology that has turned out BALEXCO to be a fully integrated and a modern plant.

In 2011, Balexco initiated an expansion project of approximately \$ 21.5 million for a new extrusion press line & an anodizing line. The Phase 5 expansion was the additional extrusion press from GiA Clecim of Spain which was installed at a cost of US \$ 12.5 Million. This expansion project was completed in a very short duration of time and the plan to commence commercial production from January 2012 is bang on target. This new 28 MN press will enhance the capacity by 9600 TPA escalating the total capacity of Balexco to 35600 TPA from the year 2012. The container Diameter is 236 mm & will accommodate billet diameter of 208 mm (8") & 236mm (9").

The anodizing plant in a Phase 4 expansion is also being upgraded simultaneously at a cost of US \$ 9 million and this would facilitate Balexco to meet the increased demand of a variety of products and market requirements in special finishes in various colors.

A vertical powder coating line is also planned as a phase VI expansion & the civil work is likely to commence immediately after the completion of Extrusion Press 4 & anodizing plant of phase 4. This plant will facilitate Balexco to provide products in Woodfinish, texturized powder coated & in products with Super Durable Finish (SDF).

Balexco is consistently making steady progress, into the future by expansions & investments in a phased manner thereby ensuring the effective utilization of the inhouse resources & providing a good return on the investment to all customers using their products.



إن شركة بلكسكو لديها الآن نظام المبوية عالية الأداء بسماكة ٣٢ ملم وهو نظام مصقول، قوي ومقاوم للحرارة يعرف بنظام بلكسكو الفاخر. و الشركة الآن بصدد إنتاج قطاعات بسبك ٢,٥٠ ملم في نظام الأبواب المقاومة للحرارة في القريب العاجل.

إلى جانب تصنيع قطع الألمنيوم عالية الجودة، تحرص بلكسكو على تلبية حاجات السوق و طلبات الزبائن المستمرة بحيث تجعل هذه الحاجات على رأس أولوياتها ، و لذلك قامت الشركة بالاستثمار فى تكنولوجيا التصنيع ما جعل مصانع بلكسكو تعمل وفق أحدث النظم و أعلى المعايير و على قدر كبير من التطور التكنولوجي.

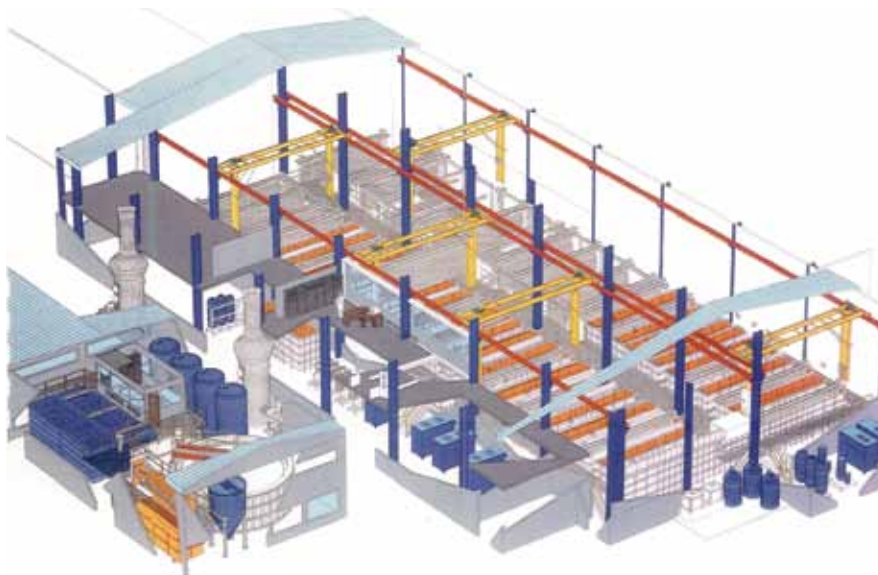
في عام ٢٠١١، بدأ مشروع توسعة بلكسكو بتكلفة تقدر بما يقارب ٢١,٥ مليون دولار. و ذلك لإقامة خط جديد للمكبس و أيضا خط جديد للأنودة. المرحلة الخامسة من مشروع التوسعة كان إنشاء خط جديد لسحب الألمنيوم من شركة Clecim الأسبانية و التي تم تثبيتها بتكلفة قدرها ١٢,٥ مليون دولار أمريكي. إكتمل هذا المشروع خلال مدة قصيرة جدا من الزمن، و سوف يبدأ الإنتاج التجاري بدءا من كانون الثاني ٢٠١٢ وفقا للخطة. إن هذا المنتج الجديد ٢٨ MN سوف يسهم في رفع القدرة الإنتاجية إلى ٩٦٠٠ طن مما يجعل القدرة الإجمالية للشركة ترتفع إلى ٣٥٦٠٠ طن سنويا بدءا من عام ٢٠١٢. إن قطر الحاوية لهذا المنتج يقدر ب ٢٣٦ ملم، مع قدرة إستيعابه تقدر ٢٠٨ ملم من المادة الخام (٨) و (٩) و ٢٣٦ ملم (٩).

و في نفس الوقت أيضا تم رفع القدرة الإنتاجية لمحطة الأنودة و هي المرحلة الرابعة من خطة التوسع بتكلفة قدرها ٩ ملايين دولار أمريكي، وهذا أيضا سيعزز قدرة الشركة على تلبية الطلب المتزايد من السوق لمجموعات متنوعة من المنتجات بألوان مختلفة و جودة عالية.

و في المرحلة السادسة من خطة التوسع، سوف يتم إضافة خط جديد لمسحوق الطلاء حيث ستبدأ الأعمال الميدانية لتنفيذ هذه المرحلة فور الإنتهاء من المرحلتين الرابعة و الخامسة من خطة التوسع. إن هذا الخط سوف يسهل على الشركة توفير منتجات ذات طلاء خشبي بالغ الدقة و الجودة و كذلك منتجات طويلة الأمد ومعمرة.

إن بلكسكو تحقق تقدما مطردا و ثابتا نحو المستقبل عن طريق التوسعات والاستثمارات بطريقة تدريجية وبالتالي ضمان الاستخدام الأمثل

للموارد المتوفرة مع ضمان الحصول على عوائد جيدة على الإستثمار لجميع العملاء الذين يستخدمون منتجاتها.





BALEXCO

BAHRAIN ALUMINIUM EXTRUSION COMPANY

STATEMENT OF POLICY

The continued success and profitability of Bahrain Aluminium Extrusion Company (Balexco) totally depends upon our ability to attract and satisfy customers.

BALEXCO is committed to strive continuously for customer satisfaction and continuous improvement in the implementation of a Quality Management System, to meet these commitments the company will set quality objectives at management review.

The Chief Executive Officer accepts full responsibility for the implementation of the Quality Management System and its continuity and is committed to allocate appropriate resources.

JASSIM MOHAMED SEYADI
CEO

Date: 02-02-2011



FM 33839



Licence N° 2700



Licence N° 2200

ALUMINIUM EXTRUSION PRODUCT SPECIFICATIONS

Dimensions and Shapes

Dimension tolerances are divided into two categories as mentioned below :

Category I:

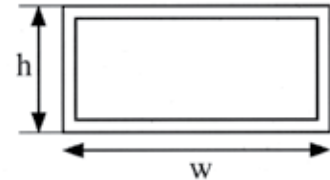
Standard Dimensional Tolerances

(DIN 1748, Part 4, Standard)

Dimensions

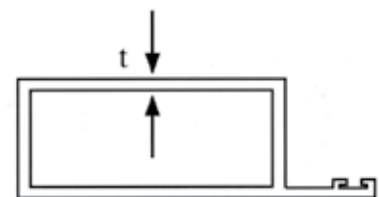
(Width (W) and Height (h)) - mm

Over	To	Tolerance
		±
-	10	0.3
10	15	0.4
15	30	0.5
30	50	0.6
50	80	0.7
80	100	0.8
100	120	1.0
120	150	1.2
150	180	1.5
180	240	1.9



Wall Thickness (t) mm

Over	To	Tolerance
		±
-	1.5	0.20
1.5	3	0.25
3	6	0.30
6	10	0.35
10	15	0.40
15	20	0.50
20	30	0.60



ALUMINIUM EXTRUSION PRODUCT SPECIFICATIONS

Concavity/Convexity (E) mm

Solid Sections

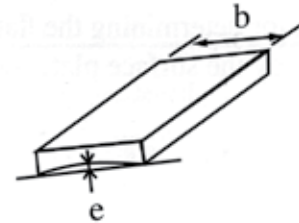
$$: e = 0.005 \times b$$

(minimum 0.20 mm)

Hollow Sections

$$: e = 0.01 \times b$$

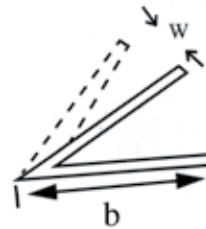
(minimum 0.30 mm)



Angularity (W)

- Being the deviation from the given angle.

Angular tolerances for extruded regular sections.		
Nominal Thickness of thinnest leg.		Allowable deviation from angle specified (measured at the extremities of the section)
Over	Upto and including	
mm	mm	±
-	1.6	1½°
1.6	5.0	1½°
5.0	-	1°



ALUMINIUM EXTRUSION PRODUCT SPECIFICATIONS

Flatness Tolerance (Torsion/Twist - mm)

The basis for determining the flatness tolerance b according to table 8 is width b of the profile supported by the surface plate, see figure A.

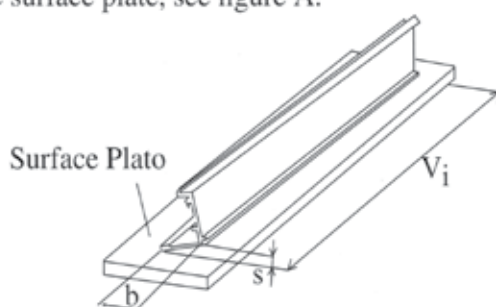
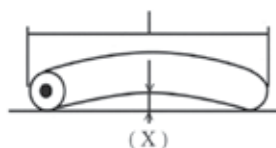


Figure A.

Flatness tolerance

Width b		Normal-straightened (N) Total Profile Length V_i		
Over	Up to	per 1000	upto max. 6000	over 6000
-	30	1.2	2.5	3.0
30	50	1.5	3.0	4.0
50	100	2.0	3.5	5.0
100	200	2.5	5.0	7.0
200	300	2.5	6.0	8.0
300	450	3.0	8.0	1.5 x l
450	600	3.5	9.0	(l in m)

Bow - mm



No single deviation per 300 mm shall exceed 0.3mm

Length of section in M	Up to 1	Over 1 Up to 2	Over 2 Up to 3	Over 3 Up to 4	Over 4 Up to 5	Over 5 Up to 6	Over 6 Up to 7	Over 7
Tolerance in mm "X"	1	4	6	7	8	9	12	Subject to agreement

ALUMINIUM EXTRUSION PRODUCT SPECIFICATIONS

Fixed Length (sawn length/mm)

The tolerance also includes the angle in case the saw blade is out of the 90° angle.
Permissible dimensional deviations for fixed lengths.

Diameter of circumscribing circle d_u		Permissible dimensional deviations for fixed lengths				
Over	Up to	Up to 1000	Over 1000 Up to 2000	Over 2000 Up to 5000	Over 5000 Up to 8000	Over 8000
-	25	+2 0	+3 0	+5 0	+7 0	+10 0
25	50	+3 0	+4 0	+6 0	+7 0	+12 0
50	100	+4 0	+5 0	+7 0	+8 0	+14 0
100	250	+5 0	+6 0	+8 0	+10 0	+16 0
250	600	+8 0	+8 0	+10 0	+12 0	+20 0

Category II:

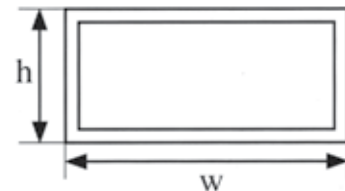
Special Dimensional Tolerances

DIN 17615, Part 3 Standard

Dimensions

(Width (W) and Height (h)) - mm

Over	To	Tolerance
		±
-	10	0.15
10	15	0.20
15	30	0.25
30	45	0.30
45	60	0.40
60	90	0.45
90	120	0.60
120	150	0.80
150	180	1.00
180	240	1.20



ALUMINIUM EXTRUSION PRODUCT SPECIFICATIONS

Wall Thickness (t) mm

Over	To	Tolerance
		±
-	1.5	0.15
1.5	3	0.20
3	6	0.25
6	10	0.30
10	15	0.40
15	20	0.50
20	30	0.60
30	40	0.70

Concavity/Convexity (e) mm

Width, b		Concavity/ Convexity
Over	Up to	
		±
-	40	0.20
40	60	0.30
60	90	0.40
90	120	0.45
120	150	0.55
150	180	0.65
180	210	0.70
210	240	0.75

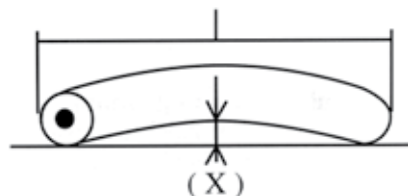
Angularity (W) The values of angularity tolerance

Angular tolerances for extruded regular sections.		
Nominal Thickness of thinnest leg.		Allowable deviation from angle specified (measured at the extremities of the section)
Over	Upto and including	
mm	mm	±
-	1.6	1°
1.6	5.0	1½°
5.0	-	1°

ALUMINIUM EXTRUSION PRODUCT SPECIFICATIONS

Bow - mm

No single deviation per 300 mm shall exceed 0.3mm



Length of section in M	Up to 1	Up to 2	Up to 3	Up to 4	Up to 5	Up to 6	Over 6
Tolerance in mm "X"	0.7	1.3	1.8	2.2	2.6	3.0	3.5

Tolerance on twist

Width, b		Tolerance on twist for lengths $\pm V_i$						
Over	Up to	- Up to 1000	Over 1000 Up to 2000	Over 2000 Up to 3000	Over 3000 Up to 4000	Over 4000 Up to 5000	Over 5000 Up to 6000	Over 6000 -
-	25	1.0	1.5	1.5	2.0	2.0	2.0	To be Agreed
25	50	1.0	1.2	1.5	1.8	2.0	2.0	
50	75	1.0	1.2	1.2	1.5	2.0	2.0	
75	100	1.0	1.2	1.5	2.0	2.2	2.5	
100	125	1.0	1.5	1.8	2.2	2.5	3.0	
125	150	1.2	1.5	1.8	2.2	2.5	3.0	
150	200	1.5	1.8	2.2	2.6	3.0	3.5	
200	300	1.8	2.5	3.0	3.5	4.0	4.5	

For determining the tolerance on twist, the section shall be placed on a surface plate and size v_i measured; see figure B.

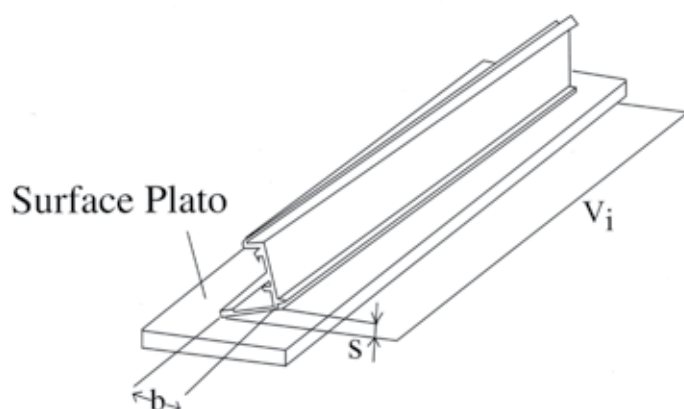


Figure B.

ALUMINIUM EXTRUSION PRODUCT SPECIFICATIONS

Fixed Length (sawn length/mm)

The tolerance also includes the angle in case the saw blade is out of the 90° angle.
Permissible dimensional deviations for fixed lengths.

Diameter of smallest circumscribing circle d _n		Limit deviation for specified lengths, multiple lengths and underlengths			
Over	Up to	- Up to 1000	Over 1000 Up to 2000	Over 2000 Up to 5000	Over 5000 -
-	25	+2 0	+3 0	+5 0	+10 0
25	50	+3 0	+4 0	+6 0	+12 0
50	100	+4 0	+5 0	+7 0	+14 0
100	250	+5 0	+6 0	+8 0	+16 0
250	300	+8 0	+8 0	+10 0	+20 0

SCOPE : ANODISING STANDARDS

BALEXCO's Quality Specification is based on **International Standards**.

The specification in particular meets the requirement for architectural aluminium extrusions.

Surface Finish

Anodic film thickness are as follows:

CLASSIFICATION	MINIMUM THICKNESS
Class 16 / 18 Microns	16 Microns
Class 20 / 22 Microns	20 Microns
Class 23 / 25 Microns	23 Microns

Colour Variations

Colour variations for our colour anodised products are controlled within a permissible range of maximum and minimum limits of each shade.

ALUMINIUM EXTRUSION PRODUCT SPECIFICATIONS

Finishes

Mill Finish.

Anodised: Gold Matt, Gold Brushed, Bronze Colinal Matt, Black Colinal Matt, Black Colinal Brushed. Gold is available in two shades No. 2 and No. 3, Bronze Colinal is available in 5 shades, Colinal No. 10 (light) and No. 17 (medium), 21 (medium), No. 30 (dark) and No. 40 (very dark).

Powder Coated: Wide Range of RAL painted polyester powder colours are available.

SCOPE : POWDER COATING STANDARDS:

The Balexco specification in particular meets the requirements for architectural aluminium extrusions. Regular quality checks are made during production to ensure high quality products as follows:

Gloss - Adhesion - Impact Resistance - Flexibility - Cupping.

Limits values for:

Gloss	Coat Thickness
65% to 84%	60 μ m to 170 μ m
Adhesion Cross Cut	No flaking 100% *
Impact	No crack *
Flexibility (Bend)	No crack *
Cupping	No Crack *

* When applied on test panel less than 1 mm thick, provided coat thickness is between 40 to 80 μ m.

- When exceeding the maximum range, consideration must be given to the question of fit or possible problems with sliding components.



Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2008

This is to certify that:

**Bahrain Aluminium Extrusion Company
(Balexco)
PO BOX 1053
Manama
Bahrain**

Holds Certificate No: **FM 33839**

and operates a Quality Management System which complies with the requirements of ISO 9001:2008 for the following scope:

The Procurement and Processing of Aluminium, and Aluminium Alloys for Extruding, Heat Treatment, Anodising and Powder Coating to customer specifications. Re-melt casting facility for the recycling of scrap Aluminium and Aluminium Alloys.

* For and on behalf of BSI:

Managing Director, BSI EMEA

Originally registered: **09/04/1996**

Latest issue: **02/06/2010**

Expiry Date: **08/10/2012**



Page: 1 of 1

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract. An electronic certificate can be authenticated [online](http://www.bsi-global.com/ClientDirectory). Printed copies can be validated at www.bsi-global.com/ClientDirectory or telephone +44 (0)20 8996 7033.

The British Standards Institution is incorporated by Royal Charter.
BSI (EMEA) Headquarters: 389 Chiswick High Road, London, W4 4AL, United Kingdom



Authorization to use the quality sign



This is to certify that

Bahrain Aluminium Extrusion Company B.S.C.C. (BALEXCO)

P.O. Box 1053
BH – 1053 Bahrain

Licence number: 2700

is authorized to use the quality sign which is shown above according to the REGULATIONS FOR THE USE OF THE QUALICOAT QUALITY SIGN FOR PAINT, LACQUER AND POWDER COATINGS ON ALUMINIUM FOR ARCHITECTURAL APPLICATIONS.

Date of issue of the licence: 27.05.2003

Period of validity of the licence: until 31.12.2012

Zurich, 14 November 2011

QUALICOAT



Ralf Heitzelmann
President

CERTIFICATION BODY



Josef Schoppig
AC-Fiduciaire SA



Mailing address:
QUALICOAT, P.O. Box 1507, CH-8027 Zurich
Domicile:
QUALICOAT c/o AC-Fiduciaire SA, Tödistrasse 47, CH-8002 Zurich

Phone: +41 (0)43 305 09 70/79
Fax: +41 (0)43 305 09 98
E-mail: info@qualicoat.net
Internet: www.qualicoat.net

Authorization to use the quality sign



This is to certify that

Bahrain Aluminium Extrusion Company B.S.C.C. (BALEXCO)

P.O. Box 1053
BH – 1053 Bahrain

Licence number: 2200

is authorized to use the quality sign which is shown above according to the REGULATIONS FOR USE OF THE QUALANOD QUALITY LABEL FOR SULPHURIC ACID-BASED ANODIZING OF ALUMINIUM.

Date of issue of the licence:

08.09.2009

Period of validity of the licence:

until 31.12.2012

Zurich, 16 November 2011

QUALANOD

CERTIFICATION BODY



José Fernando Bettencourt
President



Josef Schoppig
AC-Fiduciaire SA



Mailing address:
QUALANOD, P.O. Box 1507, CH-8027 Zurich
Domicile:
QUALANOD c/o AC-Fiduciaire SA, Tödiistrasse 47, CH-8002 Zurich

Phone: +41 (0)43 305 09 70
Fax: +41 (0)43 305 09 98
E-mail: info@qualanod.net
Internet: www.qualanod.net



TEST REPORT NO. 97010

Place and date of issue: Azzano X°, 24 January 1997

Client: BALEXCO - Baharain Aluminium Extrusion Company B.S.C.C.

Series tested: "CASEMENT 45" series produced by BALEXCO

Objective of test: Functional Test window with two leafs

Test to be carried out as per French NF P 20.501 standards:

Testing of AIR SEAL
Testing of the WATER SEAL
Testing of WIND RESISTANCE

RESULTS:

CLASSIFICATION OF THE WINDOW FRAME BASED ON AIR SEAL, WATER SEAL AND WIND RESISTANCE

Based on the test results obtained, the window frame tested can be classified in the following quality classes:

- | | |
|-------------------|---|
| · Air seal | A3 |
| · Water seal | E2 |
| · Wind resistance | V2 |
| (1) Values: | Not classifiable / A1 / A2 / A3 |
| (2) Values: | Not classifiable / E1 / E2 / E3 / E4 |
| (3) Values: | Not classifiable / V1 / V1a / V2 / V2a / V3 |

**Project manager
product test & certification**

Dott. A. Cesari

General Manager

Ing. A. Negroni

SYNCRO s.r.l. CONSULTING & ENGINEERING

40054 BUDRIO (Bologna - Italia) - Via Tubertini, 1 - Tel. (39)-51-6930270 - Fax (39)-51-6924042

Sede legale - 40121 BOLOGNA - Via Galliera, 34 - P.IVA e C.F. 04075030371

Rilasciato il 13.3.97





TEST REPORT NO. 97023

Place and date of issue: Azzano X°, 26 June 1997

Client: BALEXCO - Baharain Aluminium Extrusion Company B.S.C.C.

Series tested: "CASEMENT 45" series produced by BALEXCO

Objective of test: Functional Test window with two leafs outside opening.

Test to be carried out as per French NF P 20.501 standards:

Testing of AIR SEAL
Testing of the WATER SEAL
Testing of WIND RESISTANCE

RESULTS

CLASSIFICATION OF THE WINDOW FRAME BASED ON AIR SEAL, WATER SEAL AND WIND RESISTANCE

Based on the results obtained, the window frame tested can be classified in the following quality classes:

- Air seal A3
 - Water seal E3
 - Wind resistance V2
- 1) Values: Not classifiable / A1 / A2 / A3
1) Values: Not classifiable / E1 / E2 / E3 / E4
1) Values: Not classifiable / V1 / V1a / V2 / V2a / V3

**Project manager
product test & certification**

Dot. A. Cesari

General Manager

Ing A. Negroni

SYNCRO s.r.l. CONSULTING & ENGINEERING

40054 BUDRIO (Bologna - Italia) - Via Tubertini, 1 - Tel.(39)-51-6930270 - Fax (39)-51-6924042

Sede legale - 40121 BOLOGNA - Via Galliera, 34 - P.IVA e C.F. 04075030371





TEST REPORT NO. 97011

Place and date of issue: Azzano X°, 24 January 1997

Client: BALEXCO - Baharain Aluminium Extrusion Company B.S.C.C.

Series tested: "CASEMENT 50 T.B." series produced by BALEXCO

Objective of test: Functional Test window with two leafs

Test to be carried out as per French NF P 20.501 standards:

Testing of AIR SEAL
Testing of the WATER SEAL
Testing of WIND RESISTANCE

RESULTS:

CLASSIFICATION OF THE WINDOW FRAME BASED ON AIR SEAL, WATER SEAL AND WIND RESISTANCE

Based on the test results obtained, the window frame tested can be classified in the following quality classes:

• Air seal **A3**
• Water seal **E3**
• Wind resistance **V2**

(1) Values: Not classifiable / A1 / A2 / A3
(2) Values: Not classifiable / E1 / E2 / E3 / E4
(3) Values: Not classifiable / V1 / V1a / V2 / V2a / V3

**Project manager
product test & certification**

Dott. A. Cesari

General Manager

Ing. A. Negroni

SYNCRO s.r.l. CONSULTING & ENGINEERING

40054 BUDRIO (Bologna - Italia) - Via Tubertini, 1 - Tel.(39)-51-6930270 - Fax (39)-51-6924042

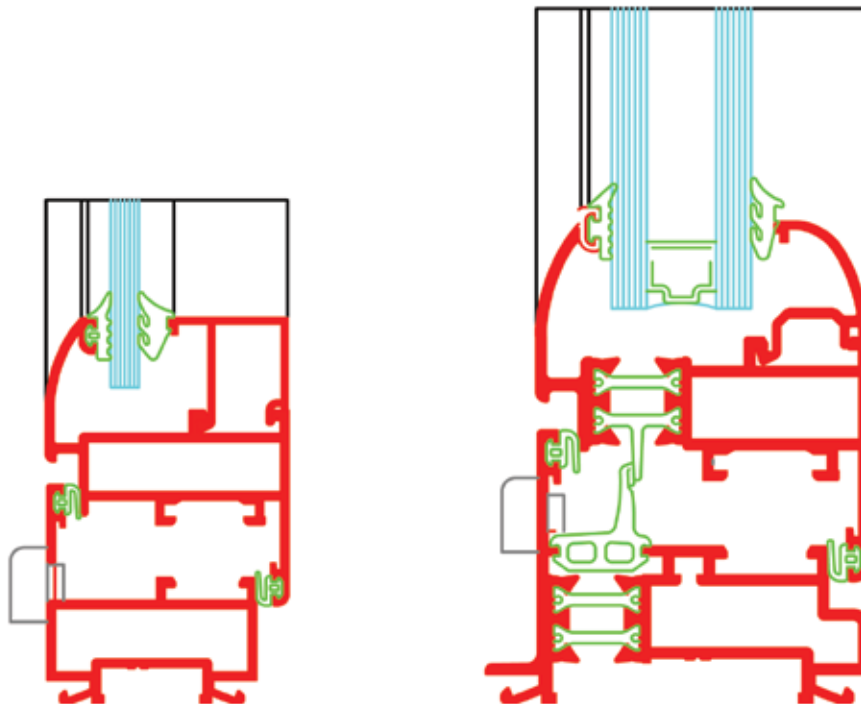
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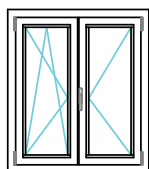
BALEXCO CASEMENT

THERMAL & NON THERMAL BREAK PROFILES

BALEXCO 45 & 45i

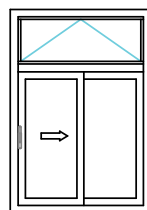


GENERAL APPLICATIONS



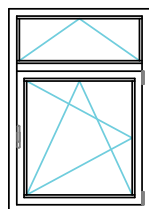
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**TILT-TURN
& SIDE HUNG**



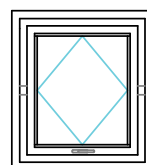
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**COMBINED
WITH
SLIDING**



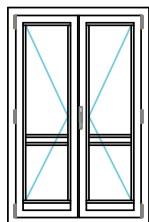
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**TILT-TURN &
BOTTOM HUNG**



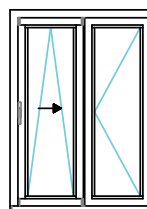
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PIVOTING



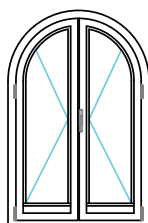
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**BALCONY
DOOR**



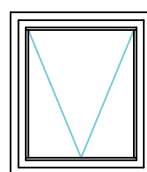
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TILT & SLIDE



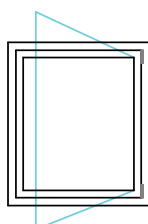
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**ROUNDED
WINDOW**



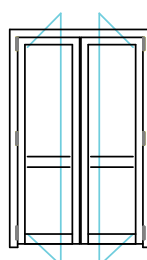
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TOP HUNG



45	45i
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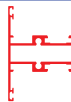
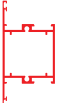
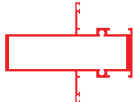
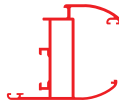
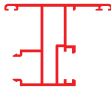
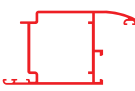
**EXTERNAL
OPENING
WINDOW**

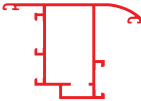


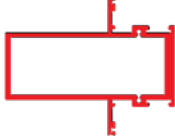
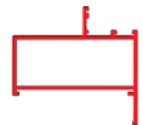
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**INTERNAL OPENING
DOOR**

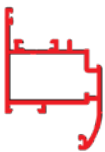
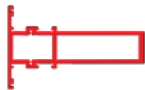
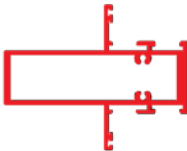
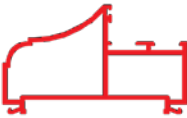
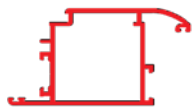


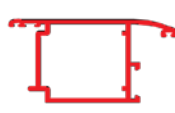
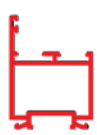
CODE	SECTION	WEIGHT g/m	DESCRIPTION	PER.	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
E1217		381	ARCHITRAVE	308	3.83	1.87	38.83	34.56
E1220		1010	TRANSOM 44.7 mm	440	6.27	1.92	9.05	3.41
E1221		734	T SMALLER 44.7 mm	300	2.58	0.99	6.68	2.36
E1222		1337	LARGE TRANSOM 44.7 mm	558	14.20	3.12	24.55	9.56
E1223		1801	SKIRTING FOR FIX FRAME 44.7 mm	783	21.99	3.26	92.08	39.07
E1224		1728	DOOR SKIRTING 39.7 mm	751	16.98	2.49	87.74	42.42
E1225		1634	DOOR TRANSOM 39.7 mm	694	15.75	2.31	76.94	37.20
E1226		2009	MULLION	702	18.29	3.18	81.57	20.65
E1230		959	WINDOW SASH	441	3.43	1.23	14.59	4.71
E1231		1094	DOOR SASH	512	7.83	2.92	20.53	5.43
E1232		1085	SASH GLASS INSERT	504	7.88	2.66	15.11	5.53
E1233		1004	SASH GLASS INSERT	472	5.75	1.97	14.79	5.18
E1236		929	CENTRAL FOR DOUBLE SASH	460	4.90	2.44	9.90	3.02
E1237		1094	DOOR SASH INSIDE OPENING Z WING DOOR	500	9.65	4.31	20.63	4.97

CODE	SECTION	WEIGHT g/m	DESCRIPTION	PER.	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
E1238		1096	DOOR SASH OUTSIDE OPENING	501	11.81	6.26	17.95	4.54
E1243		664	ADDED FRAME OUTSIDE OPENING	316	2.82	1.16	4.81	2.41
E1245		1110	SASH PROFILE OUTSIDE OPENING	526	12.99	5.93	15.25	3.99
E1247		905	ADDED FRAME OUTSIDE OPENING	422	5.46	1.98	7.98	2.48
E1249		983	WINDOW SASH STRAIGHT	454	3.59	1.33	16.16	5.36
E1250		967	TRANSOM 39.7 mm	421	6.19	1.90	22.87	2.79
E1251		1193	TRANSOM 39.7 mm	525	9.9	-	6.77	-
E1255		383	ARCHITRAVE	155	0.24	-	2.4	-
E1256		1193	L FRAME OPEN	472	6.20	1.17	50.30	19.69
E1274		556	ARCHITRAVE	176	0.2	-	7.9	-
E1278		1499	L FRAME 100	641	7.46	-	59.85	-
E1280		230	GLAZING BEAD	85	0.27	-	0.47	-
E1281		462	ARCHITRAVE	185	3.34	1.34	4.66	3.52

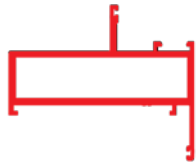
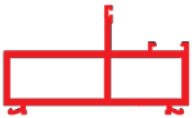
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E1227		894	MULLION REINFORCED		7.3	-	10.36	-
E1228		2948	MULLION REINFORCED		48.17	-	175.3	-
E1229		2138	DOOR SKIRTING		20.8	-	99.7	-
E1234		2816	L FRAME REINFORCED		41.25	-	181.3	-
E1239		1647	DOOR SASH INSIDE OPENING REINFORCED		17.69	-	40.82	-
E1240		1647	DOOR SASH OUTSIDE OPENING REINFORCED		19	-	39.12	-
E1257		1850	DOOR SKIRTING REINFORCED		19	-	91.39	-
E1258		1185	TRANSOM 44.7mm REINFORCED		7.6	-	11	-
E1259		1118	WINDOW SASH REINFORCED		4.0	-	16.9	-
E1261		1258	DOOR SASH OUTSIDE OPENING REINFORCED		13.63	-	20.09	-
E1263		1723	LARGE TRANSOM 45mm REINFORCED		20.86	-	57.7	-
E1264		1412	ORNAMENTAL		13.99	-	35.39	-
E1265		2012	L FRAME 100 DOOR REINFORCED		41.13	-	104.56	-



CODE	SECTION	WEIGHT g/m	DESCRIPTION	PER.	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
E1296		1534	3 GASKET, L FRAME 100		7.7	-	53.98	-
E1297		1215	3 GASKET, L FRAME 100		6.25	-	50.8	-
E1298		1218	DOOR SASH		8.6	-	22.6	-
E1427		2795	LOUVER		-	-	-	-
E1235		2522	TRANSOM		-	-	-	-
E1241		2066	Transom		-	-	-	-
E1244		1388	Transom		-	-	-	-
E1248		1728	Frame		-	-	-	-
E1253		1761	Frame		-	-	-	-
E1254		1345	Shutter		-	-	-	-
E1283		1831	Window shutter		-	-	-	-

CODE	SECTION	WEIGHT g/m	DESCRIPTION	PER.	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
E1284		2654	Frame	424	-	-	-	-
E1292		1647	Frame	399	-	-	-	-
E1299		2208	Transom	452	-	-	-	-
E1452		1207	Frame	377	-	-	-	-
E1453		1069	Door Frame	321	-	-	-	-
E1454		1247	In open shutter	351	-	-	-	-
E1455		1393	Transom	382	-	-	-	-
E1456		400	Architrave	164	-	-	-	-
E1457		1253	Out open shutter	352	-	-	-	-
E1458		1677	Door skirting	504	-	-	-	-
E1459		1072	Door Frame	319	-	-	-	-

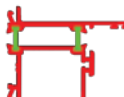
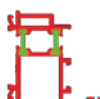
ALL PROFILES WITH 3mm THICKNESS

CODE	SECTION	WEIGHT g/m	DESCRIPTION	PER.	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
E1601		1442	Similar to E1230		4.38	-	19.80	-
E1602		1785	Similar to E1237		15.22	-	29.58	-
E1603		1785	Similar to E1238		17.70	-	26.57	-
E1604		2236	Similar to E1278		8.79	-	83.25	-
E1605		2471	Similar to E1282		22.89	-	103.85	-
E1606		2543	Similar to E1211		18.04	-	93.70	-
E1613		2506	Similar to E1224		24.70	-	116.86	-
E1616		1355	Similar to E1220		6.50	-	11.80	-
E1617		1261	Similar to E1200		4.60	-	14.91	-
E1284		2654	Similar to E1210		8.34	-	136.33	-

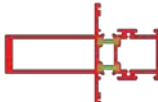
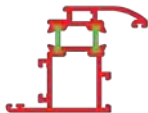
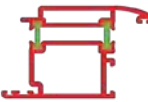
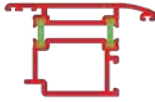
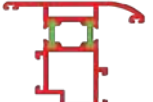
COMMON PROFILE LIST: Beading & Corner Joint

CODE	SECTION	WEIGHT g/m	DESCR.	PER.	CODE	SECTION	WEIGHT g/m	DESCR.	PER.
E1401		148	ROD	48	E1417		4452	CORNER JOINT 37 mm	736
E1402		275	DOOR RABBET	137	E1418		5522	CORNER JOINT 51.5 mm	920
E1403		262	26mm	160	E1419		1218	CORNER JOINT 13.8 mm	426
E1404		254	21mm	150	E1420		292	THRESHOLD DOOR	75
E1405		224	16mm	138	E1421		410	FLY SCREEN	200
E1406		227	11mm	139	E1422		424	TRANSOM FLY SCREEN	209
E1407		186	6mm	103	E1423		251	HANDLE AND T JOINT	86
1408		259		133	E1426		467	FOR 180° DOOR	224
E1410		246	26mm	138	E1456		400	ORNAMENTAL	164
E1411		230	21mm	128	E2075		1582	CORNER JOINT	238
E1412		213	16mm	118					
E1413		183	11mm	99					
E1414		170	6mm	92					
E1416		3013	CORNER JOINT 25 mm	634					

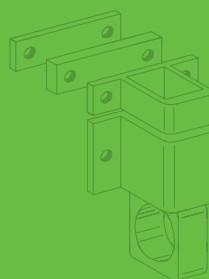
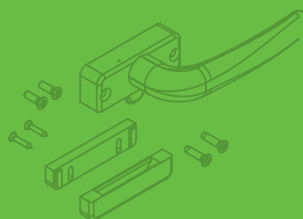
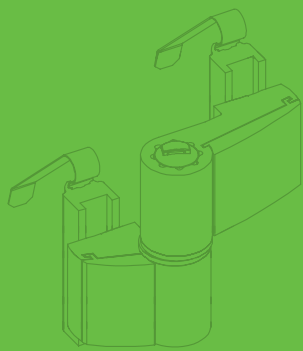
THERMAL BREAK PROFILES LIST

CODE	SECTION	WEIGHT g/m	DESCRIPTION	PER.	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
E1300		1057	Z FRAME	451	—	—	—	—
E1301		1050	L FRAME	434	—	—	—	—
E1304		1116	Z FRAME COPLANER	475	—	—	—	—
E1305		1107	L FRAME COPLANER	460	—	—	—	—
E1309		1494	L FRAME DOOR COPLANER	591	—	—	—	—
E1310		1836	L FRAME 120mm	734	—	—	—	—
E1311		2101	L FRAME DOOR 120mm	830	—	—	—	—
E1314		1096	Z FRAME OUTSIDE OPENING	470	—	—	—	—
E1315		1367	L FRAME OUTSIDE OPENING	520	—	—	—	—
E1316		2123	L FRAME 120mm OUTSIDE OPENING	470	—	—	—	—
E1320		1172	TRANSOM 49.7 mm	835	6.58	2.02	13.15	4.23
E1322		1590	LARGE TRANSOM 49.7 mm	620	19.08	4.19	27.79	8.94
E1323		2423	SKIRTING FOR FIX FRAME 49.7 mm	938	32.10	4.78	116.74	39.92
E1324		2380	SKIRTING FOR DOOR 44.7 mm	903	25.46	3.77	112.39	43.36

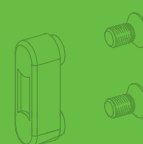
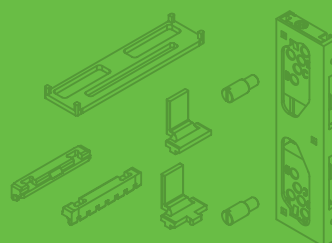
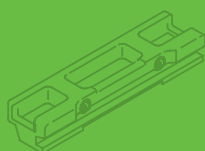
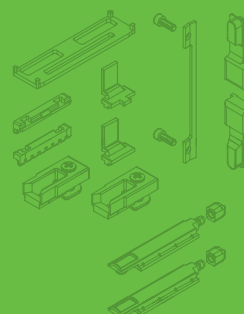
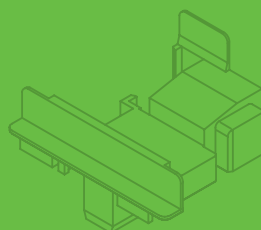
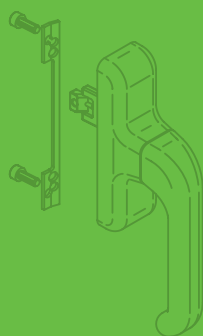
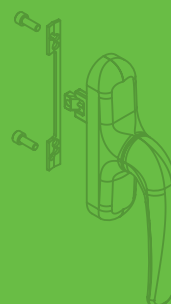
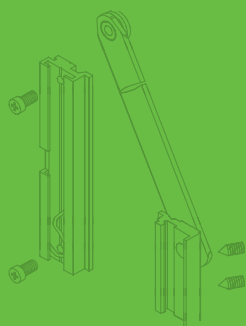
THERMAL BREAK PROFILES LIST Continued

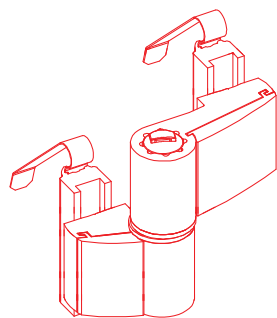
CODE	SECTION	WEIGHT g/m	DESCRIPTION	PER.	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
E1325		2226	DOOR TRANSOM 44.7 mm	835	23.44	3.60	99.82	37.09
E1326		2423	MULLION	867	20.98	3.28	131.48	33.28
E1330		1080	WINDOW SASH	445	3.82	1.39	19.06	6.14
E1331		1391	LARGE WINDOW SASH	601	9.93	3.84	26.38	7.02
E1336		2275	CENTRAL DOUBLE SASH	481	5.41	2.71	14.16	4.37
E1337		1545	DOOR SASH INSIDE OPENING	641	14.99	6.83	27.25	6.52
E1338		1544	DOOR SASH OUTSIDE OPENING	642	17.08	8.77	23.81	6.06
E1343		804	ADDED FRAME OUTSIDE OPENING	317	2.82	1.25	8.42	5.11
E1345		1442	SASH PROFILE-WINDOW OUTSIDE OPENING	609	14.37	6.69	20.05	5.22
E1346		1140	INVERSION RABET	523	5.74	2.17	15.06	4.61
E1347 *		1045	ADDED FRAME-WINDOW OUTSIDE OPENING	466	5.62	2.20	14.44	4.43

* Check for the die availability with balexco before ordering



ACCESSORIES LIST

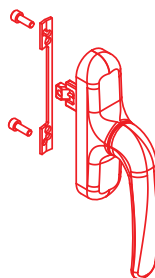




45 *	45i *
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C0010

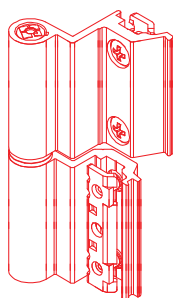
WINGS-HINGE
Giesse No. 00012



45 *	45i *
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C 0160 - without kit

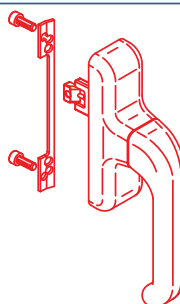
PRIMA CREMONE
Giesse No. 01110
for kit C1180 for Inside open
C1190 for Outside open



