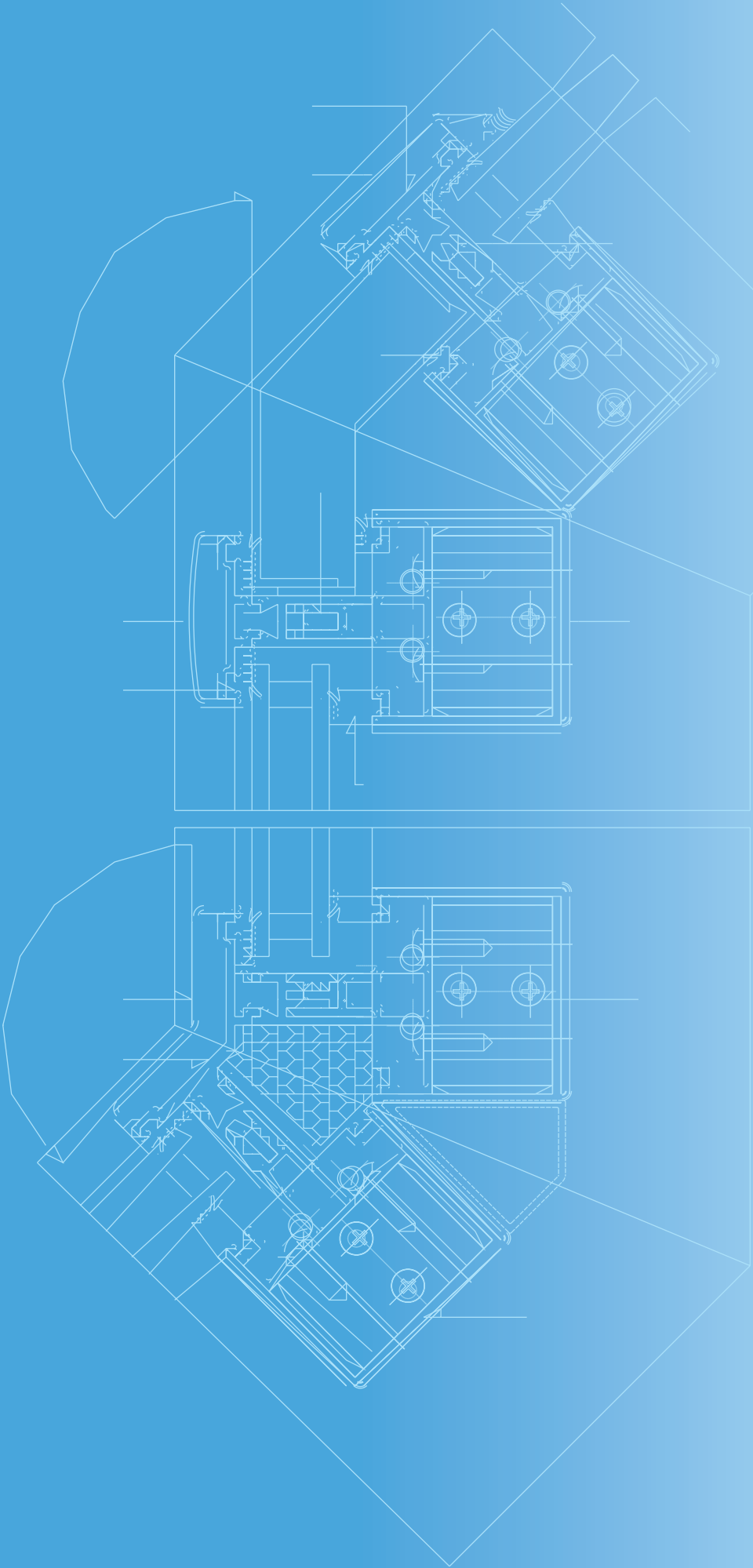
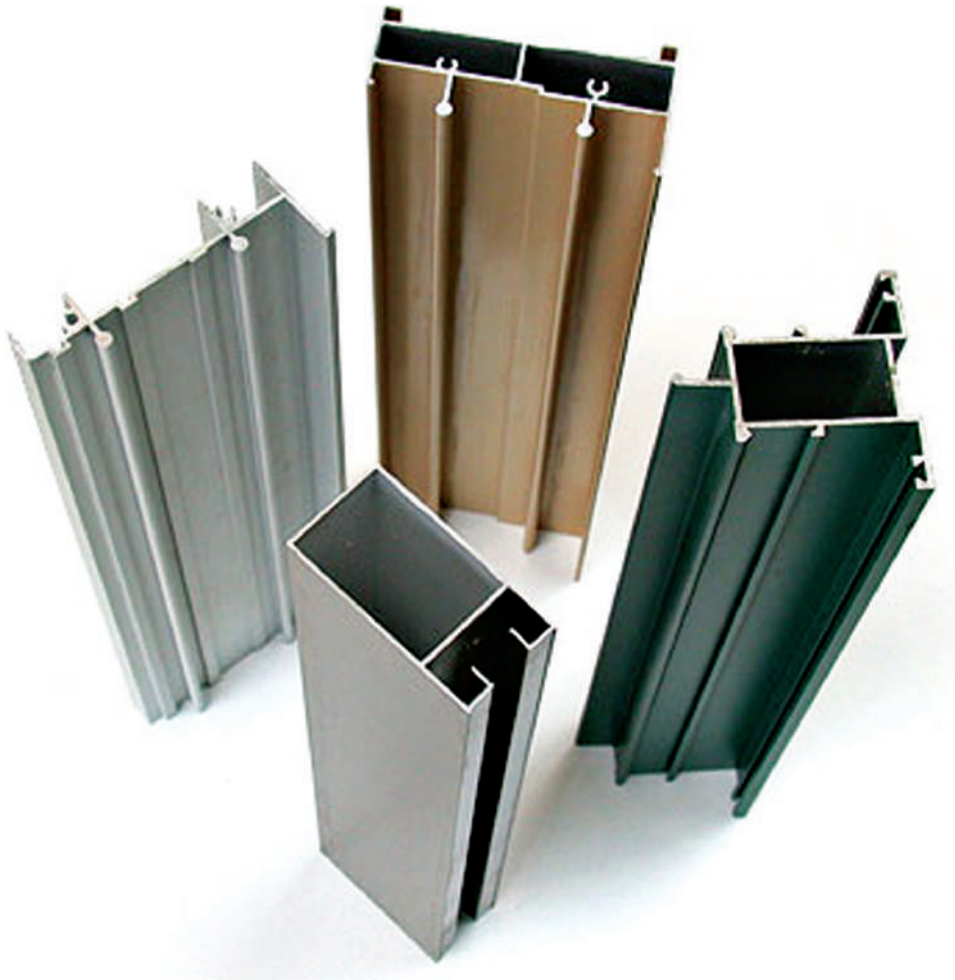




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## Company Profile - Historical Overview of Bahrain Aluminium Extrusion Company (Balexco)

Established in 1977, Bahrain Aluminium Extrusion Company (Balexco) is one of the pioneering industrial enterprises in the Kingdom of Bahrain and the Gulf region, specializing in aluminium extrusion and architectural aluminium systems. The company was founded as part of Bahrain's strategic vision to expand its downstream aluminium industry, capitalizing on the availability of raw aluminium from Aluminium Bahrain (Alba).

Over the past four decades, Balexco has solidified its position as a trusted manufacturer of aluminium profiles and system solutions, creating to a wide range of applications including windows, doors, and curtain wall façades - all built to the highest standards of quality, performance, and design.

## Growth and Expansion

- Balexco initially focused on serving the local Bahraini market with a single extrusion line, but rapidly expanded across the GCC region.
- In the late 1990 and early 2000s, Balexco introduced advanced anodizing and powder coating lines, while developing in-house systems tailored for regional architectural needs.
- Over the years, Balexco expanded its footprint across various Arab markets and began exporting selected systems to European countries - particularly those seeking high-quality, competitively priced aluminium solutions.
- In 2025, the company launched Balexco PRIMO, an advanced thermal-break system designed to meet the technical and architectural standards of both Gulf and European markets, offering superior insulation, durability, and ease of installation.

## لمحة تاريخية عن شركة البحرين لسحب الألمنيوم (بلكسكو)

تأسست شركة البحرين لسحب الألمنيوم (بلكسكو) في عام 1977، لتكون من أوائل الشركات الصناعية المتخصصة في سحب وتشكيل مقاطع الألمنيوم في مملكة البحرين ومنطقة الخليج العربي. وجاء تأسيسها انطلاقاً من رؤية استراتيجية تهدف إلى دعم قطاع الصناعات التحويلية، والاستفادة من توفر معدن الألمنيوم الخام المنتج محلياً عبر شركة ألمنيوم البحرين (ألبا).

على مدى أكثر من أربعة عقود، استطاعت بلكسكو أن ترسخ مكانتها كشركة رائدة في تصميم وتصنيع أنظمة الألمنيوم المعمارية، وتقديم حلول هندسية متكاملة للنوافذ، الأبواب، والواجهات الزجاجية، مع المحافظة على أعلى معايير الجودة والابتكار.

## التوسع والنمو

- بدأت بلكسكو عملياتها بطاقة إنتاجية محدودة موجهة للسوق المحلي، لكنها سرعان ما توسعت لتغطي كافة دول مجلس التعاون الخليجي.
- مع نهاية التسعينات وبداية الألفية، طورت الشركة خطوط إنتاجها لتشمل الطلاء بالأنودة والبودرة، ووسعت محفظتها لتشمل أنظمة معمارية متقدمة.
- خلال العقدتين الماضيتين، عززت بلكسكو حضورها في الأسواق الخليجية والعربية، وبدأت تصدير منتجاتها إلى بعض الأسواق الأوروبية، لاسيما تلك التي تبحث عن أنظمة ذات جودة هندسية عالية وبأسعار تنافسية.
- في عام 2025، أطلقت بلكسكو نظام "بريمو" Balexco PRIMO - الذي يلبي المتطلبات الفنية والمعمارية للأسواق الخليجية والأوروبية، من حيث العزل، المتانة، وسهولة التركيب.

## منتجات الشركة

- أنظمة نوافذ وأبواب مفصليّة ومنزلة
- أنظمة واجهات زجاجية (Curtain Walls)
- أنظمة معزولة حرارياً وصوتياً
- أنظمة خاصة للمباني التجارية والسكنية
- نظام بريمو PRIMO - المصمم ليتوافق مع المعايير الخليجية والأوروبية في الأداء والمتانة.

## Company Mission

To build long-term strategic partnerships with our clients by delivering high-quality, cost-effective products and reliable technical support tailored to their needs.

## رسالة الشركة

بناء شراكات استراتيجية طويلة الأمد مع عملائنا من خلال تقديم منتجات عالية الجودة وفعالة من حيث التكلفة، إلى جانب دعم فني موثوق يلبي احتياجاتهم.

## Company Vision

To be the preferred provider of innovative, high-efficiency, and environmentally sustainable architectural aluminium solutions across regional and global markets.

## رؤية الشركة

أن تكون بلكسكو المزود المفضل لحلول الألمنيوم المعمارية المبتكرة وعالية الكفاءة، والمستدامة بيئيًا، في الأسواق الإقليمية والعالمية.

## Product Portfolio

- Hinged and sliding window and door systems
- High-performance curtain wall and façade systems
- Thermally insulated and acoustically enhanced solutions
- Custom systems for commercial and residential buildings
- Balexco PRIMO - the latest generation system developed to comply with GCC and European performance standards

## منتجات الشركة

- أنظمة نوافذ وأبواب مفصليّة ومنزلقة
- أنظمة واجهات زجاجية (CurtainWalls)
- أنظمة معزولة حراريًا
- أنظمة خاصة للمباني التجارية والسكنية
- نظام بريمو PRIMO - المصمم ليتوافق مع المعايير الخليجية والعربية، وبعض الأسواق الأوروبية، عبر تقديم منتجات تقدمية تقنيًا، ومستدامة بيئيًا، ومصنّعة بكفاءة عالية.

# BSi

## Test Certificates Quality & Standards Wind Load Resistance



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Huwait Institute for Scientific Research



معهد الكويت للأبحاث العلمية

|                       |                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------|
| <b>Client</b>         | Balexco                                                                             |
| <b>Sample</b>         | Curtain Wall ( 300 cm X 250 cm )<br>Balexco 60<br>Profile drawing attached          |
| <b>Test Requested</b> | Air infiltration Test<br><br>Water Infiltration Test<br><br>Rate of Deflection Test |

The results reported in this report related to the samples submitted by the client and to no other

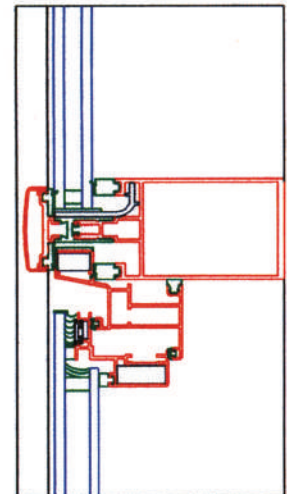
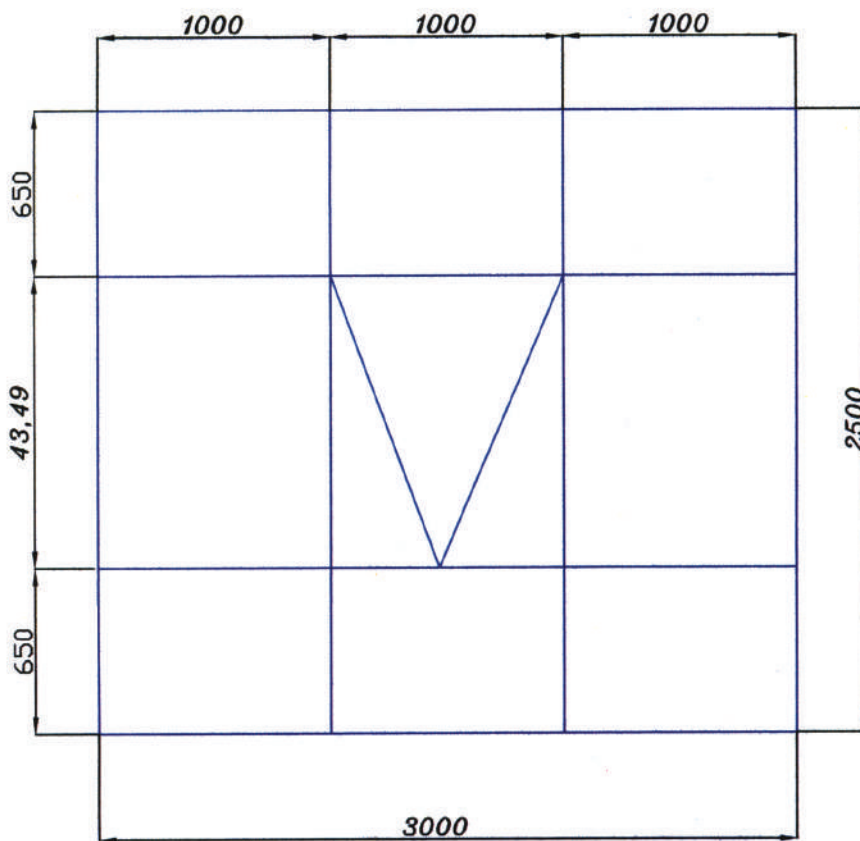
| Pressure<br>Pa | Pressure<br>Kg / m <sup>3</sup> | Water Leakage<br>Observed | Rate of Deflection mm<br>@ Center Point in mm | Air Infiltration<br>m <sup>3</sup> / hr / lin.m* |
|----------------|---------------------------------|---------------------------|-----------------------------------------------|--------------------------------------------------|
| 0              | 0                               | None                      | 0                                             | 0                                                |
| 50             | 5.10                            | None                      | 0                                             | 0.29                                             |
| 100            | 10.20                           | None                      | 0                                             | 0.42                                             |
| 150            | 15.31                           | None                      | 0                                             | 0.51                                             |
| 200            | 20.41                           | None                      | 0                                             | 0.61                                             |
| 300            | 30.61                           | None                      | 0                                             | 0.74                                             |
| 400            | 40.82                           | None                      | 0.04                                          | 0.90                                             |
| 500            | 51.02                           | None                      | 0.06                                          | 1.08                                             |
| 600            | 61.22                           | None                      | 0.47                                          | 1.26                                             |

\* Lin.m : Linear Meter

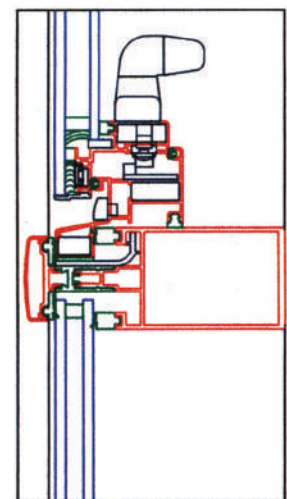
#### **Water Infiltration Test**

Water was applied at a rate of 3.51 / m<sup>2</sup>.min for 15 min at pressures given above.

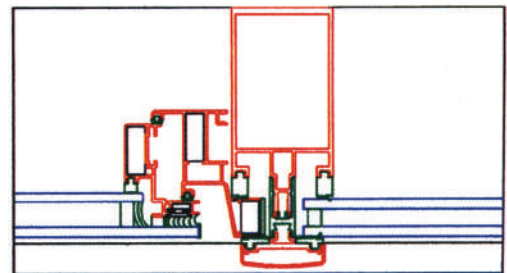
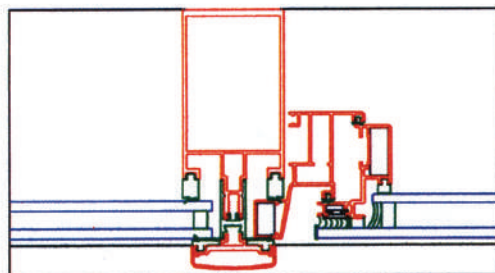
## CONVENTIONAL SYSTEM



GLASS 6-15-6



GLASS 6-12-6



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Huwait Institute for Scientific Research



معهد الكويت للأبحاث العلمية

**Client** Balexco

**Sample** Curtain Wall ( 300 cm X 250 cm )  
Balexco 60  
Profile drawing attached

**Test Requested** Air infiltration Test  
Water Infiltration Test  
Rate of Deflection Test

The results reported in this report related to the samples submitted by the client and to no other

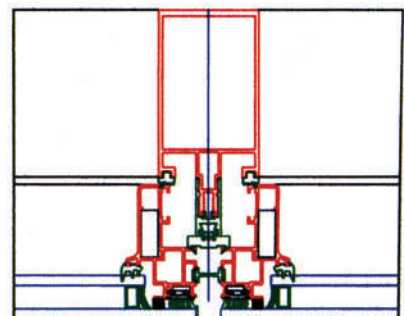
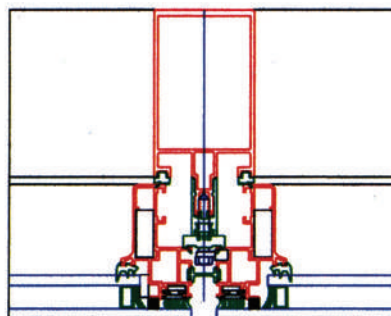
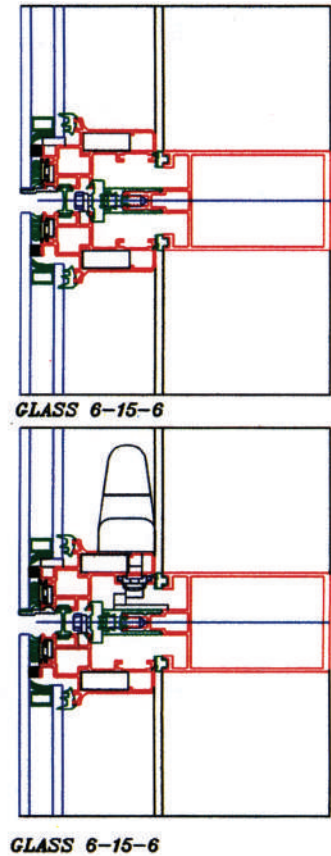
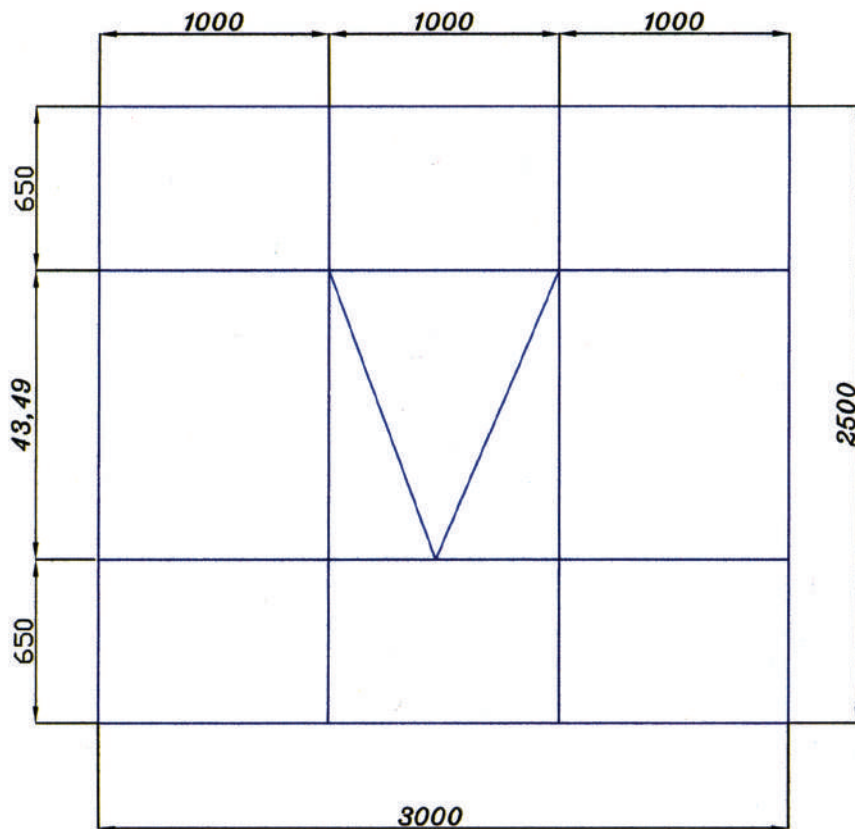
| Pressure<br>Pa | Pressure<br>Kg / m <sup>3</sup> | Water Leakage<br>Observed | Rate of Deflection mm<br>@ Center Point in mm | Air Infiltration<br>m <sup>3</sup> / hr / lin.m* |
|----------------|---------------------------------|---------------------------|-----------------------------------------------|--------------------------------------------------|
| 0              | 0                               | None                      | 0                                             | 0                                                |
| 50             | 5.10                            | None                      | 0                                             | 0.70                                             |
| 100            | 10.20                           | None                      | 0                                             | 0.94                                             |
| 150            | 15.31                           | None                      | 0                                             | 1.12                                             |
| 200            | 20.41                           | None                      | 0                                             | 1.30                                             |
| 300            | 30.61                           | None                      | 0                                             | 1.55                                             |
| 400            | 40.82                           | None                      | 0                                             | 1.81                                             |
| 500            | 51.02                           | None                      | 0                                             | 2.09                                             |
| 600            | 61.22                           | None                      | 0                                             | 2.24                                             |

\* Lin.m : Linear Meter

#### Water Infiltration Test

Water was applied at a rate of 3.51 / m<sup>2</sup>.min for 15 min at pressures given above.

## STRUCTURAL GLAZING SYSTEM



## PRODUCT SPECIFICATIONS

### 3.1.4 Dimensions and Shapes

Dimension tolerances are divided into two categories as mentioned below :

#### Category I:

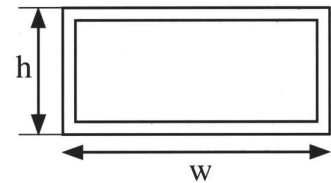
#### Standard Dimensional Tolerances

( DIN 1748, Part 4, Standard )

#### Dimensions

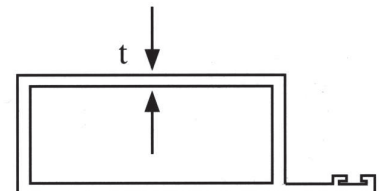
(Width (W) and Height (h)) - mm

| 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      |



## PRODUCT SPECIFICATIONS

### Concavity/Convexity (E) mm

Solid Sections

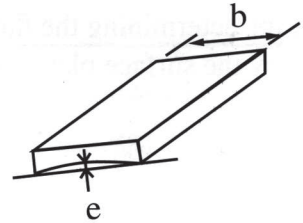
$$: e = 0.005 \times b$$

(minimum 0.20 mm)

Hollow Sections

$$: e = 0.01 \times b$$

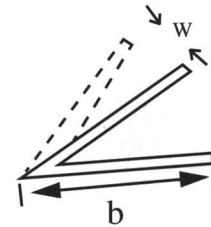
(minimum 0.30 mm)



### 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°                                                                                    |



## 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.

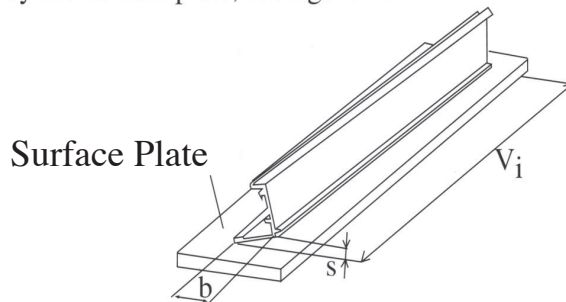
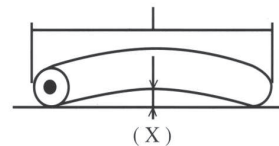


Figure A.

Table 8. Flatness tolerance

| Width $b$ |       | Normal-straightened (N)<br>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<br>Up to 2 | Over 2<br>Up to 3 | Over 3<br>Up to 4 | Over 4<br>Up to 5 | Over 5<br>Up to 6 | Over 6<br>Up to 7 | Over 7               |
|------------------------|---------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|
| Tolerance in mm "X"    | 1       | 4                 | 6                 | 7                 | 8                 | 9                 | 12                | Subject to agreement |

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

### 3. Category II:

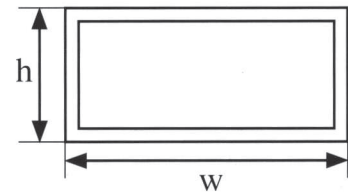
### Special Dimensional Tolerances

DIN 17615, Part 3 Standard

#### Dimensions

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

| Over | To  | Tolerance |
|------|-----|-----------|
|      |     | $\pm$     |
| -    | 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      |



## 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/<br>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                    |

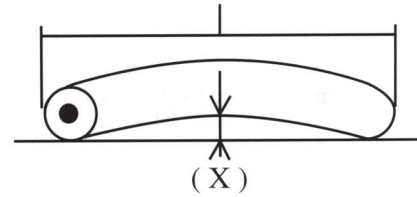
### Angularity (W) The values of angularity tolerance

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

## 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 | -<br>Up to 1000                          | Over 1000<br>Up to 2000 | Over 2000<br>Up to 3000 | Over 3000<br>Up to 4000 | Over 4000<br>Up to 5000 | Over 5000<br>Up to 6000 | Over 6000<br>-  |
| -          | 25    | 1.0                                      | 1.5                     | 1.5                     | 2.0                     | 2.0                     | 2.0                     | To be<br>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.

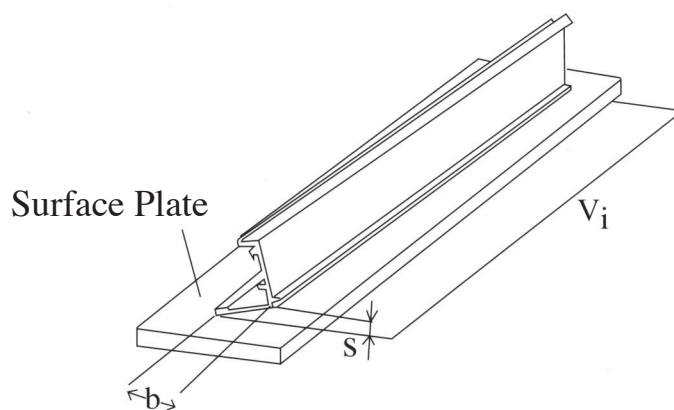


Figure B.

## 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<br>circumscribing circle<br>d <sub>u</sub> |       | Limit deviation for specified lengths, multiple lengths and<br>underlengths |                         |                         |                |
|-----------------------------------------------------------------|-------|-----------------------------------------------------------------------------|-------------------------|-------------------------|----------------|
| Over                                                            | Up to | -<br>Up to 1000                                                             | Over 1000<br>Up to 2000 | Over 2000<br>Up to 5000 | Over 5000<br>- |
| -                                                               | 25    | +2<br>0                                                                     | +3<br>0                 | +5<br>0                 | +10<br>0       |
| 25                                                              | 50    | +3<br>0                                                                     | +4<br>0                 | +6<br>0                 | +12<br>0       |
| 50                                                              | 100   | +4<br>0                                                                     | +5<br>0                 | +7<br>0                 | +14<br>0       |
| 100                                                             | 250   | +5<br>0                                                                     | +6<br>0                 | +8<br>0                 | +16<br>0       |
| 250                                                             | 300   | +8<br>0                                                                     | +8<br>0                 | +10<br>0                | +20<br>0       |

### 3.2 SCOPE : ANODISING STANDARDS

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

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

#### 3.2.1 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        |

#### 3.2.2 Colour Variations

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

## PRODUCT SPECIFICATIONS

### 3.2.3 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.

### 3.3 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 µm to 170 µm   |
| 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) µm.

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

# CERTIFICATE

for a **COATING APPLICATOR**



hereby authorises

## **BAHRAIN ALUMINUM EXTRUSION COMPANY (BALEXCO)**

Building 267, Block 601, Road 105  
P.O. Box 1053, Manama  
Sitra Industrial Area  
Kingdom of Bahrain

to use the quality label in conformity with the  
QUALICOAT 2025 Specifications, applicable from 1 January 2025

**Licence No.:** 2700

**Date of Granting:** 27.05.2003

**Valid until:** 31.12.2025

Zurich, 1 January 2025

**QUALICOAT**



Ivo Vermeeren  
President



Coby Armar  
Secretary General

**QUALICOAT** | Tödi strasse 48, 8002 Zurich, Switzerland | [www.qualicoat.net](http://www.qualicoat.net)



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Date of Granting: 27.05.2003

Valid until: 31.12.2025

**ZURICH, 19 MARCH 2025**



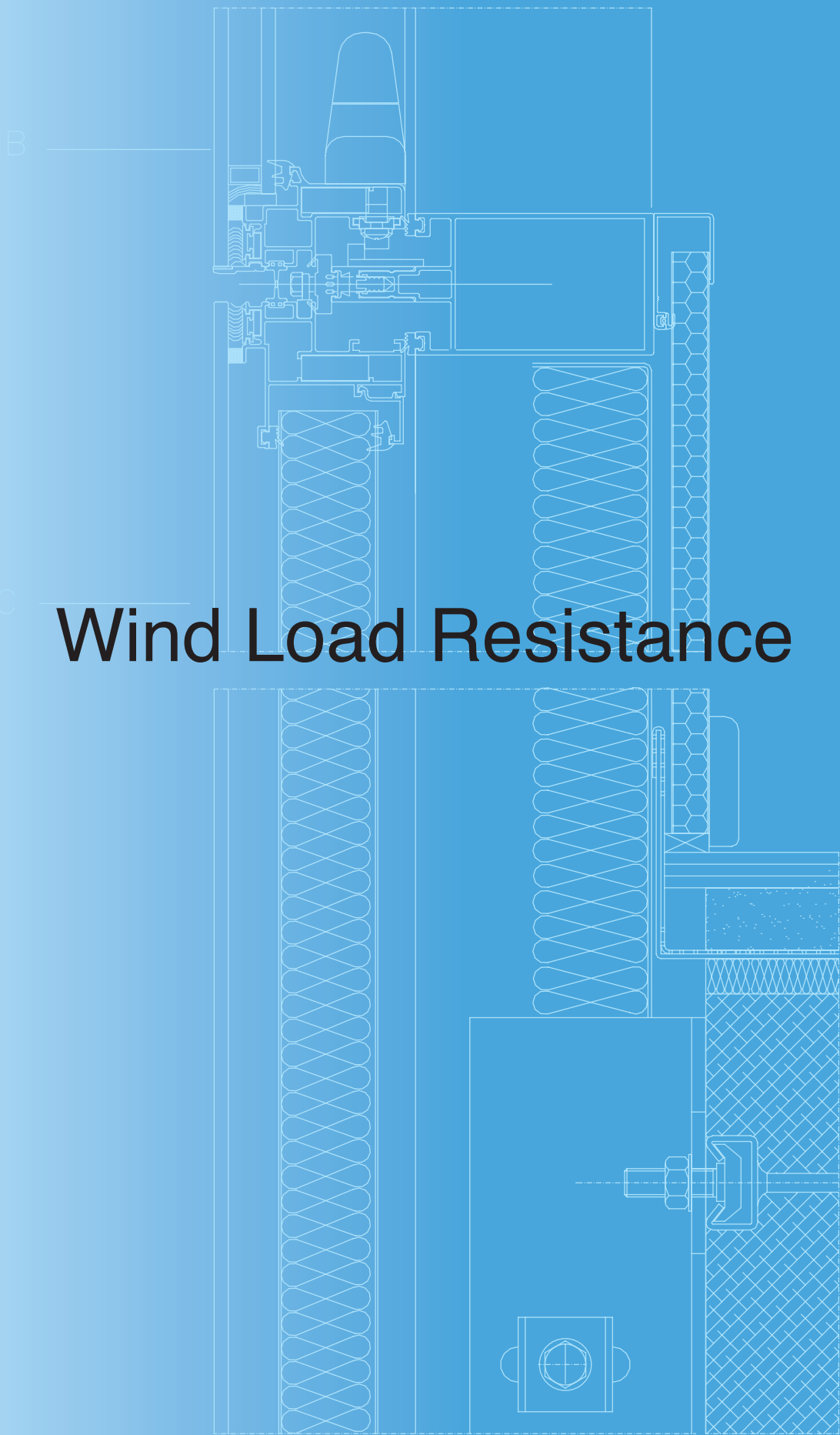
**Coby Armar**  
Secretary General



**Pascale Bellot**  
Deputy Secretary General



QUALICOAT | Tödistrasse 48, 8002 Zurich, Switzerland | [www.qualicoat.net](http://www.qualicoat.net)