45 *	45i *
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C0050

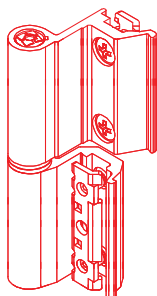
WINGS-HINGE
Giesse old No. 0098X
(Giesse new No. 0098N)



45 *	45i *
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C0140

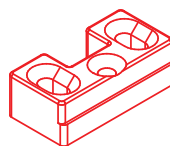
EURP 900 CREMONE
Giesse No. 01090
(Turn & Tilt window handle)



45 *	45i *
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C0080

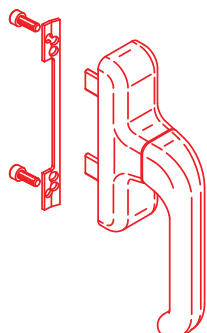
HINGE
Giesse old No. 00120X
(Giesse new No. 00120N)



45 *	45i *
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C0160

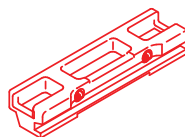
PESOS & SUPERGIAP
ROD STRIKER
Giesse old No. 01110
(Giesse new No. 01033N)



45 *	45i *
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C0090
(for inside open)

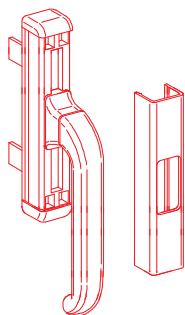
EURO CREMONE
Giesse No. 01000
For kit: C0190, C0380 & C0260
to be ordered separately



45 *	45i *
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C0190

SINGLE-DOUBLE
STRIKER
Giesse No. 01339

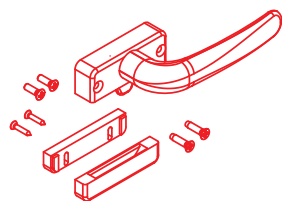


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C0110
for outside open

NOVA CREMONE
Giesse No. 01004
For kit: C0190, C0260, C0360 & C0310
to be ordered separately

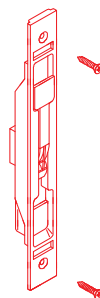
IMPORTANT NOTE: USE GENUINE BALEXCO APPROVED ACCESSORIES ONLY FOR AN EFFICIENT AND STABLE BALEXCO SYSTEM



45	45i
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C0200

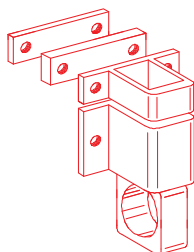
**MAIGGIA A
TAVELLIND SAMBA**
Giesse old No. 01635
(Giesse new No. 01642/01652)
For bottom hung windows



45	45i
*	*

C0270

**PESOS LEVER
BOLT FOR DOORS**
Giesse No. 02150



45	45i
*	*

C0210

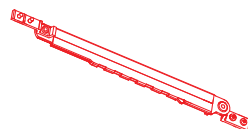
**GRISBI
FINGER CATCH**
Giesse No. 01701



45	45i
*	*

C0280

**PESOS SECURITY
TERMINAL**
Giesse No. 01954



45	45i
*	*

C0230

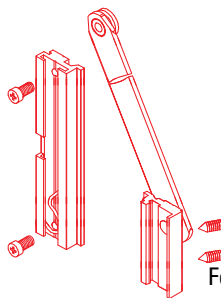
**TELESCOPIC
LASER UNIT**
Giesse No. 01954
For top hung windows



45	45i
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C0290

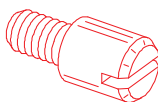
**BRASS THRESHOLD
CREMONE
BUSHING 02159**



45	45i
*	*

C0240

**DOMUS
RELEASABLE**
Giesse No. 02014
For bottom hung windows



45	45i
*	*

C0310

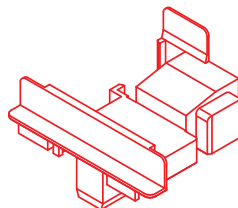
CONNECTING PIN
Giesse No. 02255



45	45i
*	*

C0260

ROD TERMINAL
Giesse No. 02114

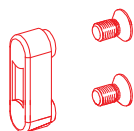


45	45i
*	*

C0330

**RABBET SEALS
AND WING**
Giesse No. 02269

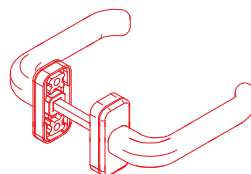
IMPORTANT NOTE: USE GENUINE BALEXCO APPROVED ACCESSORIES ONLY FOR AN EFFICIENT AND STABLE BALEXCO SYSTEM



45	45i
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C0340

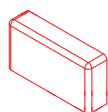
ELEMENT FOR
SUPPLEMENTARY
FASTENING
Giesse No. 02315



45	45i
*	*

C1150

MASTER CP HANDLE
Giesse No. 02452



45	45i
*	*

C0350

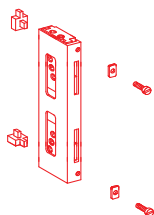
DRAINAGE
HOLE COVER
Giesse No. 02360



45	45i
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C0420

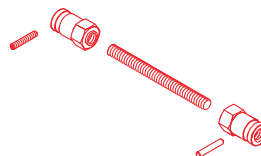
BIKE DOUBLE-BENT
NYLON-HANDLE
Giesse No. 02604



45	45i
*	*

C0360

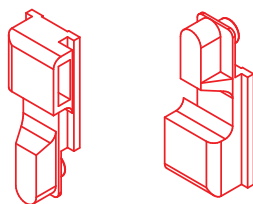
STARDUE/NOVA
CONNECTION KIT
Giesse No. 02379



45	45i
*	*

C0460

ALUMINIUM
TWIN HANDLE
BOLT KIT (for C 0420)
Giesse No. 02668



45	45i
*	*

C0380

CONNECTION BLOCKS
Giesse No. 02387

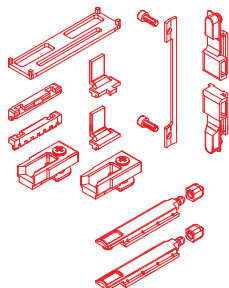


45	45i
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C066

SKATTO ADJUSTABLE FIXING TAB
Giesse No. 06500

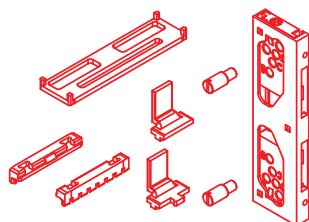
IMPORTANT NOTE: USE GENUINE BALEXCO APPROVED ACCESSORIES ONLY FOR AN EFFICIENT AND STABLE BALEXCO SYSTEM



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C1180

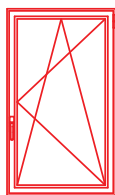
KIT OVERLAP
Giesse No. 04070
For inside open windows



45 *	45i *
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C1190

KIT COPLANER
Giesse No. 02240
For outside open windows



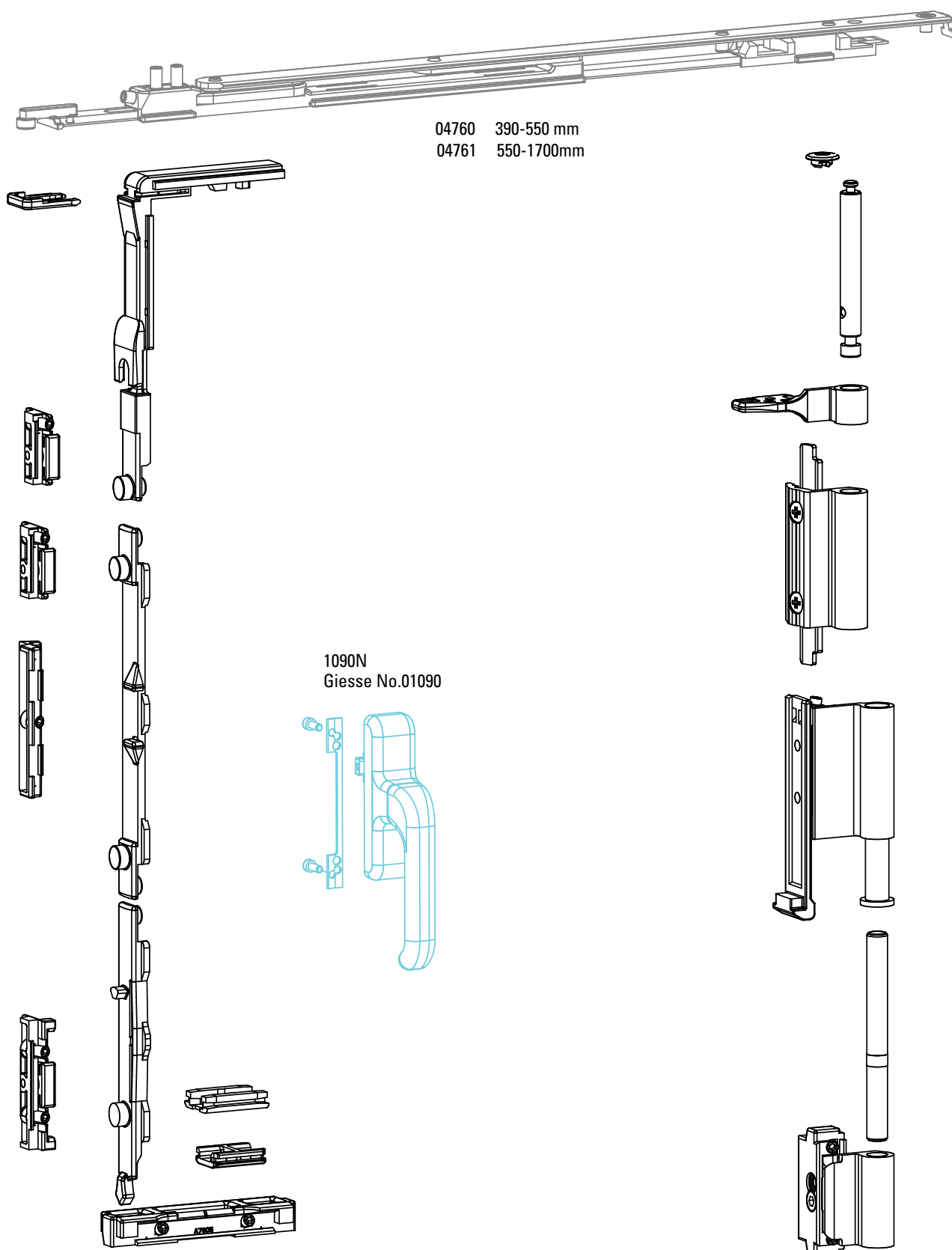
45 *	45i *
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C0640

TILT & TURN WITH HANDLE
C 0640.2 - Hinge - Giesse Code - 4704
C 0640.3 - Mechanism - Giesse Code - 4711
C 0580.2 - Arm - Small - Giesse Code - 4200
C 0590.1 - Arm - Big - Giesse Code - 4761000V
C 1160 - Handle - Giesse Code - 1150
C 1170 - Kit for C 1160 - Giesse Code - 4071

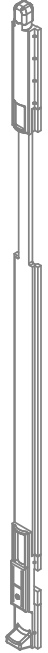
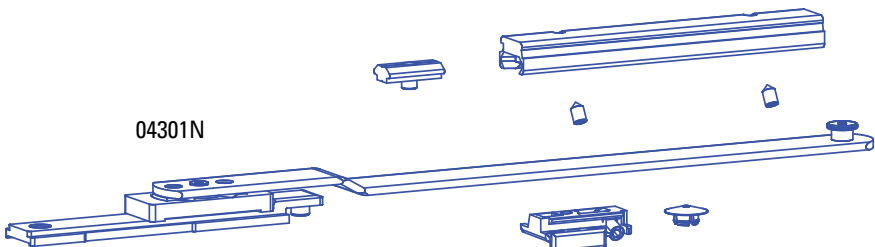
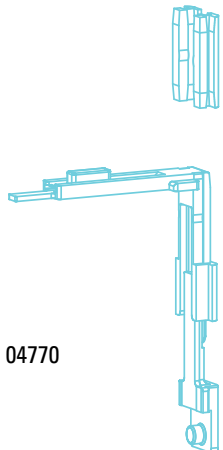
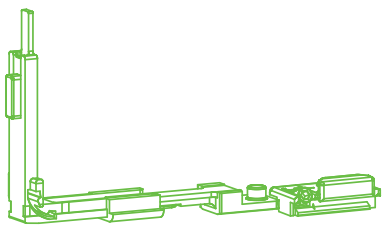
IMPORTANT NOTE: USE GENUINE BALEXCO APPROVED ACCESSORIES ONLY FOR AN EFFICIENT AND STABLE BALEXCO SYSTEM

TILT&TURN MECHANISM C0640: Giese No 04751N



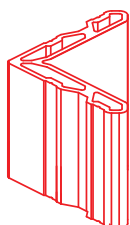
IMPORTANT NOTE: USE GENUINE BALEXCO APPROVED ACCESSORIES ONLY FOR AN EFFICIENT AND STABLE BALEXCO SYSTEM

ADDITIONAL LOCKS TILT&TURN MECHANISM C0640: Giesse No 04751N

ITEM IN VERSION		
04274	04282	
		 04301N  04770  04770
		

IMPORTANT NOTE: USE GENUINE BALEXCO APPROVED ACCESSORIES ONLY FOR AN EFFICIENT AND STABLE BALEXCO SYSTEM

CORNER JOINTS



45 *	45i *
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E2075

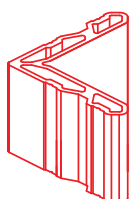
ALUMINIUM
CORNER JOINT 67.6[mm]
PROFILES E1310



45 *	45i
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E2075

ALUMINIUM
CORNER JOINT 41.4[mm]
PROFILES E1210-E1230



45 *	45i
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E2075

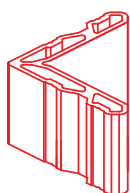
ALUMINIUM
CORNER JOINT 41.4[mm]
PROFILES -E1210-E1230



45 *	45i *
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E2075

ALUMINIUM
CORNER JOINT 28.7[mm]
PROFILES



45 *	45i *
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E2075

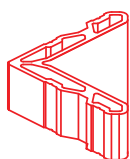
ALUMINIUM
CORNER JOINT 28.7[mm]
PROFILES E1314-E1320-E1330



45 *	45i *
---------	----------

E2075

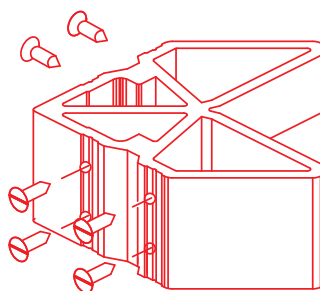
ALUMINIUM
CORNER JOINT 22.7[mm]
PROFILES E1243-E1343



45 *	45i *
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E2075

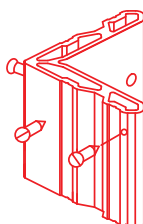
ALUMINIUM
CORNER JOINT 22.7[mm]
PROFILES E1243-E1343



45 *	45i *
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E1416

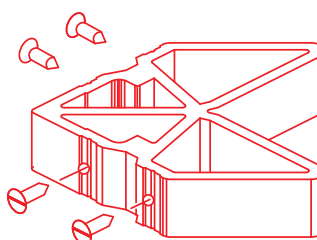
ALUMINIUM
CORNER JOINT
PROFILES



45 *	45i *
---------	----------

E2075

ALUMINIUM
CORNER JOINT 67.6[mm]
PROFILES E1310

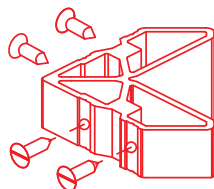


45 *	45i *
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E1416

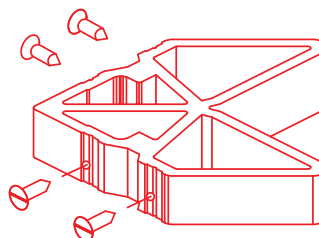
ALUMINIUM
CORNER JOINT 41.4[mm]
PROFILES E1211-E1231-E1245

CORNER JOINTS



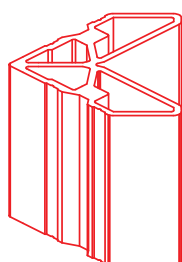
45 *	45i *
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E1416
ALUMINIUM
CORNER JOINT 21.4[mm]
PROFILES E1345



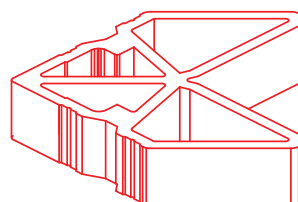
45 *	45i *
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E1417
ALUMINIUM
CORNER JOINT 22.7[mm]
PROFILES E1337-E1338



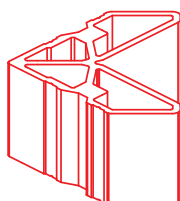
45 *	45i *
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E1416
ALUMINIUM
CORNER JOINT 67.6-28.7[mm]
PROFILES
E1311-E1315-E1316-E1331



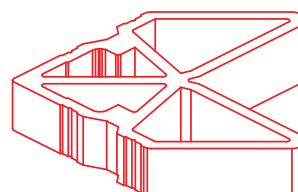
45 *	45i *
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E1417
ALUMINIUM
CORNER JOINT 28.4[mm]
PROFILES
E1209-E1237-E1238-E1309



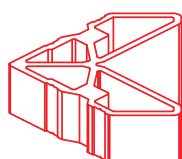
45 *	45i *
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E1416
ALUMINIUM
CORNER JOINT 41.4[mm]
PROFILES E1211-E1231-E1245



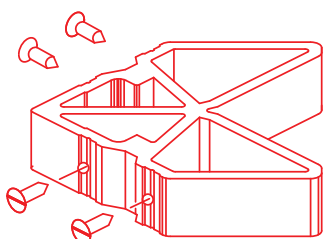
45 *	45i *
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E1417
ALUMINIUM
CORNER JOINT 22.7[mm]
PROFILES E1337-E1338



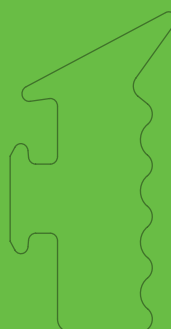
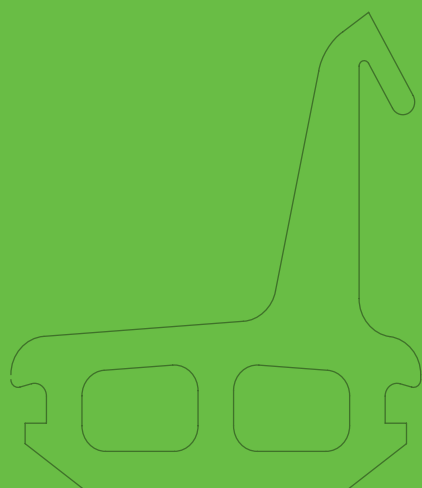
45 *	45i *
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E1416
ALUMINIUM
CORNER JOINT 21.4[mm]
PROFILES E1345

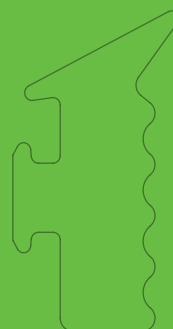
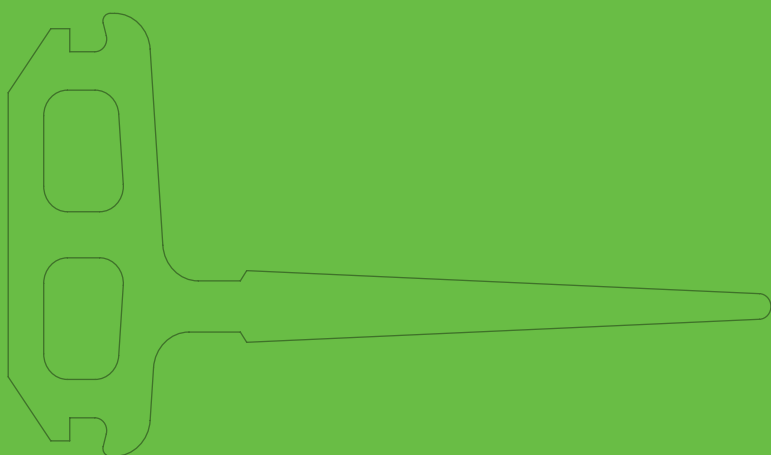


45 *	45i *
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E1417
ALUMINIUM
CORNER JOINT 28.4[mm]
PROFILES
E1209-E1237-E1238-E1309



LIST OF GASKETS



ITEM	MATERIAL	DESCRIPTIONS		ITEM	MATERIAL	DESCRIPTIONS	
E2101	EPDM	45 *	45i *	E2113	EPDM	45 *	45i *
	2mm				4mm		
E2102	EPDM	45 *	45i *	E2114	EPDM	45 *	45i *
	4mm						
E2103	EPDM	45 *	45i *	E2115	EPDM	45 *	45i *
	6mm						
E2104	EPDM	45 *	45i *				
	2mm						
E2110	EPDM	45 *	45i *				
							
E2111	EPDM	45 *	45i *				
							
E2112	EPDM	45 *	45i *				
	3mm						

GLAZING GASKETS

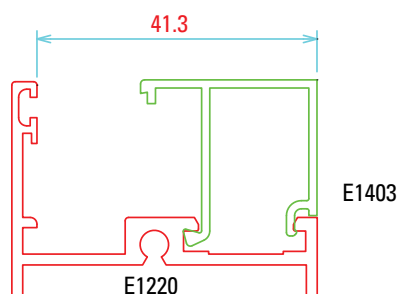
OUTER		OUTER		OUTER		INNER		INNER			
E2113		E2112		E2104		E2102		E2103		E2101	
											
A		B		C		D		E		F	
4mm		3mm		2mm		4mm		6mm		2mm	

	Gaskets	Glass Beading Dimensions mm	Glass Beading Profiles		GLASS THICKNESS [mm]			
					Space For Glass			
					45i	45i - 45	45	
	B+E C+E B+D C+D	26	E1403	E1410	46.3	41.3	36.3	
					—	6	—	
					—	7	—	
					—	8	—	
					—	9	—	
	A+E B+E C+E B+D C+D	21	E1404	E1411	15	10	5	
					16	11	6	
					17	12	7	
					18	13	8	
					19	14	9	
	A+E B+E C+E B+D C+D	16	E1405	E1412	20	15	10	
					21	16	11	
					22	17	12	
					23	18	13	
					24	19	14	
	A+E B+E C+E B+D C+F	11	E1406	E1413	25	20	15	
					26	21	16	
					27	22	17	
					28	23	18	
					29	24	19	
A+E B+E C+E B+D C+D	6	E1407	E1414	30	25	20		
				31	26	21		
				32	27	22		
				33	28	23		
				34	29	24		

GLAZING DIMENSIONS

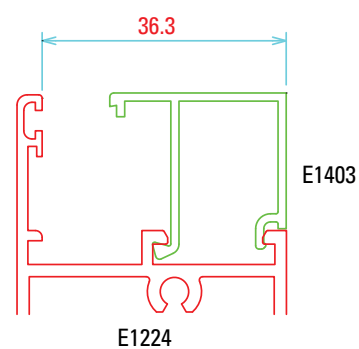
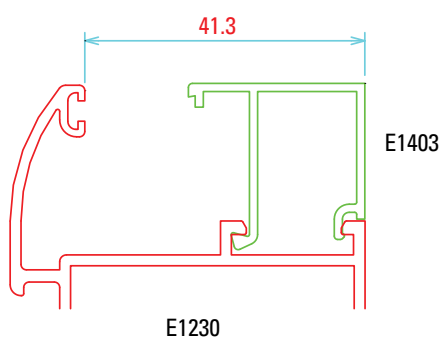
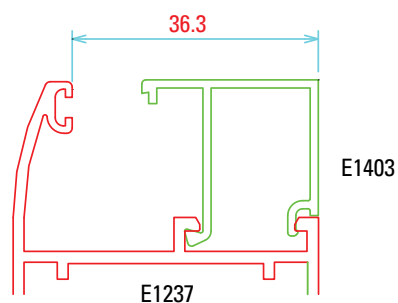
SPACE FOR GLASS 41.3

WINDOW PROFILES



SPACE FOR GLASS 36.3

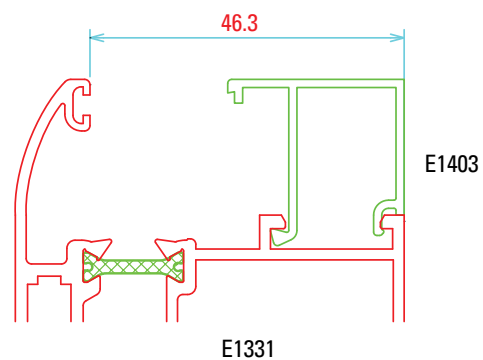
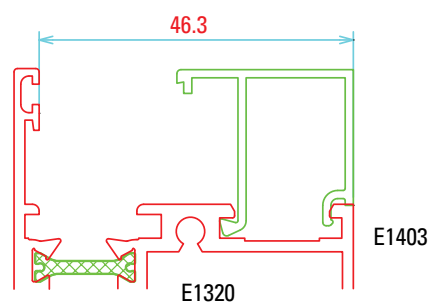
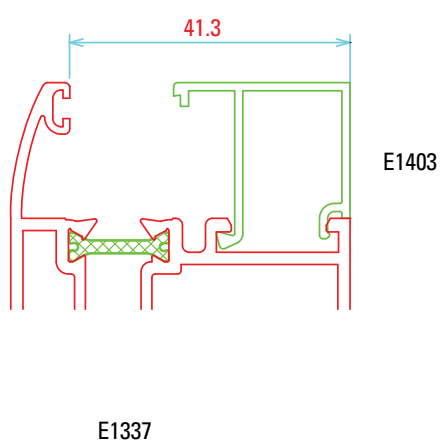
DOOR PROFILES

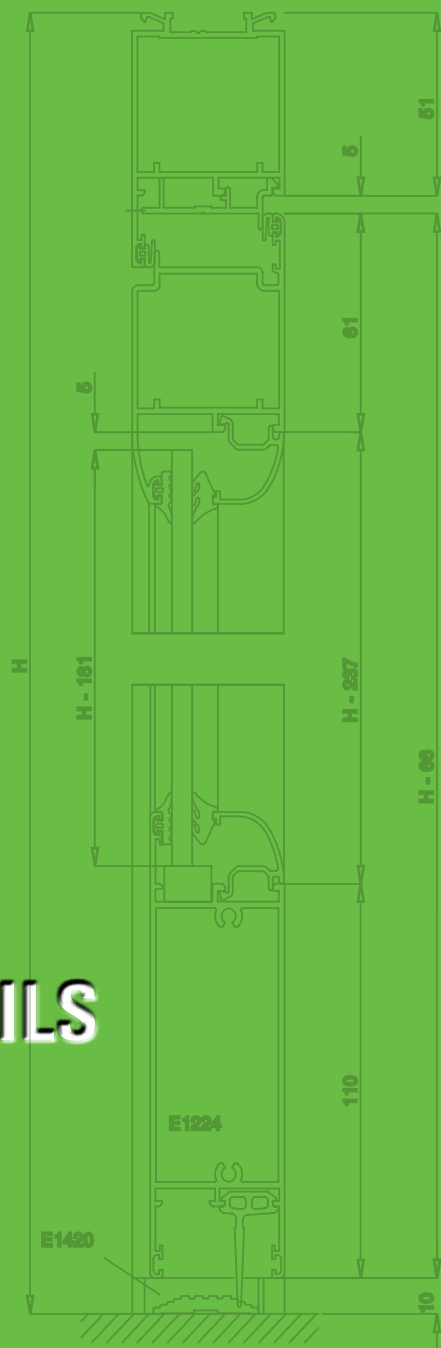


THERMAL BREAK DOOR PROFILES

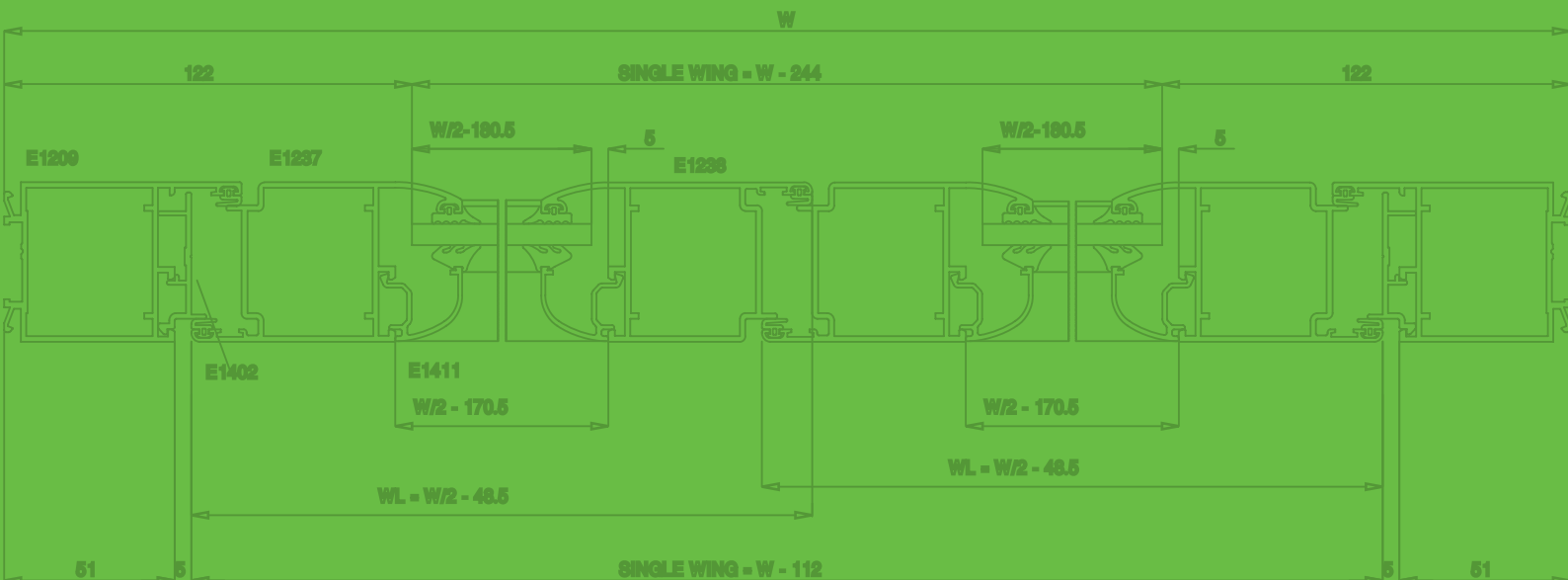
SPACE FOR GLASS 46.3

THERMAL BREAK WINDOW PROFILES

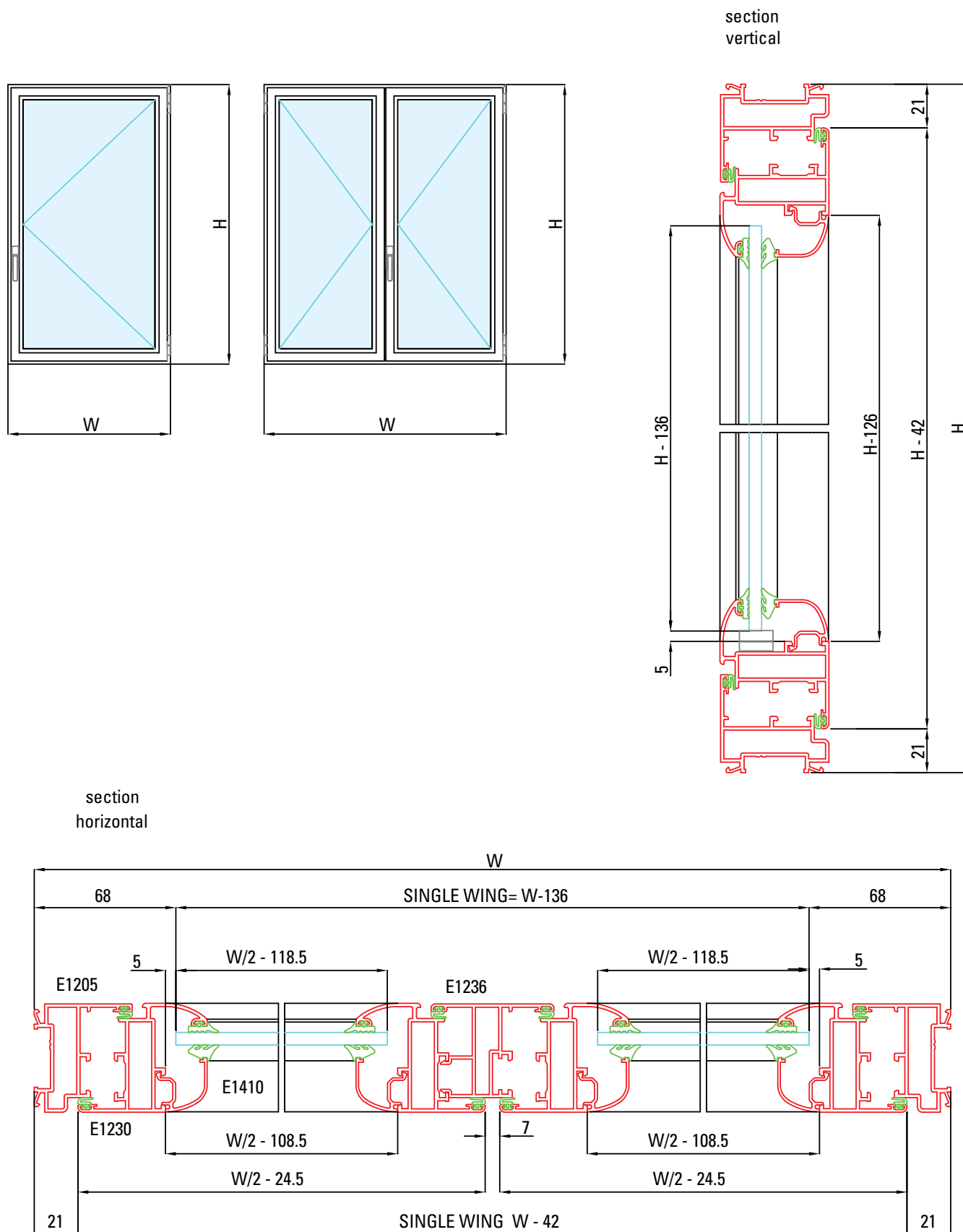




CROSS SECTION DETAILS



INSIDE OPEN WINDOWS- COPLANAR



INSIDE OPEN WINDOWS- COPLANAR

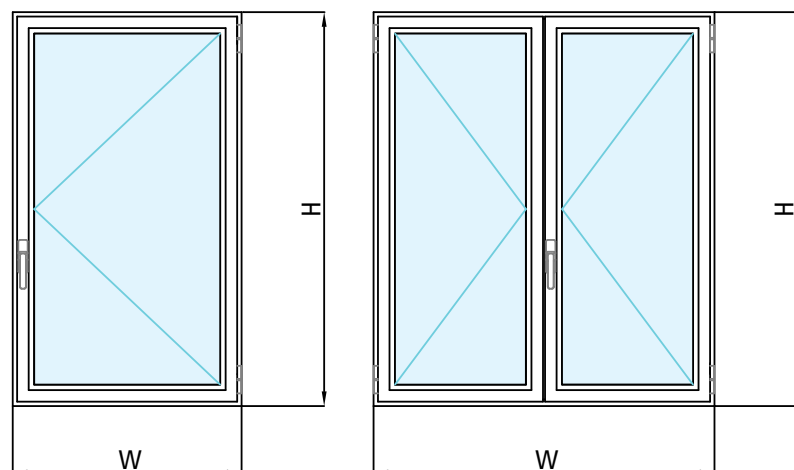
SINGLE WING

PROFILE		ACCESSORIES			ACCESSORIES			GASKET	
NUMBER	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	N. PCS
E1205	2W-2H	C0050	HINGE	2	C0660	ADJUSTABLE TAB mm 17.2	6	E2103	2W-2H
E1230	2W-2H	C0090	CREMONE EURO	1	E2075	CORNER JOINT IN PCS	8	E2110	4W-4H
E1410	2W-2H	C0190	SINGLE/DOUBLE STRIKER	2				E2112	2W-2H
		C0260	TERMINAL FOR ROD	2					
		C0350	DRAIN HOLE COVER	2					
		C0380	CONNECTIONS BLOCKS C/GASK	1					

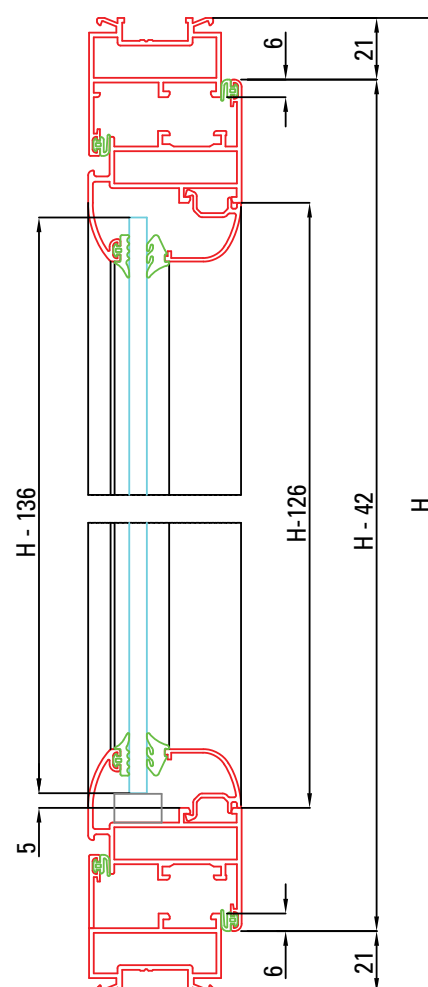
DOUBLE WING

PROFILE		ACCESSORIES			ACCESSORIES			GASKET	
NUMBER	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	N. PCS
E1205	2W-2H	C0050	HINGE	4	C0380	CONNECTIONS BLOCKS C/GASK	1	E2103	2W-4H
E1230	2W-4H	C0090	CREMONE EURO	1	C0660	ADJUSTABLE TAB mm 17.2	8	E2110	4W-8H
E1236	1H	C0190	SINGLE/DOUBLE STRIKER	2	E2075	CORNER JOINT IN PCS	12	E2112	2W-4H
E1410	2W-4H	C0260	TERMINAL FOR ROD	2					
		C0330	WING CLOSING PLUG	1					
		C0350	DRAIN HOLE COVER R40/50	3					

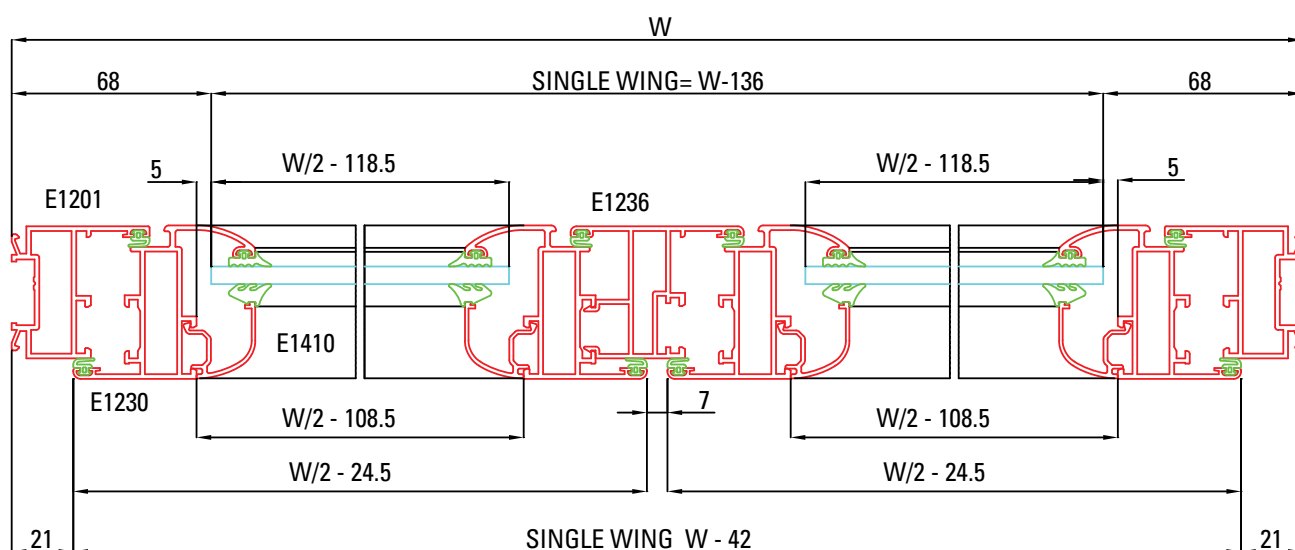
INSIDE OPEN WINDOWS - OVERLAP



section
vertical



section
horizontal



INSIDE OPEN WINDOWS - OVERLAP

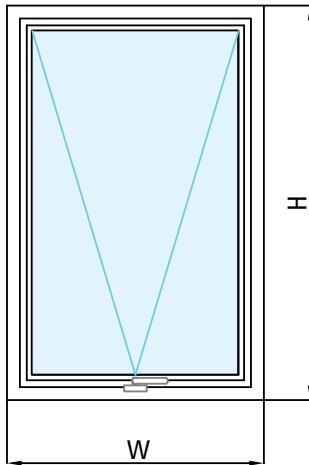
SINGLE WING

PROFILE			ACCESSORIES			ACCESSORIES			GASKET	
NUMBER	N. PCS		ITEM	DESCRIPTIONS	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	N. PCS
E1201	2W-2H		C0080	HINGE	2	C0660	ADJUSTABLE TAB mm 17.2	6	E2103	2W-2H
E1230	2W-2H		C0090	CREMONE EURO	1	E2075	CORNER JOINT IN PCS	8	E2110	4W-4H
E1410	2W-2H		C0190	SINGLE/DOUBLE STRIKER	2				E2112	2W-2H
			C0260	TERMINAL FOR ROD	2					
			C0350	DRAIN HOLE COVER	2					
			C0380	CONNECTIONS BLOCKS C/GASK	1					

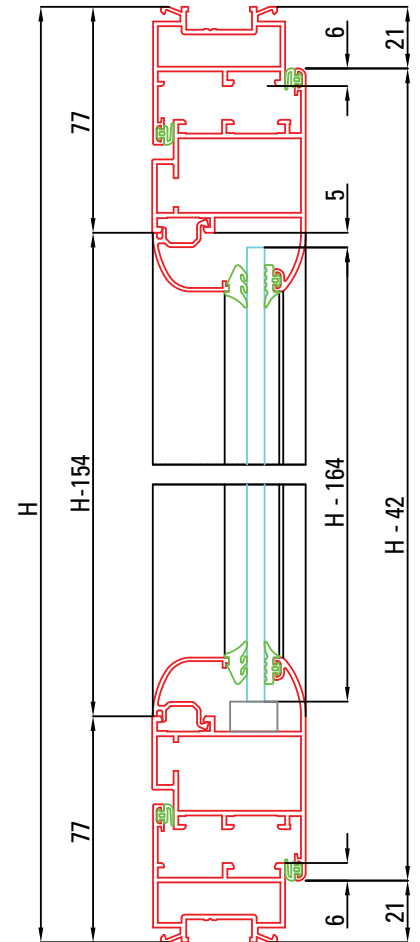
DOUBLE WING

PROFILE			ACCESSORIES			ACCESSORIES			GASKET	
NUMBER	N. PCS		ITEM	DESCRIPTIONS	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	N. PCS
E1201	2W-2H		C008	HINGE	4	C038	CONNECTIONS BLOCKS C/GASK	1	E2103	2W-4H
E1230	2W-4H		C009	CREMONE EURO	1	C066	ADJUSTABLE TAB mm 17.2	8	E2110	4W-8H
E1236	1H		C019	SINGLE/DOUBLE STRIKER	2	C081	CORNER JOINT SCREW HOLLOW 11 12		E2112	2W-4H
E1410	2W-4H		C026	TERMINAL FOR ROD	2	C0620/	ADJUSTABLE BOLT	1		
			C033	WING CLOSING PLUG	1	C0620.1				
			C035	DRAIN HOLE COVER R40/50	3					