## RESISTANCE TO WIND LOAD

### ZONE 1

$$q_{20} = \text{Kg/m}^2 60$$

BUILDING HEIGHT LESS THAN 500 METERS FROM SEA LEVEL

### ZONE 2

$$q_{20} = \text{Kg/m}^2 80$$

BUILDING HEIGHT FROM 500 TO 800 METERS FROM SEA LEVEL

### ZONE 3

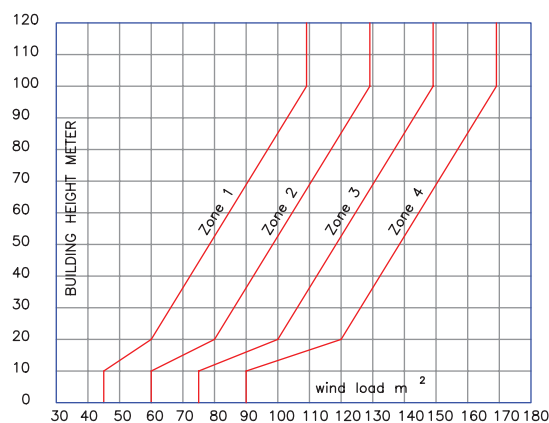
$$q_{20} = \text{Kg/m}^2 100$$

BUILDING HEIGHT FROM 800 TO 1600 METERS FROM SEA LEVEL

### ZONE 4

$$q_{20} = \text{Kg/m}^2 120$$

BUILDING HEIGHT FROM 1600 TO 2000 METERS FROM SEA LEVEL



### RESISTANCE TO WIND LOAD

The value above indicate refer for height 20 meter

$q_{20}$  (Kg/m²) pressure 20 m of sea level:

a) For height till 10 m:  $q = 0,75 \times q_{20}$  (Kg/m²)

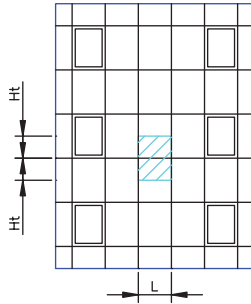
b) For height from 10 m to 20 m :  $q = (H + 20)/40 \times q_{20}$  (Kg/m²)

c) For height 20 m to 100 m , calculated a pressure  $q$  for the part of building till height 20 m, for remain part , the pressure  $q$  :

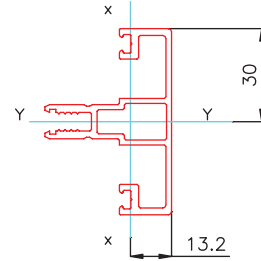
$$q_{20} = q \frac{H + 60}{100} \text{ (Kg/m}^2\text{)}$$

d) For height over 100 m., calculated the pressure  $q$  as above point C the remain height exceeding 100 m.  $q$  remains unchanged sea above diagram

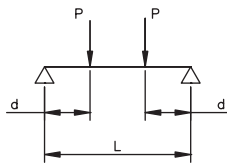
## STATIC DIAGRAM - TRANSOM



$$\begin{aligned} MJ_x &= 12.07 \text{ cm}^4 \\ MJ_y &= 5.23 \text{ cm}^4 \\ W_x &= 9.12 \text{ cm}^3 \\ W_y &= 1.74 \text{ cm}^3 \end{aligned}$$



E3101



$$f = 0.0417 \frac{P_x d}{E_x J} \times (3L^2 - 4d^2)$$

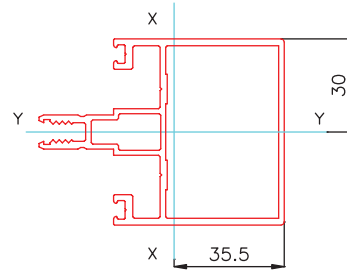
Jx = Moment of inertia (cm)<sup>4</sup>  
P = Half Weight (Kg/cm)  
L = center mullion distance (cm)  
d = Distance support weight (cm)

E = Elastic modulus 700.000 (Kg/cmq)  
f = Deflection (cm)

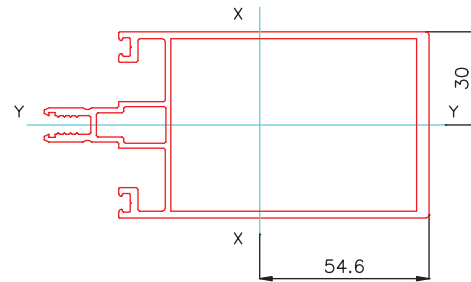
$$f \leq \frac{H}{300}$$

W=Modulus of Resistance cmq (Kg/cmq)

$$\begin{aligned} MJ_x &= 33.44 \text{ cm}^4 \\ MJ_y &= 28.86 \text{ cm}^4 \\ W_x &= 9.42 \text{ cm}^3 \\ W_y &= 9.62 \text{ cm}^3 \end{aligned}$$

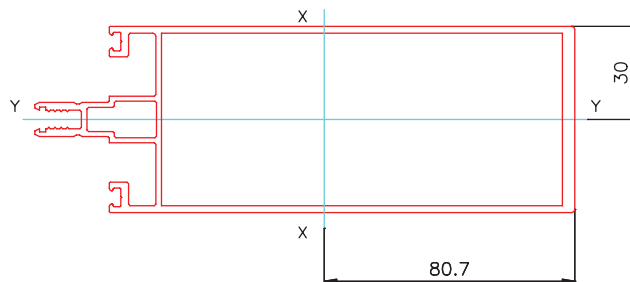


E3102



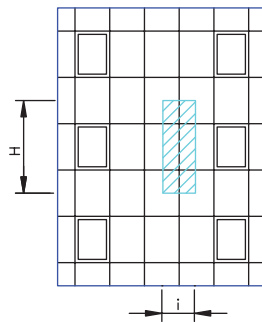
E3103

$$\begin{aligned} MJ_x &= 410.45 \text{ cm}^4 \\ MJ_y &= 66.76 \text{ cm}^4 \\ W_x &= 50.84 \text{ cm}^3 \\ W_y &= 22.25 \text{ cm}^3 \end{aligned}$$

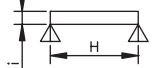


E3113

## STATIC DIAGRAM-MULLION



SCHEME STATIC



FORMULA OF CALCULATION

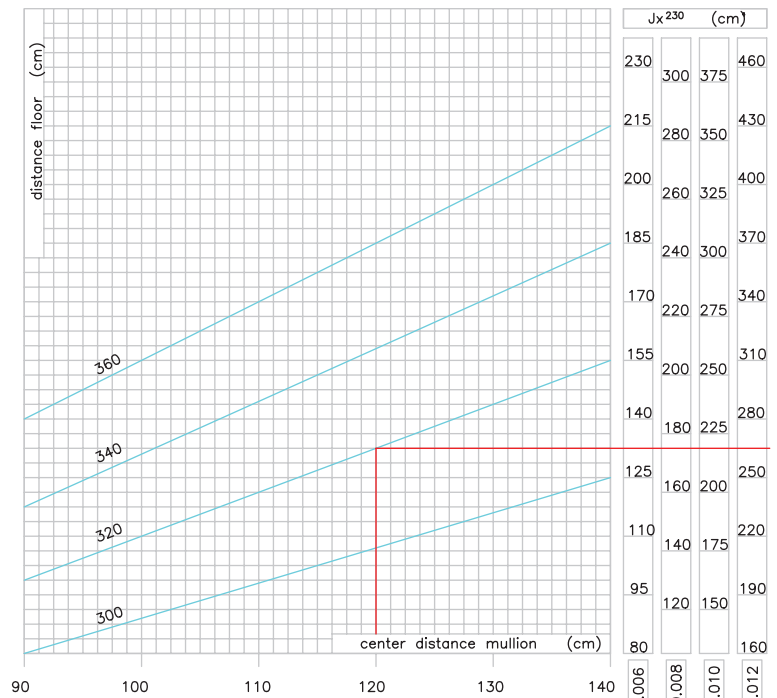
$$J_x = 0,013 \frac{Q \cdot H^3}{E \cdot f}$$

Jx = Moment of inertia (cm)<sup>4</sup>  
Q = Load (Kg/cm)  
q = Load cmq (Kg/cmq)  
i = center mullion distance (cm)

$$Q = q \cdot i$$

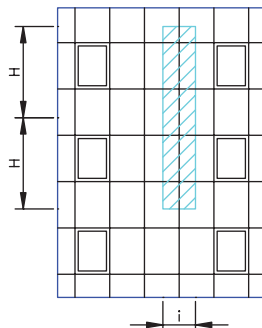
E = Elastic modulus 700.000 (Kg/cmq)  
f = Deflection (cm)

$$f \leq \frac{H}{300}$$

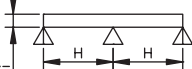


EXAMPLE OF CURTAIN WALL  
H = 320 cm i = 120 cm

ZONE 1 J = 132,3 cm<sup>4</sup>  
ZONE 2 J = 176,2 cm<sup>4</sup>  
ZONE 3 J = 220,4 cm<sup>4</sup>  
ZONE 4 J = 264,4 cm<sup>4</sup>



SCHEME STATIC



FORMULA OF CALCULATION

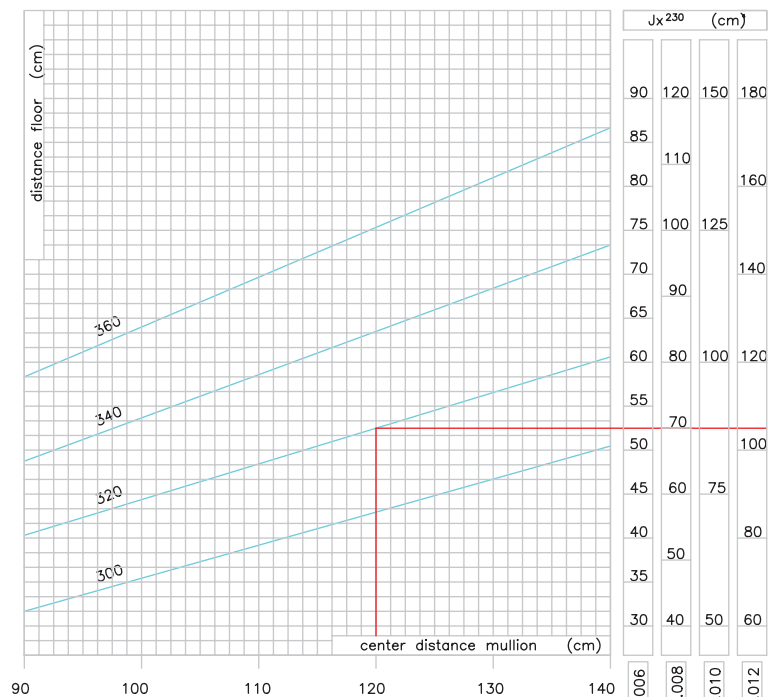
$$J_x = 0,00521 \frac{Q \cdot H^3}{E \cdot f}$$

Jx = Moment of inertia (cm)<sup>4</sup>  
Q = Load (Kg/cm)  
q = Load cmq (Kg/cmq)  
i = center mullion distance (cm)

$$Q = q \cdot i$$

E = Elastic modulus (Kg/cmq)  
f = Deflection (cm)

$$f \leq \frac{H}{300}$$

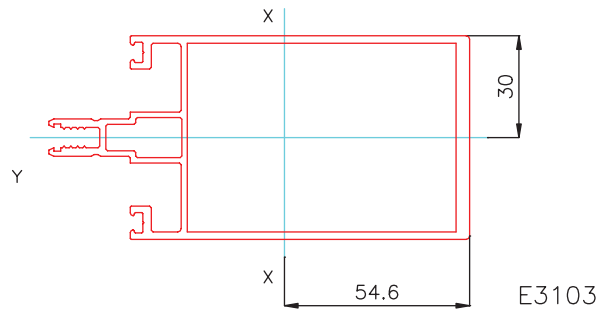


EXAMPLE OF CURTAIN WALL  
H = 320 cm i = 120 cm

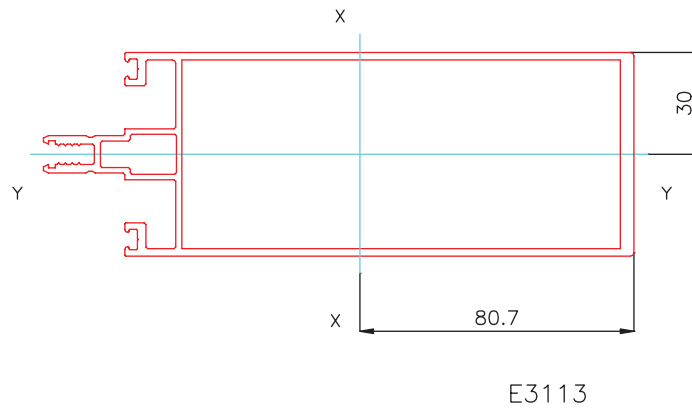
ZONE 1 J = 52,6 cm<sup>4</sup>  
ZONE 2 J = 70,2 cm<sup>4</sup>  
ZONE 3 J = 87,7 cm<sup>4</sup>  
ZONE 4 J = 105,3 cm<sup>4</sup>

## INERTIA OF MULLION PROFILES

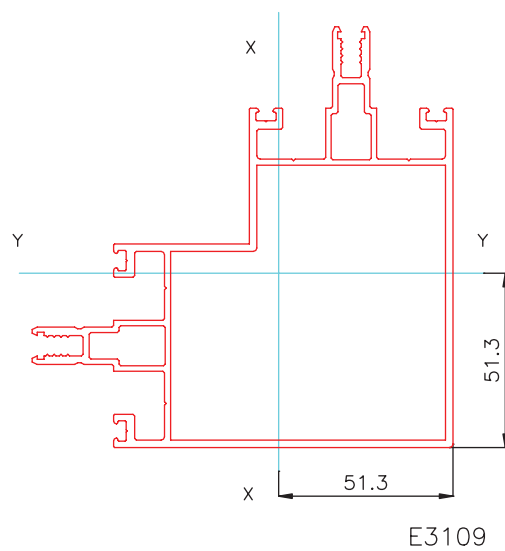
$$\begin{aligned} MJ_x &= 162.59 \text{ cm}^4 \\ MJ_y &= 48.39 \text{ cm}^4 \\ W_x &= 29.80 \text{ cm}^3 \\ W_y &= 16.13 \text{ cm}^3 \end{aligned}$$



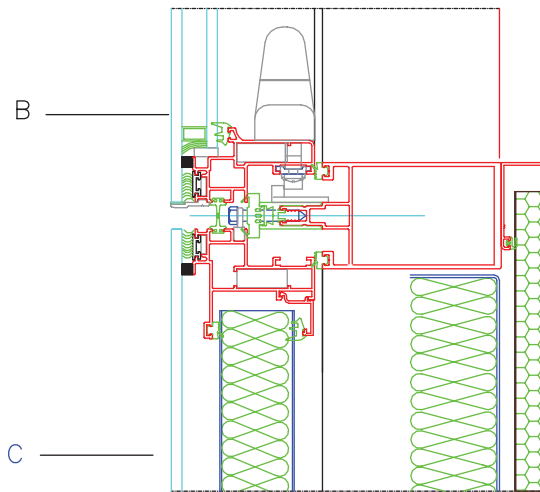
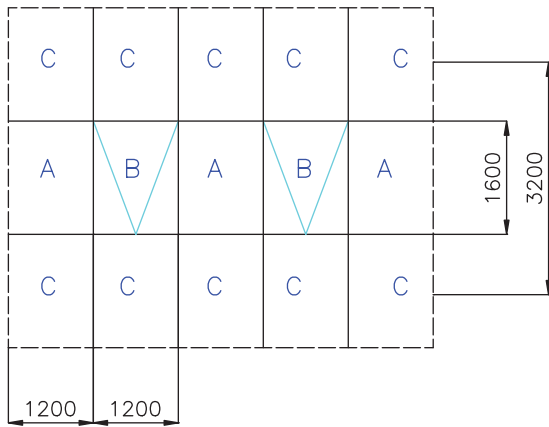
$$\begin{aligned} MJ_x &= 410.45 \text{ cm}^4 \\ MJ_y &= 66.76 \text{ cm}^4 \\ W_x &= 50.84 \text{ cm}^3 \\ W_y &= 22.25 \text{ cm}^3 \end{aligned}$$



$$\begin{aligned} MJ_x &= 231.91 \text{ cm}^4 \\ MJ_y &= 231.91 \text{ cm}^4 \\ W_x &= 45.14 \text{ cm}^3 \\ W_y &= 45.14 \text{ cm}^3 \end{aligned}$$



## THEORETICAL CALCULATION K VALUE



A FIX GLASS ELEMENT  
GLASS 6-12-6

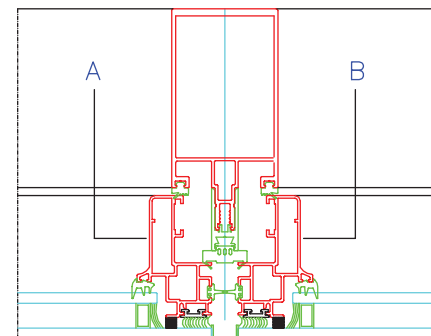
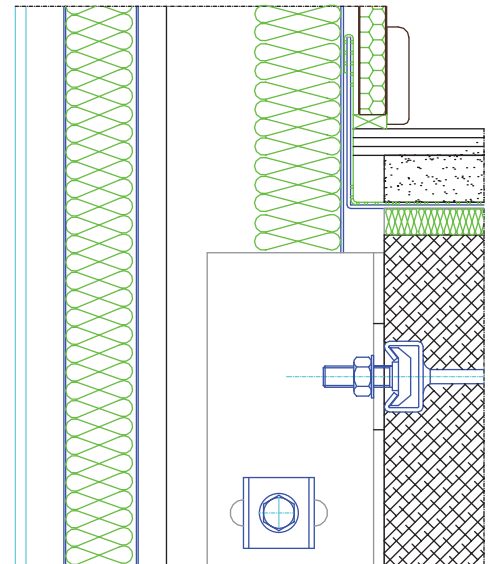
$$K = \text{kcal} / \text{m}^2 \cdot \text{h} \cdot ^\circ \text{C} \ 2.5$$

B WINDOW  
GLASS 6-12-6

$$K = \text{kcal} / \text{m}^2 \cdot \text{h} \cdot ^\circ \text{C} \ 2.5$$

C FIX GLASS PANEL ELEMENT  
GLASS 6 - INSULATING PANEL 60

$$K = \text{kcal} / \text{m}^2 \cdot \text{h} \cdot ^\circ \text{C} \ 0.45$$



# Balexco 60

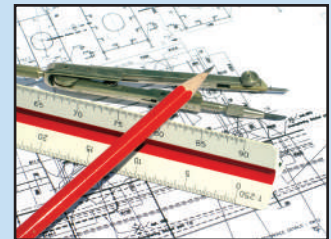


## Name of product:

Balexco 60 Designed by highly expertised company in ITALY. Consists of Basically 5 types-Thermal and non thermally Broken profiles.

## Concept:

The 5 types designed together in a way to share the basic profiles of mullion and Transoms together with major part of Accessories and Gaskets.

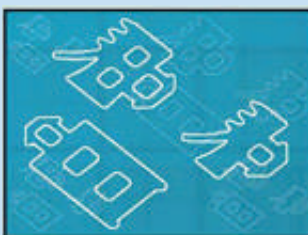
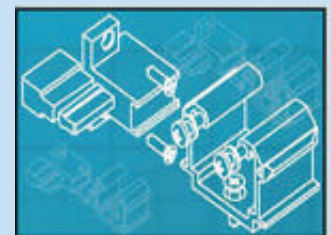


## Profiles:

Mullions & Transoms various in size from 17mm to 150mm with a wide options of panel profiles to suit all requirements.

## Accessories:

Manufactured from basic extrusion: cut & machined to suit all applications to make the system competitive with the addition of plastic parts produced locally in the gulf.



## Gaskets:

All in E.P.D.M quality.

## Tools:

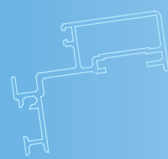
Specially designed tools were designed together with the system to ease fabrication and installation and provide accuracy in preparation of profiles at the work shop.



E3201



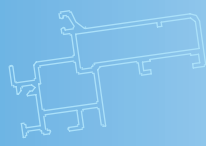
E3301



E3202



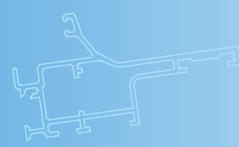
E3302



E3203



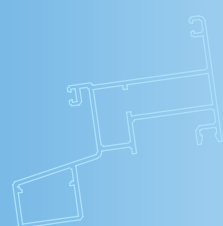
E3303



E3204



E3304



E3205



E3305



E3206

\*



E3306



E3207

\*



E3307

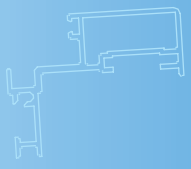


E3208

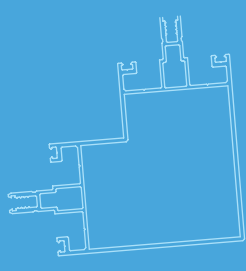
\*



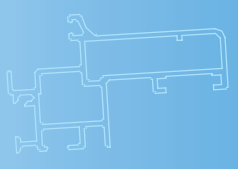
E3301



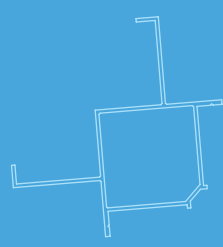
E3109



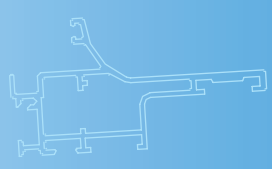
E3302



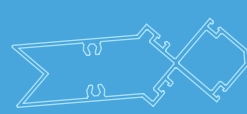
E3110 \*



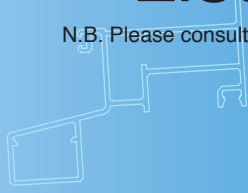
E3303



E3111



E3304



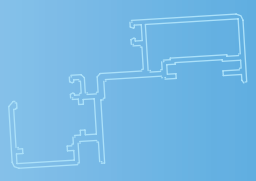
E3112



# List of Profiles

N.B. Please consult Balexco for the availability of Dies and Versions

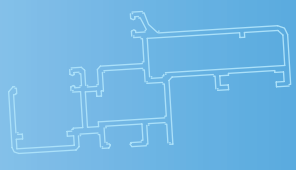
E3305 \*



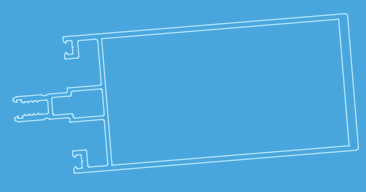
E3113



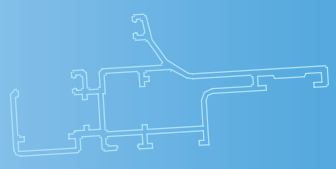
E3306



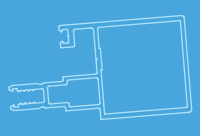
E3114



E3307

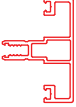
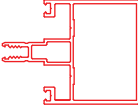
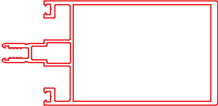
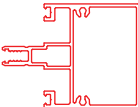
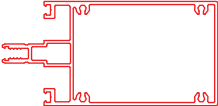


E3116



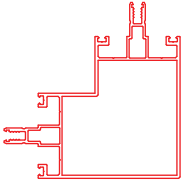
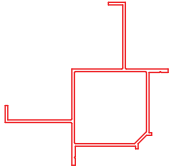
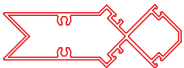
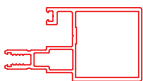
## 3100 PROFILES FOR MULLION -TRANSOM

\* Denotes DIE is to be made, please refer to BALEXCO Sales Dept.

| CODE               | SECTION                                                                             | WEIGHT<br>gr/m | DESCRIPTION                            | PER. | Jx<br>cm↑4 | Wx<br>cm↑3 | Jy<br>cm↑4 | Wy<br>cm↑3 |
|--------------------|-------------------------------------------------------------------------------------|----------------|----------------------------------------|------|------------|------------|------------|------------|
| E3101              |    | 1058           | SMALL TRANSOM                          | 343  | 12.07      | 9.12       | 5.23       | 1.74       |
| E3102              |    | 1806           | MEDIUM TRANSOM                         | 420  | 33.44      | 9.42       | 28.86      | 9.62       |
| E3103              |    | 2646           | MULLION 100                            | 510  | 162.59     | 29.80      | 48.39      | 16.13      |
| E3104 <sup>*</sup> |  | 1836           | TRANSOM FOR<br>HALF MULLION            | 419  | 32.72      | 9.08       | 29.70      | 9.90       |
| E3105 <sup>*</sup> |  | 2414           | TRANSOM FOR<br>HALF MULLION            | 509  | 133.88     | 21.76      | 46.88      | 15.63      |
| E3106 <sup>*</sup> |  | 1596           | HALF MULLION                           | 394  | 60.40      | 13.45      | 5.01       | 4.73       |
| E3107 <sup>*</sup> |  | 940            | CONNECTION HALF<br>MULLION             | 326  | 9.42       | 2.84       | 3.14       | 1.41       |
| E3108 <sup>*</sup> |  | 324            | INTERNAL<br>CONNECTION HALF<br>MULLION | 141  | 2.65       | 4.48       | 0.05       | 0.02       |

## 3100 PROFILES FOR MULLION-TRANSOM

\* Denotes DIE is to be made, please refer to BALEXCO Sales Dept.

| CODE   | SECTION                                                                             | WEIGHT<br>gr/m | DESCRIPTION           | PER. | Jx<br>cm↑4 | Wx<br>cm↑3 | Jy<br>cm↑4 | Wy<br>cm↑3 |
|--------|-------------------------------------------------------------------------------------|----------------|-----------------------|------|------------|------------|------------|------------|
| E3109  |    | 3378           | 90° CORNER            | 781  | 231.91     | 45.14      | 231.91     | 45.14      |
| E3110* |    | 1196           | SUPPORT<br>90° CORNER | 413  | 24.68      | 6.32       | 24.68      | 6.32       |
| E3111  |    | 1474           | SUPPORT<br>90° CORNER | 340  | 48.83      | 9.67       | 6.39       | 3.49       |
| E3112  |  | 421            | ANGLE VARIABLE        | 157  | —          | —          | —          | —          |
| E3113  |  | 3240           | MULLION 150           | 610  | 410.45     | 50.84      | 66.76      | 22.25      |
| E3114  |  | 2943           | MULLION 125           | 560  | 269.52     | —          | 57.57      | —          |
| E3115  |  | 2125           | HALF<br>MULLION 100   | 422  | 129        | —          | 20.2       | —          |
| E3116  |  | 1463           | HALF<br>MULLION 55    | 331  | 29         | —          | 12.1       | —          |

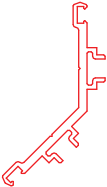
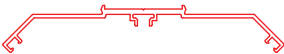
## 3100 PROFILES FOR MULLION-TRANSOM

\* Denotes DIE is to be made, please refer to BALEXCO Sales Dept.

| CODE   | SECTION                                                                           | WEIGHT<br>gr/m | DESCRIPTION               | PER. | Jx<br>cm↑4 | Wx<br>cm↑3 | Jy<br>cm↑4 | Wy<br>cm↑3 |
|--------|-----------------------------------------------------------------------------------|----------------|---------------------------|------|------------|------------|------------|------------|
| E3117* |  | 4655           | MULLION 165               | 671  | 101.00     | —          | 772.00     | —          |
| E3118* |  | 3413           | MULLION 181<br>FOR CORNER | 594  | 70.98      | —          | 506.59     | —          |

## 3200 PROFILES FOR COVER CAPS

\* Denotes DIE is to be made, please refer to BALEXCO Sales Dept.

| CODE       | SECTION                                                                             | WEIGHT<br>gr/m | DESCRIPTION                       | PER. | Jx<br>cm↑4 | Wx<br>cm↑3 | Jy<br>cm↑4 | Wy<br>cm↑3 |
|------------|-------------------------------------------------------------------------------------|----------------|-----------------------------------|------|------------|------------|------------|------------|
| E3201      |    | 440            | PRESSURE PLATE                    | 158  | 2.46       | 3.20       | 0.09       | 0.03       |
| E3202      |    | 265            | VERTICAL COVER<br>CAP 50          | 153  | 3.30       | 3.19       | 0.16       | 0.06       |
| E3203      |    | 297            | HORIZONTAL COVER<br>CAP 50        | 173  | 3.96       | 3.03       | 0.34       | 0.13       |
| E3204      |  | 500            | PRESSURE PLATE<br>HORIZONTAL LINE | 168  | 2.58       | 2.36       | 0.28       | 0.11       |
| E3205      |  | 383            | COVER CAP                         | 203  | 6.21       | 5.46       | 0.30       | 0.08       |
| *<br>E3206 |  | 361            | COVER CAP                         | 199  | 6.46       | 3.40       | 1.25       | 0.34       |
| *<br>E3207 |  | 751            | PRESSURE PLATE                    | 252  | 8.83       | 6.39       | 2.09       | 0.69       |
| *<br>E3208 |  | 1247           | PRESSURE PLATE                    | 439  | 1.64       | 0.20       | 97.15      | 52.98      |

## 3200 PROFILES FOR COVER CAPS

\* Denotes DIE is to be made, please refer to BALEXCO Sales Dept.

| CODE   | SECTION                                                                             | WEIGHT<br>gr/m | DESCRIPTION                 | PER. | Jx<br>cm↑4 | Wx<br>cm↑3 | Jy<br>cm↑4 | Wy<br>cm↑3 |
|--------|-------------------------------------------------------------------------------------|----------------|-----------------------------|------|------------|------------|------------|------------|
| E3209  |    | 1466           | PRESSURE PLATE              | 480  | 4.17       | 0.50       | 129.33     | 51.16      |
| E3210  |    | 621            | PRESSURE PLATE              | 235  | 5.70       | 6.20       | 0.18       | 0.05       |
| E3211  |    | 983            | PRESSURE PLATE              | 345  | 2.52       | 0.50       | 30.92      | 20.27      |
| E3212  |  | 1499           | PRESSURE PLATE              | 525  | 4.72       | 0.59       | 108.16     | 72.14      |
| E3213  |  | 1172           | PRESSURE PLATE              | 405  | 1.17       | 0.19       | 47.39      | 43.94      |
| E3214  |  | 197            | SPACER PROFILE              | 127  | —          | —          | —          | —          |
| E3215  |  | 113            | SPACER PROFILE              | 75   | —          | —          | —          | —          |
| E3216* |  | 178            | CONNECTION<br>PROFILE E3204 | 50   | —          | —          | —          | —          |

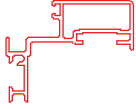
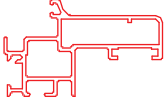
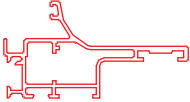
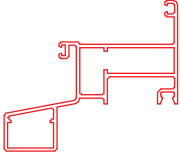
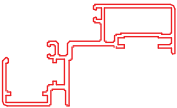
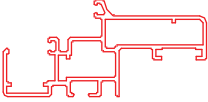
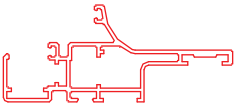
## 3200 PROFILES FOR COVER CAPS

\* Denotes DIE is to be made, please refer to BALEXCO Sales Dept.

| CODE  | SECTION                                                                             | WEIGHT<br>gr/m | DESCRIPTION                 | PER. | Jx<br>cm↑4 | Wx<br>cm↑3 | Jy<br>cm↑4 | Wy<br>cm↑3 |
|-------|-------------------------------------------------------------------------------------|----------------|-----------------------------|------|------------|------------|------------|------------|
| E3217 |    | 521            | PRESSURE PLATE              | 178  | —          | —          | —          | —          |
| E3218 |    | 297            | VERTICAL COVER<br>CAP 60    | 173  | 5.00       | —          | 0.14       | —          |
| E3219 |    | 329            | HORIZONTAL COVER<br>CAP 60  | 197  | 6.06       | —          | 0.36       | —          |
| E3220 |  | 1499           | RIGHT ANGLE<br>COVER CAP 60 | 419  | 7.81       | —          | 0.44       | —          |
| E3221 |  | 1088           | ELLIPTICAL COVER<br>CAP 50  | 301  | 31.96      | —          | 13.24      | —          |
| E3222 |  | 729            | PRESSURE PLATE              | 285  | 10.6       | —          | 1.18       | —          |

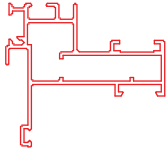
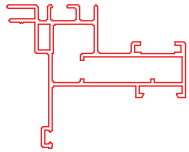
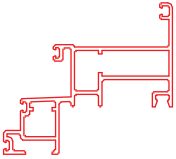
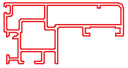
## 3300 PROFILES

\* Denotes DIE is to be made, please refer to BALEXCO Sales Dept.