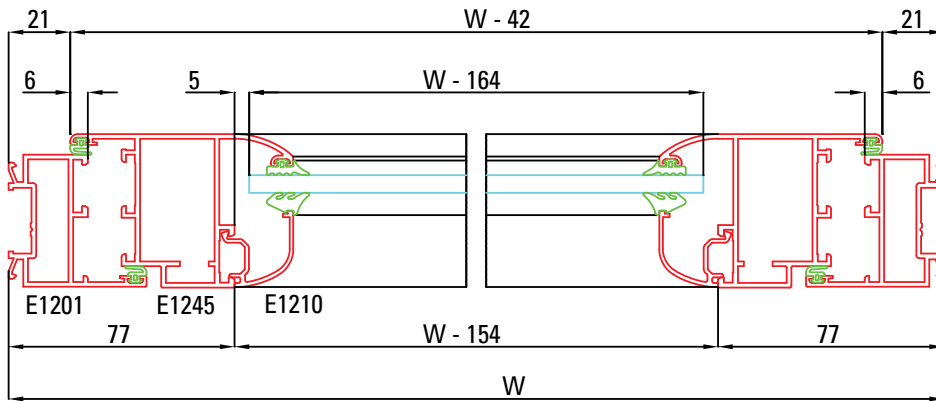
TOP HUNG WINDOW: FRAME OVERLAP



section
vertical

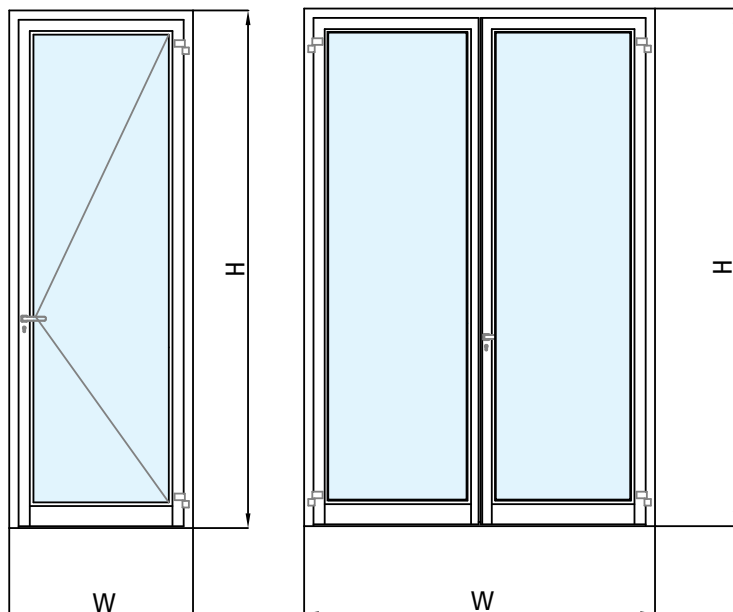


section
horizontal

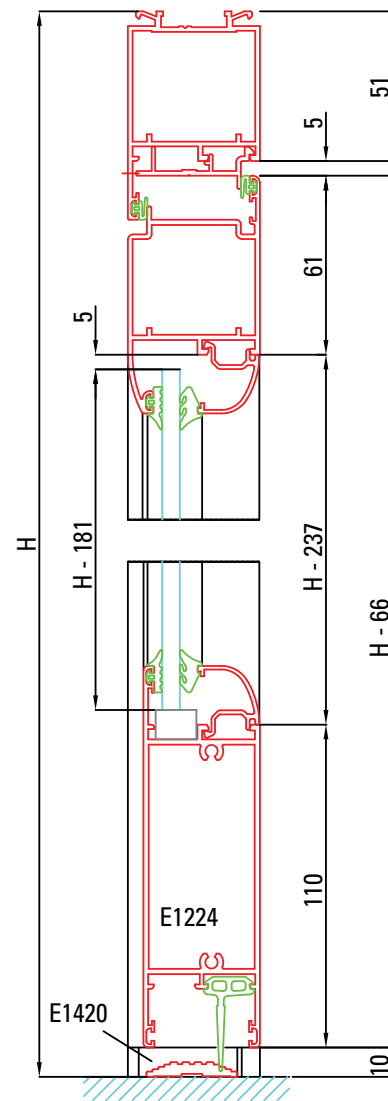


PROFILE		ACCESSORIES			GASKET	
NUMBER	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	N. PCS
E1201	2W-2H	C0080	HINGE	2	E2103	2W-2H
E1245	2W-2H	C0200	SAMBA-FLAT WINDOW HANDLE	1	E2110	4W-4H
E1410	2W-2H	C0230	LASER TELESCOPIC ROD INOX	1	E2112	2W-2H
		C0660	ADJUSTABLE TAB mm 17.2	6		
		E1416	CORNER JOINT FOR SHUTTER	4		
		E2075	CORNER JOINT FOR FRAME	4		

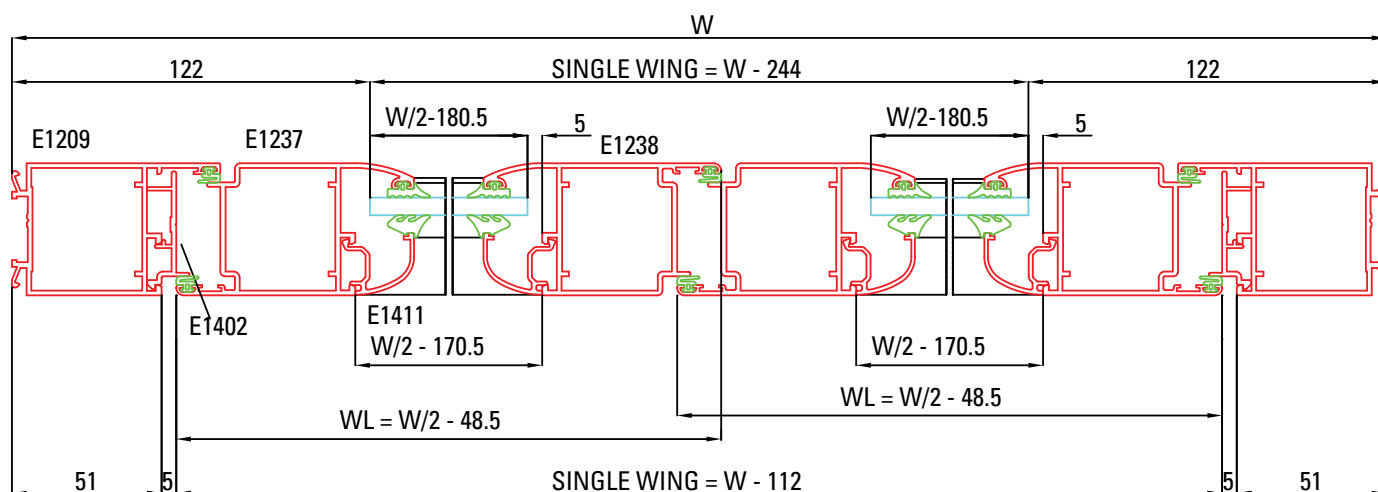
DOOR OPEN INSIDE



section
vertical



section
horizontal



DOOR OPEN INSIDE

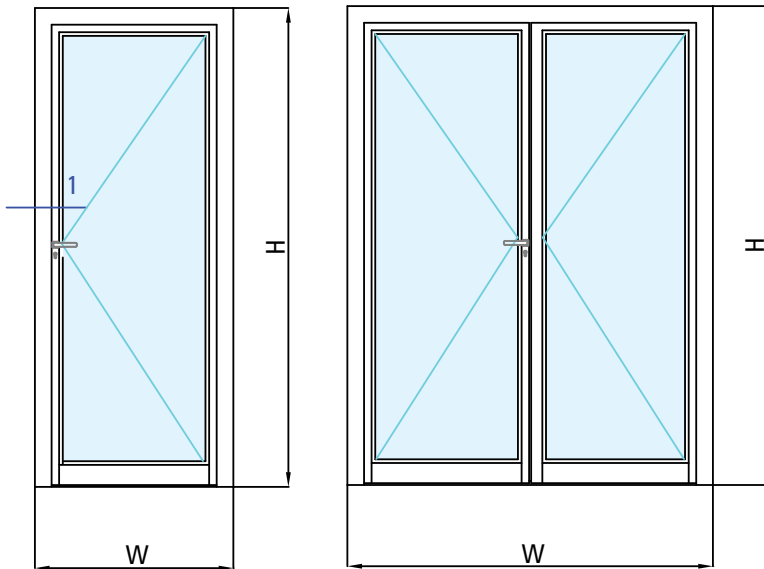
SINGLE WING

PROFILE		ACCESSORIES			GASKET	
NUMBER	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	N. PCS
E1209	1W-2H	C0010	HINGE 2 WINGS	2	E2103	4W-2H
E1237	1W-2H	C0400	HANDLE MASTER	1	E2110	2W-4H
E1411	4W-2H	C0660	ADJUSTABLE TAB mm 17.2	8	E2112	4W-2H
E1225	1W	E2075	CORNER JOINT IN PCS	4	E2114	1W
E1224	1W	---	LOCK	1		
E1402	1W-2H					
E1420	1W					

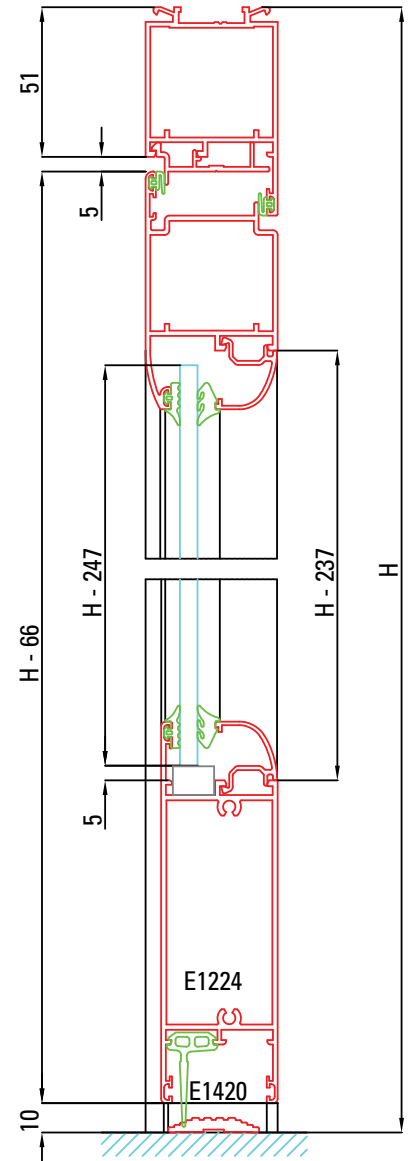
DOUBLE WING

PROFILE		ACCESSORIES			ACCESSORIES			GASKET	
NUMBER	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	N. PCS
E1209	1W-2H	C0010	HINGE 2 WINGS	4	E2075	CORNER JOINT IN PCS	6	E2103	4W-4H
E1237	1W-3H	C0180	STRIKER PESOS/SUPERGIAP	1	---	LOCK	1	E2110	2W-6H
E1238	1H	C0270	PESOS FLUSH BOLT FOR DOOR	2				E2112	4W-4H
E1411	4W-4H	C0280	SAFETY TERMINAL FOR 2150	2				E2114	1W
E1225	1W	C0290	BUSH FOR THRESHOLD	1					
E1224	1W	C0400	HANDLE MASTER	1					
E1402	1W-2H	C0660	ADJUSTABLE TAB mm 17.2	10					
E1420	1W	C0730	CENTRAL PLUG DOUBLE SASH	2					

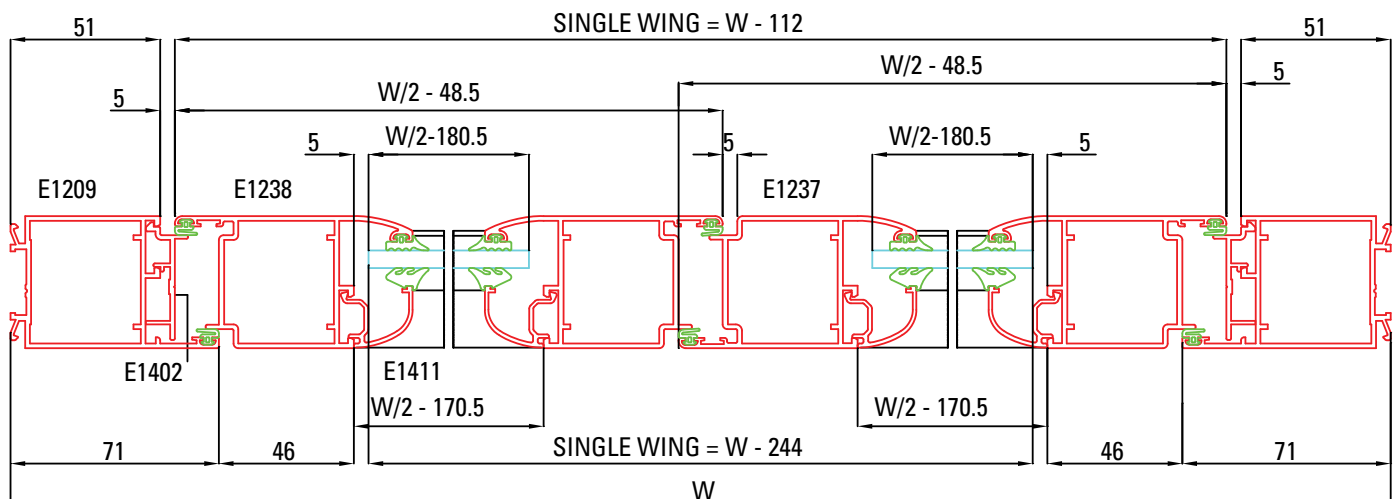
DOOR OPEN OUTSIDE



section
vertical



section
horizontal



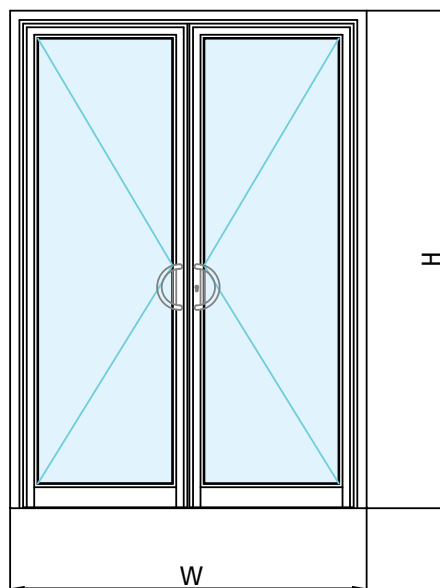
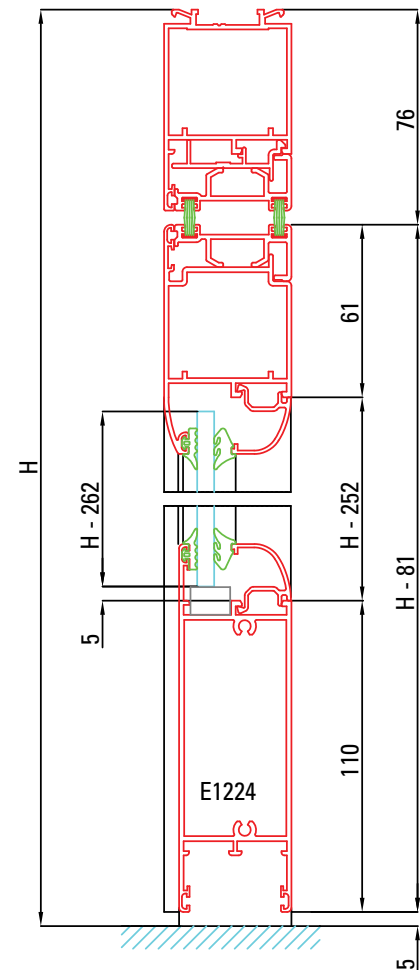
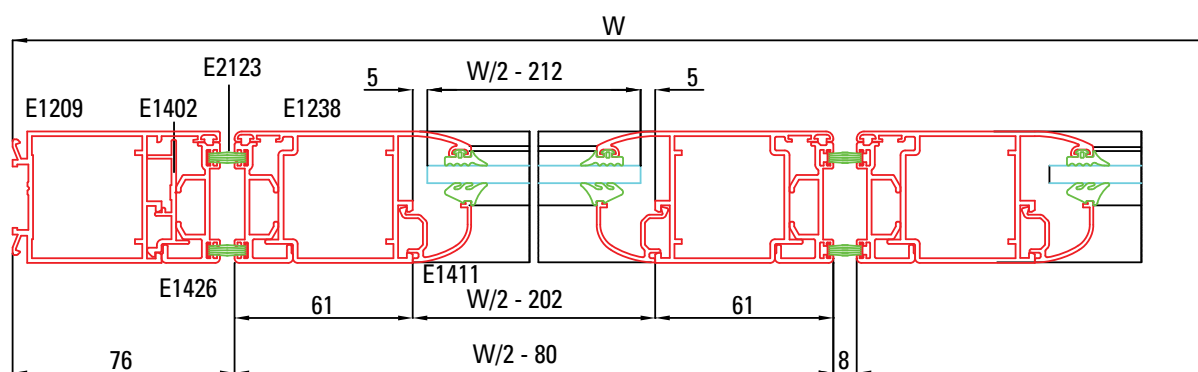
DOOR OPEN OUTSIDE

SINGLE WING

PROFILE		ACCESSORIES			GASKET	
NUMBER	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	N. PCS
E1209	1W-2H	C0010	HINGE	2	E2103	2W-2H
E1224	1W	C0180	ROD STRIKER	1	E2110	2W-4H
E1238	1W-2H	C0400	HANDLE MASTER	1	E2112	2W-2H
E1402	1W-2H	C0660	ADJUSTABLE TAB mm 17.2	8	E2114	1W
E1411	2W-2H	E1417	CORNER JOINT IN PCS	2		
E1420	1W	---	LOCK	1		

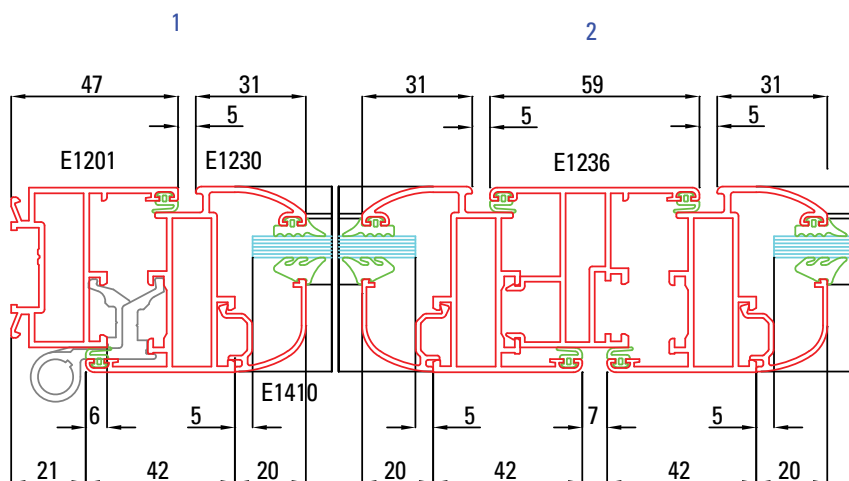
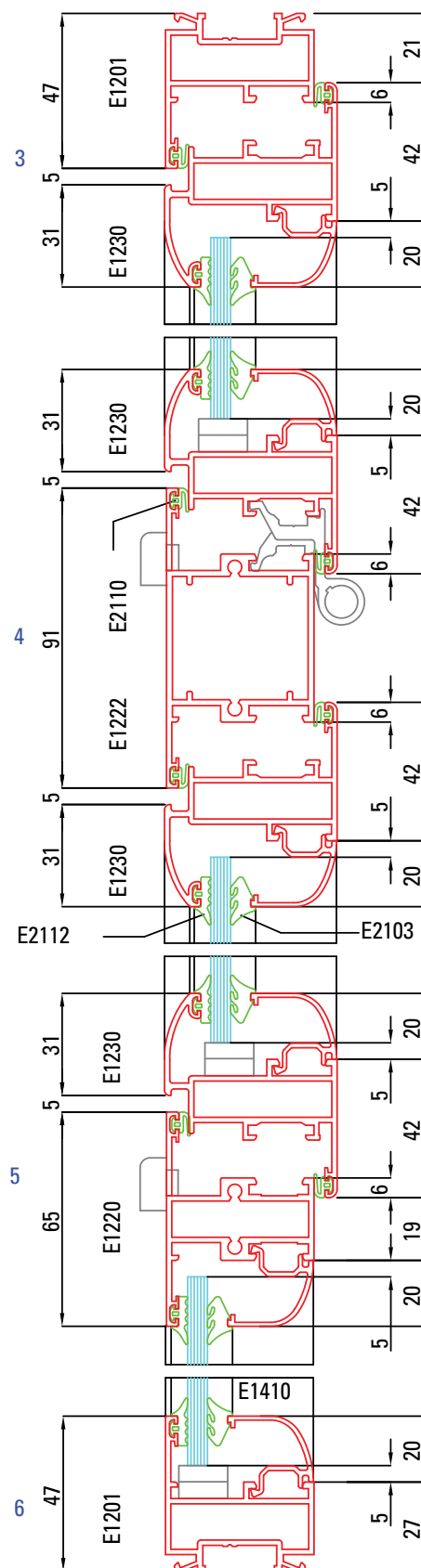
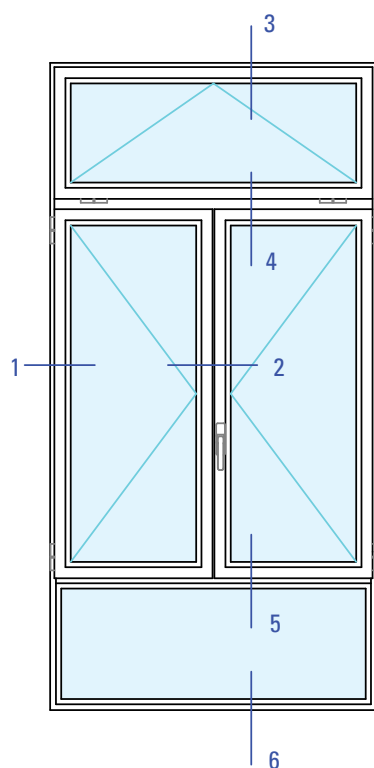
DOUBLE WING

PROFILE		ACCESSORIES			ACCESSORIES			GASKET	
NUMBER	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	N. PCS
E1209	1W-2H	C0010	HINGE	4	E1417	CORNER JOINT IN PCS	4	E2103	2W-4H
E1224	1W	C0180	ROD STRIKER	1	---	LOCK	1	E2110	2W-6H
E1237	1H	C0270	PESOS FLUSH BOLT FOR DOOR	2				E2112	2W-4H
E1238	1W-3H	C0280	SAFETY TERMINAL FOR 2150	2				E2114	1W
E1402	1W-2H	C0290	BUSH FOR THRESHOLD	1					
E1411	2W-4H	C0400	HANDLE MASTER	1					
E1420	1W	C0660	ADJUSTABLE TAB mm 17.2	10					
		C0730	CENTRAL PLUG DOUBLE SASH	2					

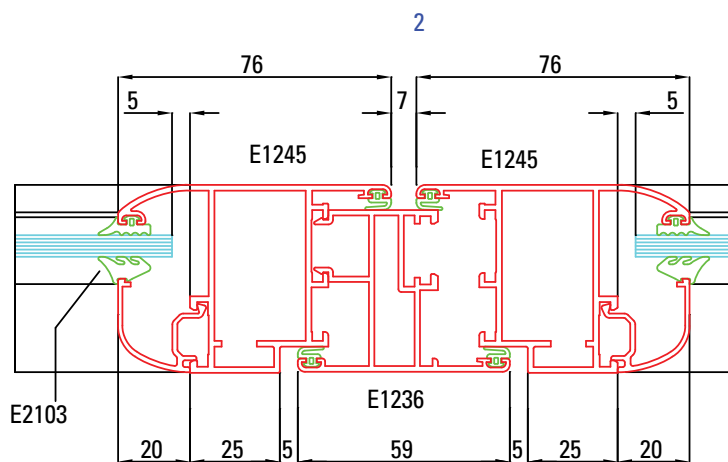
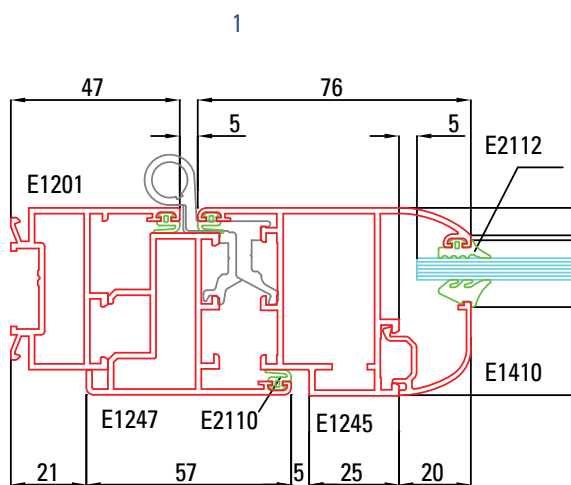
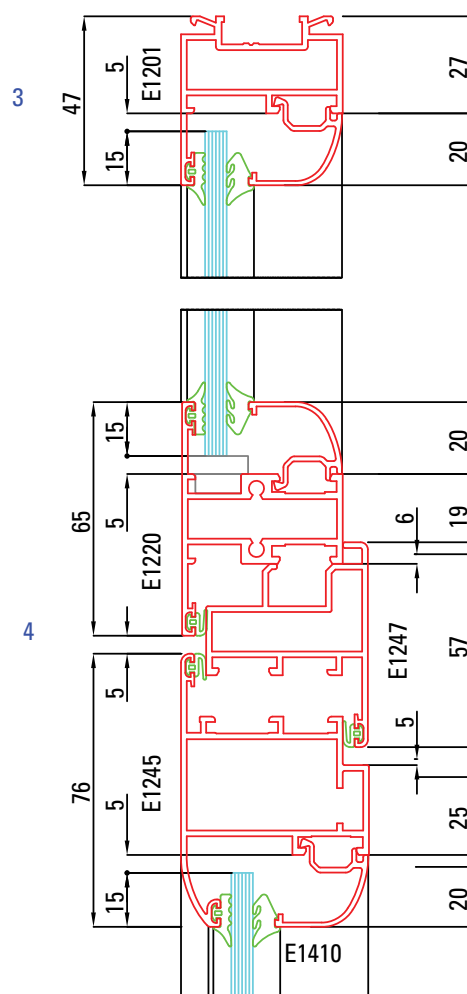
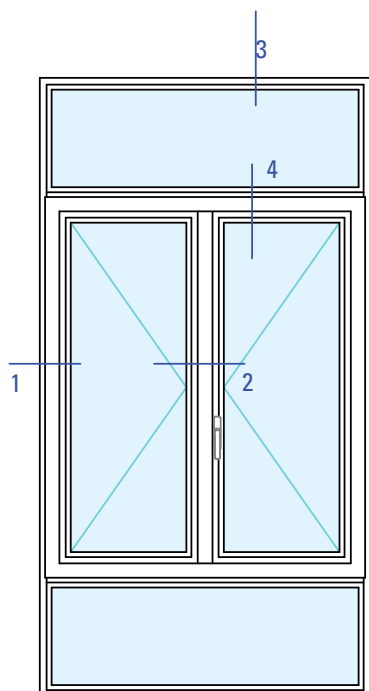
SWING DOORsection
verticalsection
horizontal

PROFILE		ACCESSORIES		ACCESSORIES		GASKET	
NUMBER	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	DESCRIPTIONS	N. PCS
E1209	1W-2H	C0180	STRIKER PESOS/SUPERGIAP	1		PIVOT HINGE FOR SWING DOORS	2
E1224	1W	C0270	PESOS FLUSH BOLT FOR DOOR	2		FLOOR CONCEALED DOOR-CLOSER	2
E1238	1W-4H	C0280	SAFETY TERMINAL FOR 2150	2		LOCK	1
E1402	1W-2H	C0290	BUSH FOR THRESHOLD	1			
E1411	2W-4H	C0420	BIKE DOOR HANDLE NYLON DOUBLE CURVE	1			
E1426	2W-6H	C0460	ASSEMBLY KIT ALUMINIUM DOUBLE	1			
		E2075	CORNER JOINT IN PCS	6			
						POLIBOND PB 48.700 3P	4W-12H

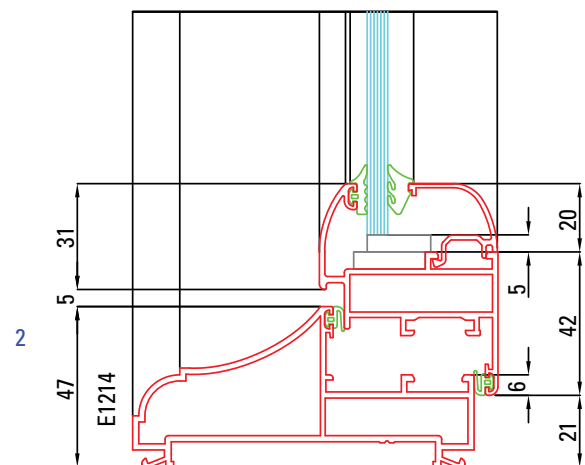
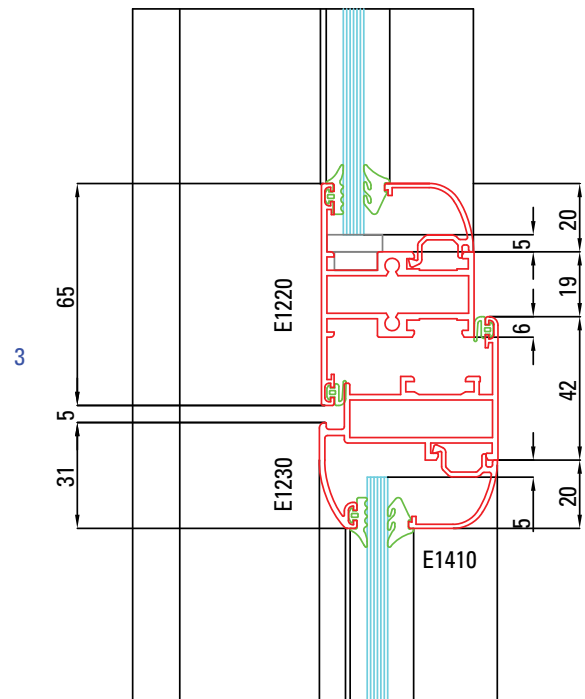
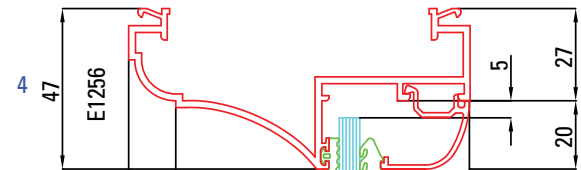
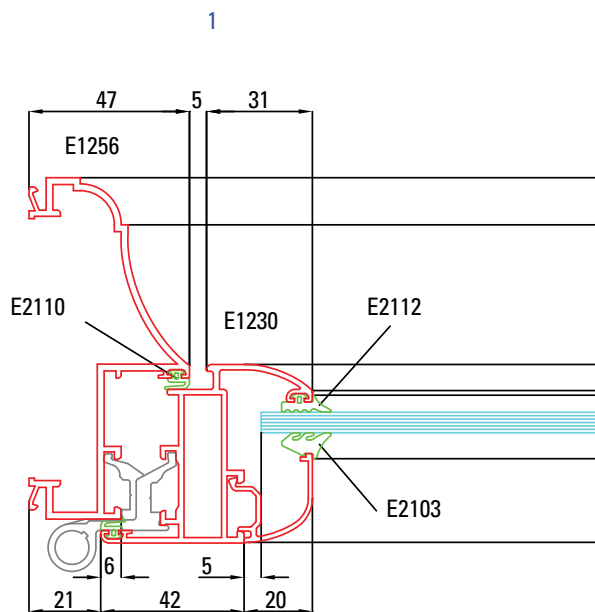
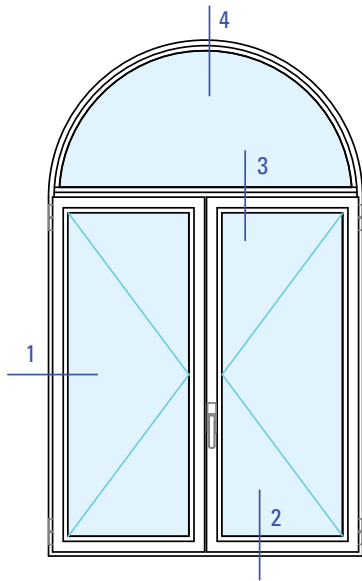
DOUBLE LEAF OPEN INSIDE, FIX LIGHT AT THE BOTTOM AND A BOTTTOM HUNG WINDOW AT THE TOP



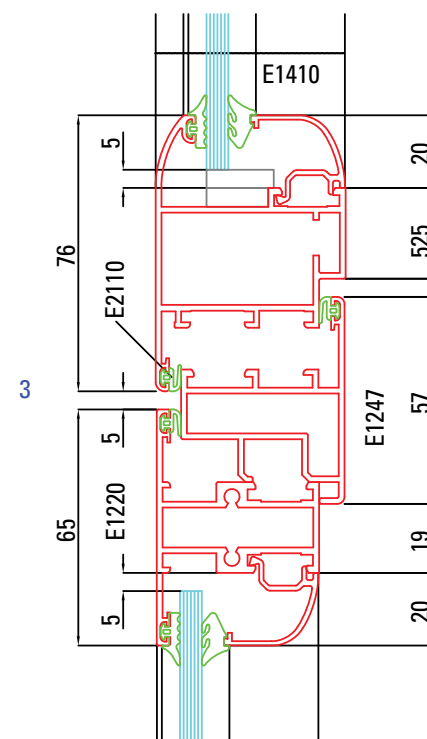
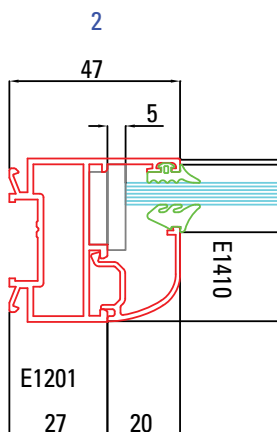
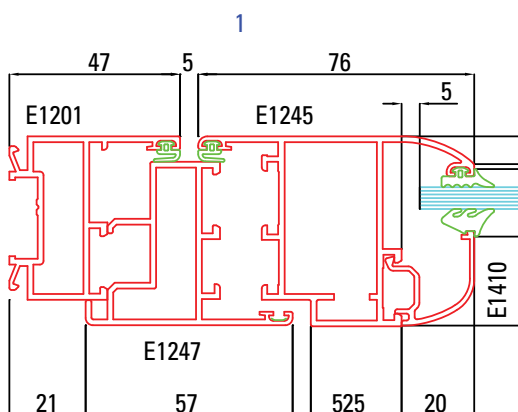
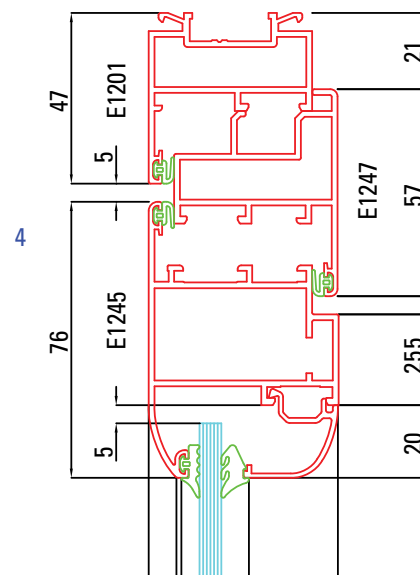
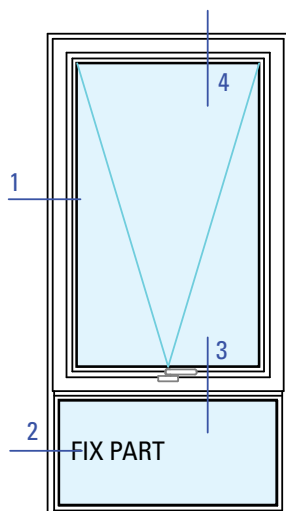
DOUBLE LEAF OPEN OUTSIDE & FIX LITES.



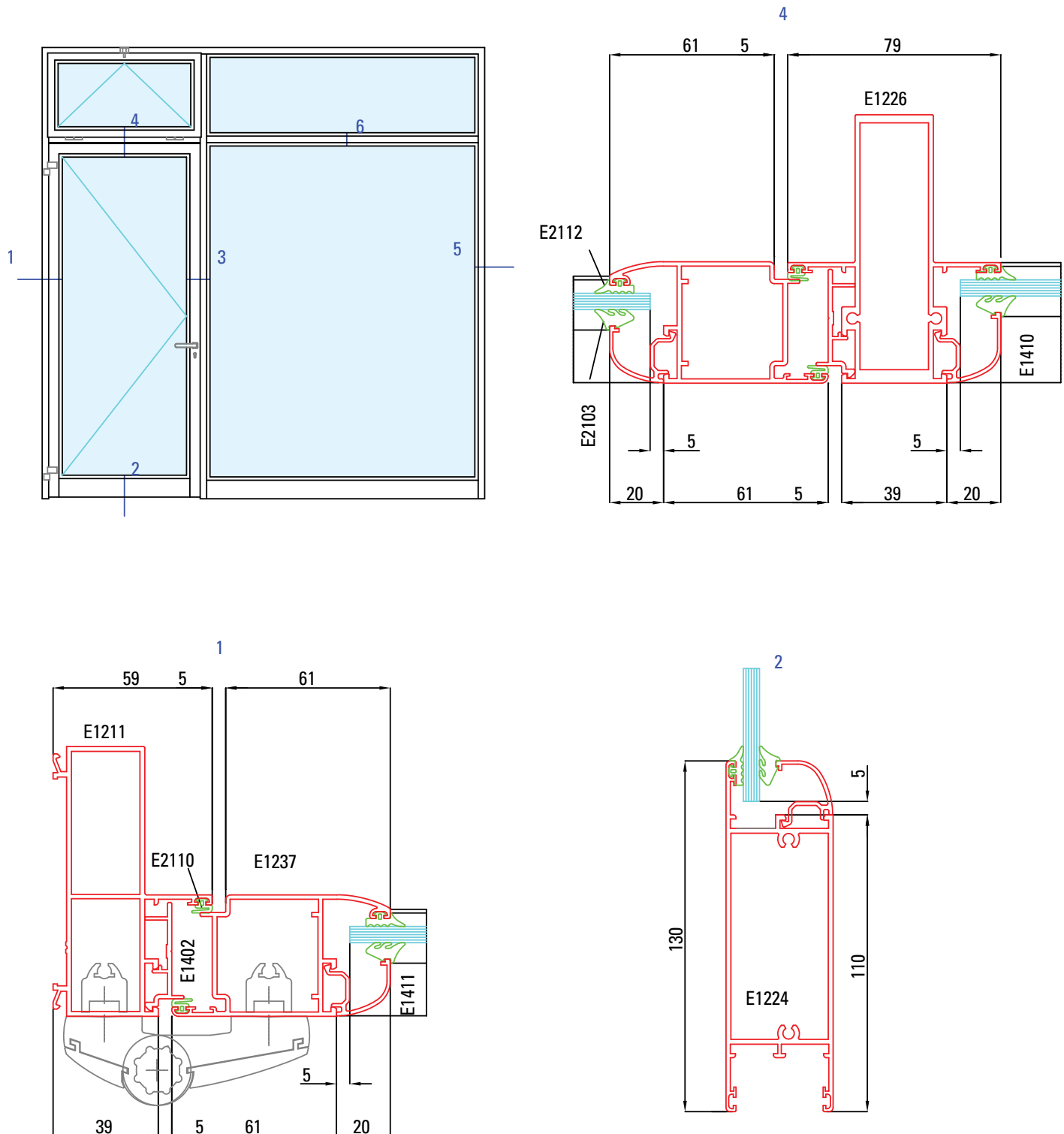
INSIDE OPEN HINGE WINDOW WITH TOP ARCH



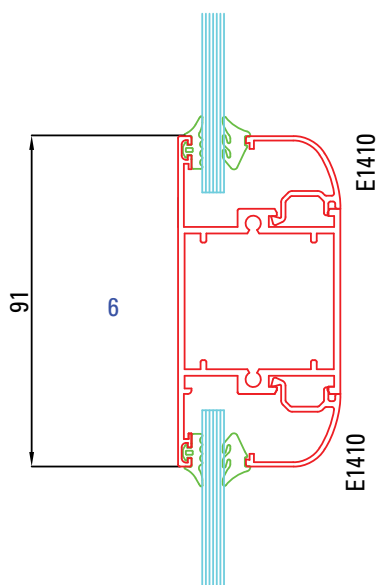
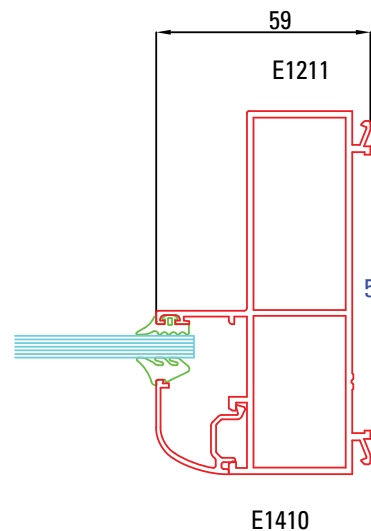
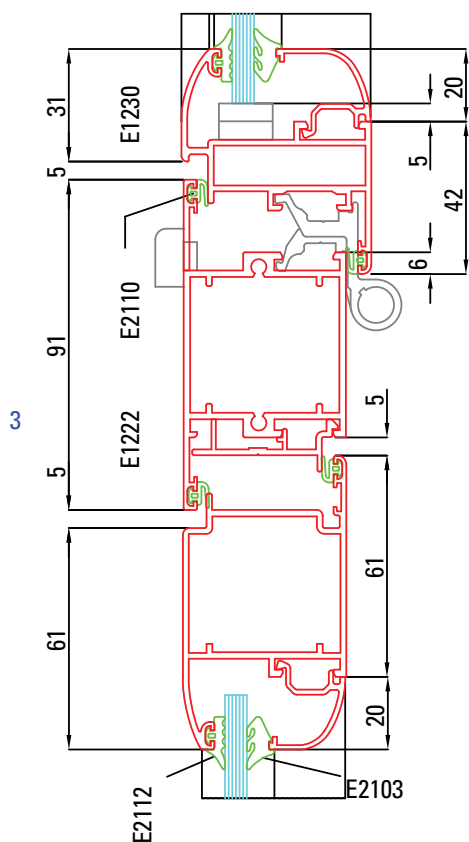
TOP HUNG WINDOW WITH FIX LITE



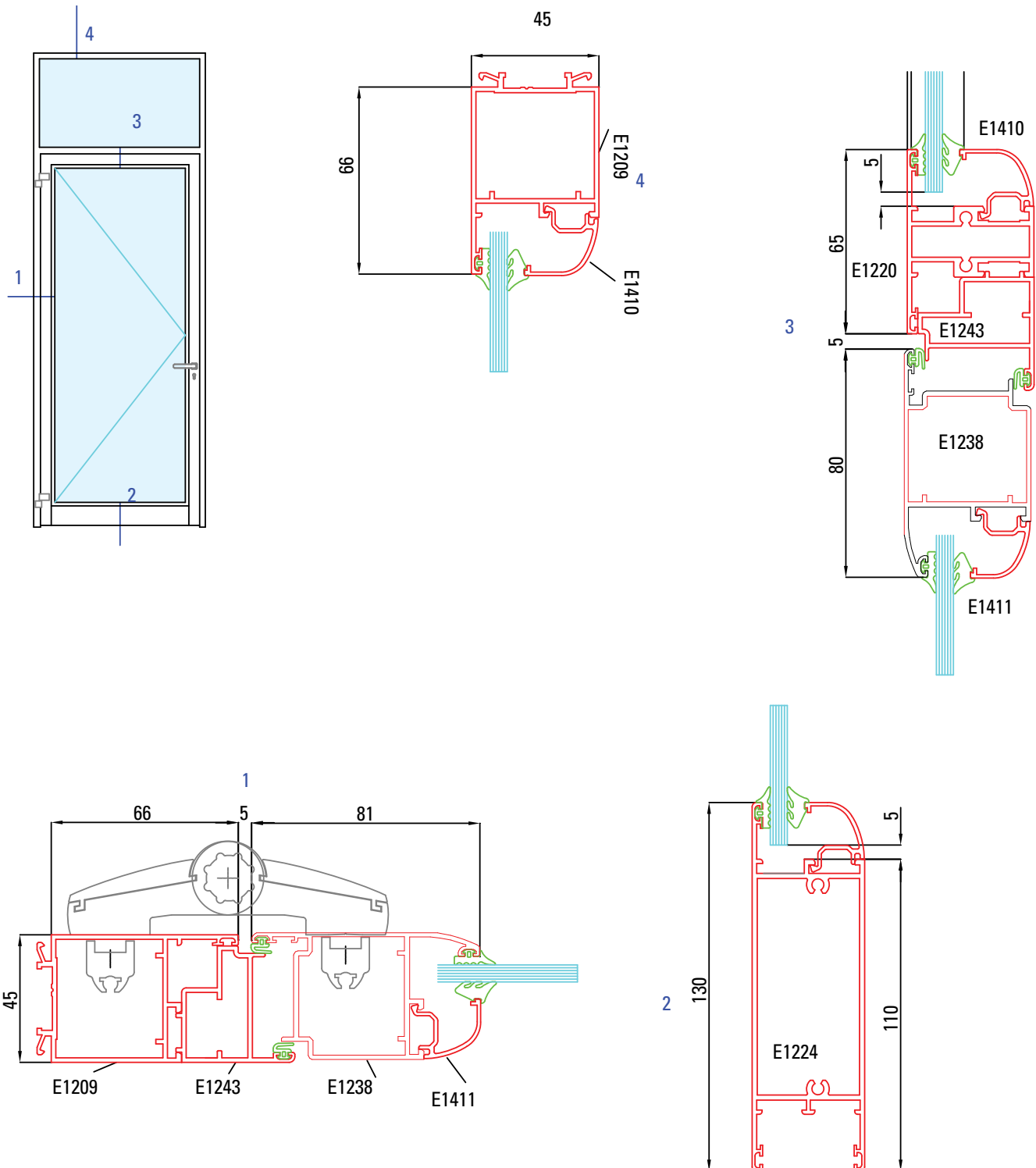
INSIDE OPEN DOOR WITH BOTTOM HUNG AND A FIX

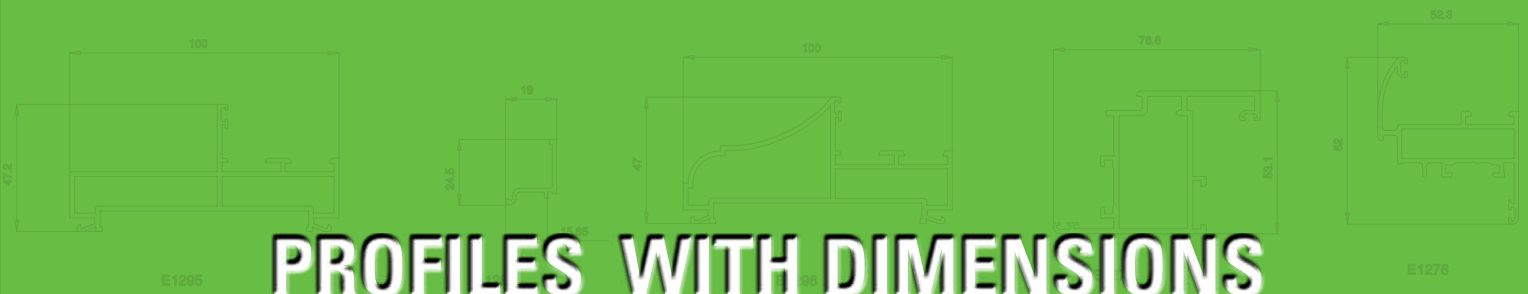
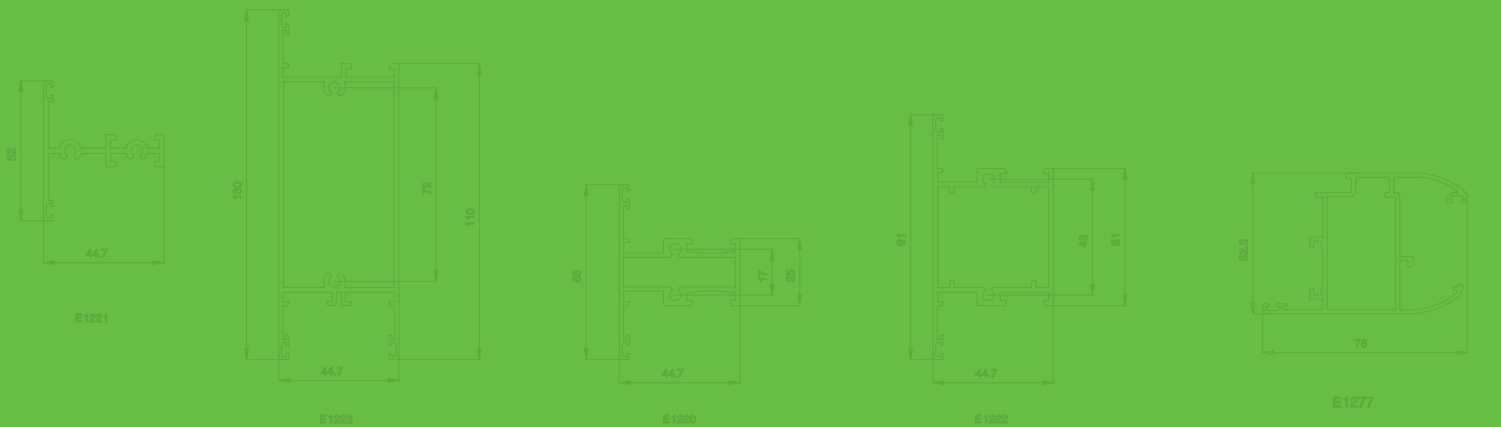


INSIDE OPEN DOOR WITH BOTTOM HUNG AND A FIX

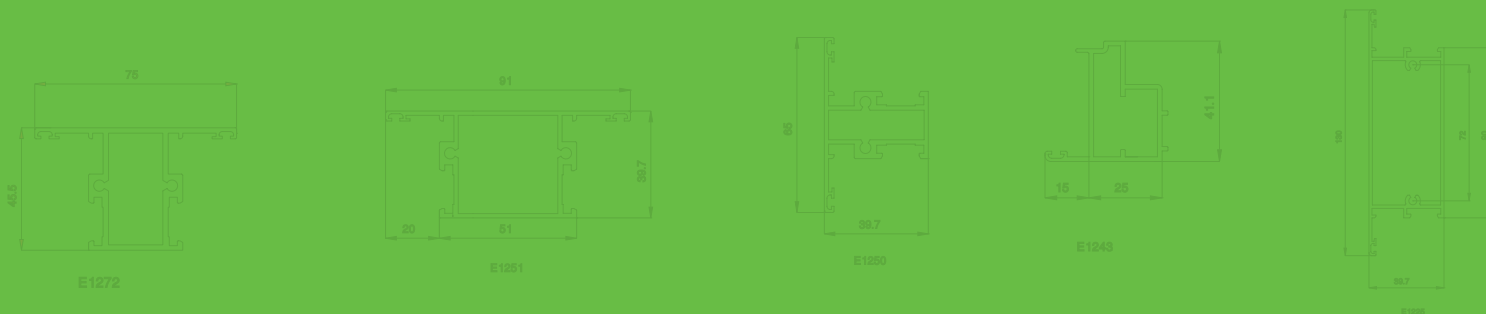
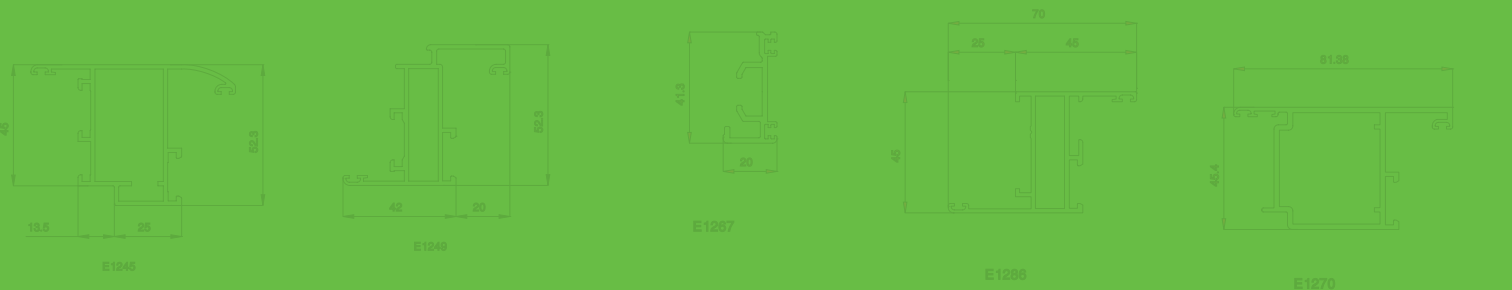
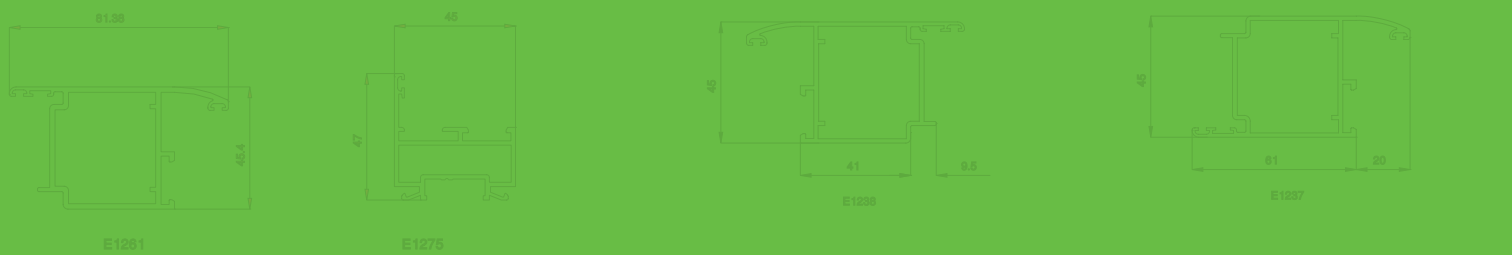


OUTSIDE OPEN DOOR WITH FIX LITE

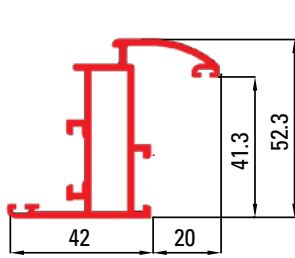




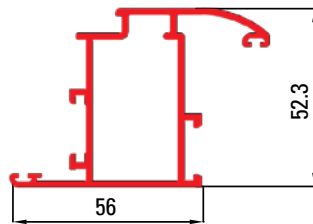
PROFILES WITH DIMENSIONS



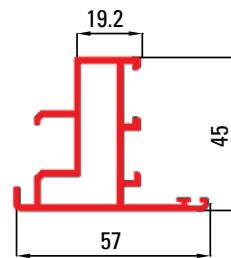
PROFILES WITH DIMENSIONS



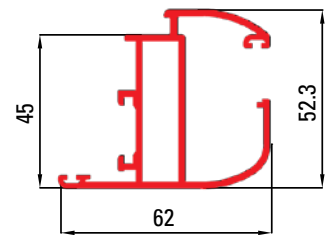
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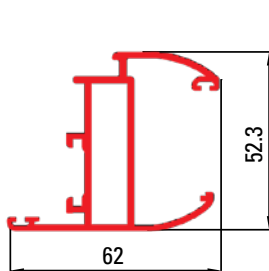
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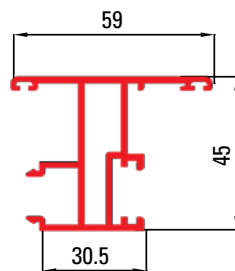
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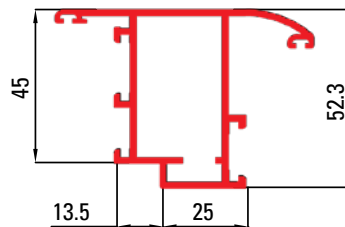
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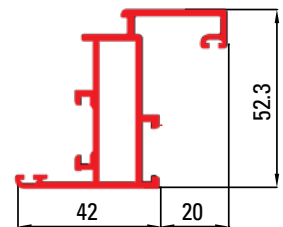
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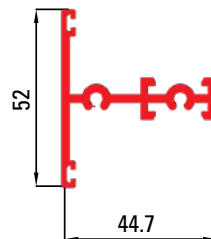
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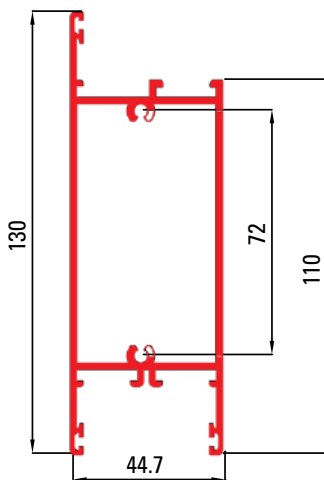
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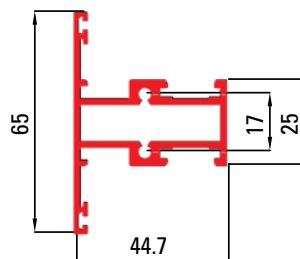
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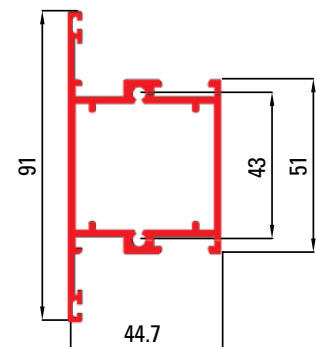
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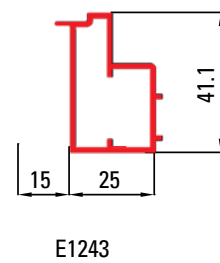
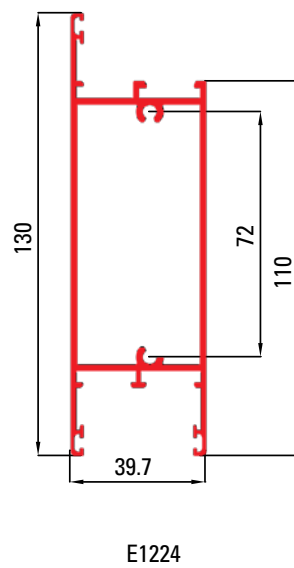
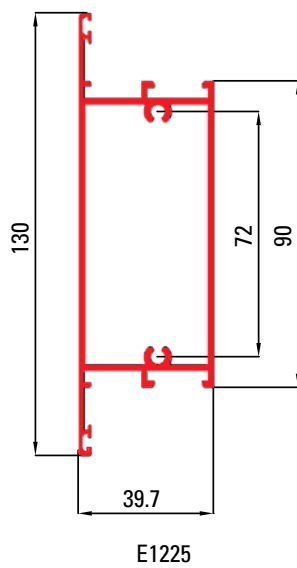
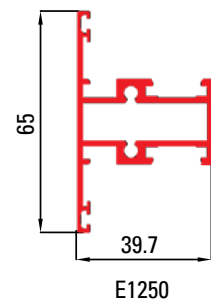
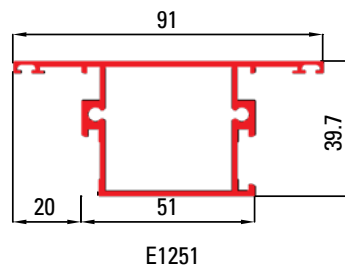
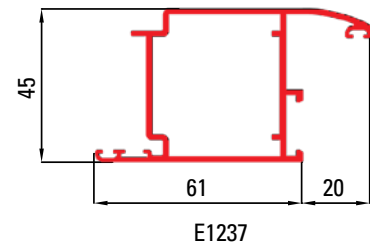
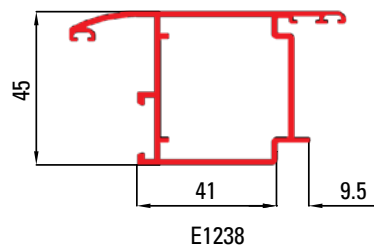


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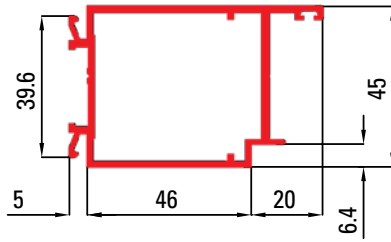


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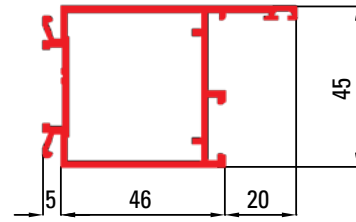
PROFILES WITH DIMENSIONS



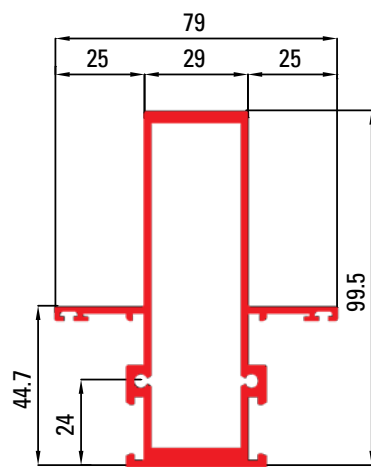
PROFILES WITH DIMENSIONS



E1208

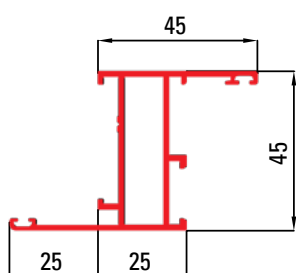


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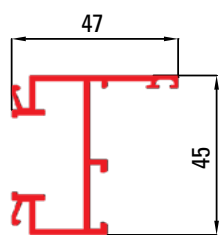


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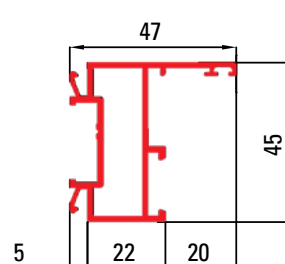
PROFILES WITH DIMENSIONS



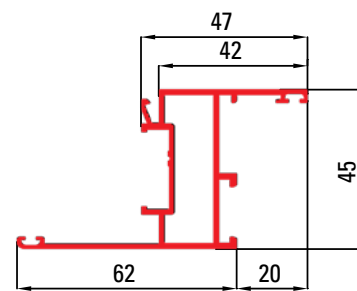
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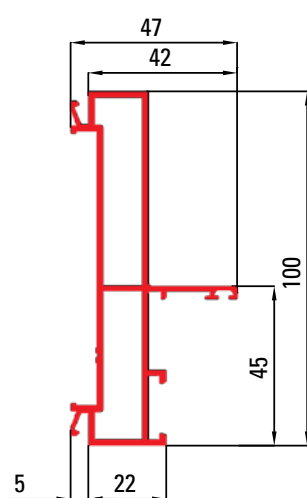
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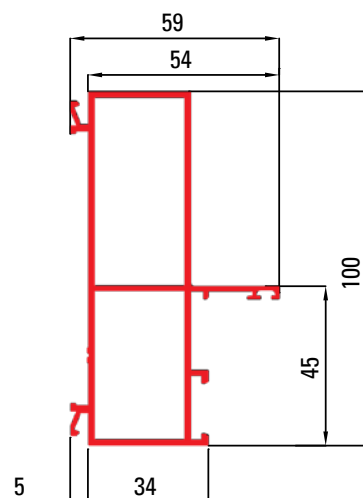
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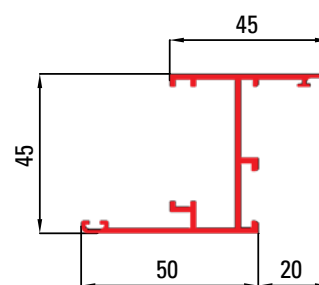
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E1210

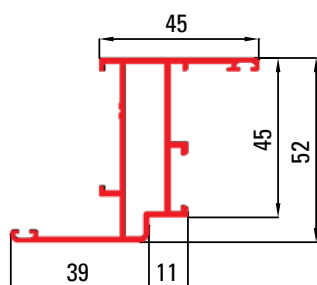


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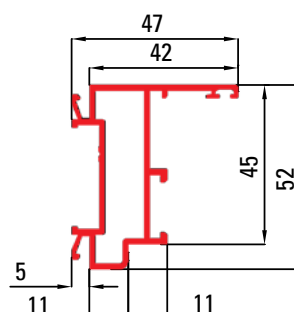


E1202

COPLANAR FRAME PROFILES

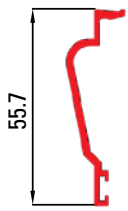


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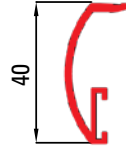


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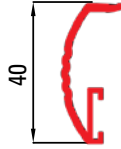
PROFILES WITH DIMENSIONS



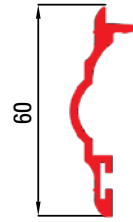
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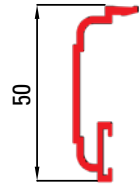
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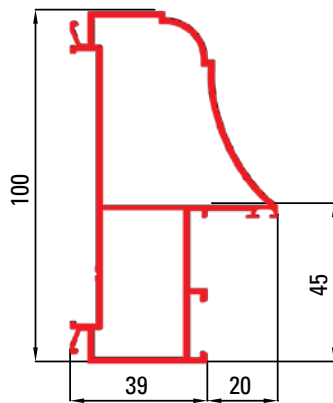


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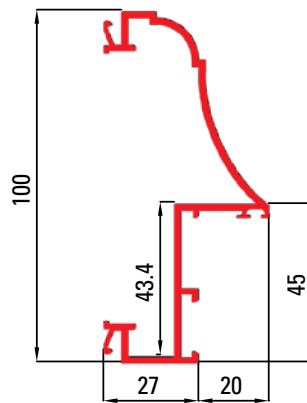


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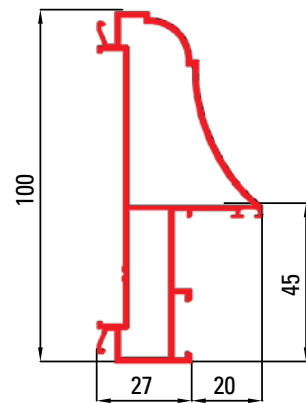
OPTIONAL FRAME



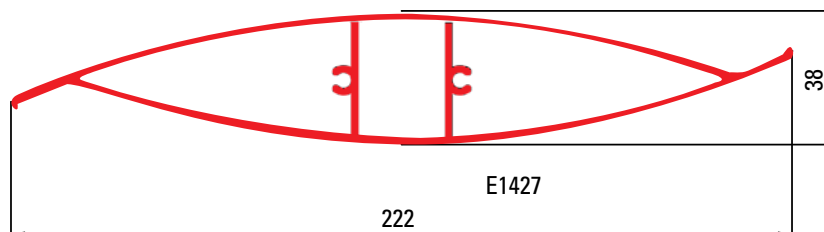
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E1256

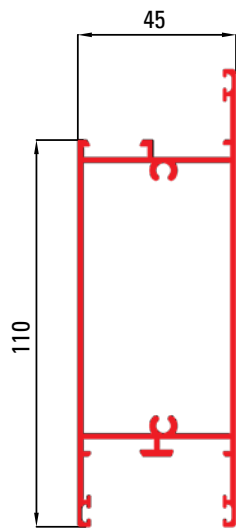


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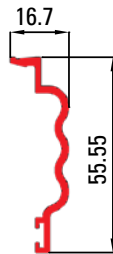


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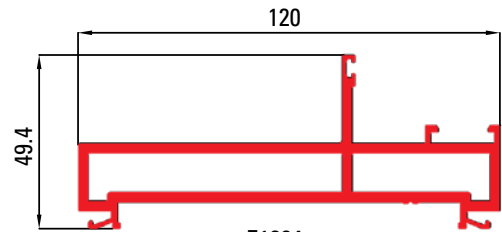
PROFILES WITH DIMENSIONS



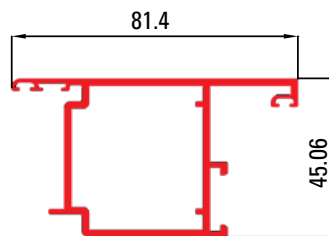
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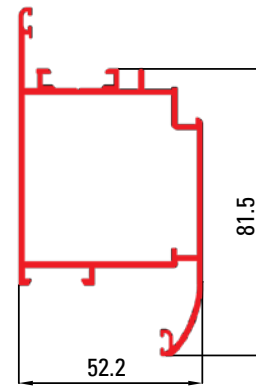
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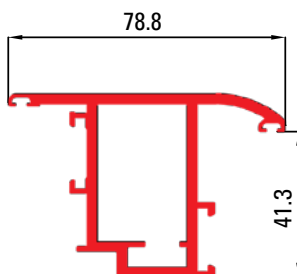
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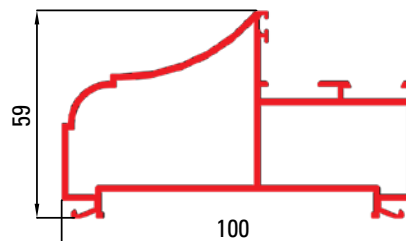
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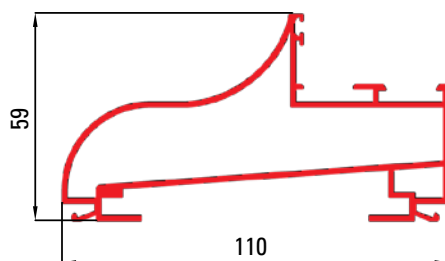
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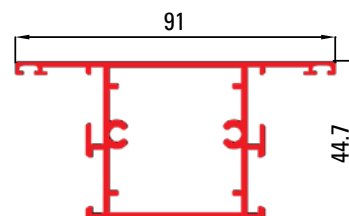
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E1248

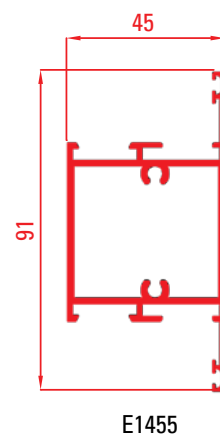
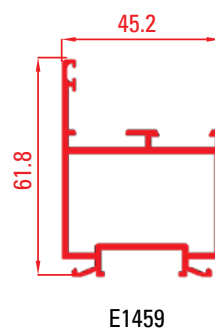
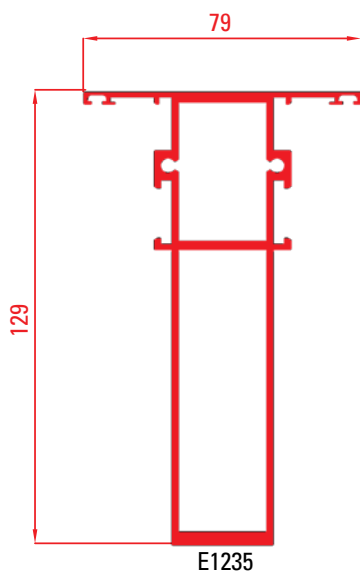
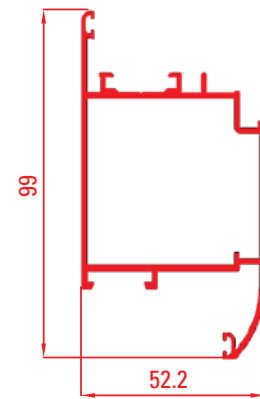
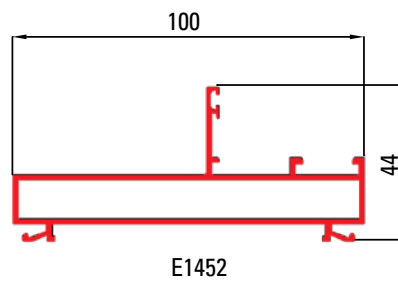
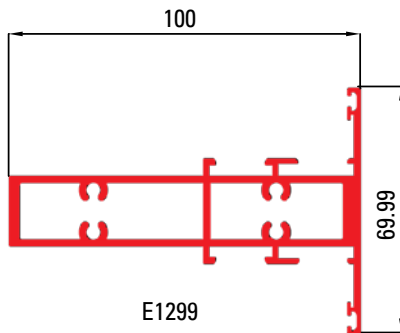
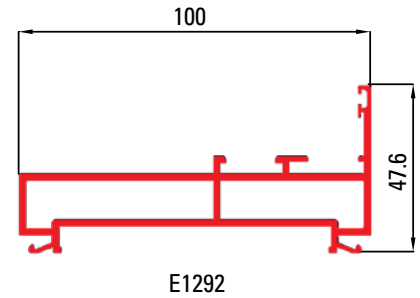
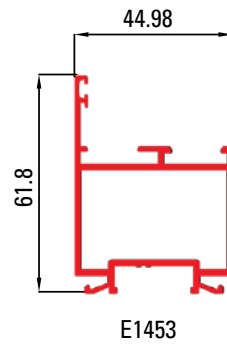
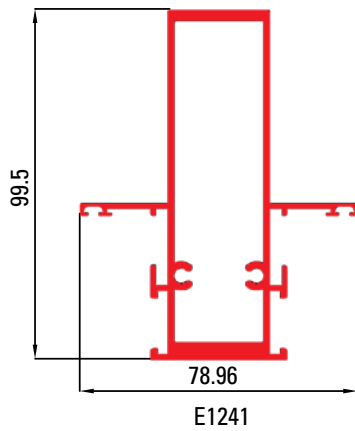


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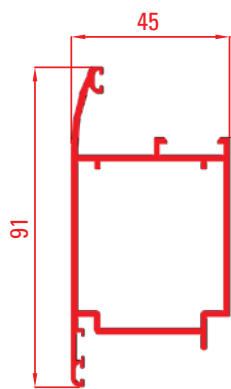


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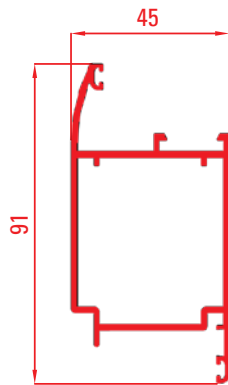
PROFILES WITH DIMENSIONS



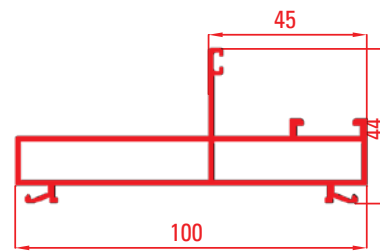
PROFILES WITH DIMENSIONS



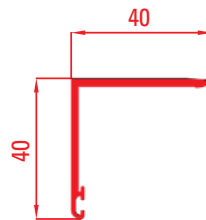
E1457



E1454

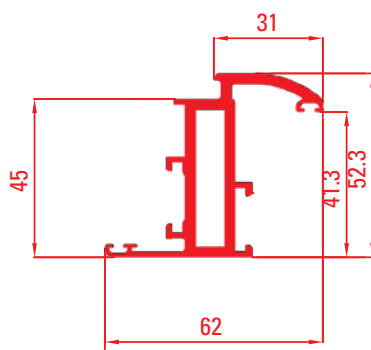


E2092

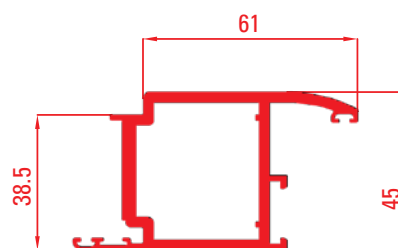


E2059

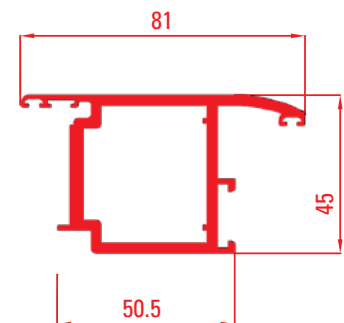
3MM THK PROFILES



E1601



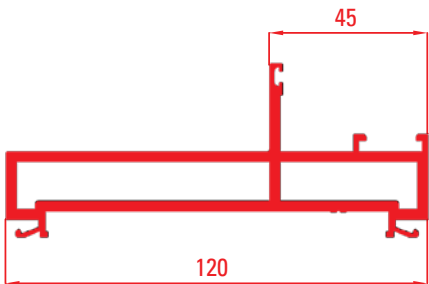
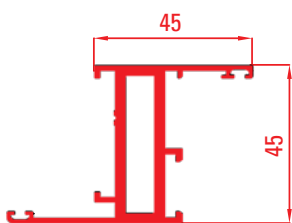
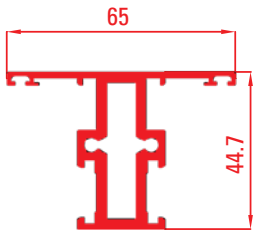
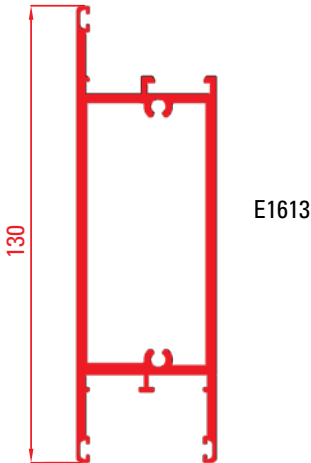
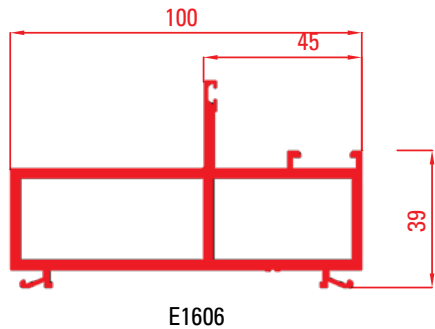
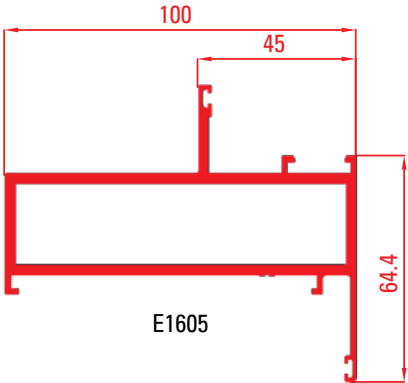
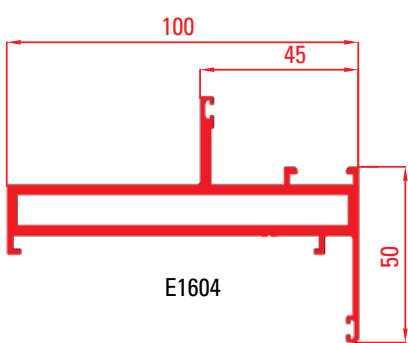
E1602



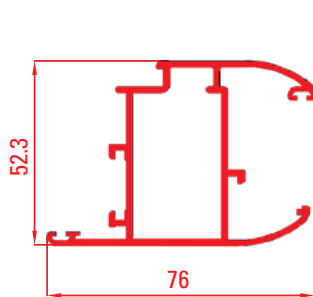
E1603

PROFILES WITH DIMENSIONS

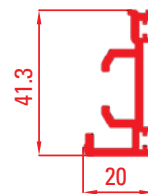
3MM THK PROFILES



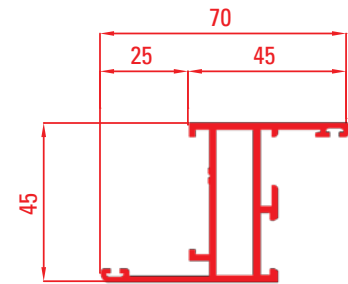
PROFILES WITH DIMENSIONS



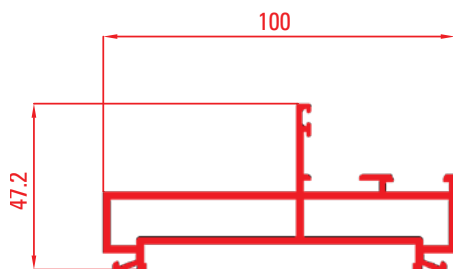
E1277



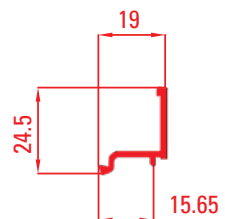
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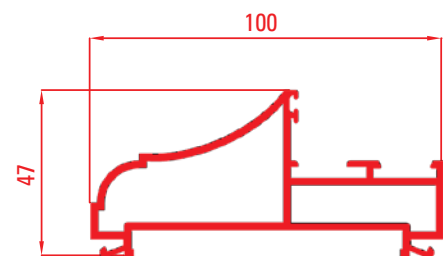
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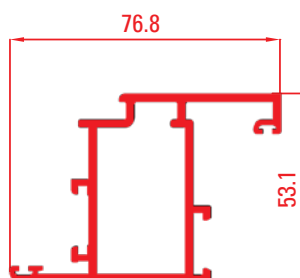
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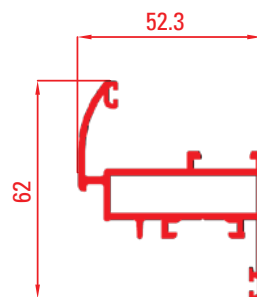
E1269



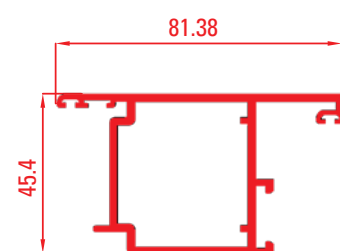
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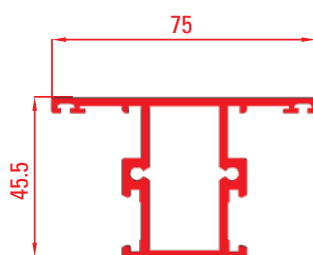
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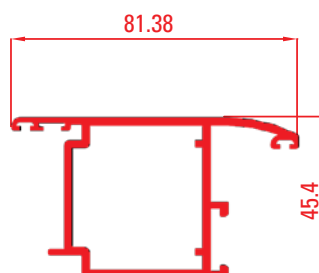
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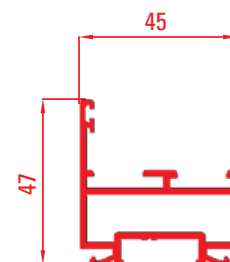
E1270



E1272

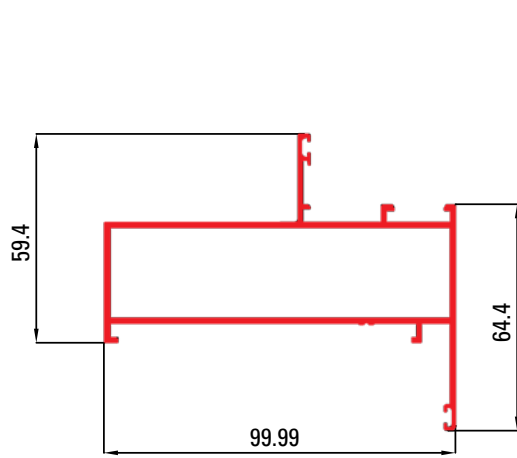


E1261

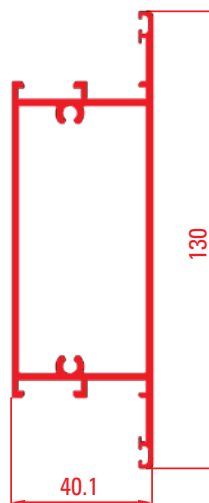


E1275

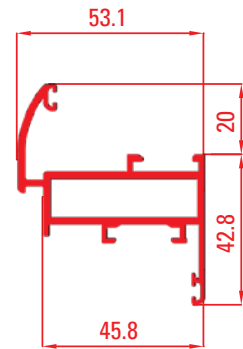
PROFILES WITH DIMENSIONS



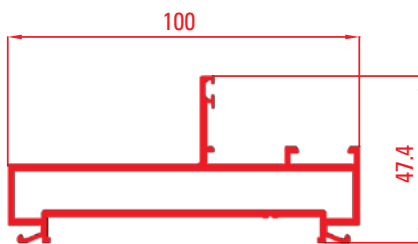
E1282



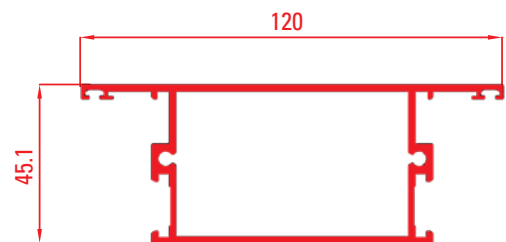
E1266



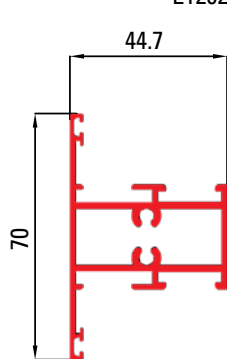
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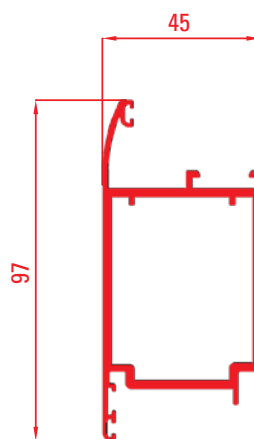
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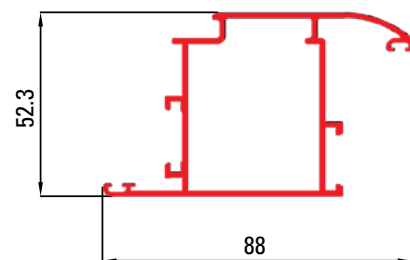
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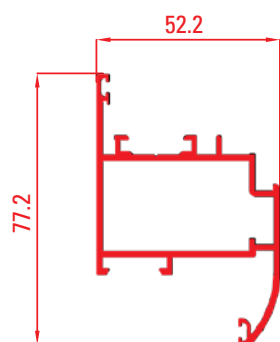
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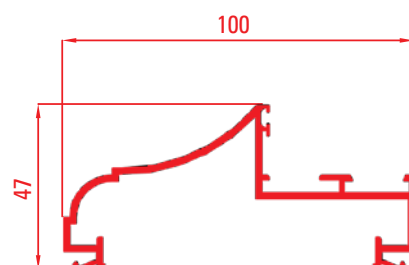
E1240