| CODE  | SECTION                                                                             | WEIGHT<br>Gr/ml | DESCRIPTION                          | PER. | Jx<br>cm↑4 | Wx<br>cm↑3 | Jy<br>cm↑4 | Wy<br>cm↑3 |
|-------|-------------------------------------------------------------------------------------|-----------------|--------------------------------------|------|------------|------------|------------|------------|
| E3301 |    | 815             | CONVENTIONAL VENT                    | 300  | 3.81       | 1.30       | 9.69       | 3.46       |
| E3302 |    | 1112            | STRUCTURAL FRAME/<br>VENT            | 349  | 4.83       | 1.27       | 16.90      | 8.10       |
| E3303 |   | 1069            | STRUCTURAL FRAME/<br>VENT            | 352  | 3.73       | 0.79       | 20.64      | 11.91      |
| E3304 |  | 1169            | CONVENTIONAL<br>FRAME                | 397  | 11.35      | 3.40       | 25.13      | 8.27       |
| E3305 |  | 1023            | CONVENTIONAL<br>FRAMED GLASS INSERT  | 386  | 6.90       | 1.87       | 18.84      | 7.97       |
| E3306 |  | 1304            | FRAMED GLASS INSERT                  | 421  | 6.41       | 1.44       | 29.10      | 15.58      |
| E3307 |  | 1274            | FRAMED GLASS INSERT<br>VERSION E3306 | 448  | 4.74       | 0.87       | 33.67      | 21.58      |

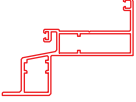
## 3300 PROFILES

\* Denotes DIE is to be made, please refer to BALEXCO Sales Dept.

| CODE    | SECTION                                                                             | WEIGHT<br>Gr/ml | DESCRIPTION                             | PER. | Jx<br>cm↑4 | Wx<br>cm↑3 | Jy<br>cm↑4 | Wy<br>cm↑3 |
|---------|-------------------------------------------------------------------------------------|-----------------|-----------------------------------------|------|------------|------------|------------|------------|
| E3308 * |    | 1231            | FRAME FOR<br>FIX PART<br>WITH GLASS     | 409  | 9.36       | 2.40       | 21.65      | 5.77       |
| E3309 * |    | 1312            | FRAME FOR<br>FIX PART<br>WITH ALUMINIUM | 420  | 10.76      | 2.66       | 24.08      | 6.17       |
| E3310   |   | 108             | BONDING PROFILE                         | 52   | —          | —          | —          | —          |
| E3311   |  | 505             | ADDITIONAL FRAME<br>FOR DOOR            | 155  | 3.9        | —          | 1.24       | —          |
| E3312   |  | 1280            | FRAME FOR WINDOWS—<br>HORIZONTAL LINE   | 440  | 33.1       | —          | 4.97       | —          |
| E3313   |  | 1175            | STRUCTURAL FRAME                        | 310  | 19.59      | —          | 4.39       | —          |
| E3314   |  | 934             | STRUCTURAL FRAME                        | 292  | 20         | —          | 1.69       | —          |

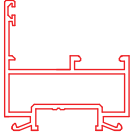
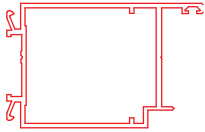
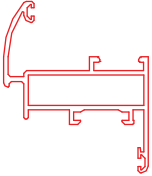
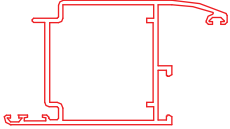
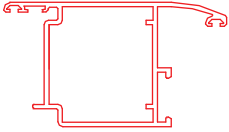
## 3300 PROFILES

\* Denotes DIE is to be made, please refer to BALEXCO Sales Dept.

| CODE  | SECTION                                                                             | WEIGHT<br>Gr/ml | DESCRIPTION                     | PER. | Jx<br>cm↑4 | Wx<br>cm↑3 | Jy<br>cm↑4 | Wy<br>cm↑3 |
|-------|-------------------------------------------------------------------------------------|-----------------|---------------------------------|------|------------|------------|------------|------------|
| E3315 |    | 1064            | OPENABLE<br>FRAME PANEL         | 312  | 3.00       | —          | 3.30       | —          |
| E3316 |    | 348             | GLASS SUPPORT<br>(CONVENTIONAL) | 141  | —          | —          | —          | —          |
| E3317 |   | 394             | SPANDREL SUPPORT                | 135  | —          | —          | —          | —          |
| E3318 |  | 470             | CLADDING SUPPORT                | 235  | 0.52       | —          | 9.73       | —          |

## PROFILES FOR DOOR - WINDOWS

\* Denotes DIE is to be made, please refer to BALEXCO Sales Dept.

| CODE                        | SECTION                                                                             | WEIGHT<br>Gr/ml | DESCRIPTION         | PER. | Jx<br>cm↑4 | Wx<br>cm↑3 | Jy<br>cm↑4 | Wy<br>cm↑3 |
|-----------------------------|-------------------------------------------------------------------------------------|-----------------|---------------------|------|------------|------------|------------|------------|
| PROFILES FOR DOORS –WINDOWS |                                                                                     |                 |                     |      |            |            |            |            |
| E1201                       |    | 840             | WINDOW FRAME        | 280  | 4.00       | 1.31       | 8.07       | 3.20       |
| E1208                       |    | 1064            | DOOR FRAME          | 298  | 12.05      | 5.79       | 19.50      | 4.89       |
| E1230                       |   | 959             | WINDOW VENT         | 335  | 12.16      | 4.98       | 5.86       | 1.89       |
| E1237                       |  | 1094            | DOOR VENT           | 334  | 12.39      | 5.53       | 17.90      | 4.31       |
| E1238                       |  | 1096            | T DOOR VENT         | 334  | 11.86      | 6.29       | 17.91      | 4.31       |
| E1401                       |  | 148             | SPACER SUPPORT      | 50   | —          | —          | —          | —          |
| E1402                       |  | 275             | ADDITIONAL FOR DOOR | 175  | —          | —          | —          | —          |

## BALEXCO 45 WINDOW PROFILES

\* Denotes DIE is to be made, please refer to BALEXCO Sales Dept.

| CODE  | SECTION                                                                             | WEIGHT<br>Gr/ml | DESCRIPTION   | PER. | Jx<br>cm↑4 | Wx<br>cm↑3 | Jy<br>cm↑4 | Wy<br>cm↑3 |
|-------|-------------------------------------------------------------------------------------|-----------------|---------------|------|------------|------------|------------|------------|
| E1404 |    | 254             | GLASS BEADING | 145  | —          | —          | —          | —          |
| E1406 |    | 227             | GLASS BEADING | 138  | —          | —          | —          | —          |
| E1406 |   | 224             | GLASS BEADING | 139  | —          | —          | —          | —          |
| E1407 |  | 186             | GLASS BEADING | 103  | —          | —          | —          | —          |
| E1408 |  | 259             | GLASS BEADING | 133  | —          | —          | —          | —          |
| E1410 |  | 246             | GLASS BEADING | 138  | —          | —          | —          | —          |
| E1411 |  | 230             | GLASS BEADING | 128  | —          | —          | —          | —          |

## BALEXCO 45 WINDOW PROFILES

\* Denotes DIE is to be made, please refer to BALEXCO Sales Dept.

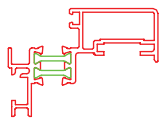
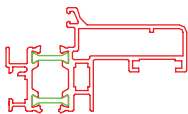
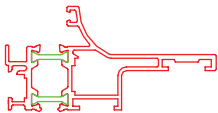
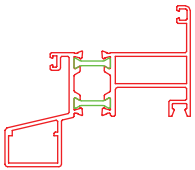
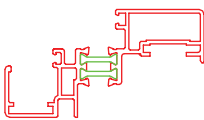
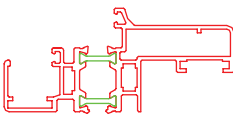
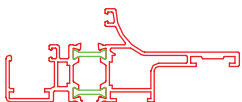
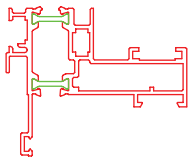
THE INDICATED WEIGHTS AND PERIMETERS ARE INCLUSIVE OF THE POLYAMIDE STRIPS

| CODE  | SECTION                                                                           | WEIGHT<br>gr/m | DESCRIPTION   | PER. | Jx<br>cm↑4 | Wx<br>cm↑3 | Jy<br>cm↑4 | Wy<br>cm↑3 |
|-------|-----------------------------------------------------------------------------------|----------------|---------------|------|------------|------------|------------|------------|
| E1412 |  | 213            | GLASS BEADING | 118  | —          | —          | —          | —          |
| E1413 |  | 184            | GLASS BEADING | 99   | —          | —          | —          | —          |
| E1414 |  | 170            | GLASS BEADING | 92   | —          | —          | —          | —          |

## 3400 THERMAL BREAK PROFILES FOR WINDOWS PANEL

\* Denotes DIE is to be made, please refer to BALEXCO Sales Dept.

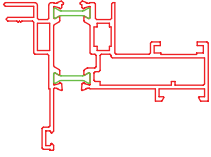
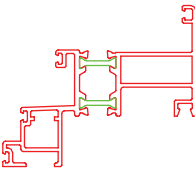
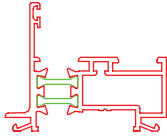
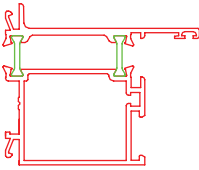
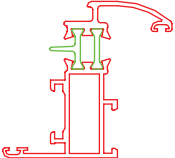
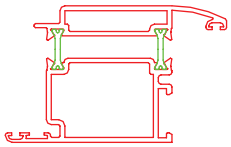
THE INDICATED WEIGHTS AND PERIMETERS ARE INCLUSIVE OF THE POLYAMIDE STRIPS

| CODE    | SECTION                                                                             | WEIGHT<br>gr/m | DESCRIPTION                              | PER. | Jx<br>cm↑4 | Wx<br>cm↑3 | Jy<br>cm↑4 | Wy<br>cm↑3 |
|---------|-------------------------------------------------------------------------------------|----------------|------------------------------------------|------|------------|------------|------------|------------|
| E3401 * |    | 943            | CONVENTIONAL VENT                        | 304  | 4.63       | 1.34       | 13.65      | 5.39       |
| E3402 * |    | 1280           | STRUCTURAL FRAME/<br>VENT                | 329  | 6.52       | 1.50       | 22.75      | 12.14      |
| E3403 * |    | 1255           | STRUCTURAL FRAME/<br>VENT VERSION E3402  | 352  | 5.08       | 0.94       | 28.25      | 17.39      |
| E3404 * |  | 1348           | CONVENTIONAL FRAME                       | 375  | 12.74      | 3.56       | 27.54      | 8.90       |
| E3405 * |  | 1172           | CONVENTIONAL<br>FRAMED GLASS INSERT/VENT | 383  | 7.21       | 1.78       | 24.23      | 10.78      |
| E3406 * |  | 1529           | FRAMED GLASS INSERT                      | 408  | 7.85       | 1.61       | 35.86      | 20.85      |
| E3407 * |  | 1504           | FRAMED GLASS INSERT<br>VERSION E3406     | 431  | 6.02       | 1.01       | 42.47      | 28.27      |
| E3408 * |  | 1466           | FRAME FOR<br>FIX PART<br>WITH GLASS      | 397  | 11.75      | 2.65       | 28.53      | 7.60       |

## 3400 THERMAL BREAK PROFILES FOR WINDOWS PANEL

\* Denotes DIE is to be made, please refer to BALEXCO Sales Dept.

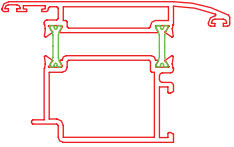
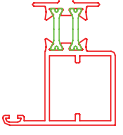
THE INDICATED WEIGHTS AND PERIMETERS ARE INCLUSIVE OF THE POLYAMIDE STRIPS

| CODE                         | SECTION                                                                               | WEIGHT<br>gr/m | DESCRIPTION                             | PER. | Jx<br>cm†4 | Wx<br>cm†3 | Jy<br>cm†4 | Wy<br>cm†3 |
|------------------------------|---------------------------------------------------------------------------------------|----------------|-----------------------------------------|------|------------|------------|------------|------------|
| E3409                        | *    | 1504           | FRAME FOR<br>FIX PART<br>WITH ALUMINIUM | 407  | 12.88      | 2.83       | 31.28      | 8.12       |
| E3310                        | *    | 108            | BONDING PROFILE                         | 52   | 0.07       | 0.26       | 0.01       | 0.0096     |
| E3412                        | *   | 1437           | FRAME FOR<br>WINDOWS<br>HORIZONTAL LINE | 442  | 13.19      | 3.47       | 32.16      | 10.56      |
| PROFILES FOR DOORS – WINDOWS |                                                                                       |                |                                         |      |            |            |            |            |
| E3411                        | *  | 799            | ADDITIONAL FRAME<br>FOR DOOR            | 207  | 2.31       | 1.24       | 10.28      | 6.57       |
| E1301                        | *  | 1050           | WINDOWS FRAME                           | 316  | 4.46       | 1.44       | 13.58      | 4.31       |
| E1309                        | *  | 1494           | DOOR FRAME                              | 357  | 19.35      | 7.03       | 24.03      | 5.44       |
| E1330                        | *  | 1080           | WINDOWS VENT                            | 345  | 17.04      | 5.69       | 6.08       | 2.03       |
| E1337                        | *  | 1545           | DOOR VENT                               | 353  | 18.55      | 8.45       | 23.63      | 5.66       |

## THERMAL BREAK PROFILES FOR DOORS

\* Denotes DIE is to be made, please refer to BALEXCO Sales Dept.

THE INDICATED WEIGHTS AND PERIMETERS ARE INCLUSIVE OF THE POLYAMIDE STRIPS

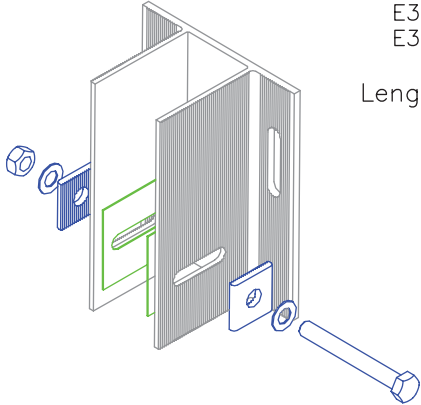
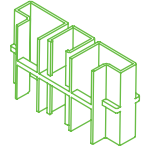
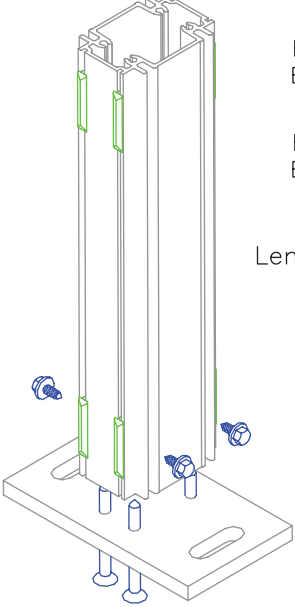
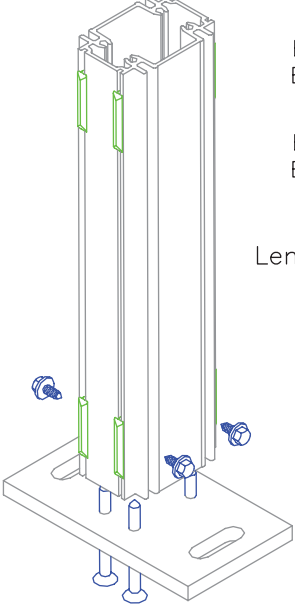
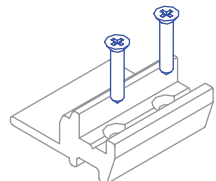
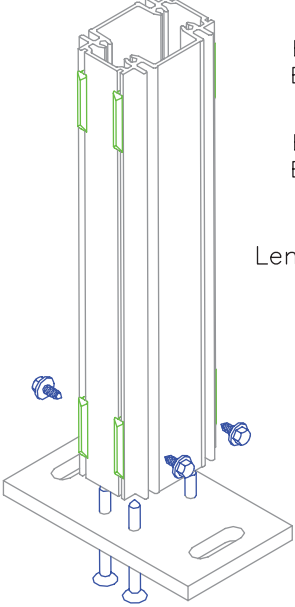
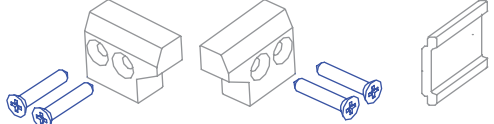
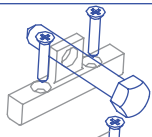
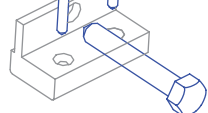
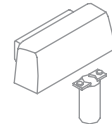
| CODE    | SECTION                                                                           | WEIGHT<br>gr/m | DESCRIPTION        | PER. | Jx<br>cm↑4 | Wx<br>cm↑3 | Jy<br>cm↑4 | Wy<br>cm↑3 |
|---------|-----------------------------------------------------------------------------------|----------------|--------------------|------|------------|------------|------------|------------|
| E1338 * |  | 1544           | T DOOR VENT        | 343  | 17.35      | 8.91       | 24.02      | 5.73       |
| E1343 * |  | 804            | INVERTED<br>RABBET | 199  | 8.43       | 3.75       | 2.82       | 1.71       |