E1287

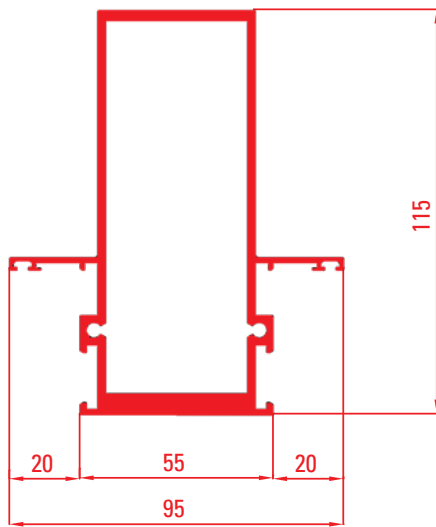


E1298

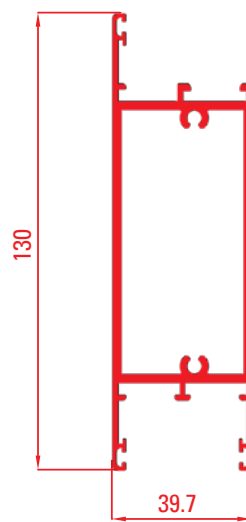


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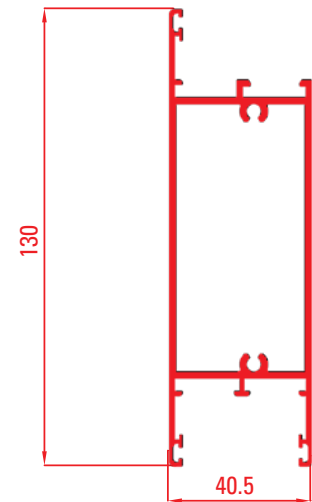
PROFILES WITH DIMENSIONS



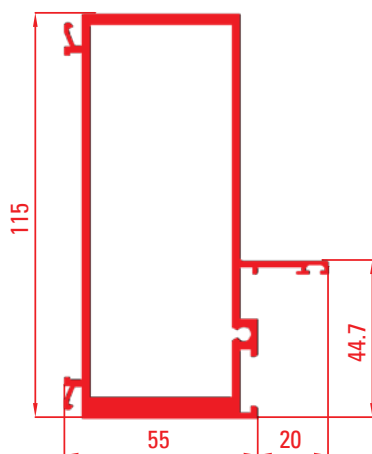
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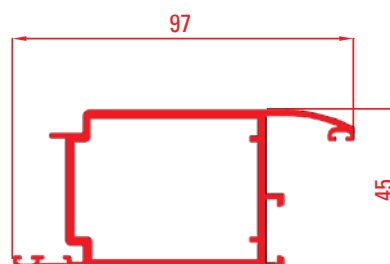
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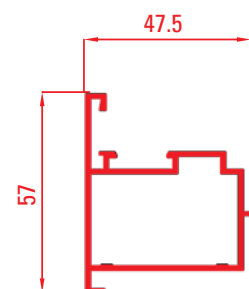
E1257



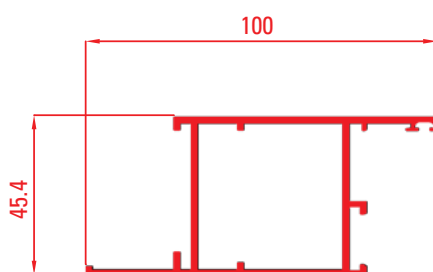
E1234



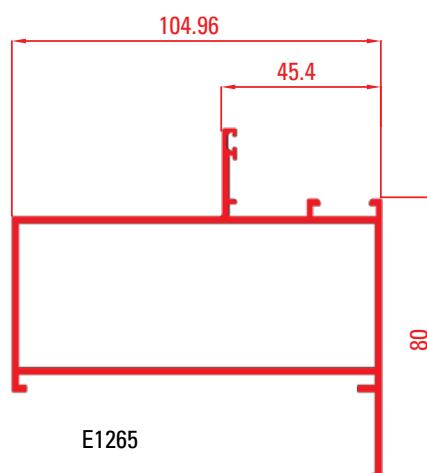
E1239



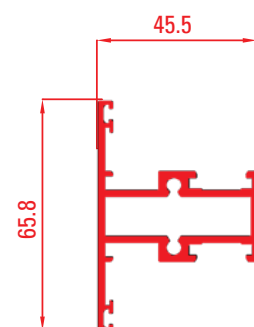
E1227



E1264

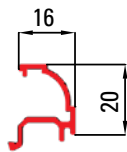


E1265



E1258

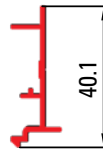
PROFILES WITH DIMENSIONS



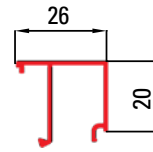
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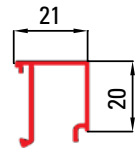
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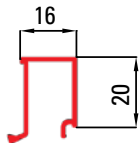
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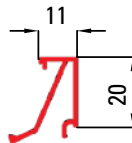
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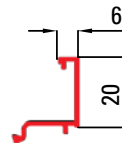
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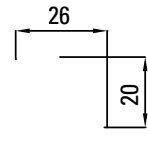
E1405



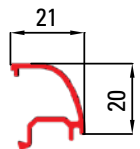
E1406



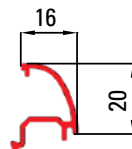
E1407



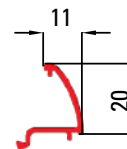
E1410



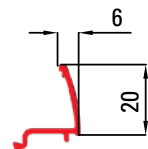
E1411



E1412



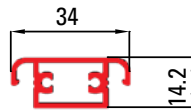
E1413



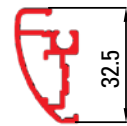
E1414



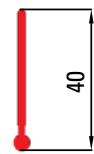
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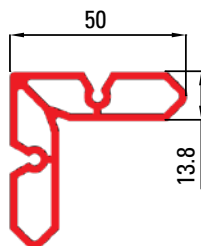
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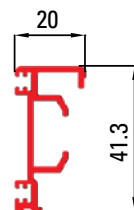
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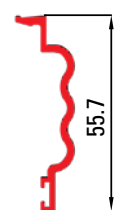
E1423



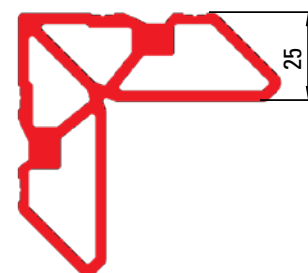
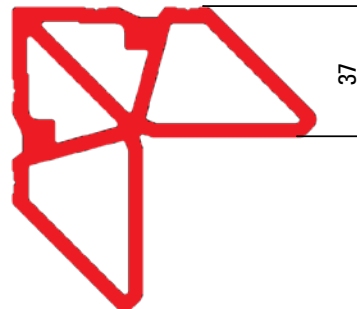
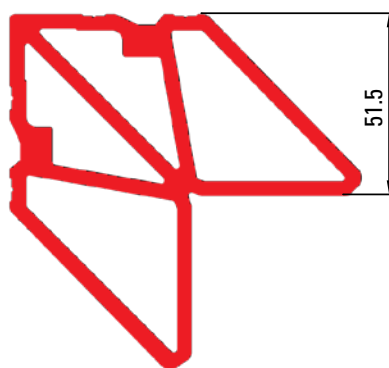
E1419

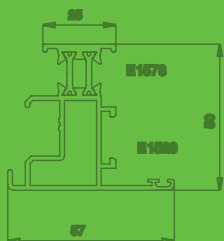


E1426

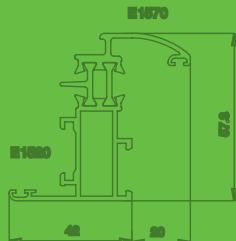


E1456

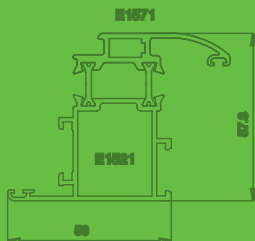




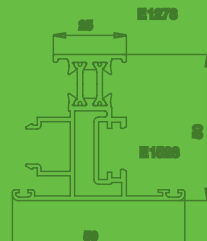
E1947
1045 g/m



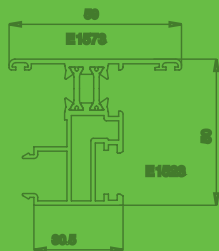
E1930
1060 g/m



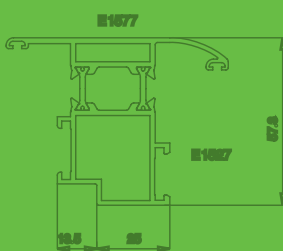
E1931
1091 g/m



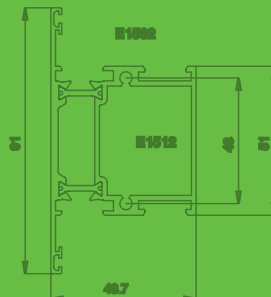
E1948
1140 g/m



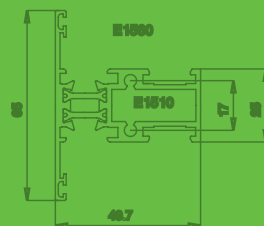
E1936
2275 g/m



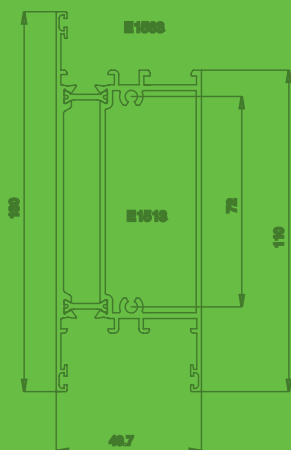
E1945
1448 g/m



E1922
1690 g/m



E1920
1778 g/m



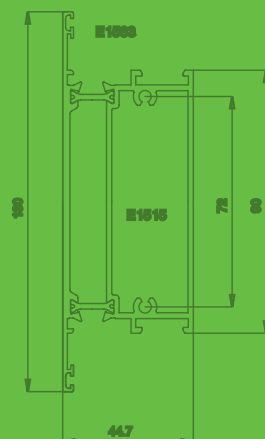
E1923
2483 g/m



E1939
1844 g/m

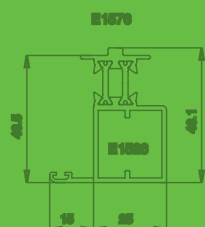


E1927
1648 g/m

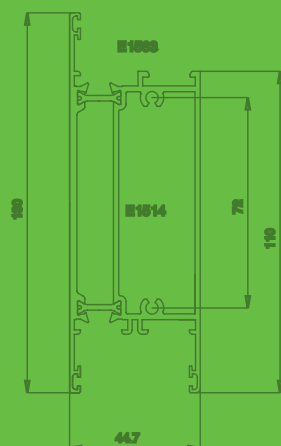


E1935
2229 g/m

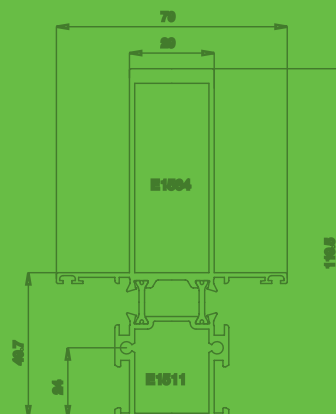
THERMAL BREAK PROFILES WITH DIMENSIONS



E1946
904 g/m

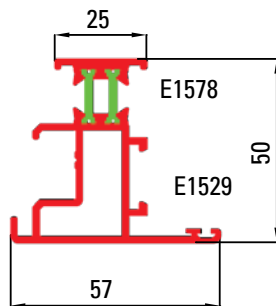


E1934
2260 g/m

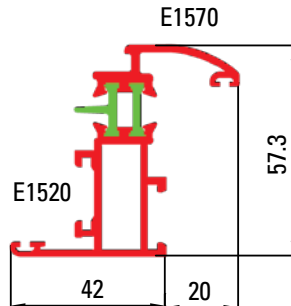


E1929
2463 g/m

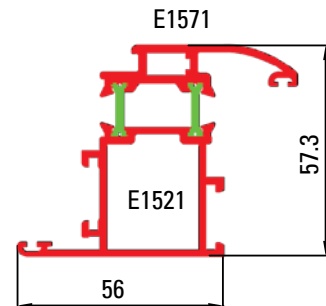
THERMAL BREAK PROFILES WITH DIMENSIONS



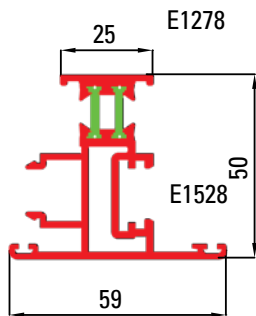
E1347
1045 g/m



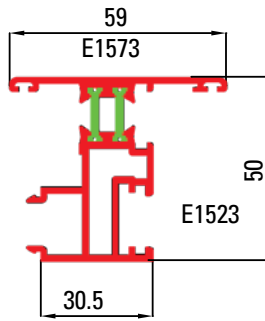
E1330
1080 g/m



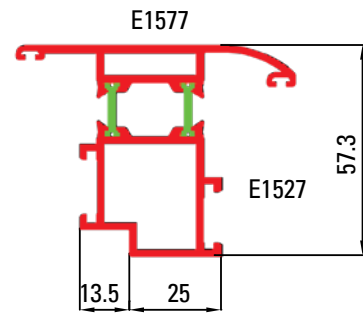
E1331
1391 g/m



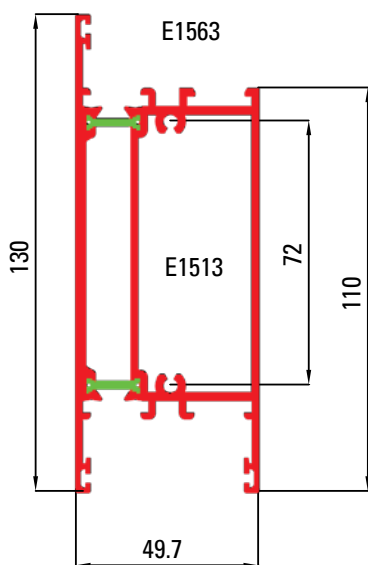
E1346
1140 g/m



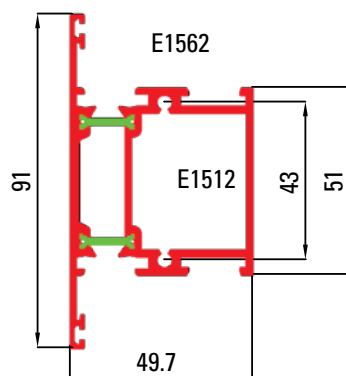
E1336
2275 g/m



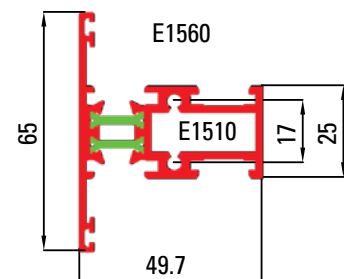
E1345
1442 g/m



E1323
2423 g/m

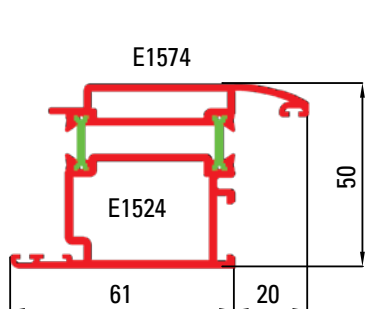


E1322
1590 g/m

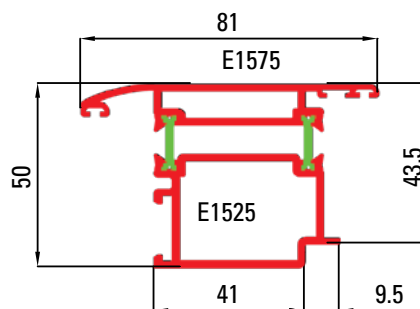


E1320
1172 g/m

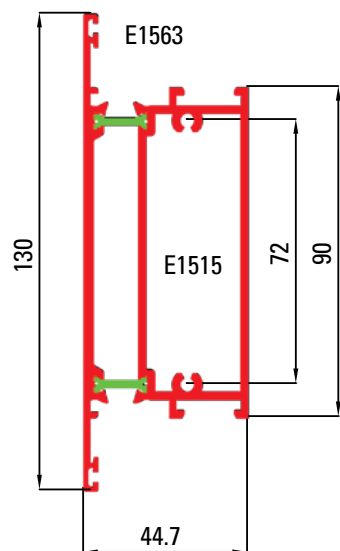
THERMAL BREAK PROFILES WITH DIMENSIONS



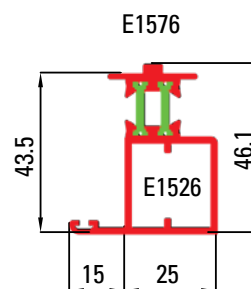
E1337
1545 g/m



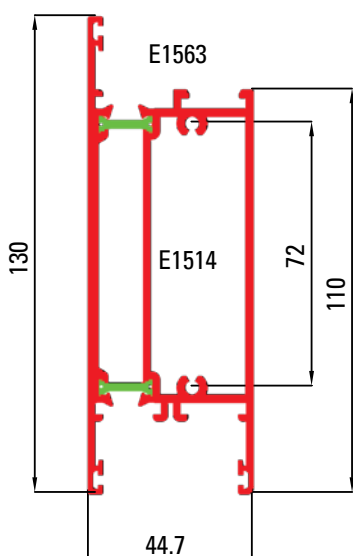
E1338
1544 g/m



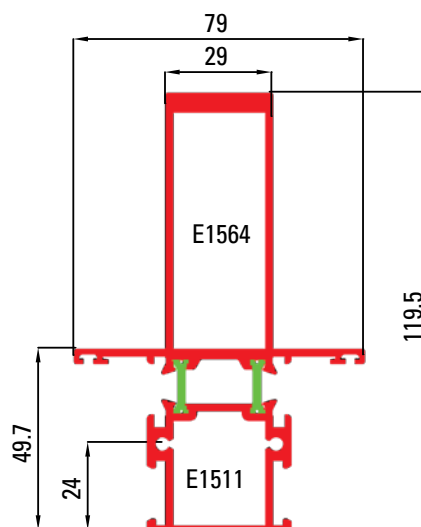
E1325
2226 g/m



E1343
804 g/m

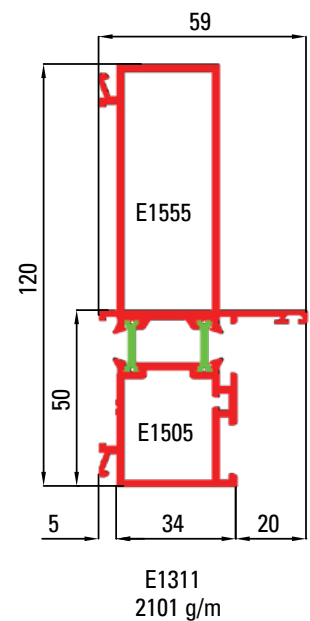
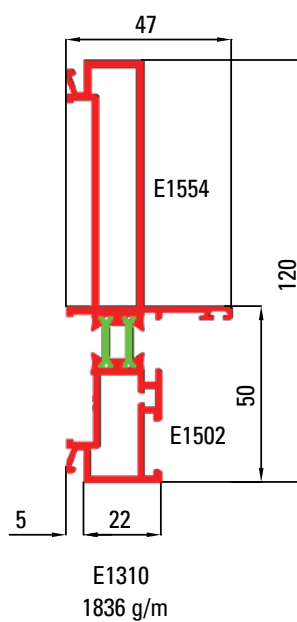
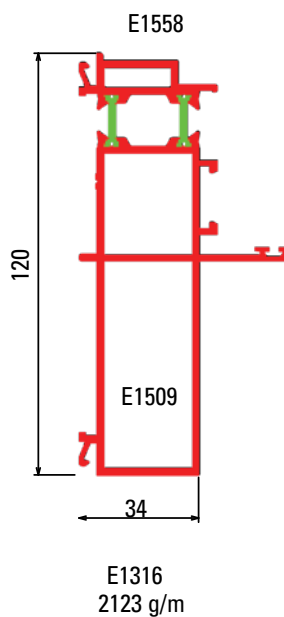
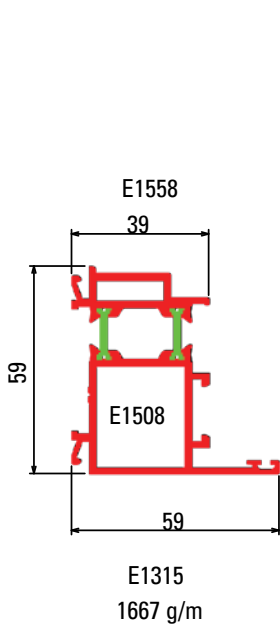
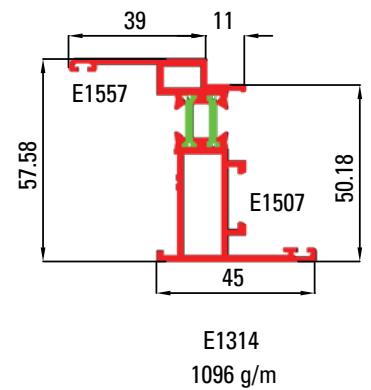
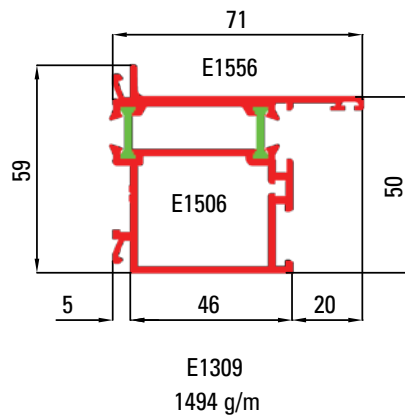
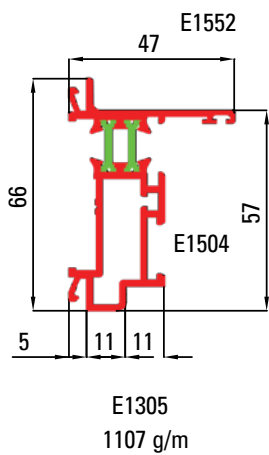
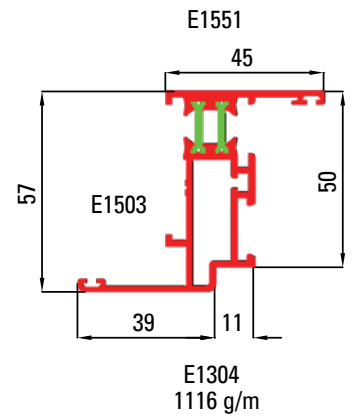
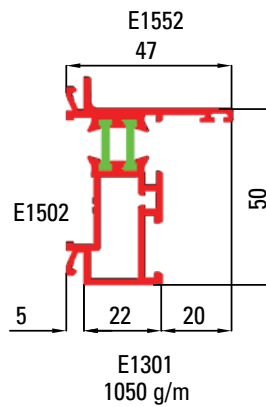
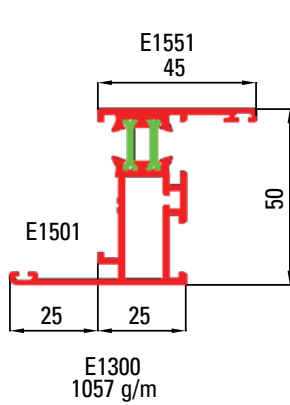


E1324
2380 g/m

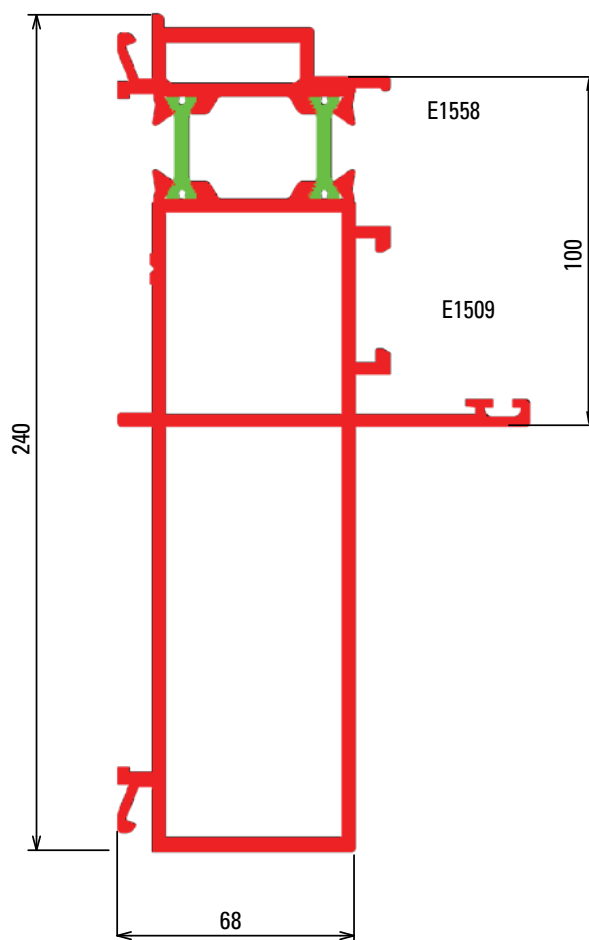


E1326
2423 g/m

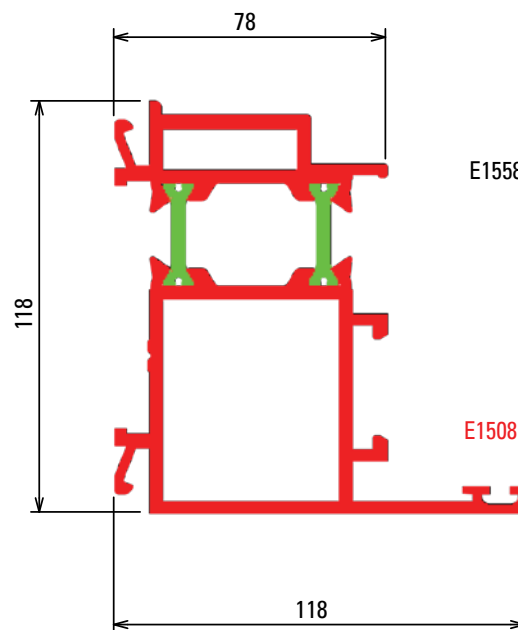
THERMAL BREAK PROFILES WITH DIMENSIONS



THERMAL BREAK PROFILES WITH DIMENSIONS



E1316
2123 g/m

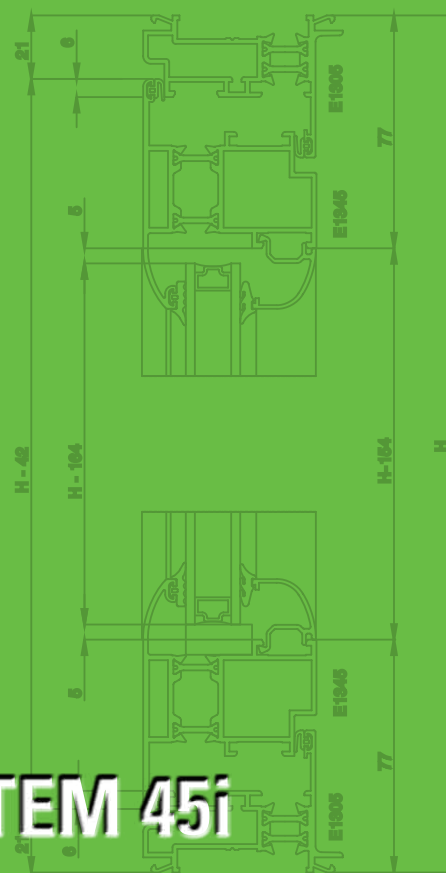


E1315
1367 g/m



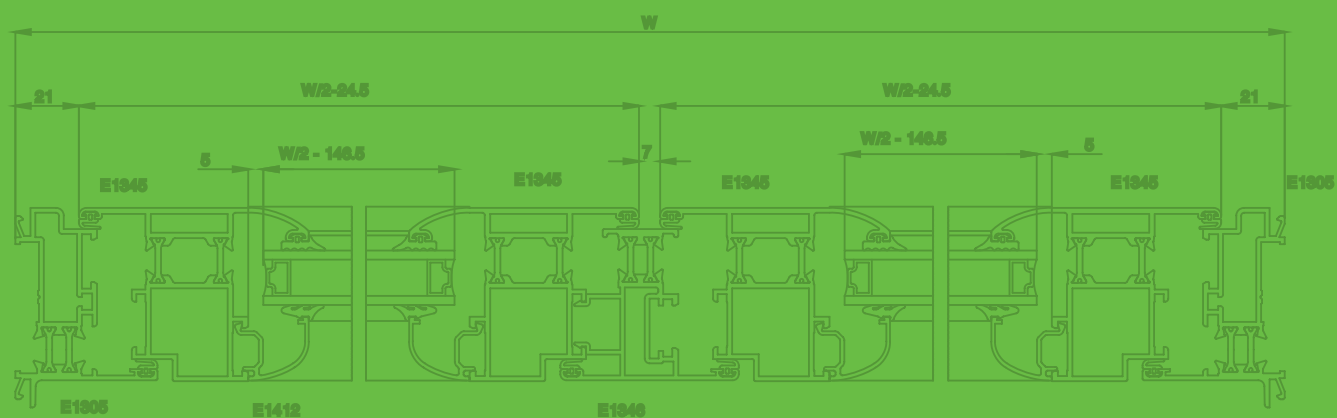
Glass mm 24

section
vertical

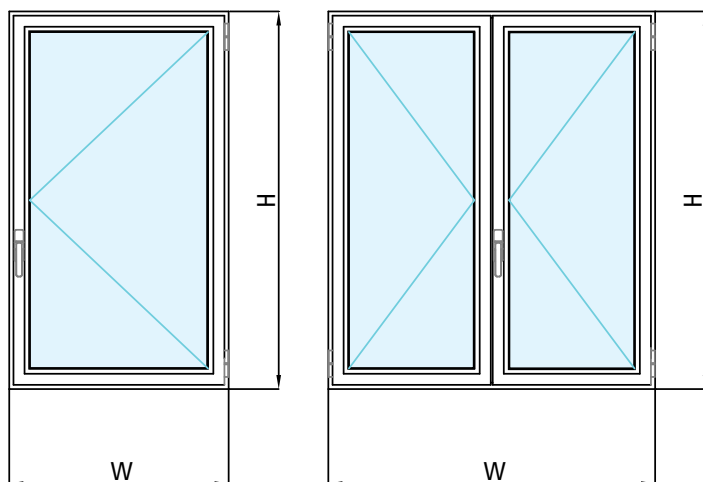


THERMAL BREAK SYSTEM 45i

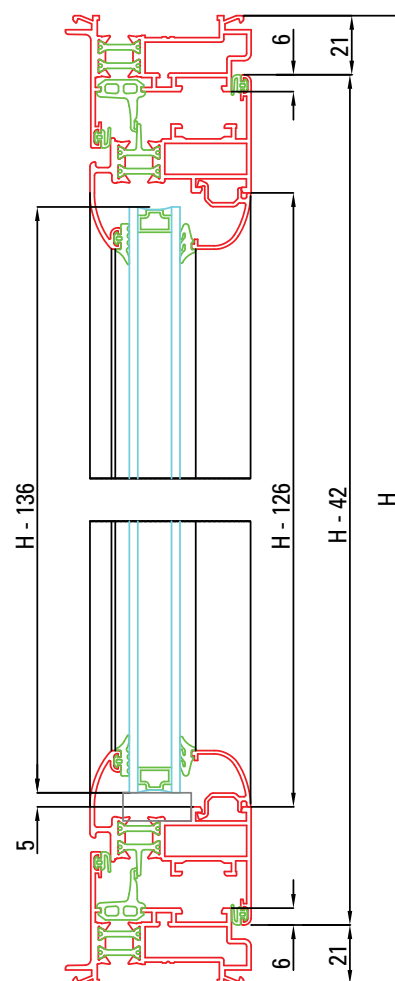
section
horizontal



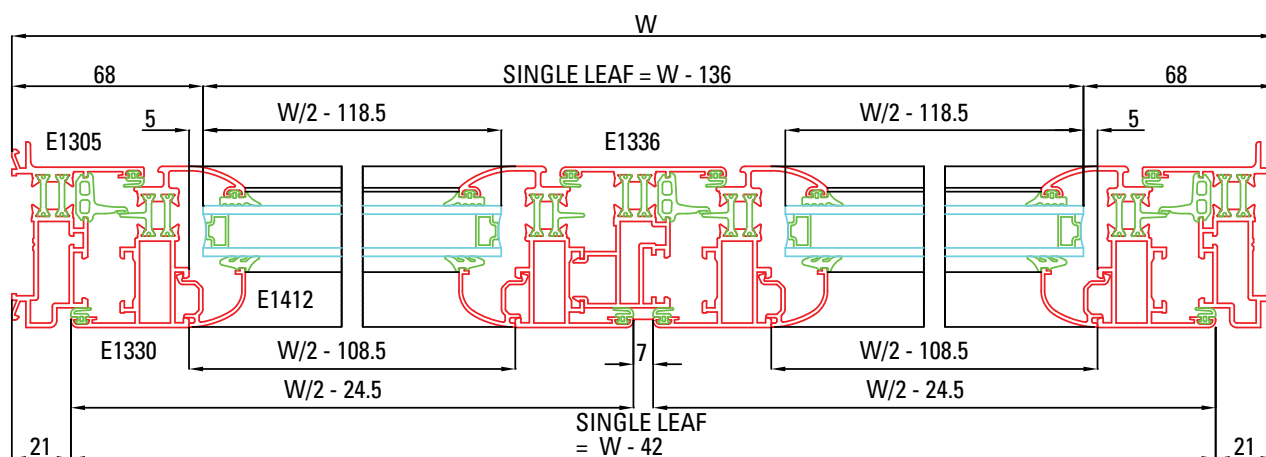
INSIDE OPEN WINDOW-COPLANAR



section
vertical



horizontal
section



INSIDE OPEN WINDOW-COPLANER

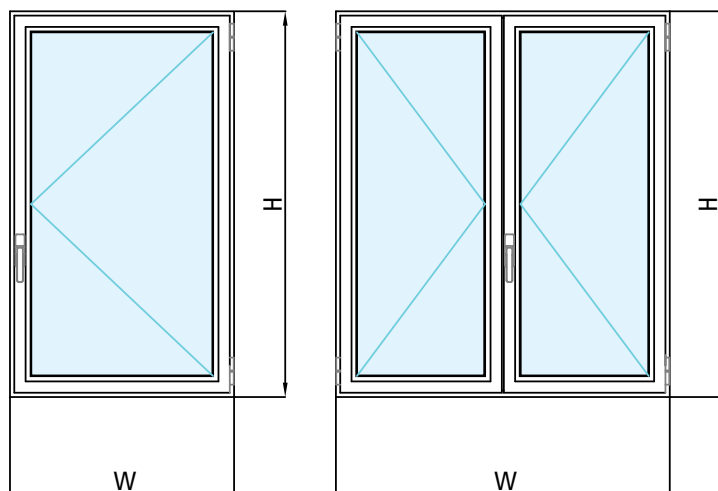
SINGLE LEAF

PROFILE		ACCESSORIES			ACCESSORIES			GASKET	
NUMBER	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	N. PCS
E1305	2W-2H	C0050	FLASH BASE HINGE 3rd WING	2	C0660	ADJUSTABLE TAB mm 17.2	6	E2102	2W-2H
E1330	2W-2H	C0090	CREMONE EURO	1	E2075	CORNER JOINT (IN PIECES)	8	E2110	4W-4H
E1412	2W-2H	C0190	SINGLE/DOUBLE STRIKER	2				E2111	2W-2H
		C0260	TERMINAL FOR ROD	2				E2104	2W-2H
		C0350	DRAIN HOLE COVER R40/50	2					
		C0380	CONNECTIONS BLOCKS C/GASK	1					

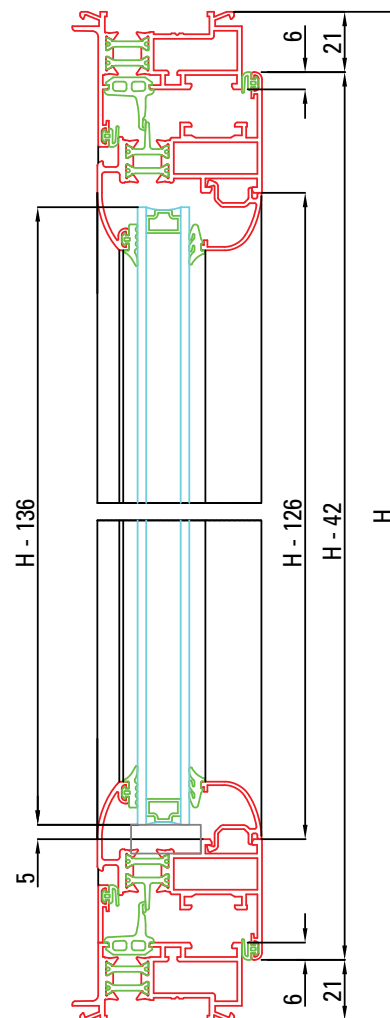
DOUBLE LEAF

PROFILE		ACCESSORIES			ACCESSORIES			GASKET	
NUMBER	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	N. PCS
E1301	2W-2H	C0050	FLASH BASE HINGE 3rd WING	4	C0380	CONNECTIONS BLOCKS C/GASK	1	E2102	2W-4H
E1330	2W-4H	C0090	CREMONE EURO	1	C0620	FLUSH BOLT FOR COMBINED WING	1	E2110	4W-8H
E1336	1H	C0190	SINGLE/DOUBLE STRIKER	2	C0660	ADJUSTABLE TAB mm 17.2	8	E2111	2W-3H
E1412	2W-4H	C0260	TERMINAL FOR ROD	2	E2075	CORNER JOINT (IN PIECES)	12	E2104	2W-4H
		C0320	WING CLOSING PLUG	1					
		C0350	DRAIN HOLE COVER R40/50	3					

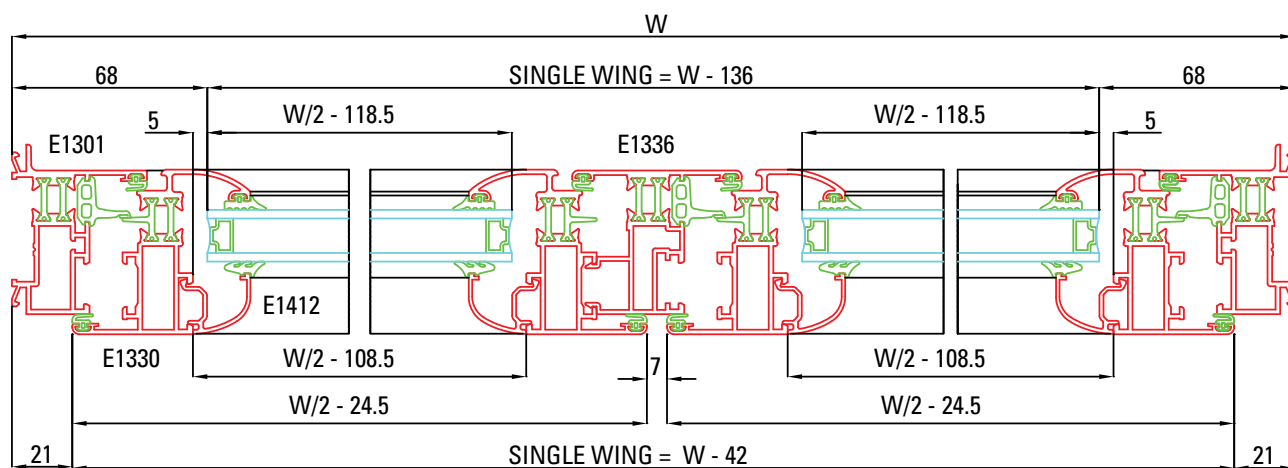
INSIDE OPEN WINDOW-OVERLAP



section
vertical



section
horizontal



INSIDE OPEN WINDOW-OVERLAP

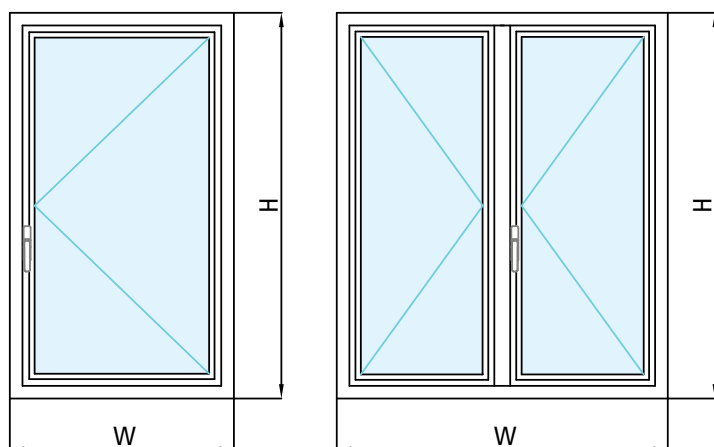
SINGLE LEAF

PROFILE		ACCESSORIES			ACCESSORIES			GASKET	
NUMBER	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	N. PCS
E1305	2W-2H	C0050	FLASH BASE HINGE 3rd WING	2	C0660	ADJUSTABLE TAB mm 17.2	6	E2102	2W-2H
E1330	2W-2H	C0090	CREMONE EURO	1	E2075	CORNER JOINT (IN PIECES)	8	E2110	4W-4H
E1412	2W-2H	C0190	SINGLE/DOUBLE STRIKER	2				E2111	2W-2H
		C0260	TERMINAL FOR ROD	2				E2104	2W-2H
		C0350	DRAIN HOLE COVER R40/50	2					
		C0380	CONNECTIONS BLOCKS C/GASK	1					

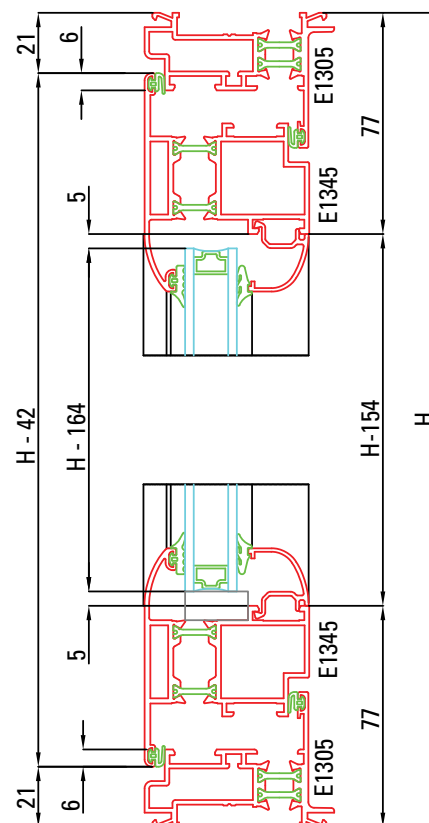
DOUBLE LEAF

PROFILE		ACCESSORIES			ACCESSORIES			GASKET	
NUMBER	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	N. PCS
E1301	2W-2H	C0050	FLASH BASE HINGE 3rd WING	4	C0380	CONNECTIONS BLOCKS C/GASK	1	E2102	2W-4H
E1330	2W-4H	C0090	CREMONE EURO	1	C0620	FLUSH BOLT FOR COMBINED WING	1	E2110	4W-8H
E1336	1H	C0190	SINGLE/DOUBLE STRIKER	2	C0660	ADJUSTABLE TAB mm 17.2	8	E2111	2W-3H
E1412	2W-4H	C0260	TERMINAL FOR ROD	2	E2075	CORNER JOINT (IN PIECES)	12	E2104	2W-4H
		C0320	WING CLOSING PLUG	1					
		C0350	DRAIN HOLE COVER R40/50	3					

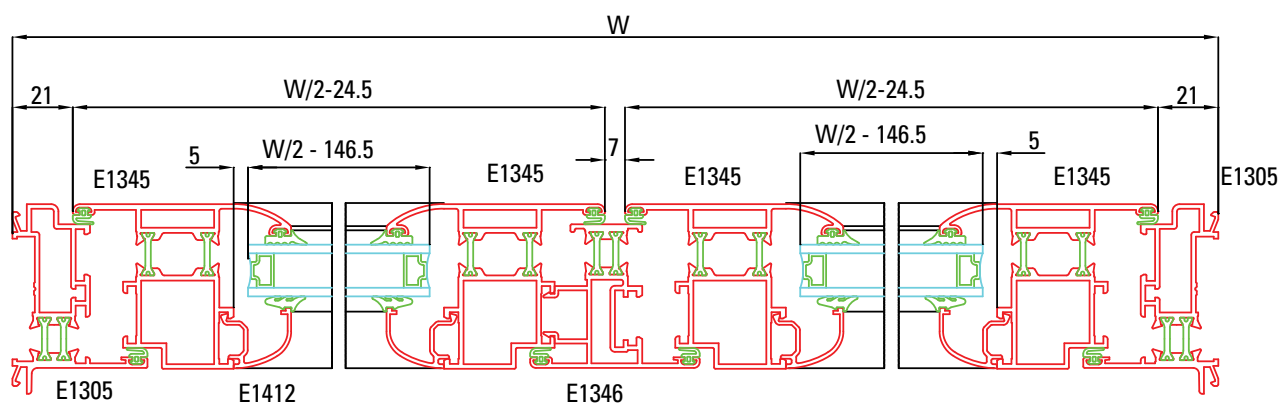
INSIDE OPEN WINDOW-OVERLAP



section
vertical



section
horizontal



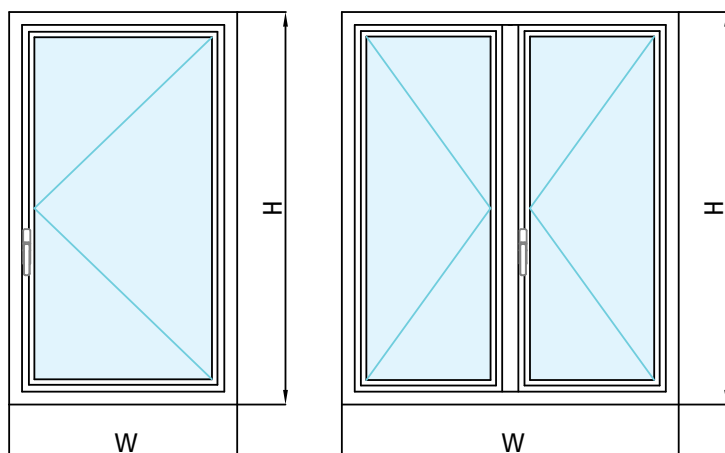
SINGLE LEAF

PROFILE		ACCESSORIES			ACCESSORIES			GASKET	
NUMBER	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	N. PCS
E1305	2W-2H	C0050	FLASH BASE HINGE 3rd WING	2	C0660	ADJUSTABLE TAB mm 17.2	8	E2102	2W-2H
E1345	2W-2H	C0110	CREMONE NOVA	1	E2075	CORNER JOINT FOR FRAME IN PCS	4	E2110	4W-4H
E1412	2W-2H	C0190	SINGLE/DOUBLE STRIKER	2	E1416	CORNER JOINT FOR SHUTTER IN PCS	4	E2104	2W-2H
		C0260	TERMINAL FOR ROD	2					
		C0310	PIN CONNECTION FOR 225 mm.28	2					
		C0360	STARDUE/NOVA CONNECTION KIT	1					

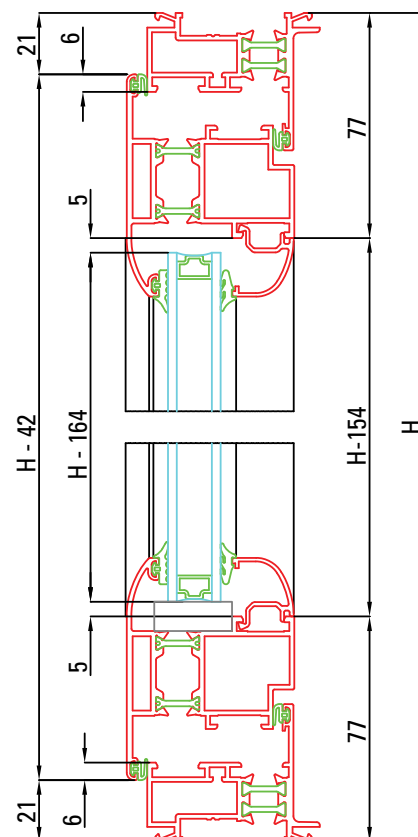
DOUBLE LEAF

PROFILE		ACCESSORIES			ACCESSORIES			GASKET	
NUMBER	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	N. PCS
E1305	2W-2H	C0050	FLASH BASE HINGE 3rd WING	4	C0360	STARDUE/NOVA CONNECTION KIT	1	E2102	2W-4H
E1345	2W-4H	C0110	CREMONE NOVA	1	C0620	FLUSH BOLT FOR COMBINED WING	1	E2110	4W-8H
E1346	1H	C0190	SINGLE/DOUBLE STRIKER	2	C0660	ADJUSTABLE TAB mm 17.2	10	E2104	2W-4H
E1412	2W-4H	C0260	TERMINAL FOR ROD	2	E2075	CORNER JOINT FOR FRAME IN PCS	4		
		C0310	PIN CONNECTION FOR 2250 mm.28	2	E1416	CORNER JOINT FOR SHUTTER IN PCS	4		
		C0320	WING CLOSING PLUG	1					

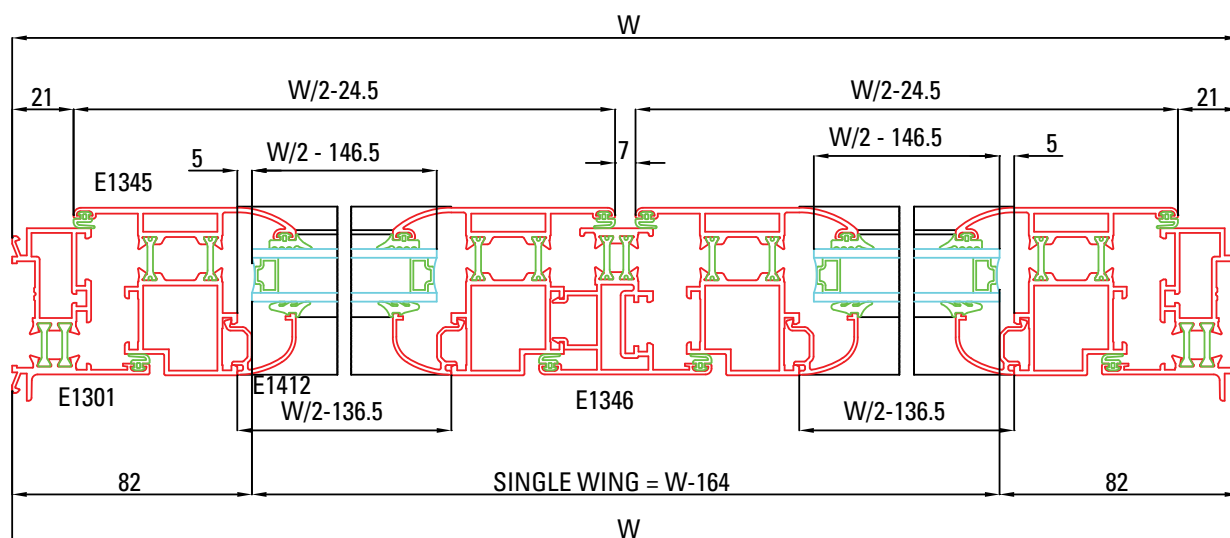
OUTSIDE OPEN WINDOW - OVER LAP



section
vertical



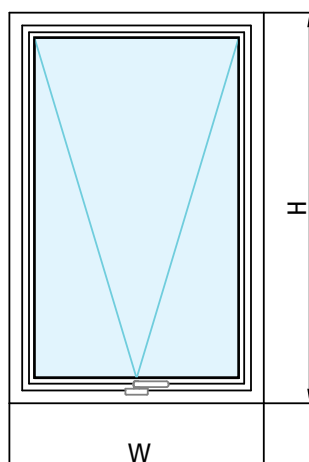
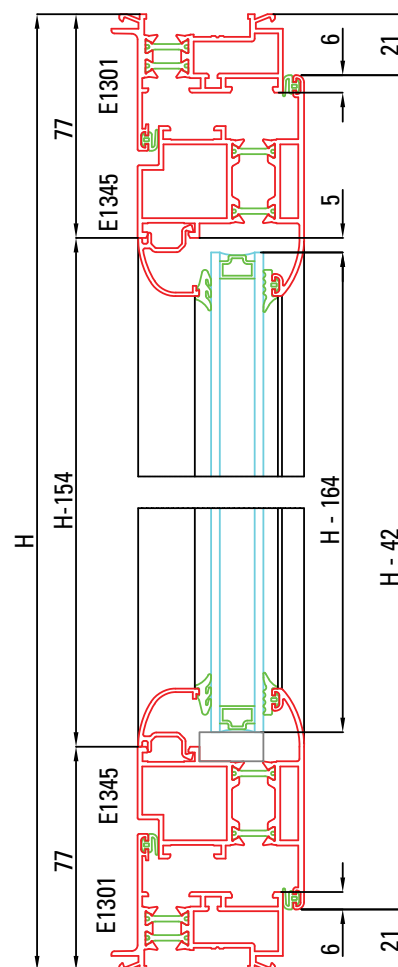
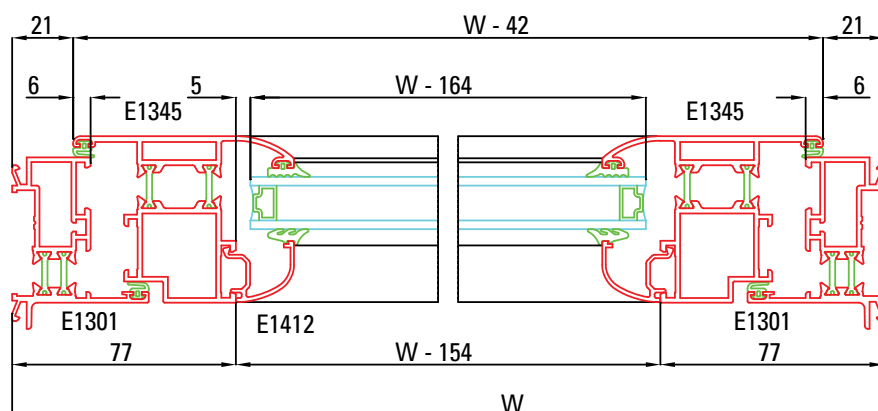
section
horizontal



SINGLE LEAF

DOUBLE LEAF

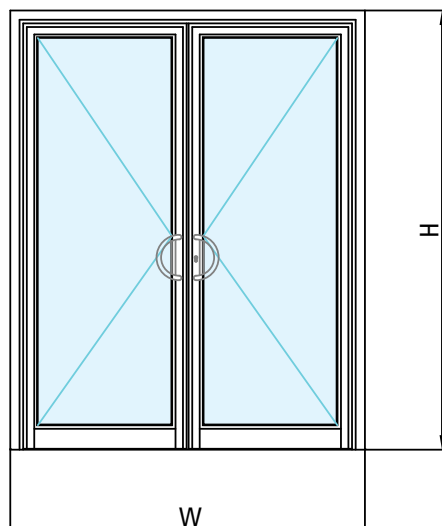
PROFILE		ACCESSORIES		ACCESSORIES		GASKET	
NUMBER	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	DESCRIPTIONS	N. PCS
E1301	2W-2H	C008	FLASH BASE HINGE	4	C036	STARDUE/NOVA CONNECTION KIT	1
E1345	2W-4H	C011	CREMONE NOVA	1	C062	FLUSH BOLT FOR COMBINED WING	1
E1346	1H	C019	SINGLE/DOUBLE STRIKER	2	C066	ADJUSTABLE TAB mm 17.2	8
E1412	2W-4H	C026	TERMINAL FOR ROD	2	E2075	CORNER JOINT FOR FRAME IN PCS	4
		C031	PIN CONNECTION FOR 2250 mm.28	2	E1416	CORNER JOINT FOR SHUTTER IN PCS	4
		C032	WING CLOSING PLUG	1			

TOP HUNG WINDOWsection
verticalsection
horizontal**PROFILE****ACCESSORIES****GASKET**

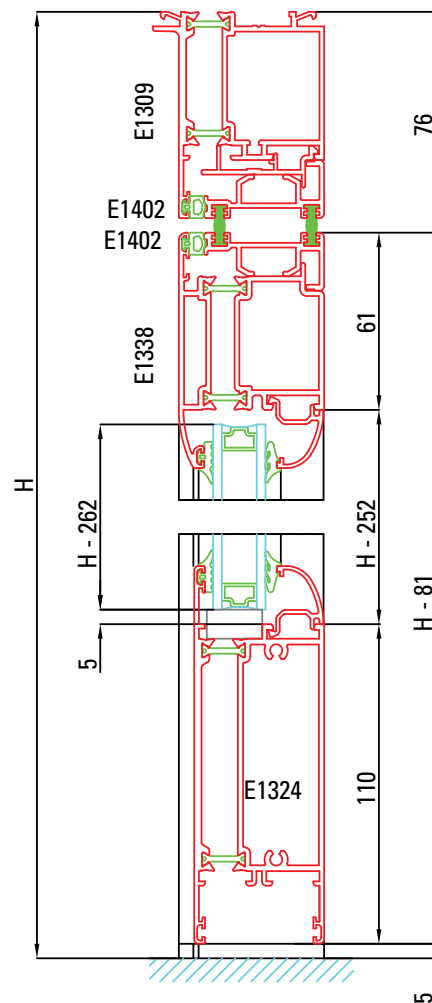
NUMBER	N. PCS	ITEM	DESCRIPTIONS	N. PCS
E1301	2W-2H	C0080	FLASH BASE HINGE	2
E1345	2W-2H	C0200	SAMBA-FLAT WINDOW HANDLE	1
E1412	2W-2H	C0230	LASER TELESCOPIC ROD INOX	1
		C0660	ADJUSTABLE TAB mm 17.2	6
		C0810	CORNER JOINT SCREW HOLLOW 11	4
		C0970	CORNER JOINT SCREW HOLLOW 25.4	4

ITEM	N. PCS
E2102	2W-2H
E2110	4W-4H
E2104	2W-2H

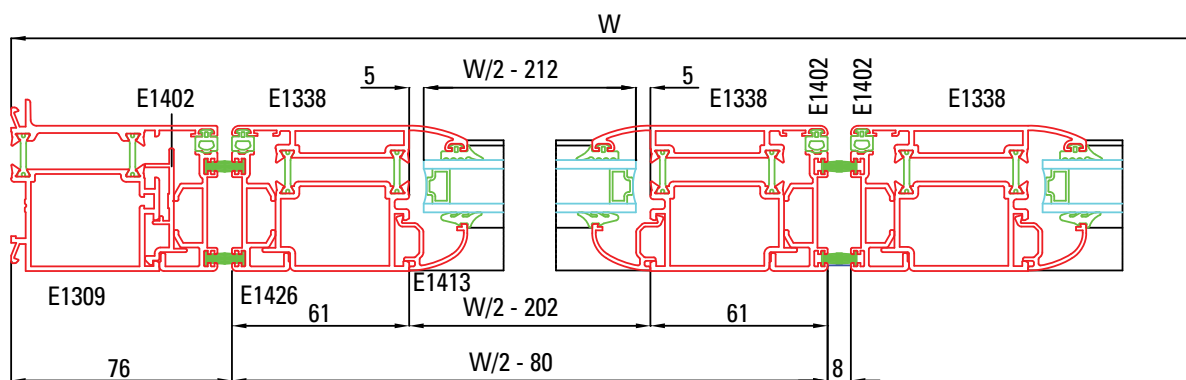
SWING DOOR



section
vertical

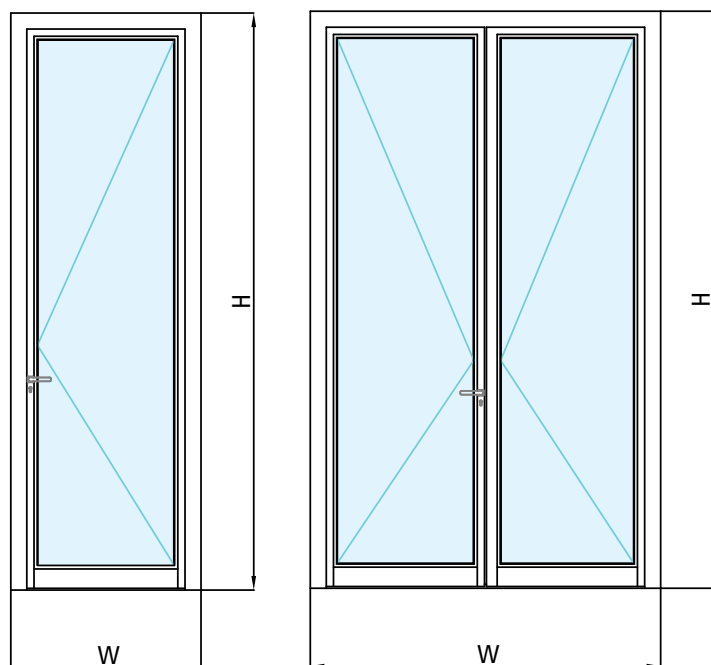


section
horizontal

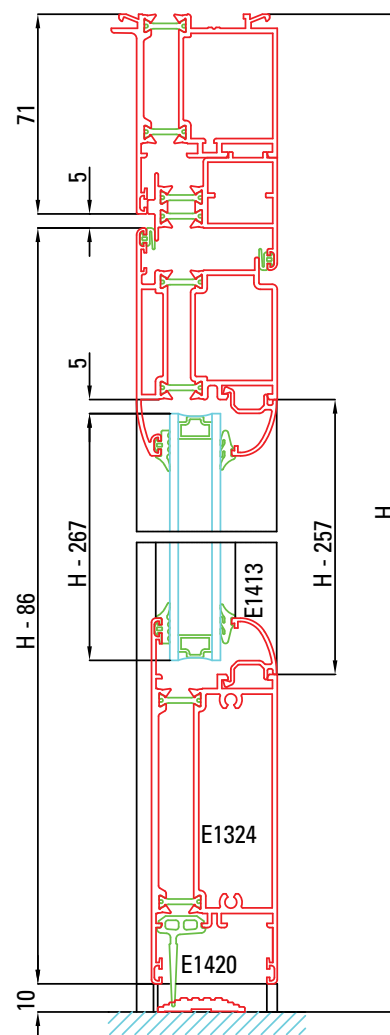


PROFILE		ACCESSORIES		ACCESSORIES		GASKET	
NUMBER	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	DESCRIPTIONS	N. PCS
E1309	1W-2H	C0180	STRIKER PESOS/SUPERGIAP	1		PIVOT HINGE FOR SWING DOORS	2
E1338	1W-4H	C0270	PESOS FLUSH BOLT FOOR DOOR	2		FLOOR CANCEALED DOOR-CLOSER	2
E1426	2W-6H	C0280	SAFETY TERMINAL FOR 2150	2		LOCK	1
E1413	2W-4H	C0290	BUSH FOR THRESHOLD	1			
E1324	1W	C0420	BIKE DOOR HANDLE NYLON DOUBLE CURVE	1			
E1402	1W-2H	C0460	ASSEMBLY KIT ALUMINIUM DOUBLE	1			
		E1417	CORNER JOINT IN PCS	6			

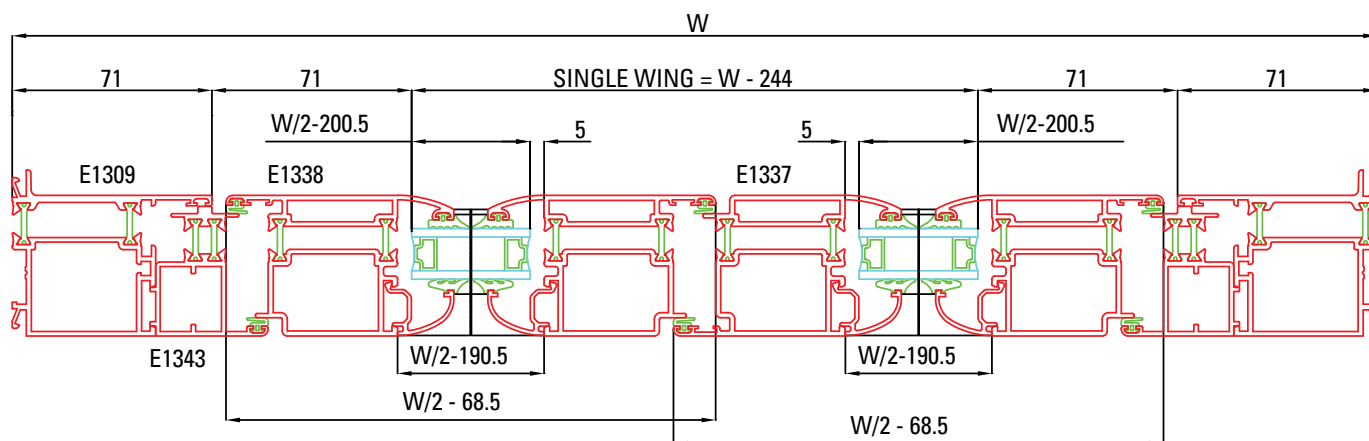
OUTSIDE OPEN DOOR



section
vertical



section
horizontal



OUTSIDE OPEN DOOR

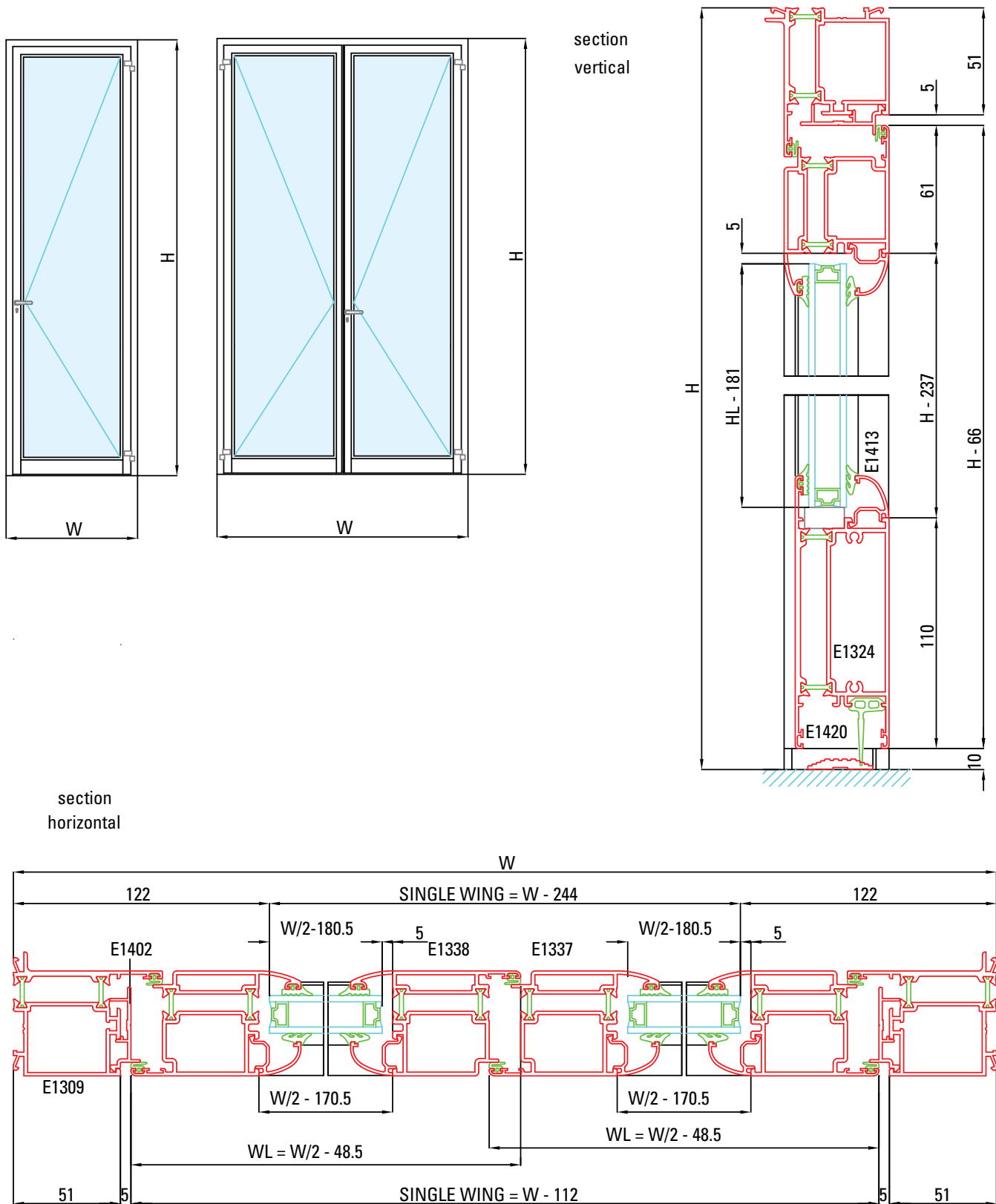
SINGLE LEAF

PROFILE		ACCESSORIES			ACCESSORIES			GASKET	
NUMBER	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	N. PCS
E1309	1W-2H	C0010	HINGE 2 WINGS	2				E2102	2W-2H
E1338	1W-2H	C0400	HANDLE MASTER	1				E2110	2W-4H
E1413	2W-2H	C0660	ADJUSTABLE TAB mm 17.2	8				E2104	2W-2H
E1324	1W	E1417	CORNER JOINT (IN PIECES)	4				E2114	1W
E1343	1W-2H	---	LOCK	1					
E1420	1W								

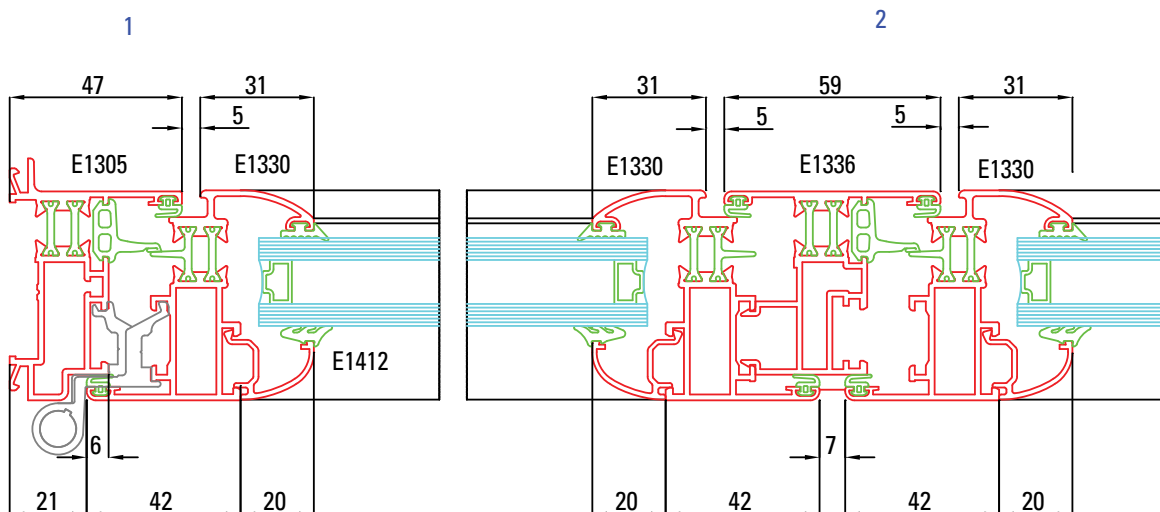
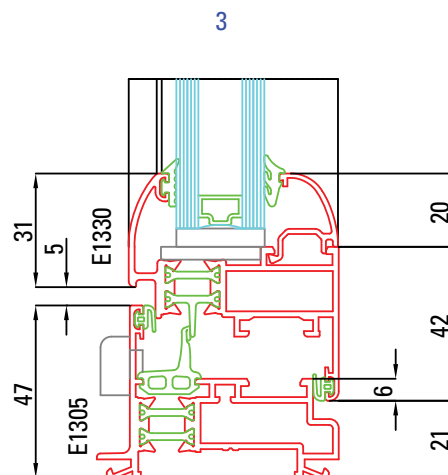
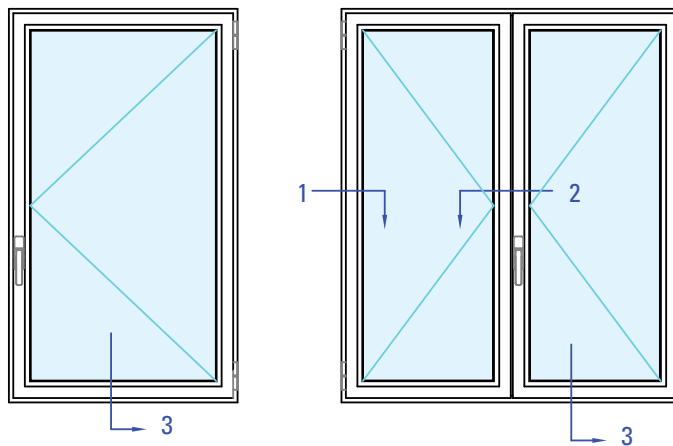
DOUBLE LEAF

PROFILE		ACCESSORIES			ACCESSORIES			GASKET	
NUMBER	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	DESCRIPTIONS	N. PCS	ITEM	N. PCS
E1309	1W-2H	C0010	HINGE 2 WINGS	4	E1417	CORNER JOINT IN PCS	6	E2102	2W-4H
E1337	1H	C0180	STRIKER PESOS/SUPERGIAP	1	---	LOCK	1	E2110	2W-6H
E1338	1W-3H	C0270	PESOS FLUSH BOLT FOR DOOR	2				E2104	2W-4H
E1413	4W-4H	C0280	SAFETY TERMINAL FOR 2150	2				E2114	1W
E1324	1W	C0290	BUSH FOR THRESHOLD	1					
E1343	1W-2H	C0400	HANDLE MASTER	1					
E1420	1W	C0660	ADJUSTABLE TAB mm 17.2	10					
		C0730	CENTRAL PLUG DOUBLE SASH	2					

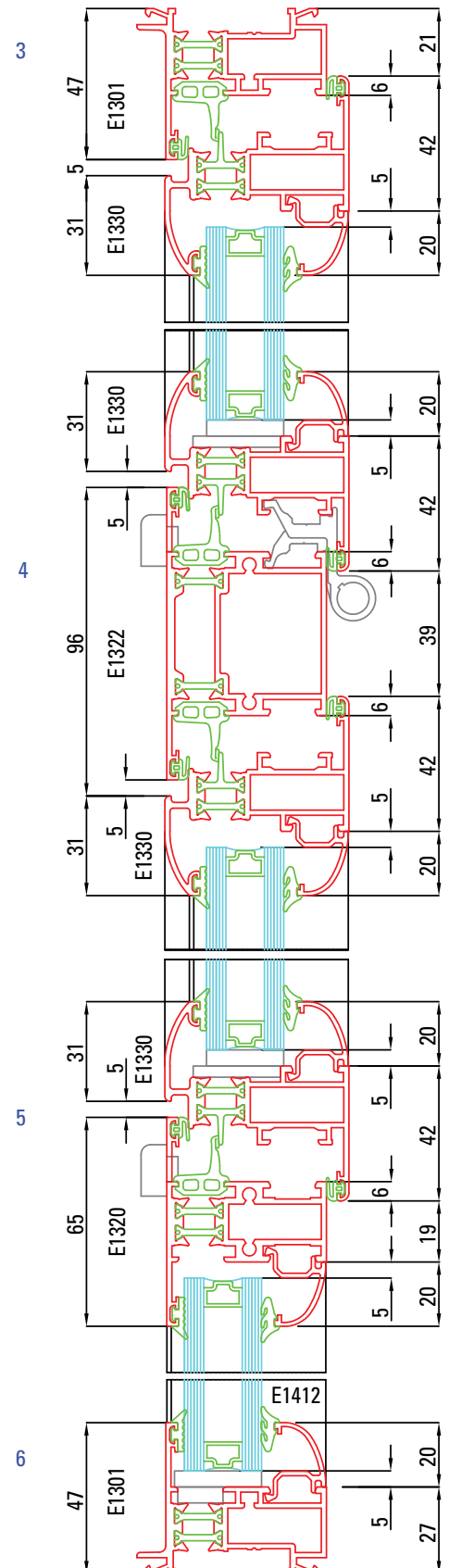
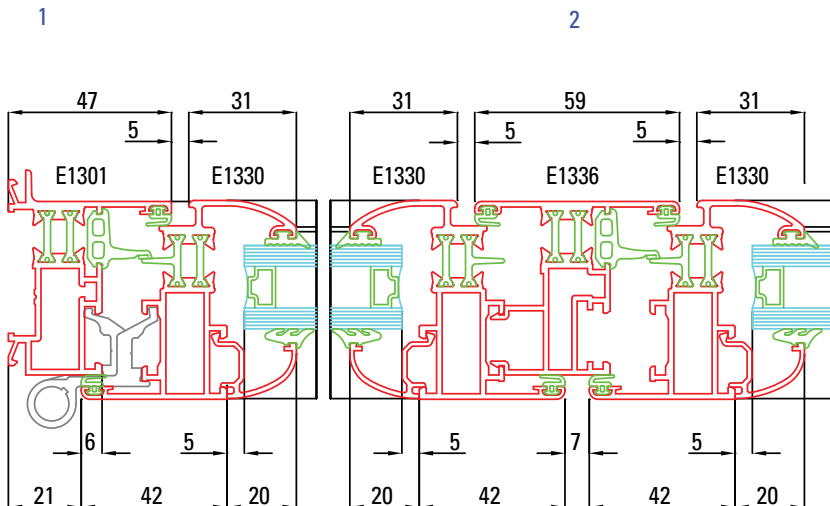
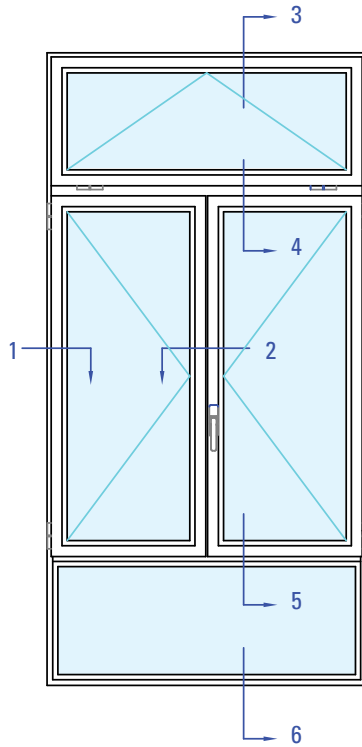
INSIDE OPEN DOOR



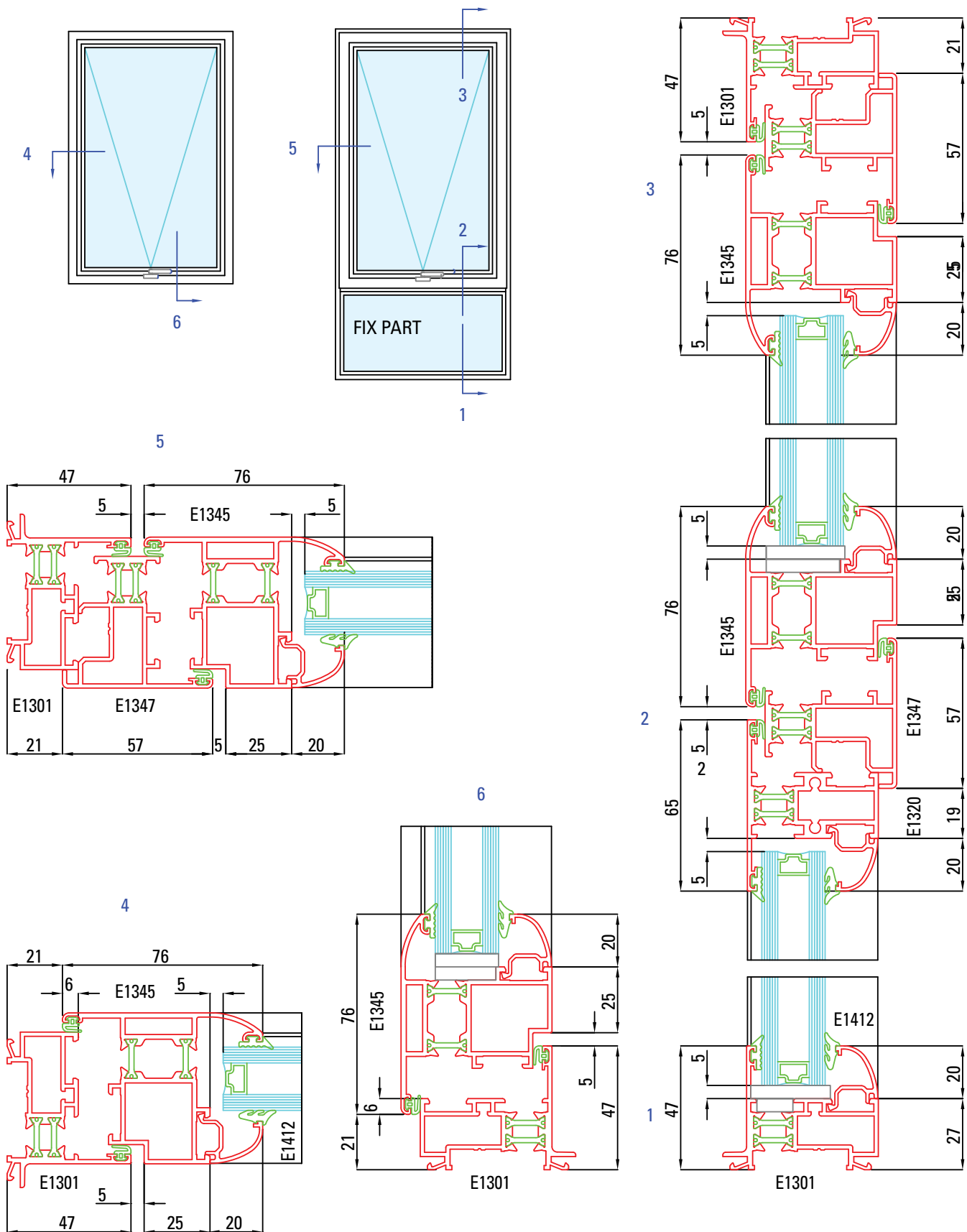
INSIDE OPEN WINDOW - COPLANAR



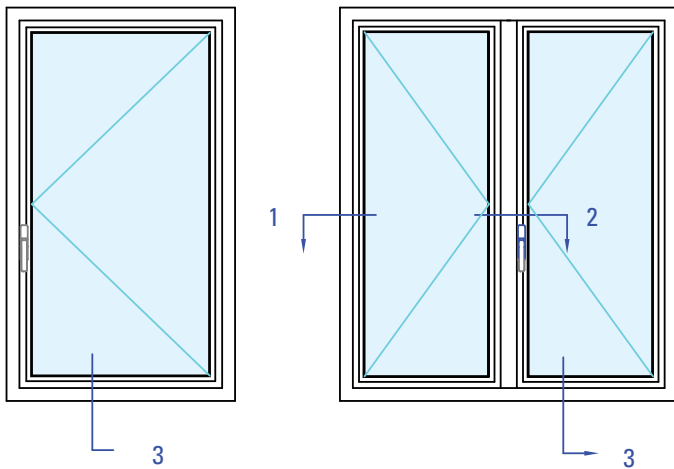
IN OPEN WINDOW WITH BOTTOM FIX LITE AND BOTTOM HUNG WINDOW AT THE TOP



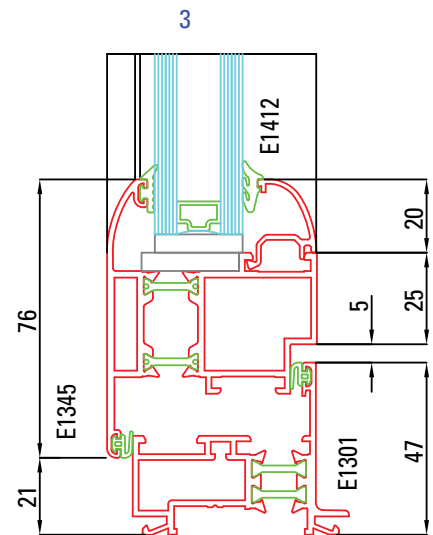
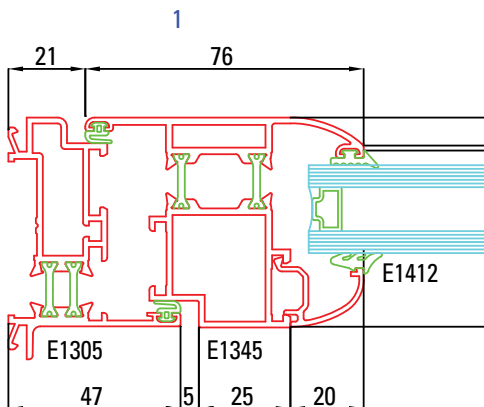
TOP HUNG WINDOW & FIX LIGHT



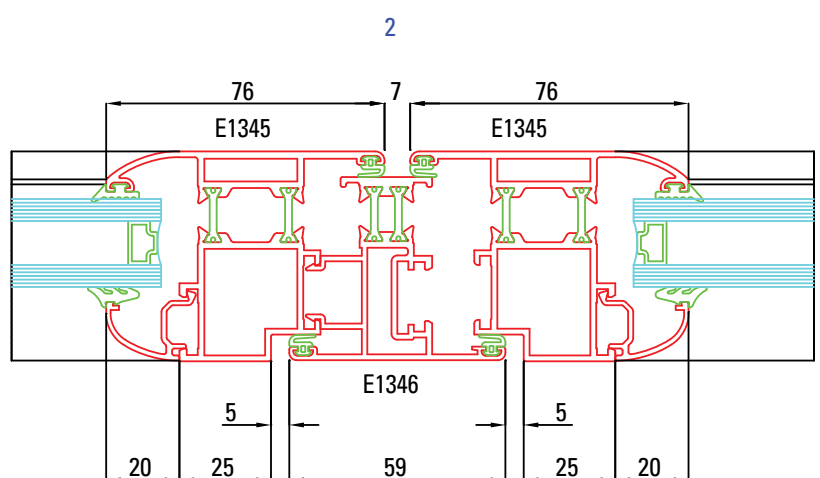
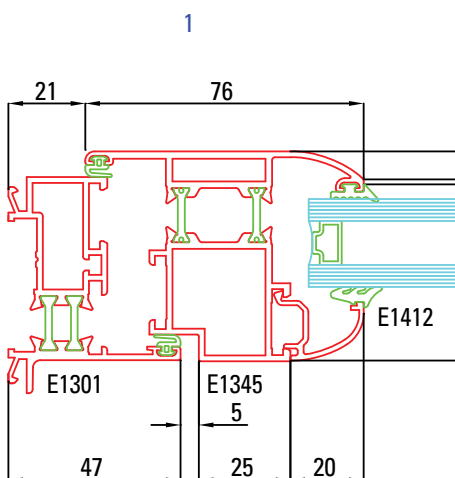
OUTSIDE OPEN WINDOW COPLANAR & OVERLAP