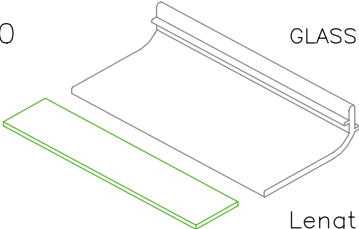
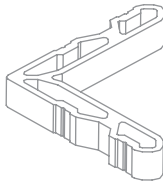
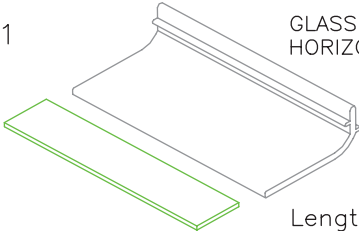
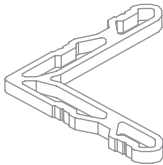
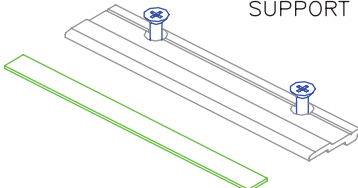
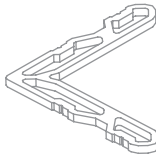
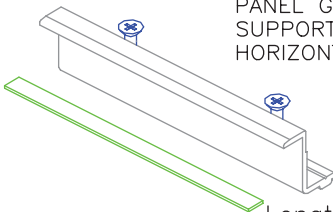
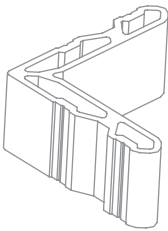
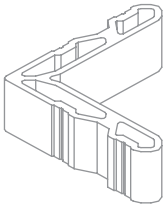
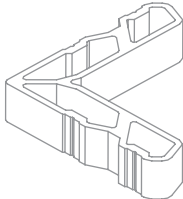
# List of Accessories

N.B. Please consult Balexco for the availability of Dies and Versions

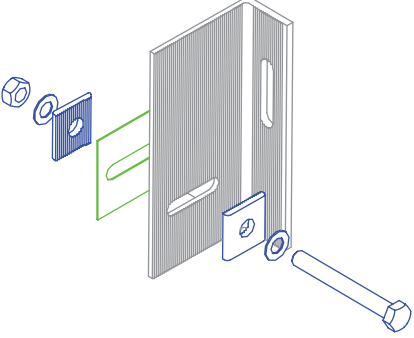
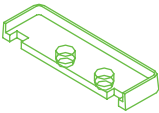
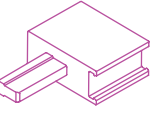
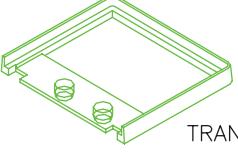
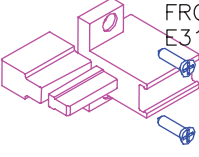
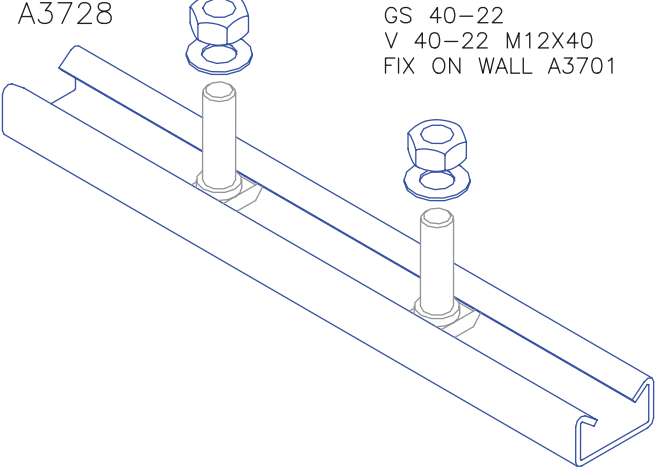
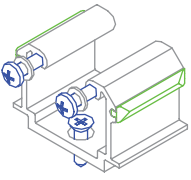
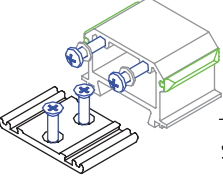
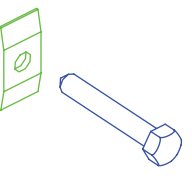
## LIST OF ACCESSORIES

| ITEM    | DRAWING AND DESCRIPTION                                                                                                                                      | ITEM    | DRAWING AND DESCRIPTION                                                                                                   |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------|
| A3701   |  <p>BRACKET MULLION<br/>E3103<br/>E3113<br/>Length 200 mm</p>               | A3704   |  <p>MULLION NYLON<br/>CONNECT</p>      |
| A3702   |  <p>BRACKET<br/>E3103</p>                                                 | A3705   |  <p>INNER TRANSOM SEAL</p>             |
| A3702.1 |  <p>BRACKET<br/>E3113</p>                                                 | A3706   |  <p>BOTTOM SUPPORT<br/>Length 40mm</p> |
| A3702.2 |  <p>BRACKET<br/>E3102<br/>Length 300 mm</p>                               | A3707   |  <p>SIDE SUPPORT Length 10mm</p>      |
| A3703   |  <p>CONNECT MULLION E3103<br/>CONNECT MULLION E3113<br/>Length 300 mm</p> |         | SUPPORT E1401                                                                                                             |
| A3703.1 |                                                                                                                                                              | A3708   |  <p>TOP SUPPORT<br/>E3302-E3402</p>   |
| A3703.2 |  <p>CONNECT MULLION E3102</p>                                             | A3708.1 |  <p>TOP SUPPORT<br/>E3303-E3403</p>   |
|         |                                                                                                                                                              | A3709   |  <p>DRAINAGE COVER</p>                |

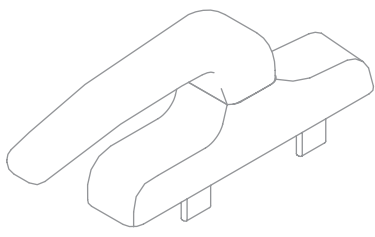
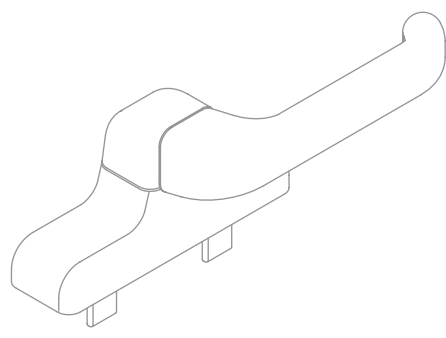
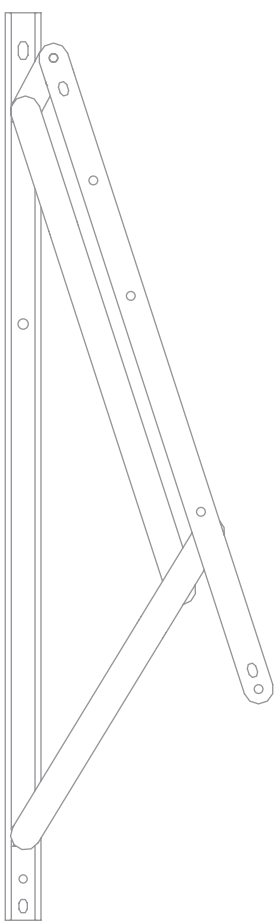
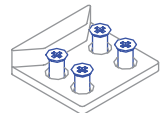
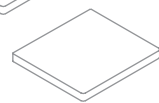
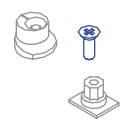
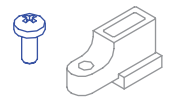
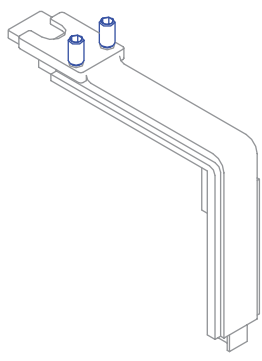
## LIST OF ACCESSORIES

| ITEM    | DRAWING AND DESCRIPTION                                                                                                                           | ITEM  | DRAWING AND DESCRIPTION                                                                                              |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------|
| A3710   | <br>GLASS SUPPORT<br>Length 100 mm                               | A3715 | <br>CORNER JOINT<br>11.2X11        |
| A3711   | <br>GLASS SUPPORT<br>HORIZONTAL LINE<br>Length 100 mm            | A3716 | <br>CORNER JOINT<br>5X11           |
| A3712   | <br>PANEL GLASS<br>SUPPORT<br>Length 100 mm                     | A3717 | <br>CORNER JOINT<br>3.5X11        |
| A3712.1 | <br>PANEL GLASS<br>SUPPORT<br>HORIZONTAL LINE<br>Length 100 mm | A3718 | <br>CORNER JOINT<br>29X11 SCREW |
| A3713   | <br>CORNER JOINT<br>29X11                                      | A3719 | <br>CORNER JOINT<br>17X15 SCREW |
| A3714   | <br>CORNER JOINT<br>20X11                                      | A3720 | <br>CORNER JOINT<br>17X15        |

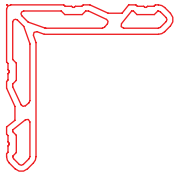
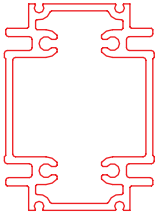
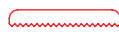
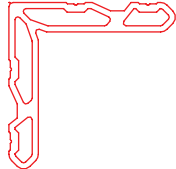
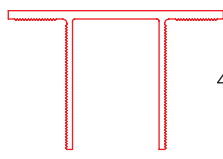
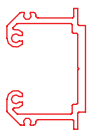
## LIST OF ACCESSORIES

| ITEM                          | DRAWING AND DESCRIPTION                                                                                                                       | ITEM                     | DRAWING AND DESCRIPTION                                                                                                                                |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| A3721                         | CORNER BRACKET<br>Length 200 mm<br>                          | A3726<br>*<br>USE IN KIT | TRANSOM SEAL E3101<br>                                              |
| A3722                         | OUTER TRANSOM SEAL<br>27 mm E3102<br>                       | A3727<br>*<br>USE IN KIT | TRANSOM SEAL E3102<br>                                               |
| A3722.1                       | OUTER TRANSOM SEAL<br>22 mm E3103-E3113                                                                                                       | A3727.1                  | TRANSOM SEAL E3103                                                                                                                                     |
| A3723<br>*<br>USE IN KIT      | TRANSOM CONNECTOR<br>FRONT FIXING<br>E3101-E3102-E3113<br> | A3728                    | GL LOCATELLI<br>GS 40-22<br>V 40-22 M12X40<br>FIX ON WALL A3701<br> |
| A3724                         | TRANSOM CONNECTOR<br>E3102 Length 35mm<br>                 | A3729                    | TRANSOM SEAL E3102                                                                                                                                     |
| A3724.1                       | TRANSOM CONNECTOR<br>E3103 Length 78mm                                                                                                        | A3729.1                  | TRANSOM SEAL E3103                                                                                                                                     |
| A3724.2                       | TRANSOM CONNECTOR<br>E3113 Length 128mm                                                                                                       | A3729.2                  | TRANSOM SEAL E3113                                                                                                                                     |
| A3725<br>*<br>USE IN KIT WITH | TRANSOM CONNECTOR SIDE<br>FIXING E3102<br>Length 35mm<br>  | A3736                    | ACCESSORY FOR<br>FIX CLAMPING<br>CONVENTIONAL                                                                                                          |
| A3725.1                       | TRANSOM CONNECTOR<br>SIDE FIXING E3103<br>Length 78mm                                                                                         | A3736.1                  | ACCESSORY FOR<br>FIX CLAMPING<br>HORIZONTAL LINE<br>               |

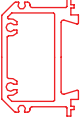
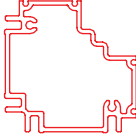
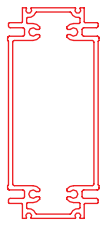
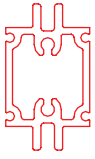
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| ITEM  | DRAWING AND DESCRIPTION                                                                             | ITEM    | DRAWING AND DESCRIPTION                                                                                                                                                                                     |
|-------|-----------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A3730 | CREMONE<br>        | A3730.1 | CREMONE OUT-AXIS<br>                                                                                                      |
| A3731 | FRICTION ARM<br> | A3732   | STRIKER<br><br>SPACER<br>1.5 mm<br> |
|       |                                                                                                     | A3733   | ADJUSTABLE PLUG FOR<br>ADDITIONAL CLOSING<br>                                                                          |
|       |                                                                                                     | A3734   | CONNECTION BLOCKS<br>FOR CREMONE<br>                                                                                   |
|       |                                                                                                     | A3735   | CORNER<br>TRANSMISSION<br>                                                                                              |

## E3600 PROFILES FOR ACCESSORIES

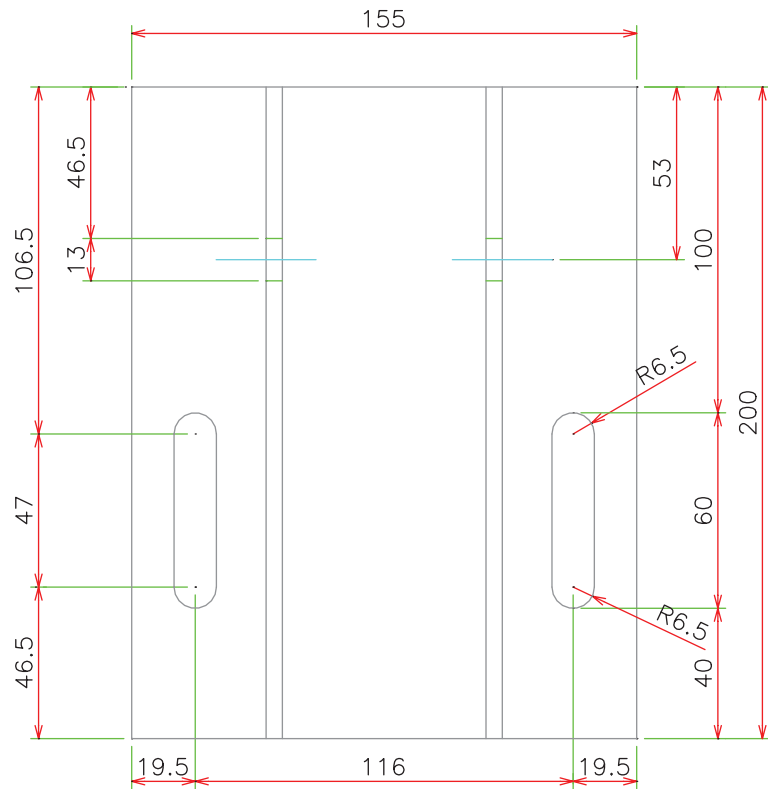
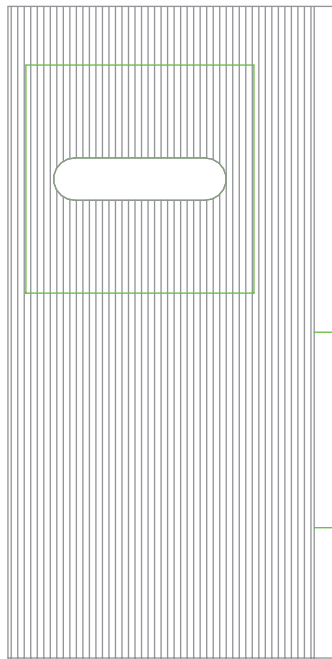
| CODE   | SECTION                                                                             | WEIGHT<br>Gr/ml | DESCRIPTION                                           | CODE  | SECTION                                                                              | WEIGHT<br>Gr/ml | DESCRIPTION                                                 |
|--------|-------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------|-------|--------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------|
| E2075  |    | 1582            | CORNER JOINT<br>11mm<br><br>A3713-14-15-16-17         | E3606 |    | 214             | UPPER FIX<br>ELEMENTS<br>STRUCTURAL<br>GLAZING<br><br>A3708 |
| E3601  |    | 2438            | JOIN MULLION<br>E3103<br><br>A3702.2                  | E3607 |    | 810             | LOWER FIX<br>ELEMENTS<br>STRUCTURAL<br>GLAZING<br>A3706     |
| E3602  |  | 510             | SUPPORT GLASS<br>STRUCTURAL<br>GLAZING<br><br>A37010  | E3608 |  | 138             | SUPPORT GLASS<br>CONVENTIONAL<br><br>A3712                  |
| E3603  |  | 1484            | FIX ELEMENTS<br>STRUCTURAL<br>GLAZING<br>GLASS INSERT | E3609 |  | 572             | SUPPORT GLASS<br>HORIZONTAL LINE<br><br>A3711               |
| E3603A |  | 1434            | A3707                                                 |       |                                                                                      |                 |                                                             |
| E3604  |  | 583             | SUPPORT BRACKET<br><br>A3701<br>A3721                 | E3610 |  | 1820            | CORNER JOINT<br>15mm<br><br>A3720                           |
| E3605  |  | 4876            | BRACKET<br><br>A3701                                  | E3611 |  | 1245            | JOINT TRANSOM<br>A3724-24.1-24.2                            |