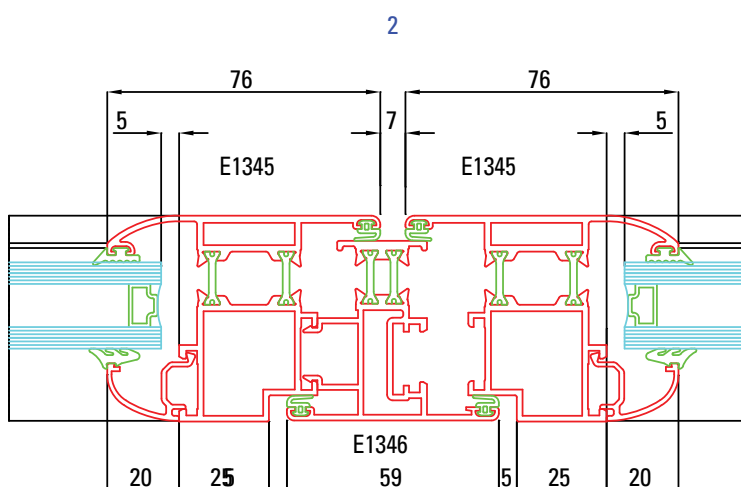
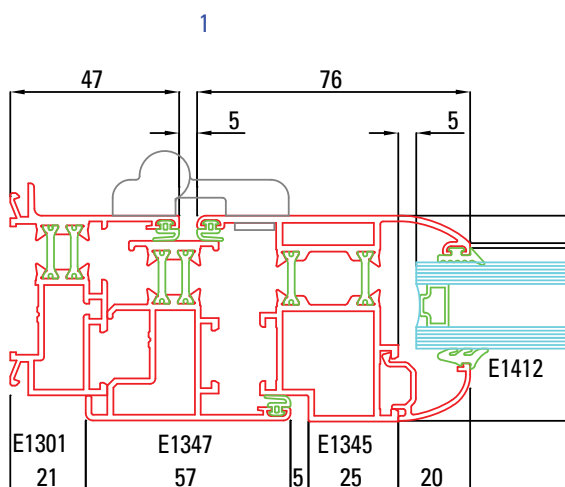
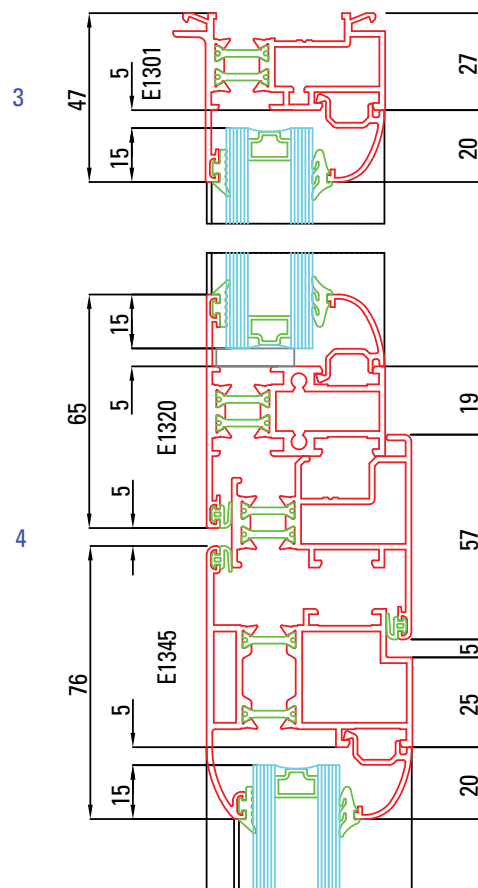
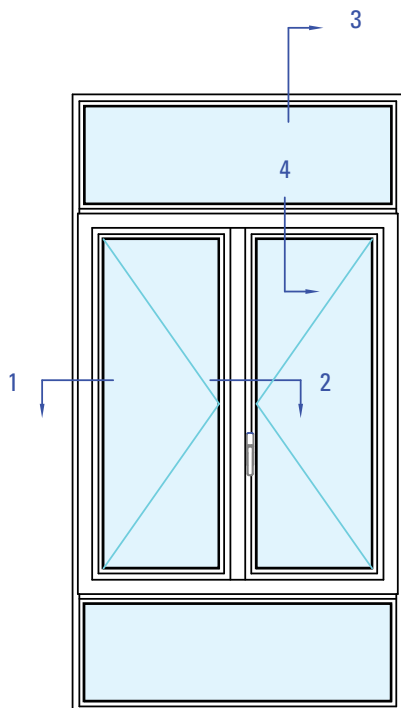
COPLANAR



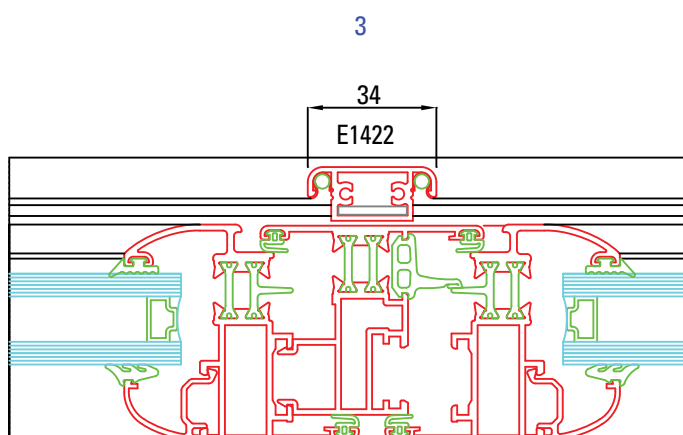
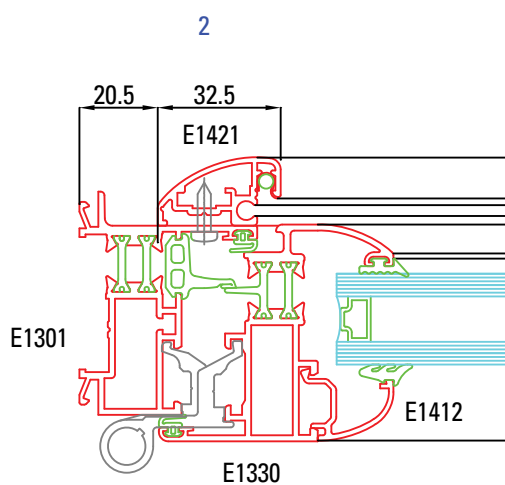
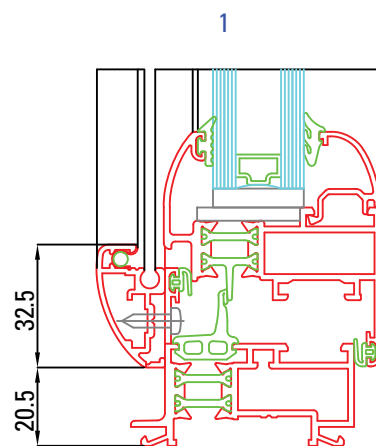
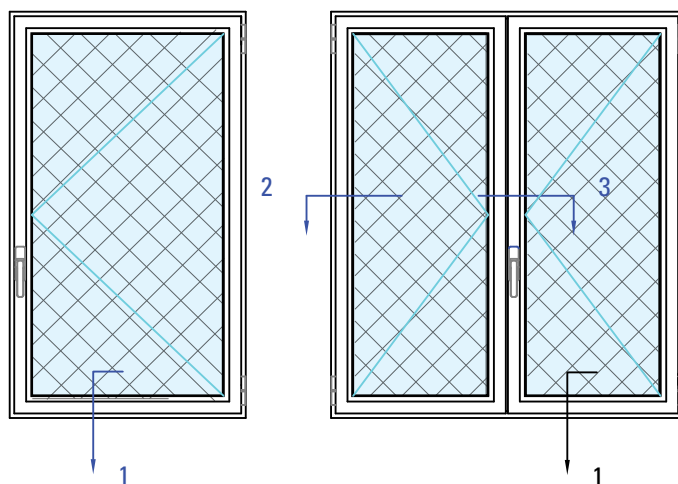
OVER LAP



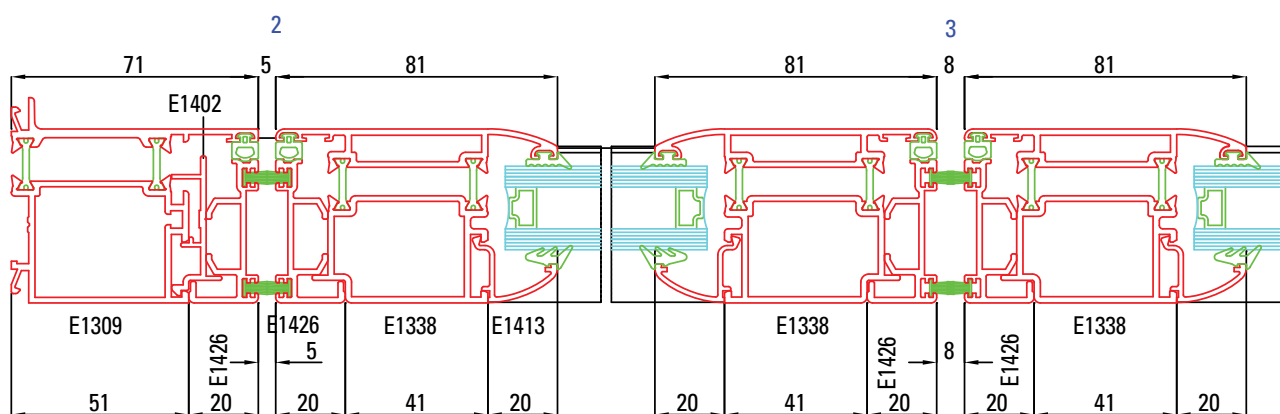
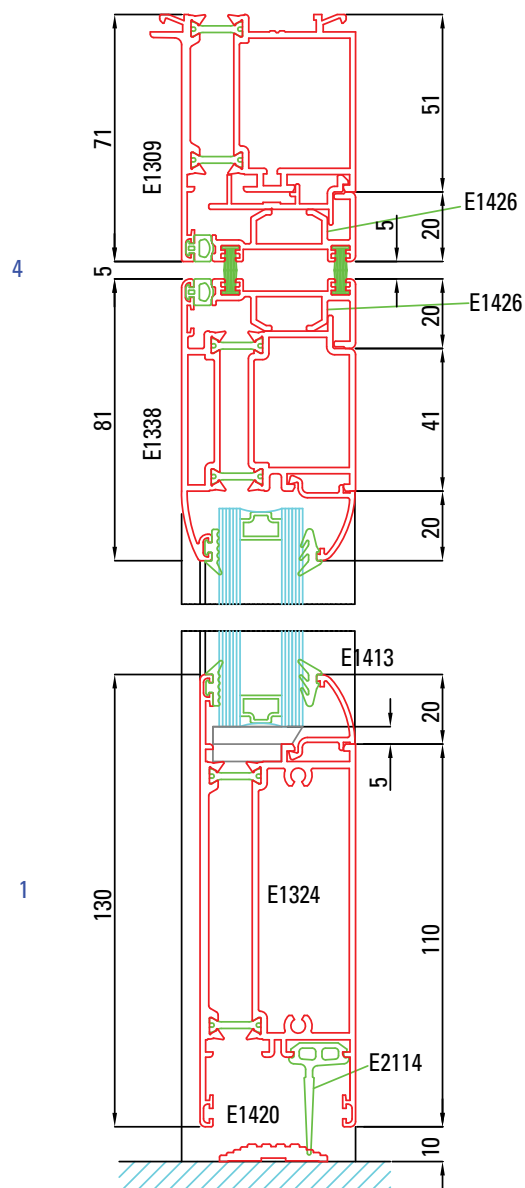
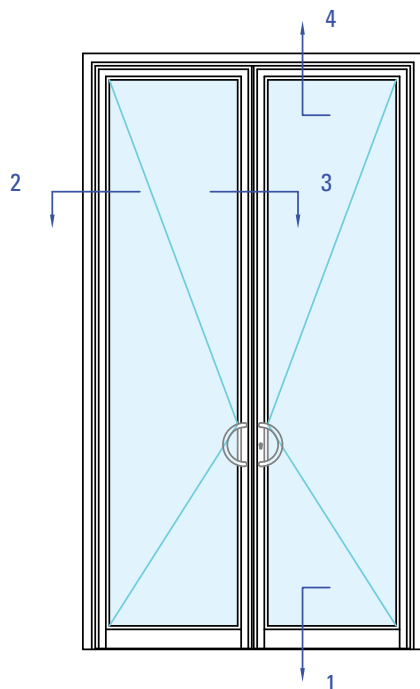
TWO LEAF OUTSIDE OPEN WINDOW WITH FIX LITES



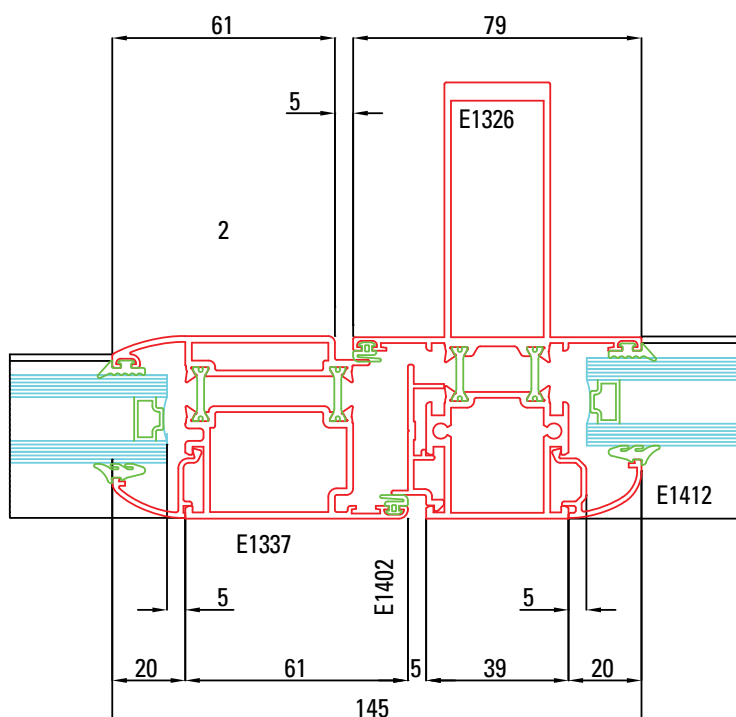
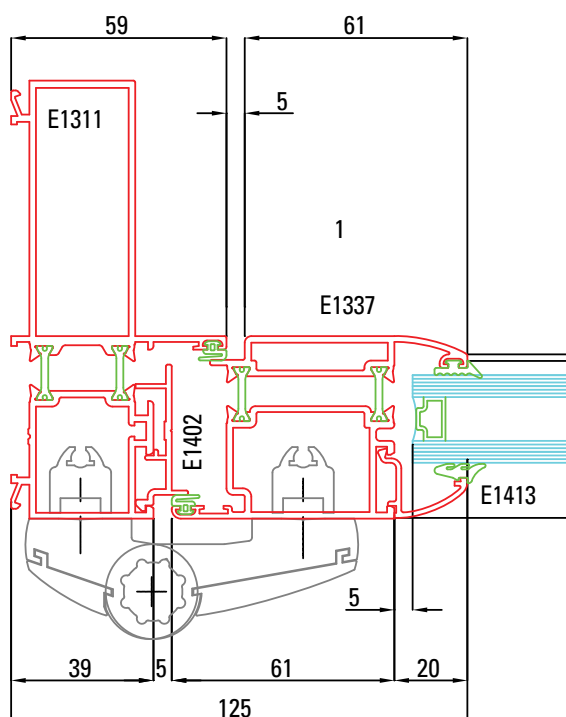
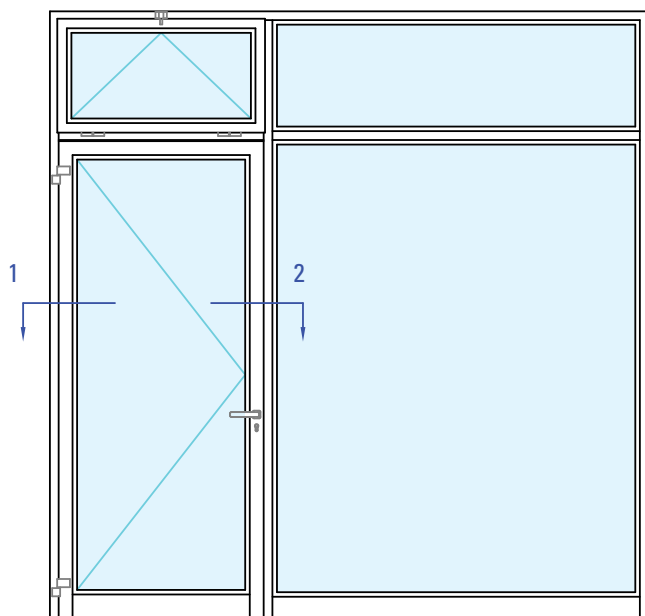
INSIDE OPEN WINDOWS WITH FLY SCREEN



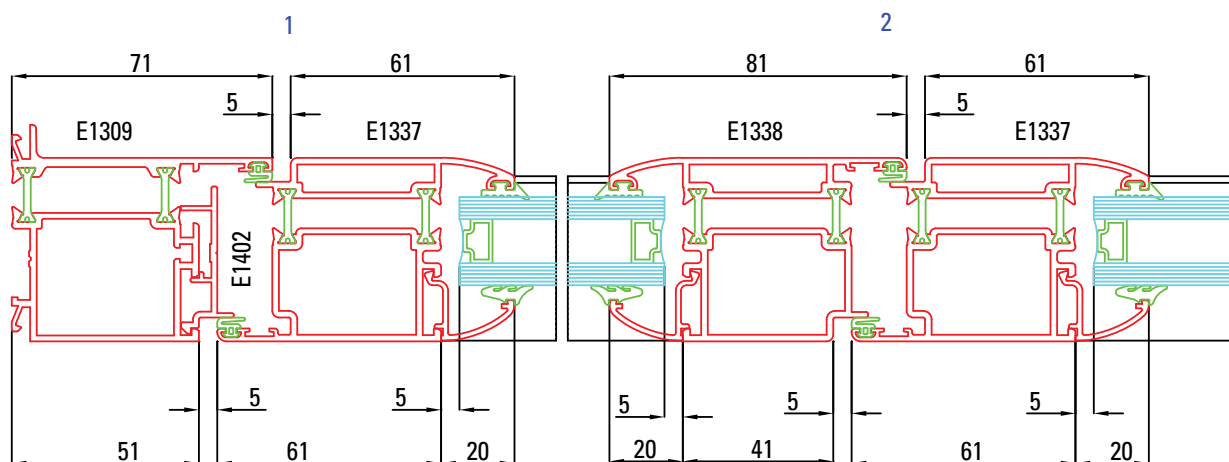
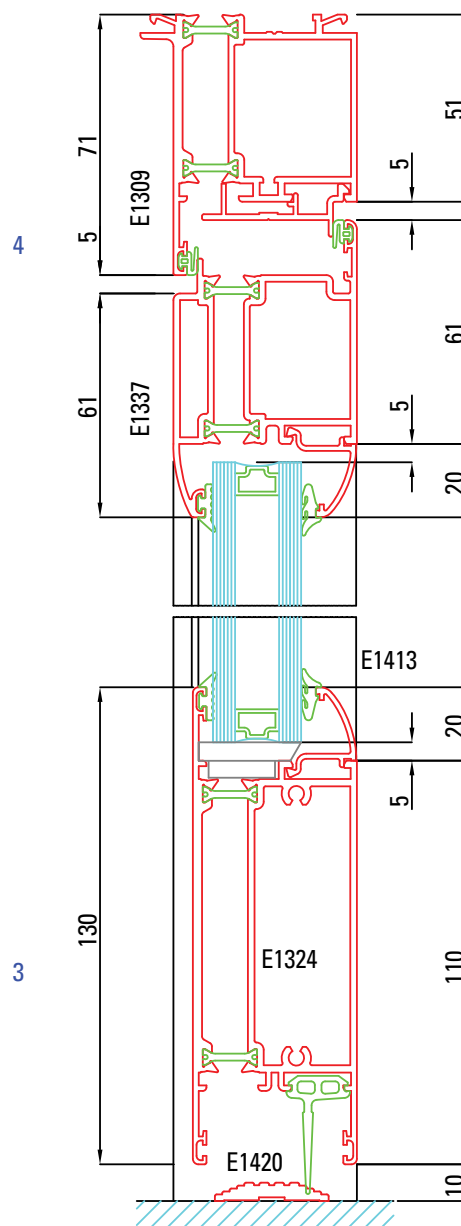
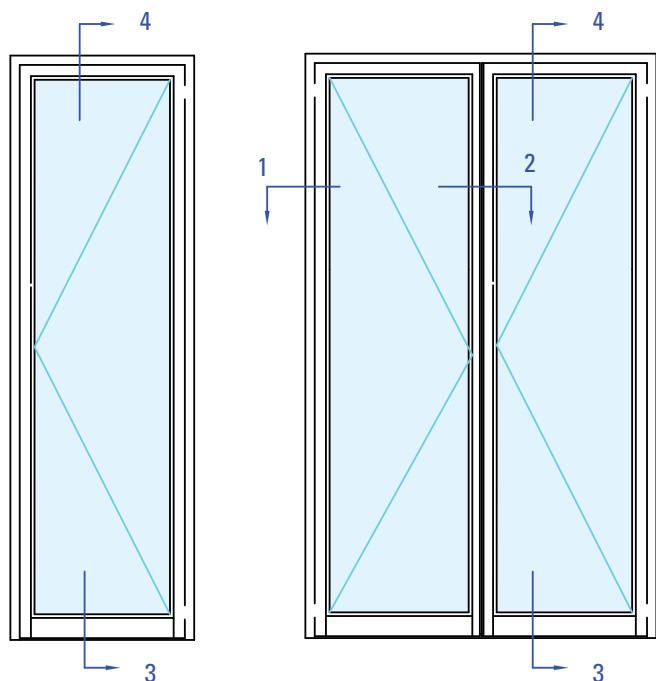
DOUBLE SWING DOOR



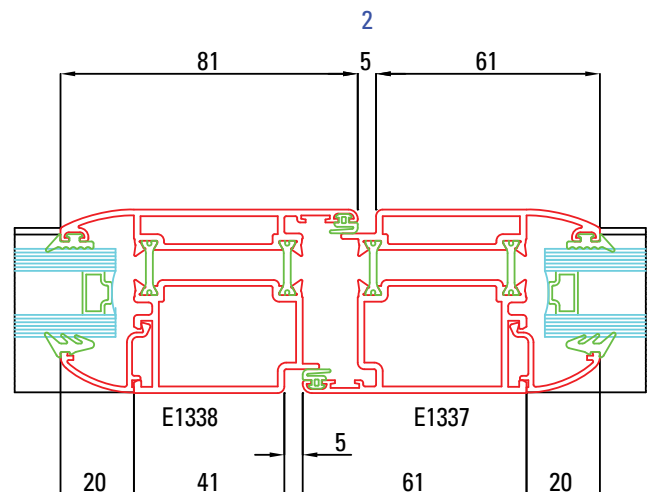
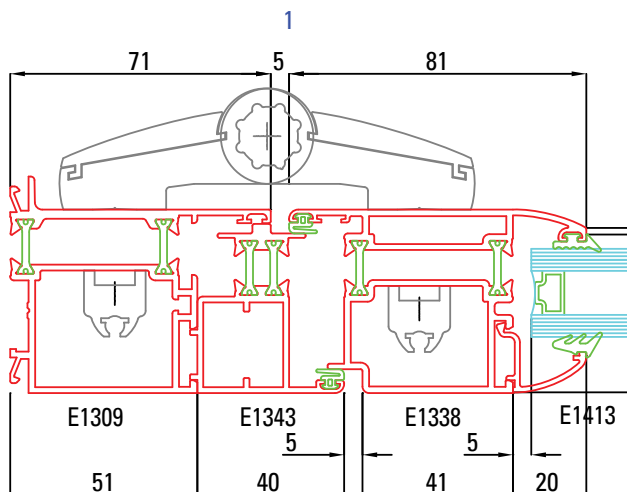
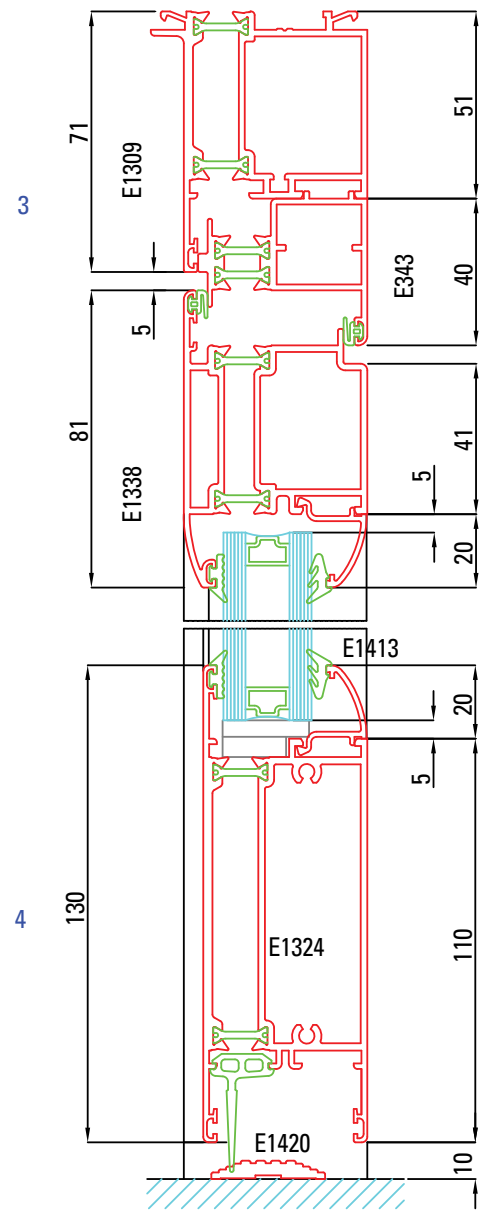
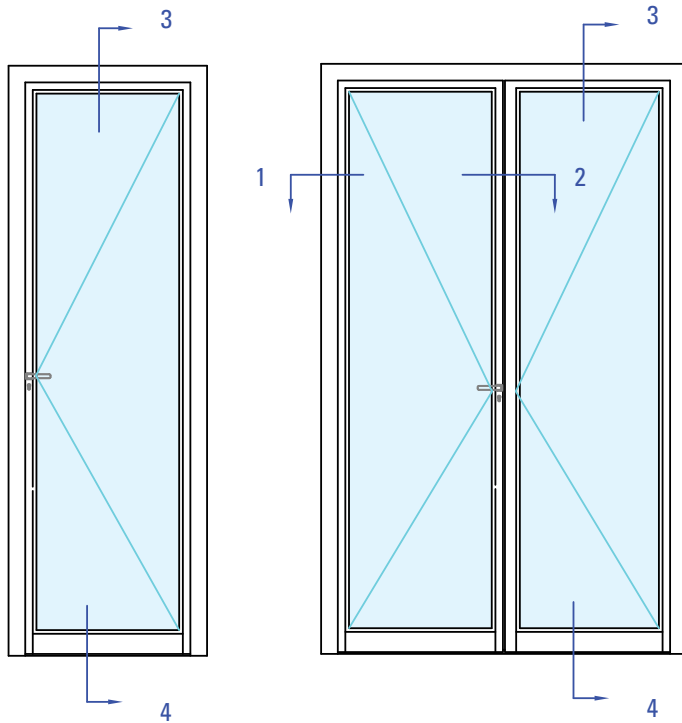
SHOP FRONT WITH WITH INSIDE OPEN DOOR

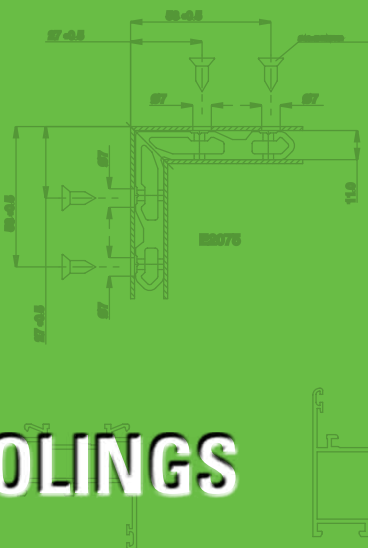


ONE & TWO LEAF DOOR INSIDE OPENING



ONE & TWO LEAF DOOR OUTSIDE OPENING

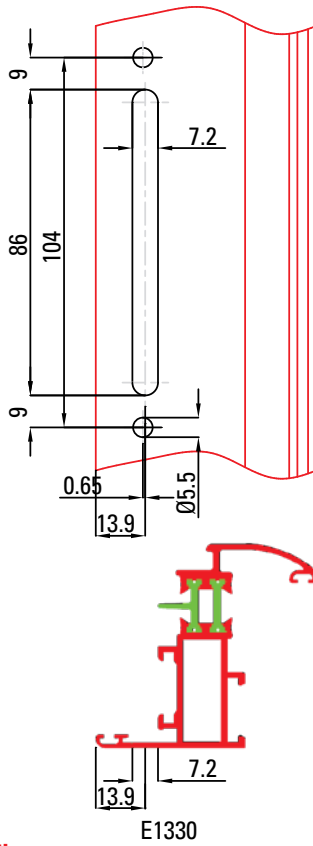




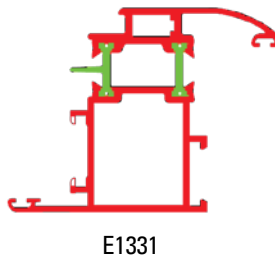
TOOLINGS

TOOLING HANDLE

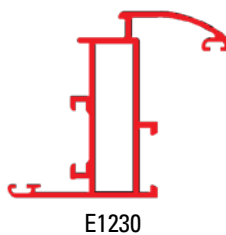
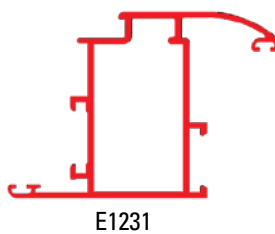
TOOLING FOR CREMONE



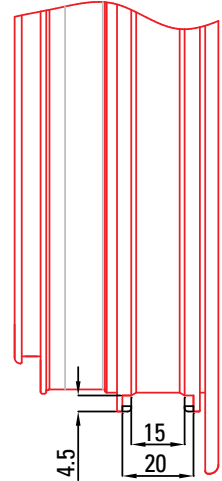
CASEMENT 45i



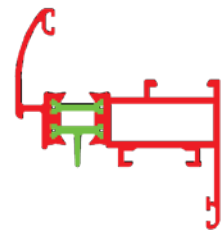
CASEMENT 45



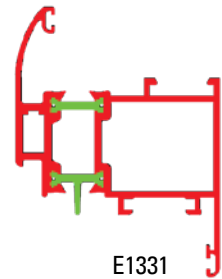
TOOLING FOR INSERTION OF
CONNECTION ROD COD. E1401



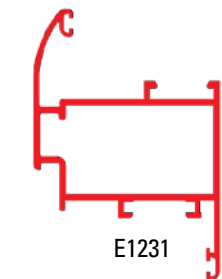
E1330



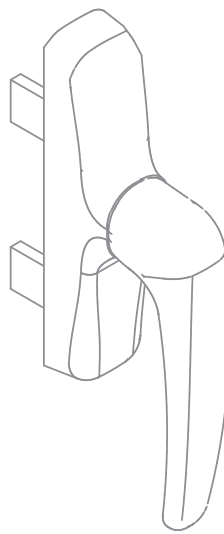
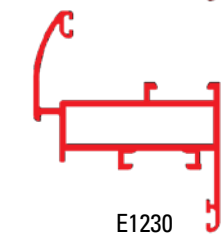
E1231



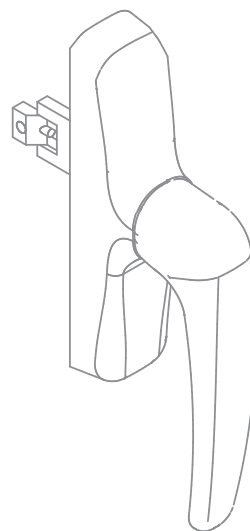
E1330



E1230



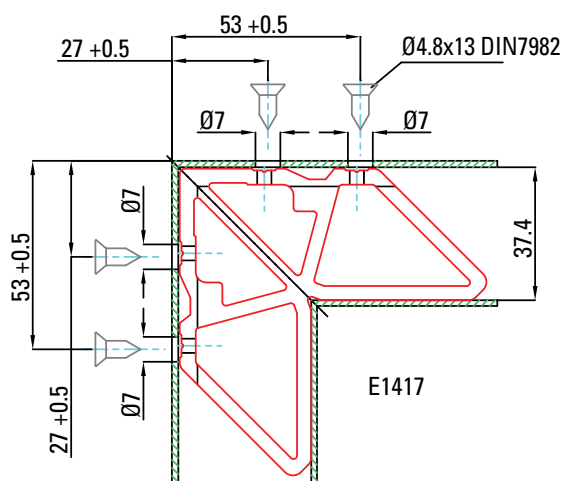
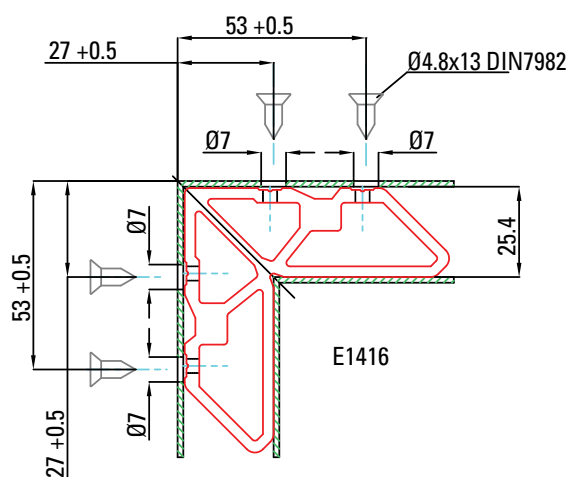
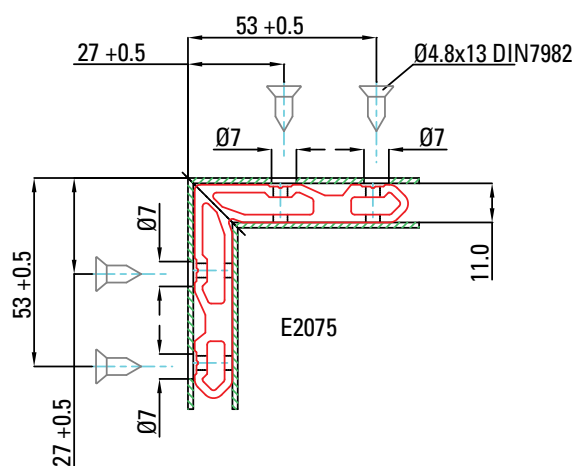
C0090



C0140

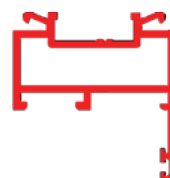
CORNER JOINT

EXAMPLE SCHEMES CORNER JOINT

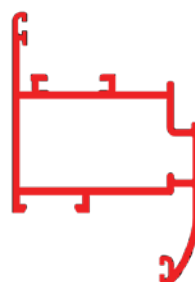


EXAMPLE PROFILES

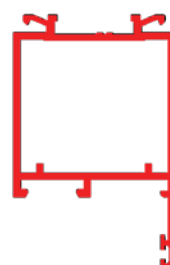
SYSTEM 45



E1201

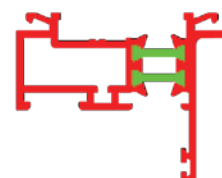


E1231

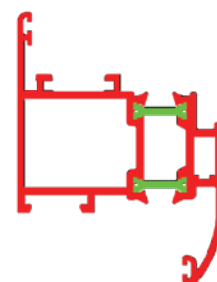


E1209

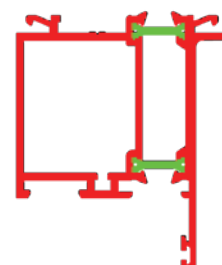
SYSTEM 45i



E1301



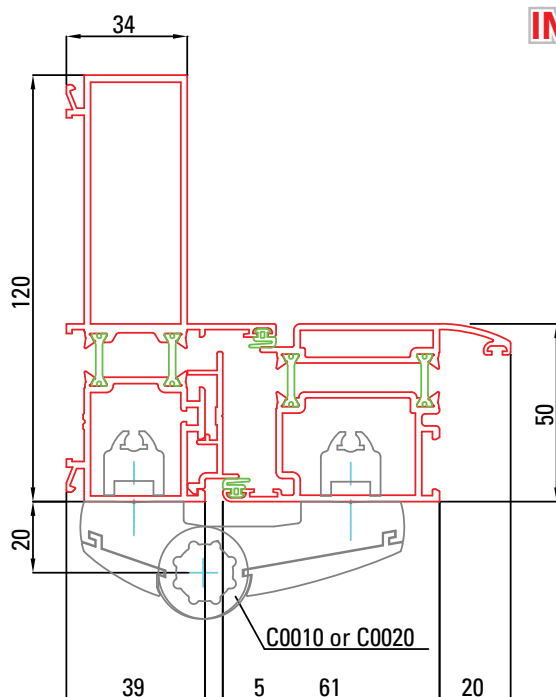
E1311



E1309

TOLL MOUNTING HINGE FOR DOORS

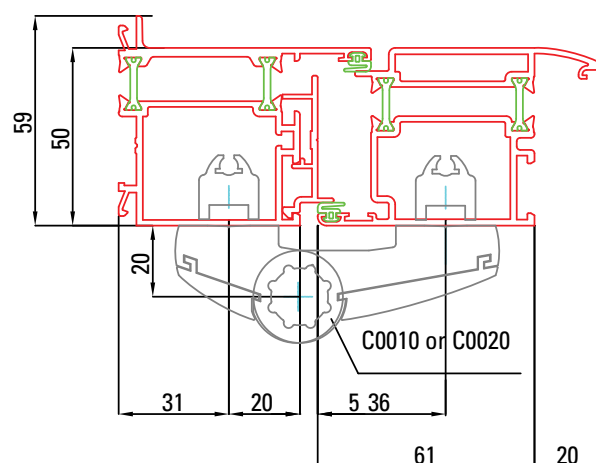
INSIDE OPENING



E1311

E1402

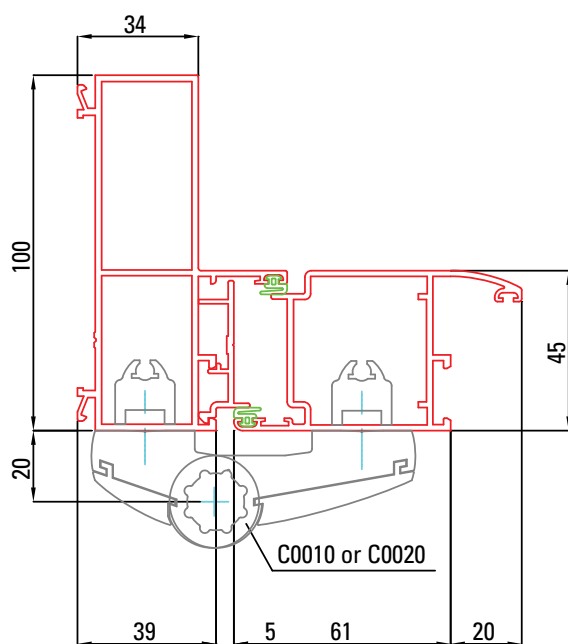
E1337



E1309

E1402

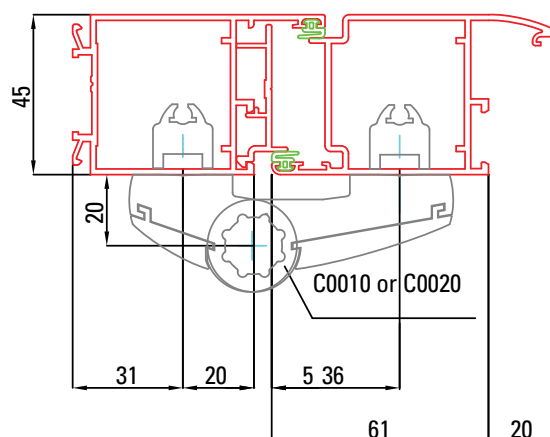
E1337



E1211

E1402

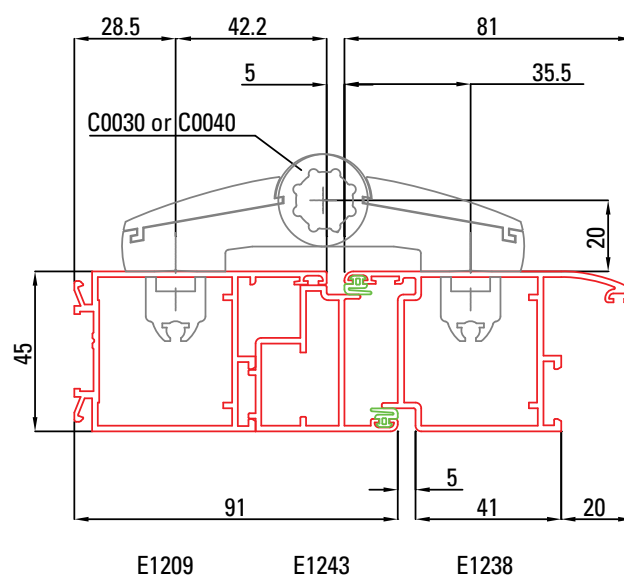
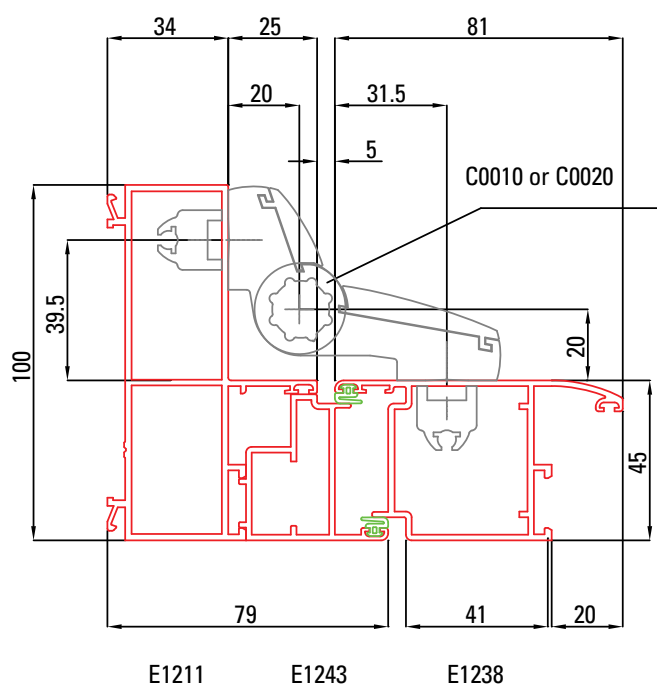
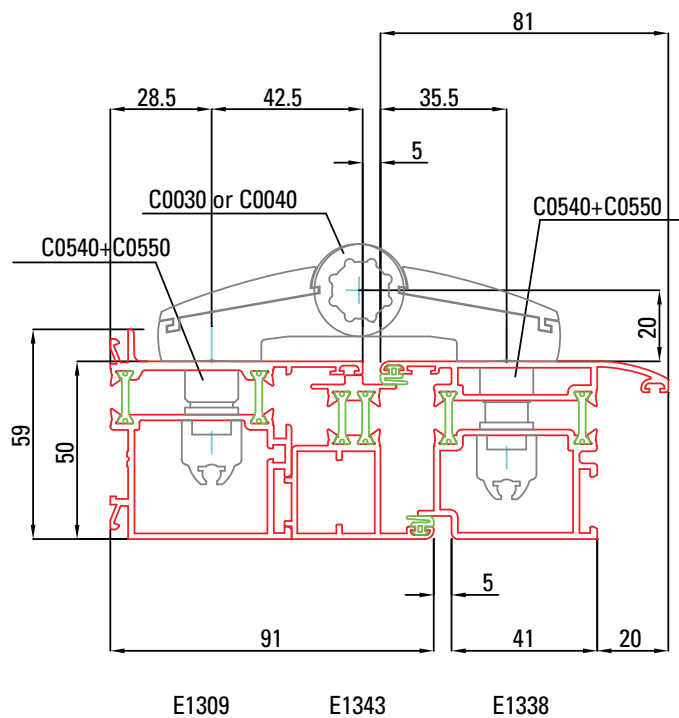
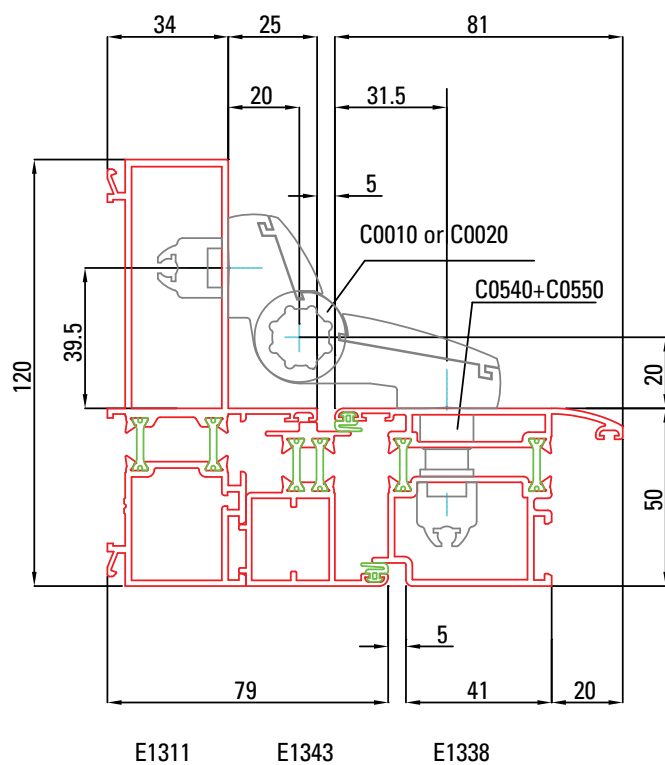
E1237



E1209

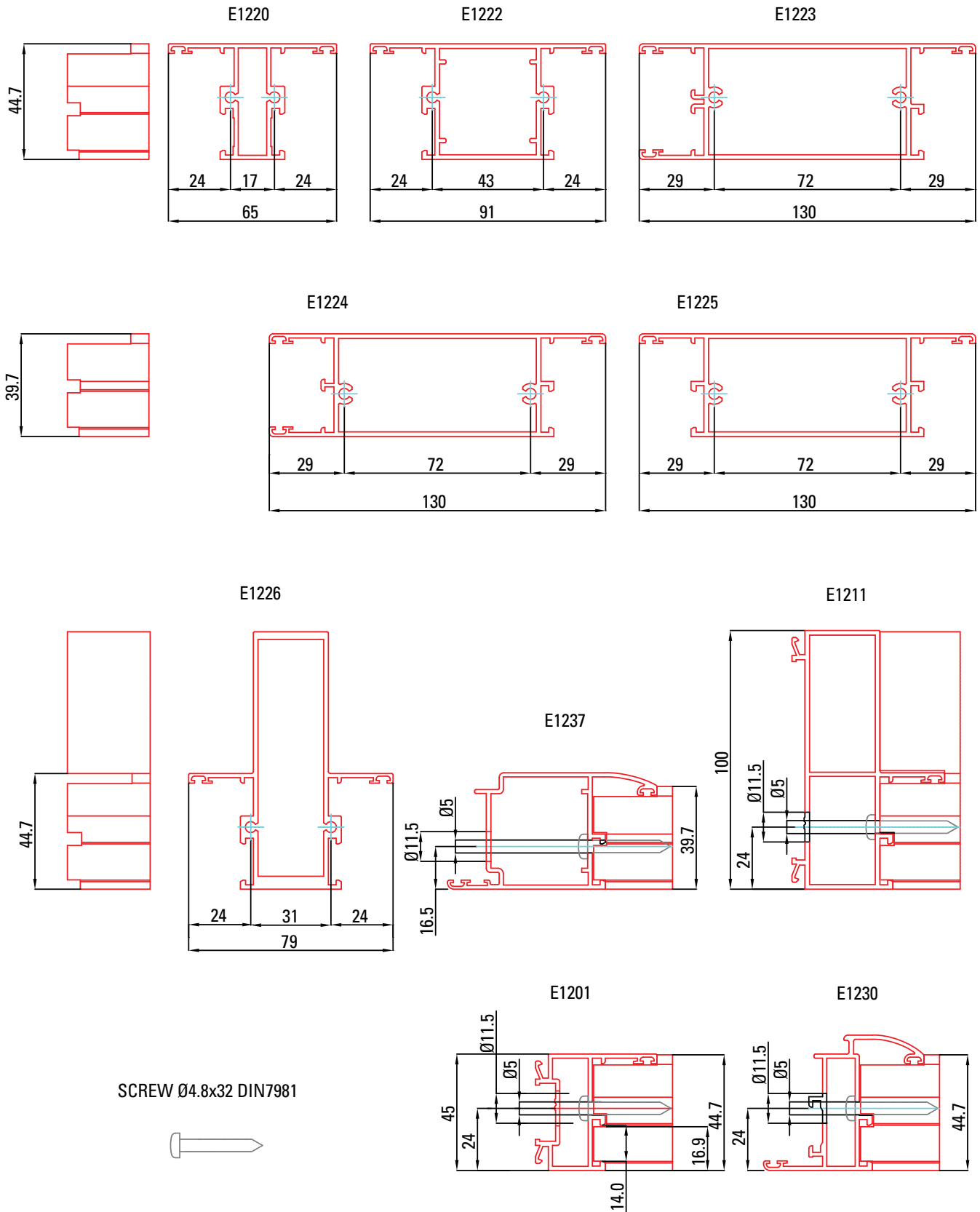
E1402

E1237

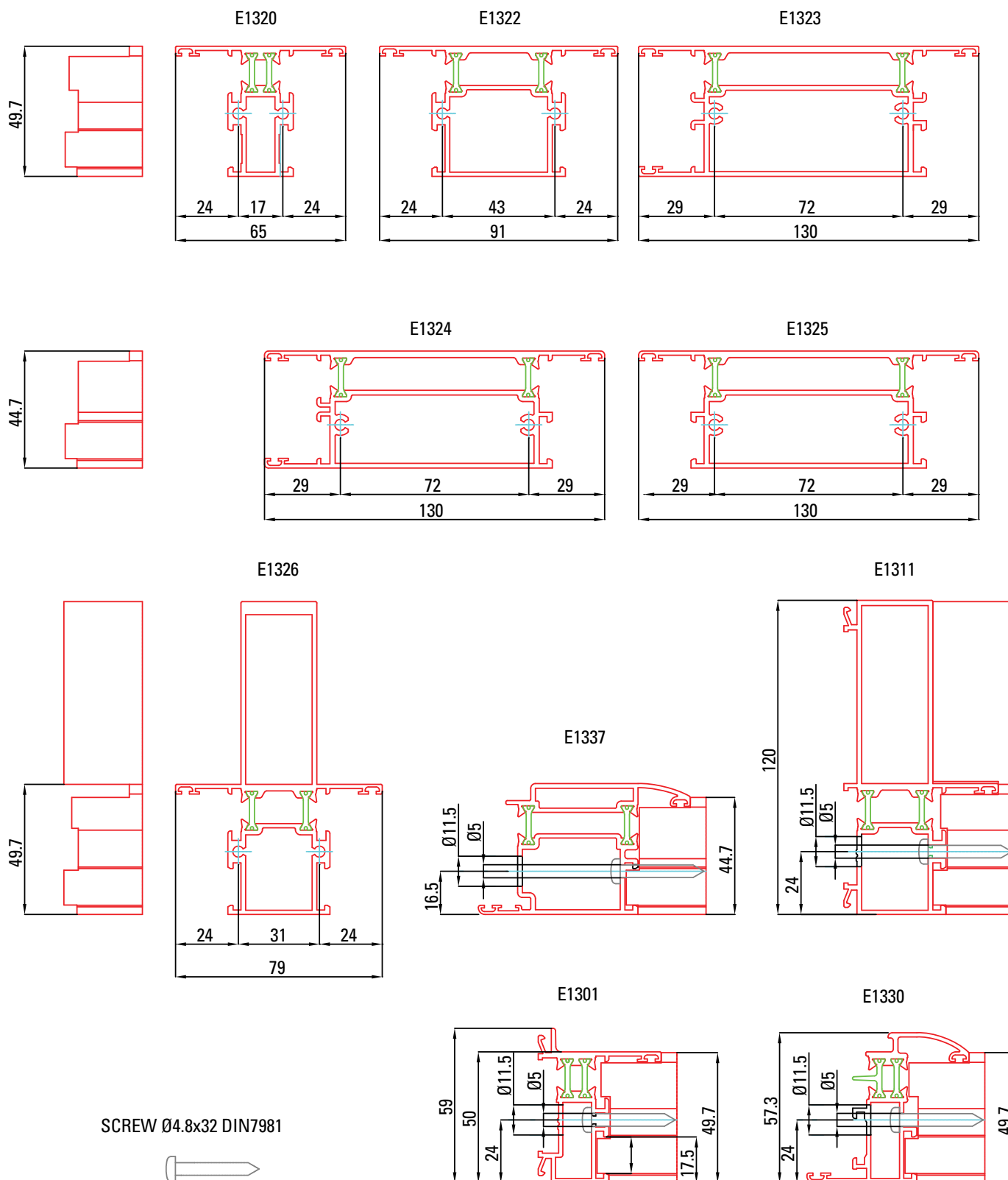
TOLL MOUNTING HINGE FOR DOORS**OUTSIDE OPENING**

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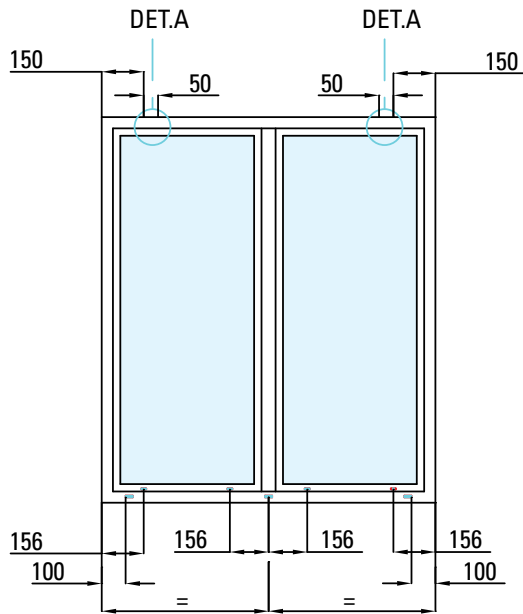
TOOLING FOR TRANSOMS



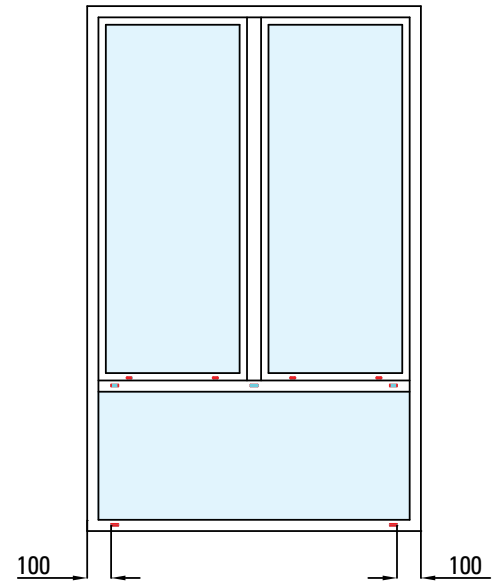
TOOLING FOR TRANSOM



TOOLING FOR WATER DRAINAGE

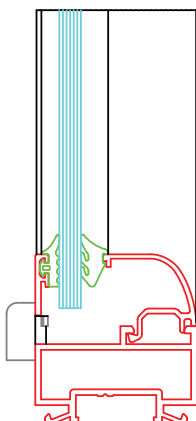
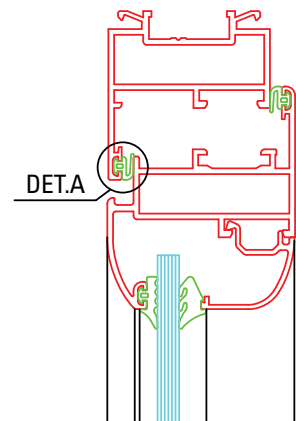
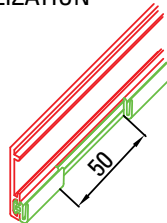


WATER DRAINAGE POSITION

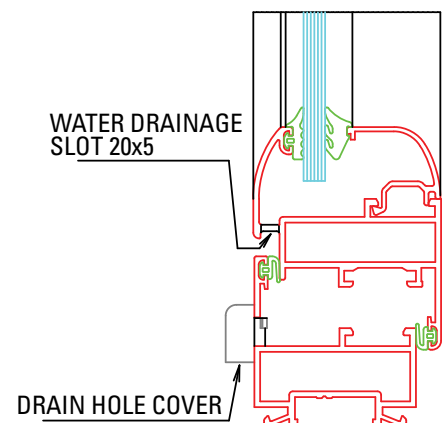
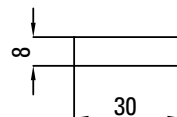


WATER DRAINAGE POSITION FIX PART

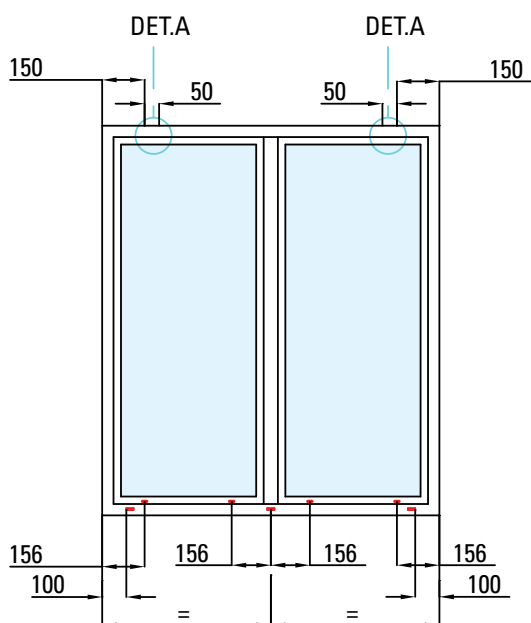
DETAIL "A"
INTERRUPTION OF GASKET
ON FRAME FOR PRESSURE
EQUALIZATION



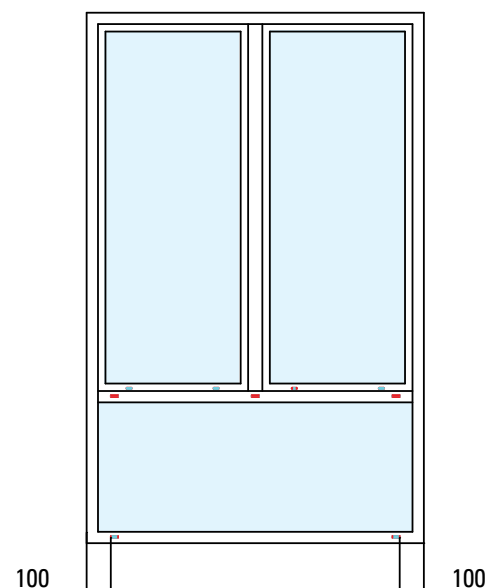
TOOLING SLOT FOR WATER DRAINAGE
NO. 2 SLOT MINIMUM
MAX. DISTANCE BETWEEN SLOT 900mm



TOOLING FOR WATER DRAINAGE

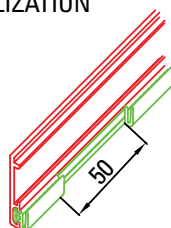


WATER DRAINAGE POSITION

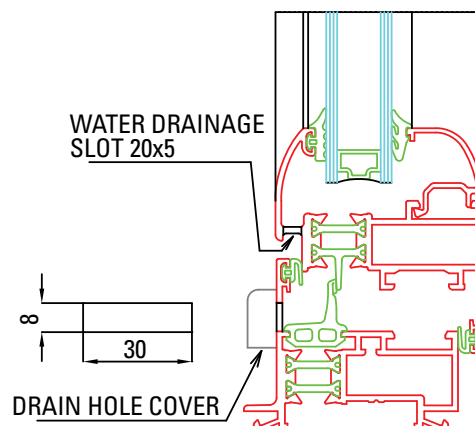
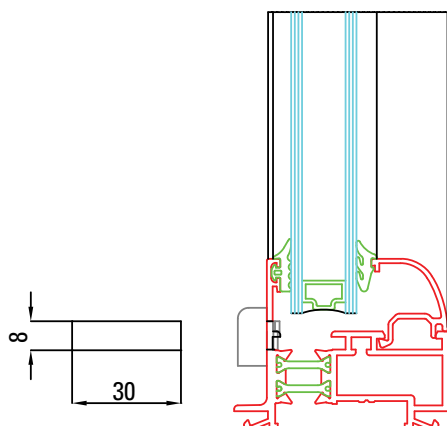
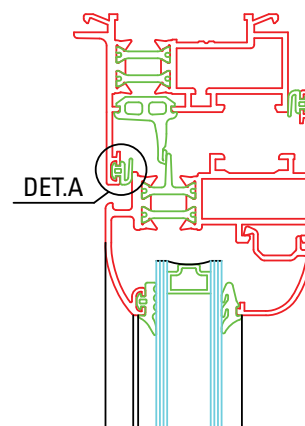


WATER DRAINAGE POSITION FIX PART

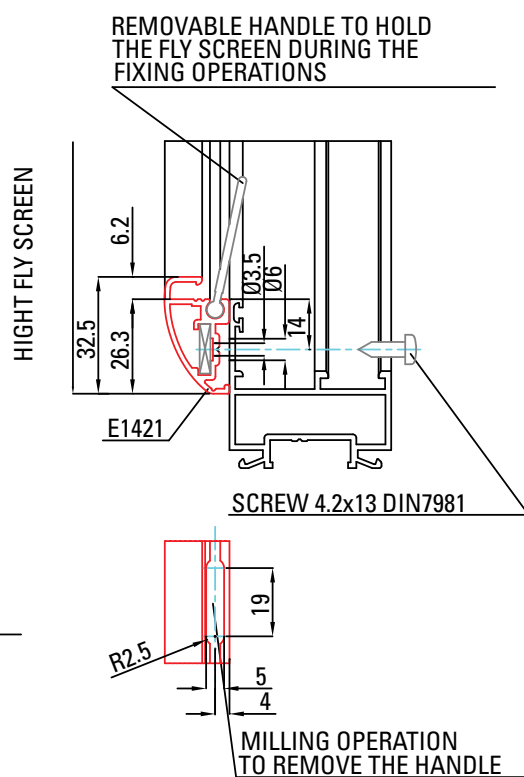
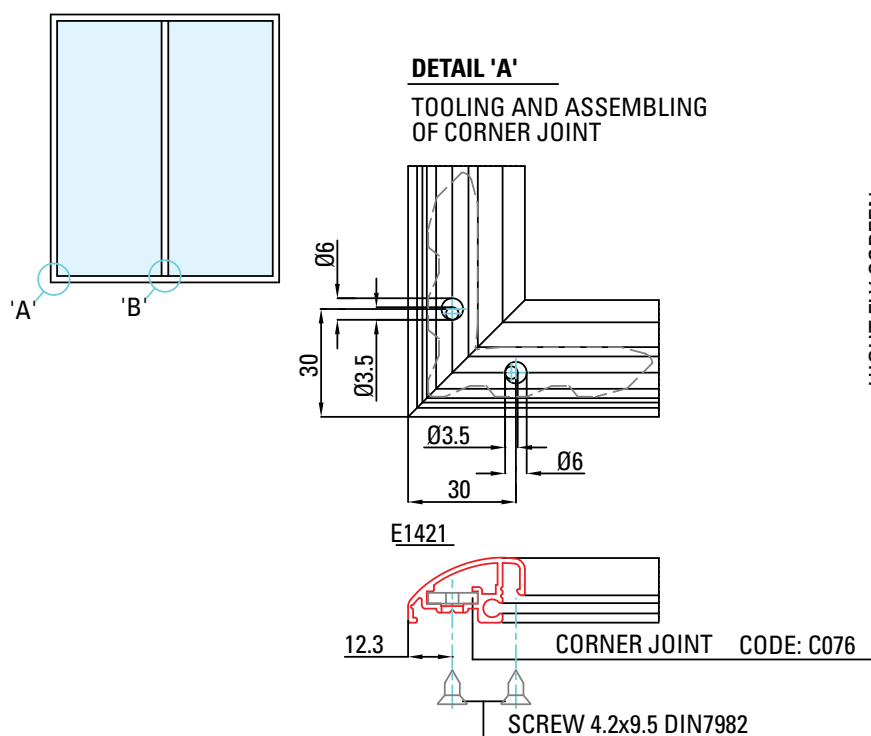
DETAIL "A"
INTERRUPTION OF GASKET
ON FRAME FOR PRESSURE
EQUALIZATION



TOOLING SLOT FOR WATER DRAINAGE
NO. 2 SLOT MINIMUM
MAX. DISTANCE BETWEEN SLOT 900mm

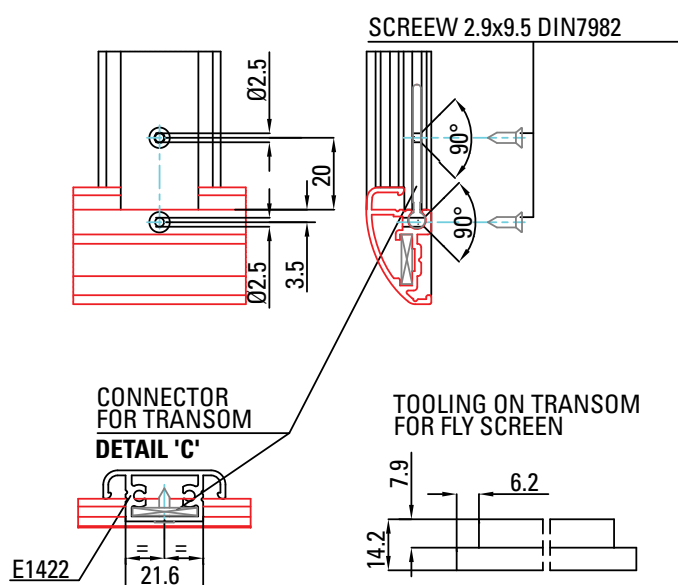


TOOLING FOR FLY SCREEN



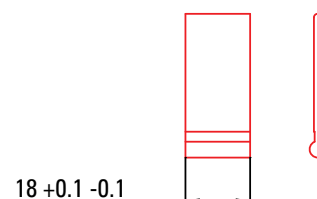
DETAIL 'B'

TOOLING AND ASSEMBLING OF CONNECTOR FOR TRANSOM

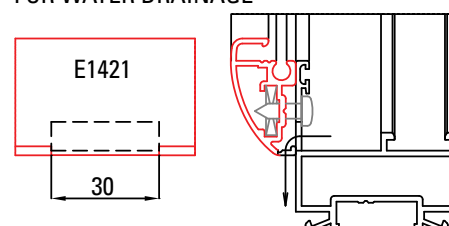


DETAIL 'C'

CUT DIMENSIONS FOR TRANSOM CONNECTOR PROFILE E1423

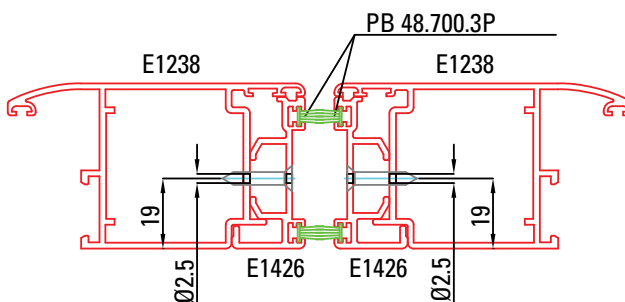
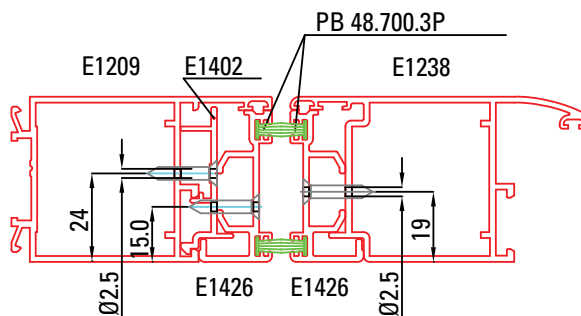
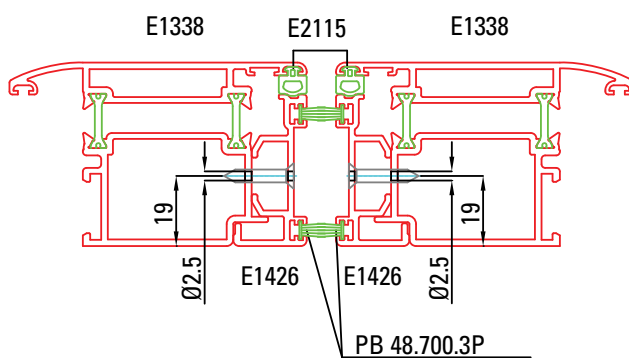
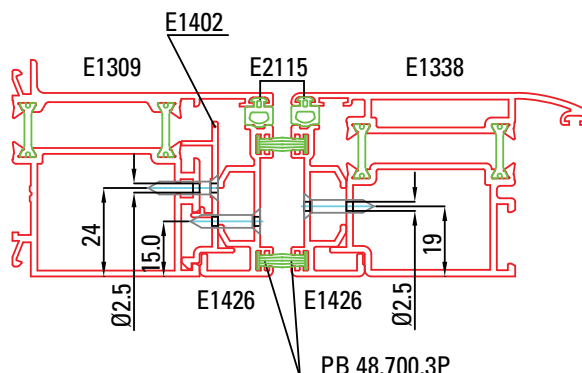


TOOLING ON FIXED FLY SCREEN FOR WATER DRAINAGE

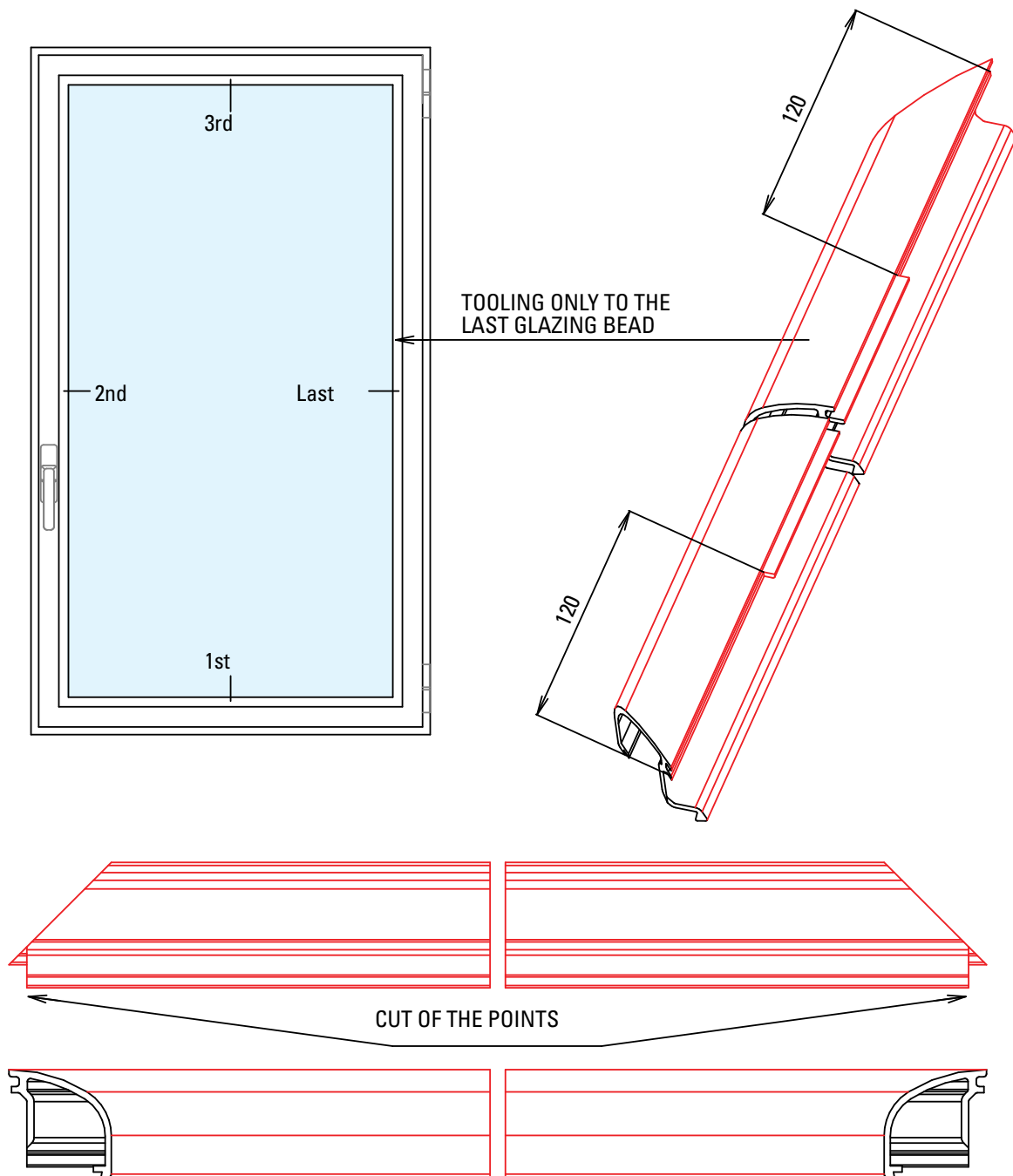


TOOLING FOR DOUBLE SWING DOORS

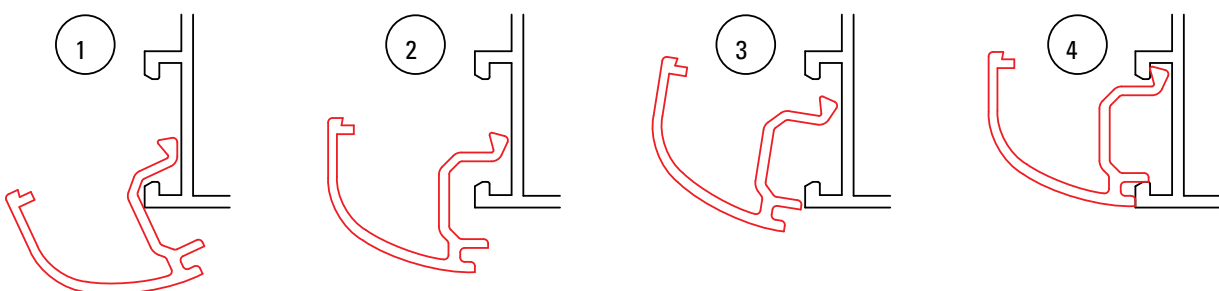
3.5x19 DIN7982

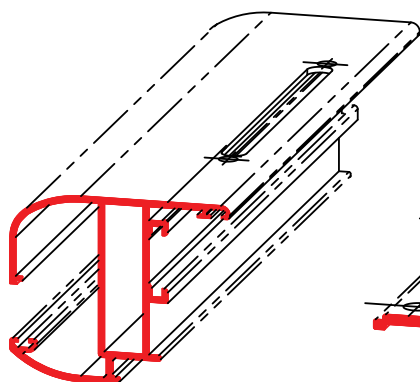


TOOLING FOR GLASS BEADING

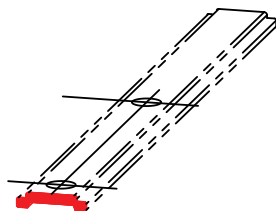


INSTALLATION SEQUENCE OF THE LAST GLAZING BEAD

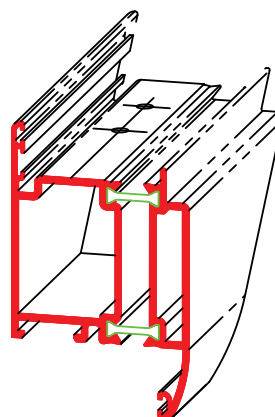




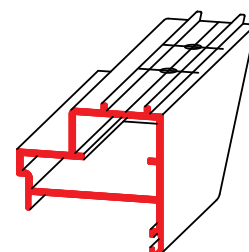
Tool n°1



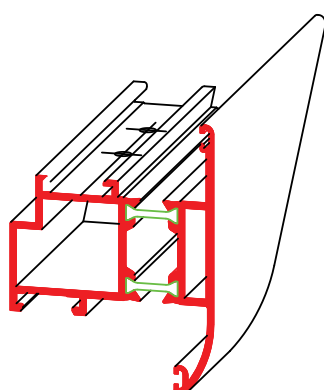
Tool n°2



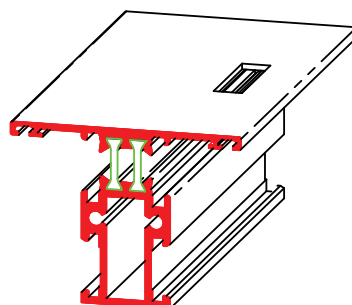
Tool n°3



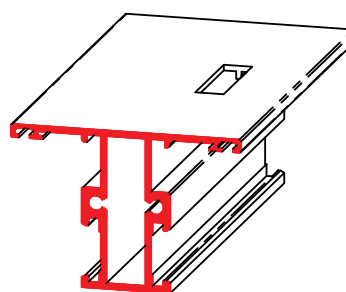
Tool n°3



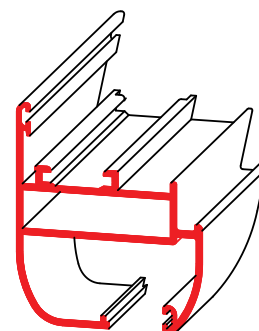
Tool n°3



Tool n°4

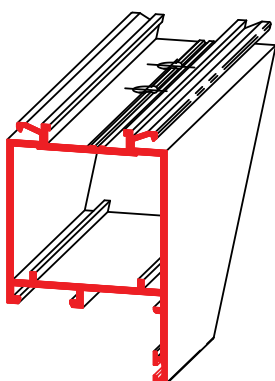


Tool n°4

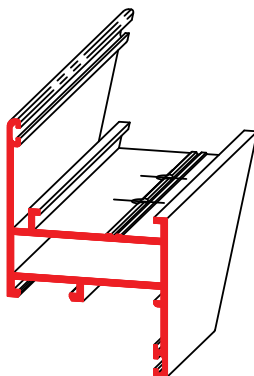


Tool n°5

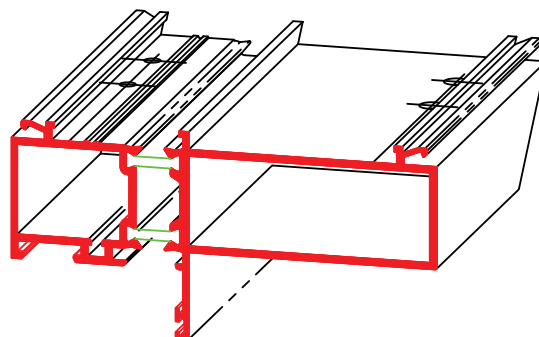
TOOLINGS 2770489A



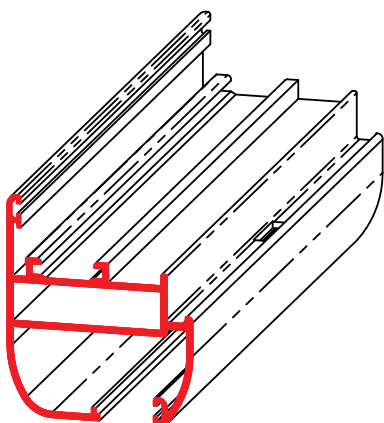
Tool n°6



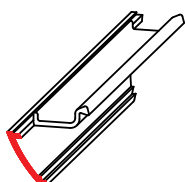
Tool n°6



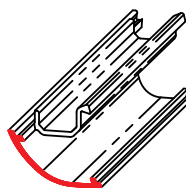
Tool n°6



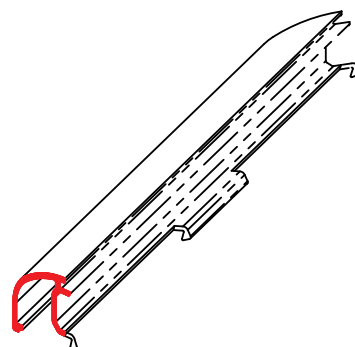
Tool n°7



Tool n°8



Tool n°9

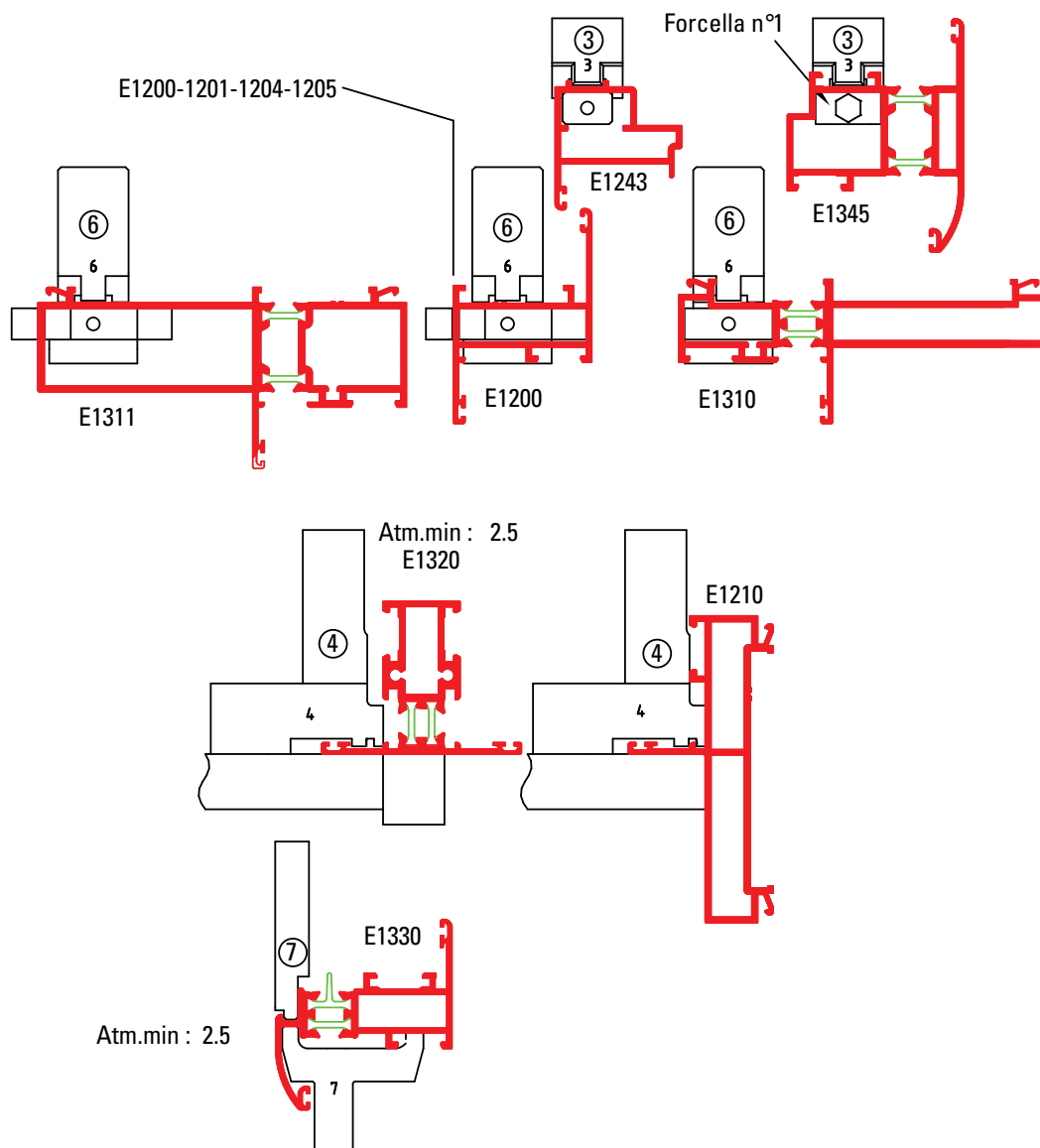


Tool n°10

- [illegible]

EQUIPMENT 2770489

- ⑦ Serie 45I : Sq.tta 1159.1 (28.4X37.4) E1309
 Serie 45I : Sq.tta 1153.2 (67.5x10.6) E1310 (con forcella n²)
 Serie 45I : Sq.tta 1156.1 (67.5x25) E1331 (con forcella n²)
 Serie 45I : Sq.tta 1153.4 (28.7x10.6) E1300 - E1301 - E1304 - E1305 -E1314
 E1330 - E1310
 Serie 45I : Sq.tta 1156.3 (28.7x25) E1311 - E1315 - E1316 - E1331
 Serie 45 : E1230 - E1232 - E1233 - E1249
 Serie 45I : E1330
- ⑧ Serie 45 : E1413 - E1414
- ⑨ Serie 45 : E1410 - E1411 - E1412
 Serie 45 : E1410 - E1411 - E1412
- ⑩ Serie 45 : E1413 - E1414



The System described is subject to design changes or improvements with or without notice and Balexco will accept no liability on the final application or use of the system.



Bahrain Aluminium Extrusion Company (Balexco)

HEAD OFFICE, SITRA: P.O. Box 1053, Manama, Kingdom of Bahrain
Tel : +973 17730073, +973 17734459, Fax : +973 17736928/29, +973 17736517
Email : blxsales@balexco.com.bh, Website: www.balexco.com.bh

BALEXCO, (SALMABAD): P.O. Box 1053, Manama, Kingdom of Bahrain
Tel: +973 17877110, Fax: +973 17789088

UAE OFFICE: Flat 102, Khalid Bin Al Waleed Road
P.O. Box 12185, Hamriya Street, NBQ Bldg, Dubai, UAE.
Tel : +971 4 3973170, Fax : +971 4 3973570. Email: balexco@emirates.net.ae

SAUDI ARABIA OFFICE: Saudi Bahraini Aluminium Extrusion Co.
P.O. Box 440, Riyadh 11391, Kingdom of Saudi Arabia.
Tel: +966 1 2442060, Fax: +966 1 2441091