## E3600 PROFILES FOR ACCESSORIES

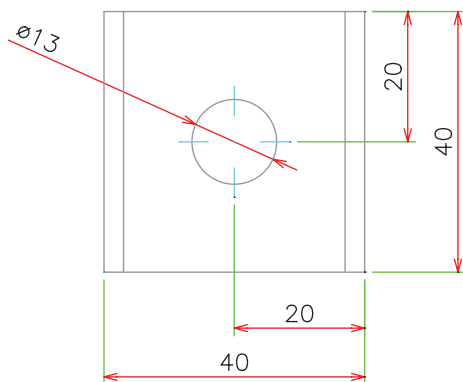
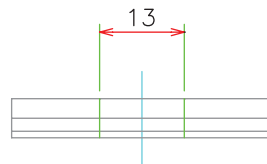
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|-------|-------------------------------------------------------------------------------------|-----------------|----------------------------------------------|-------|---------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------|
| E3612 |    | 1391            | MOVABLE SUPPORT<br>FIX TRANSOM<br>A3725-25.1 | E3618 |     | 2593            | JOINT CORNER<br>MULLION E3109                             |
| E3613 |    | 551             | GUIDE MOVABLE<br>FIX TRANSOM<br>A3725-25.1   | E3618 |     | 267             | UPPER FIX<br>ELEMENTS<br>STRUCTURAL<br>GLAZING<br>A3708.1 |
| E3614 |   | 3110            | JOINT MULLION<br>E3113<br>A3702.1<br>A3703.1 | E1401 |  | 148             | ROD BAR<br>SPACER SUPPORT<br>A3707                        |
| E3615 |  | 211             | SUPPORT GLASS<br>HORIZONTAL LINE<br>A3712.1  | E3621 |  | 224             | GLASS SUPPORT                                             |
| E3616 |  | 1404            | JOINT E3102<br>A3702.2<br>A3703.2            | E3622 |   | 343             | EXTENDED<br>GLASS SUPPORT                                 |
| E3617 |  | 4058            | CORNER<br>BRACKET<br>A3721                   |       |                                                                                       |                 |                                                           |

## PREPARATIONS OF ACCESSORIES FROM EXTRUSION PROFILES

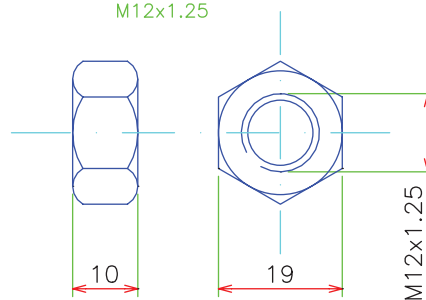
A3701



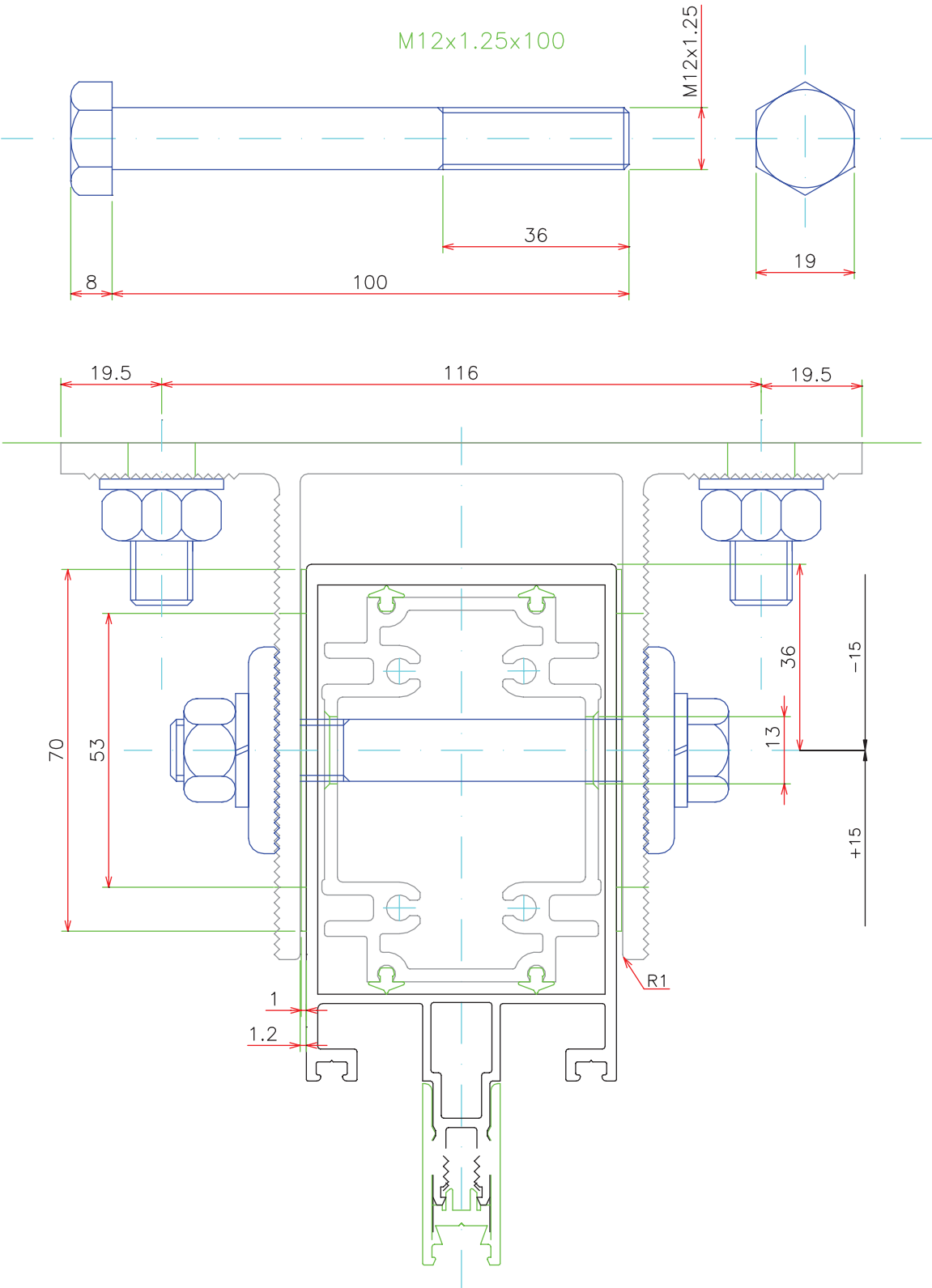
E3604

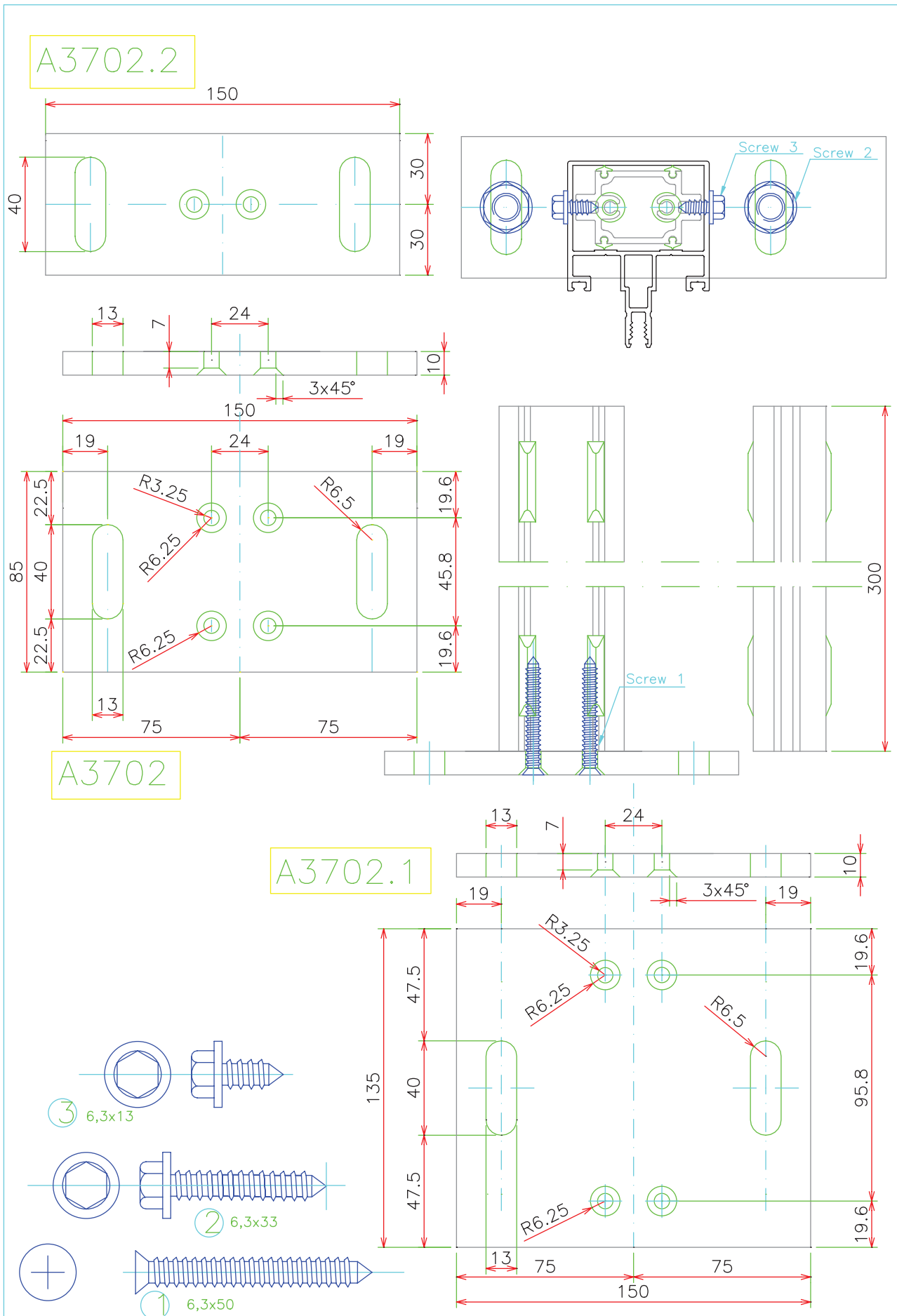


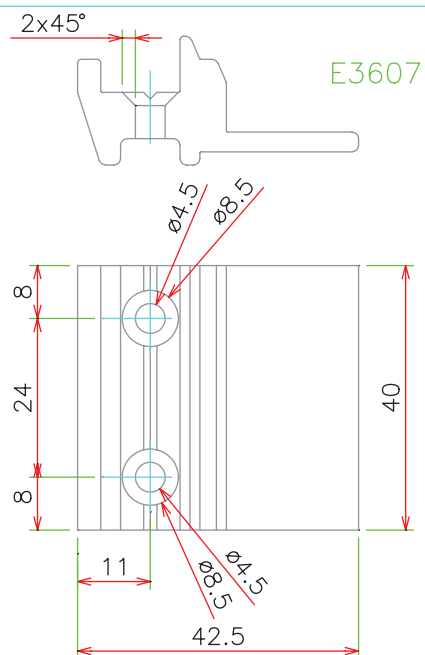
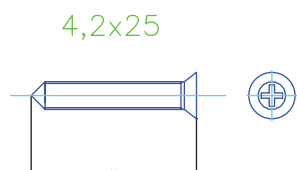
M12x1.25



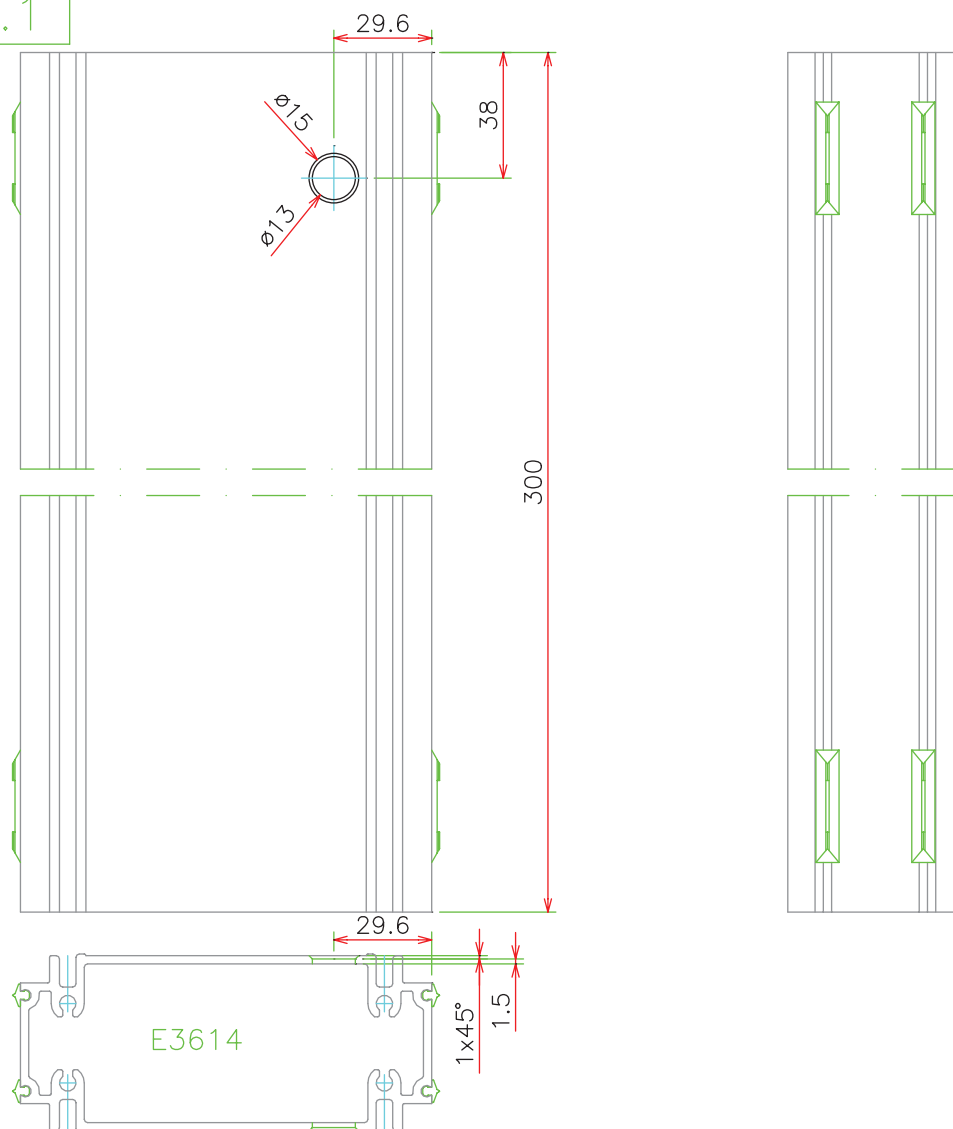
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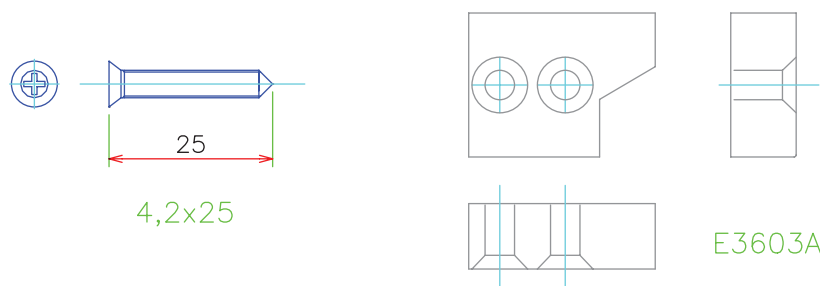
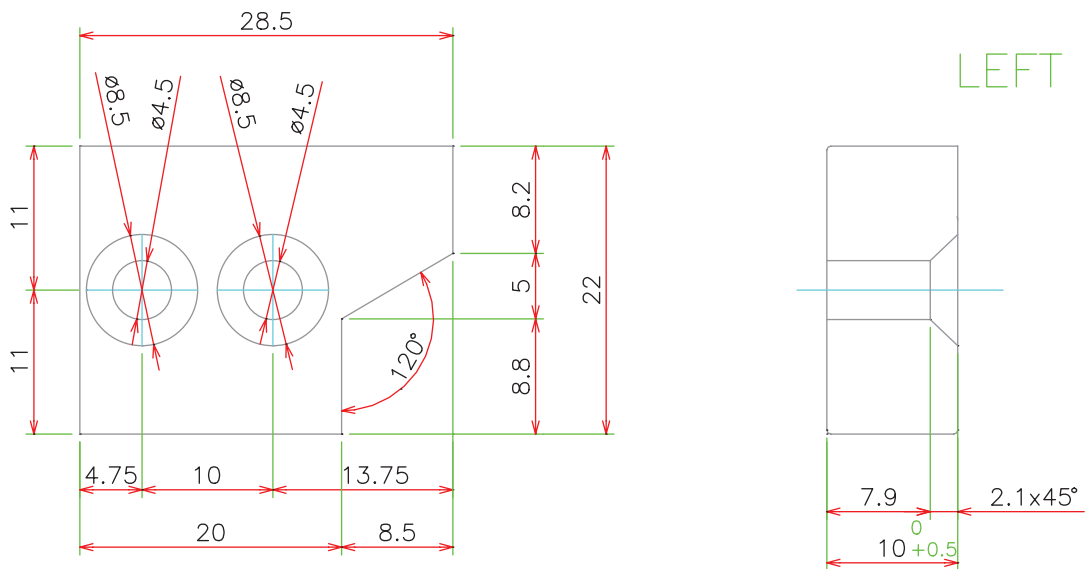
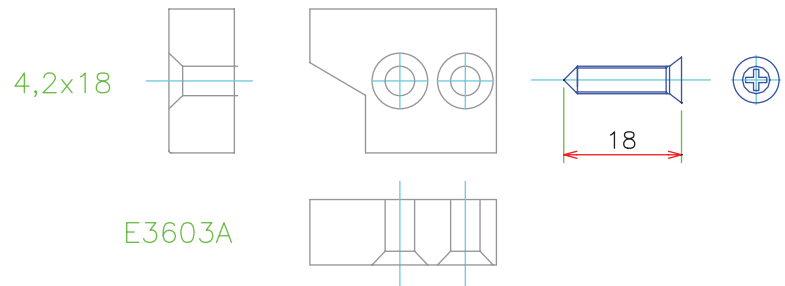
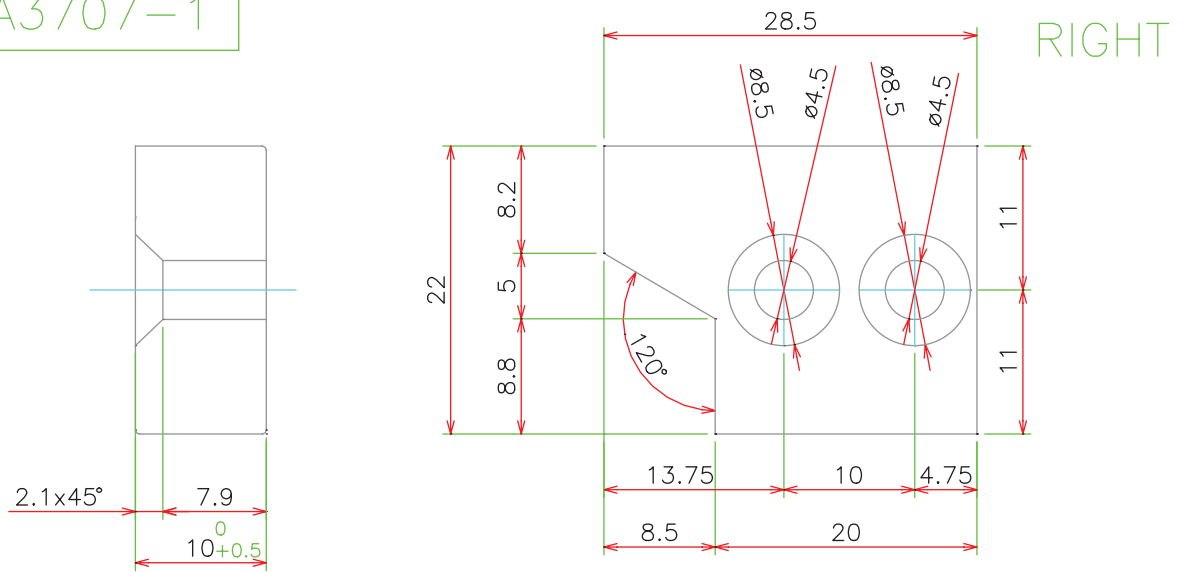




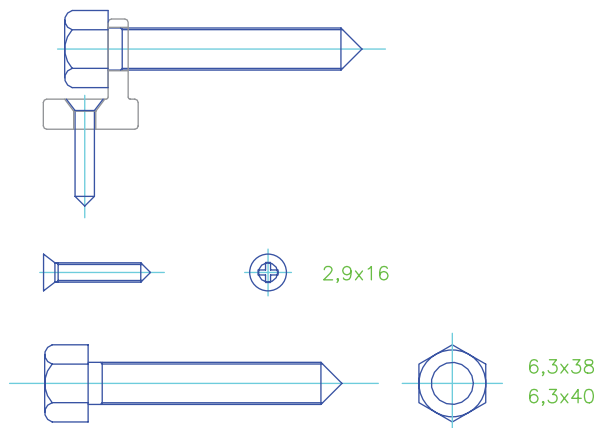
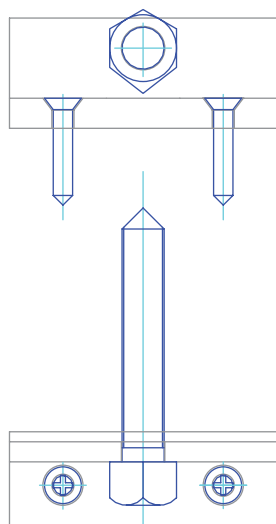
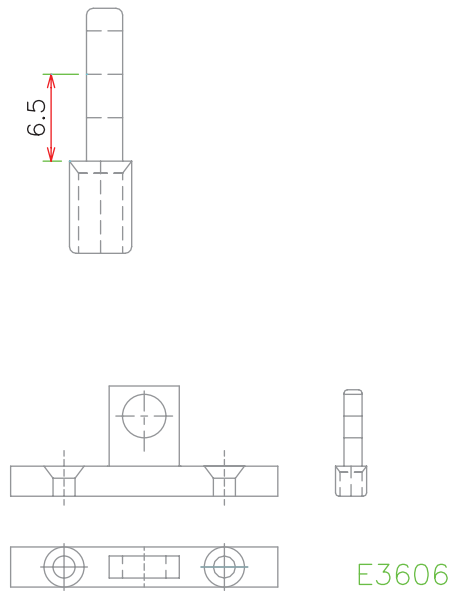
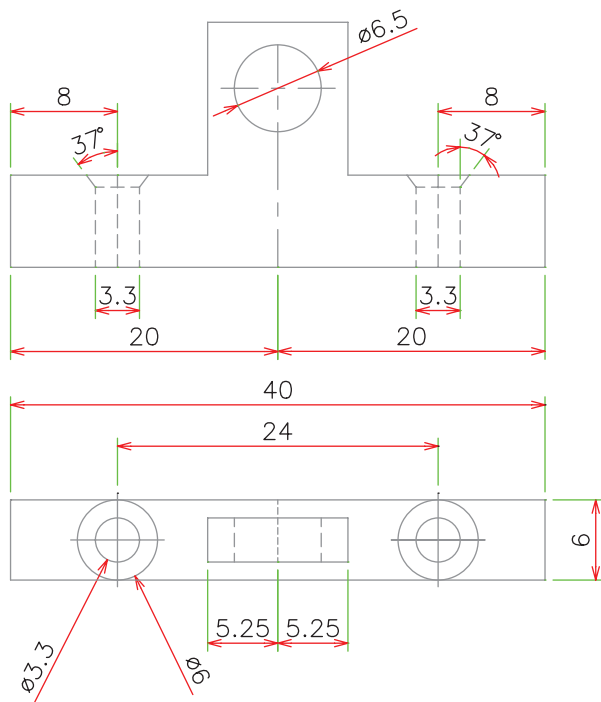
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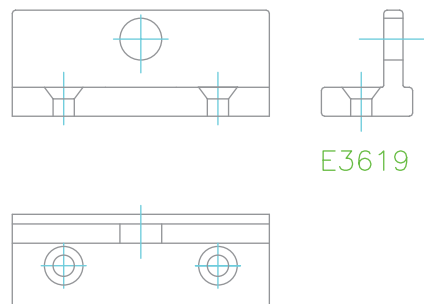
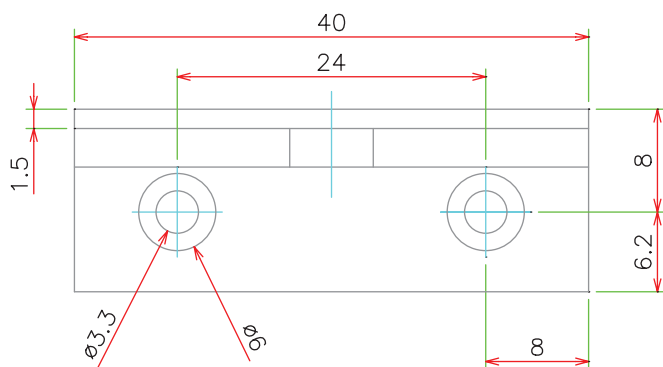
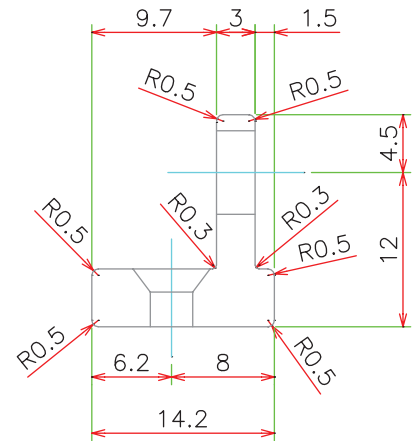
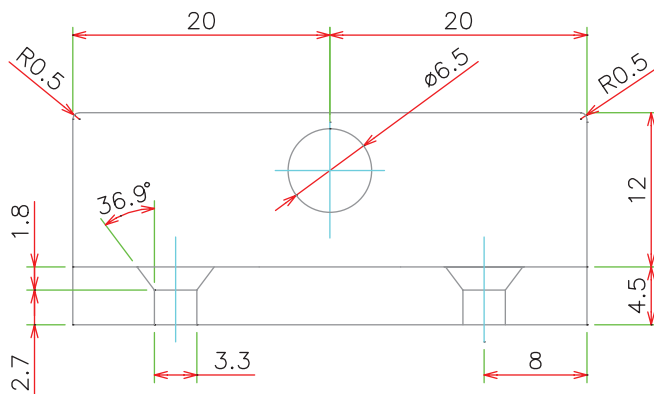
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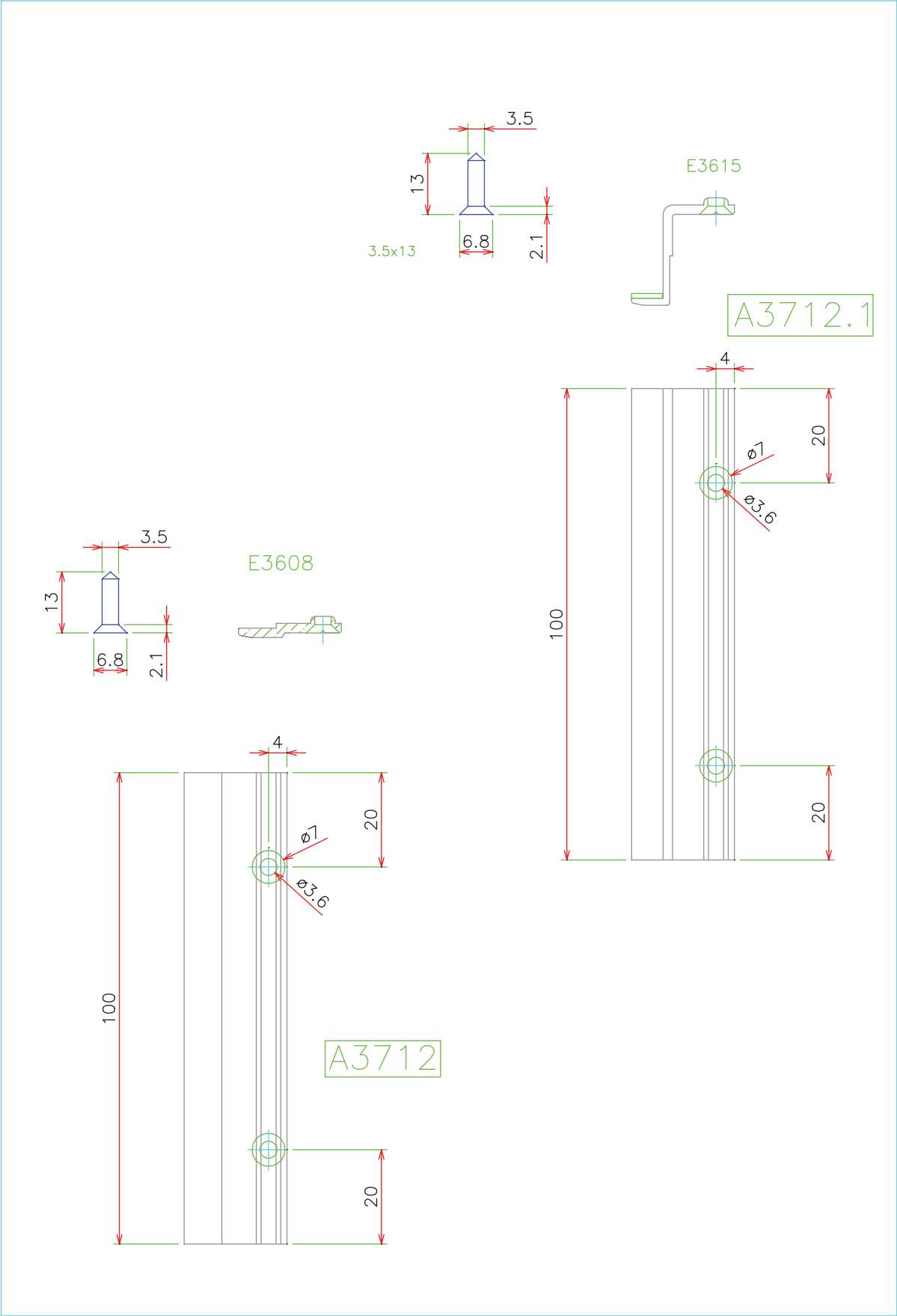
A3708



A3708.1

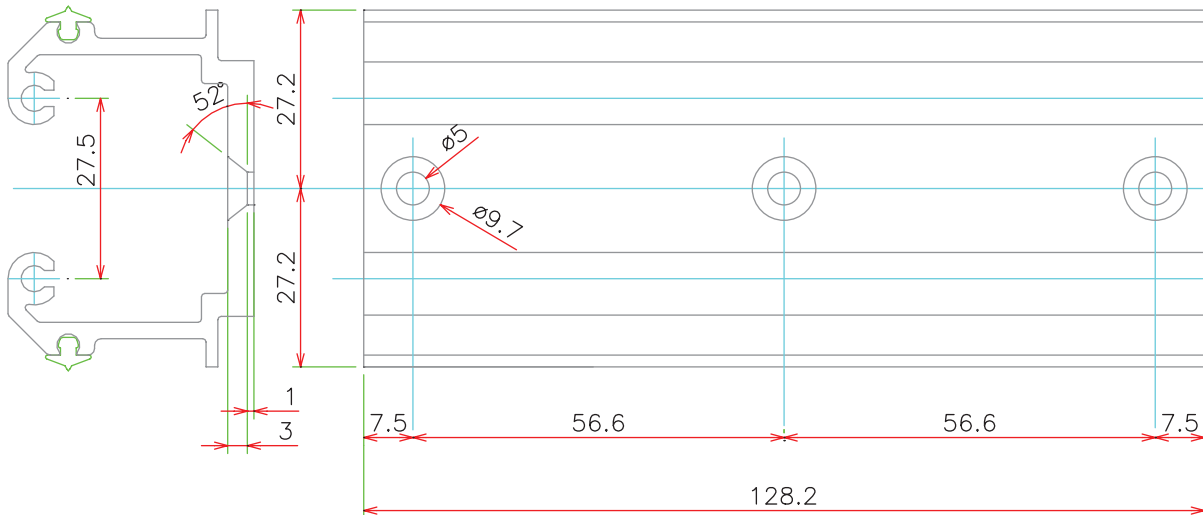


E3619

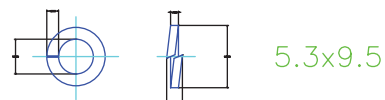
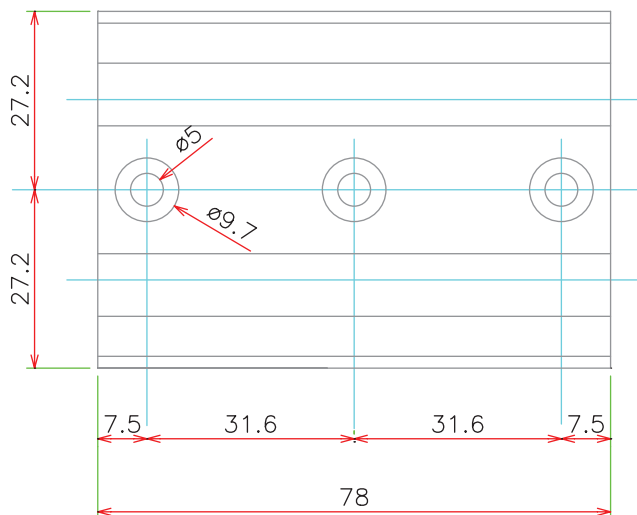


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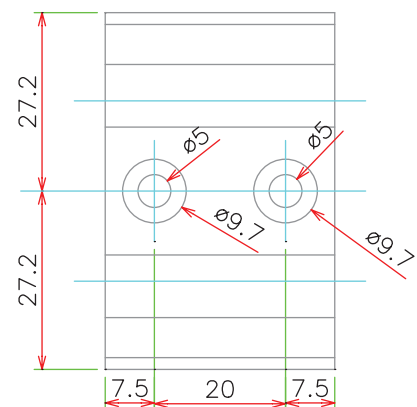
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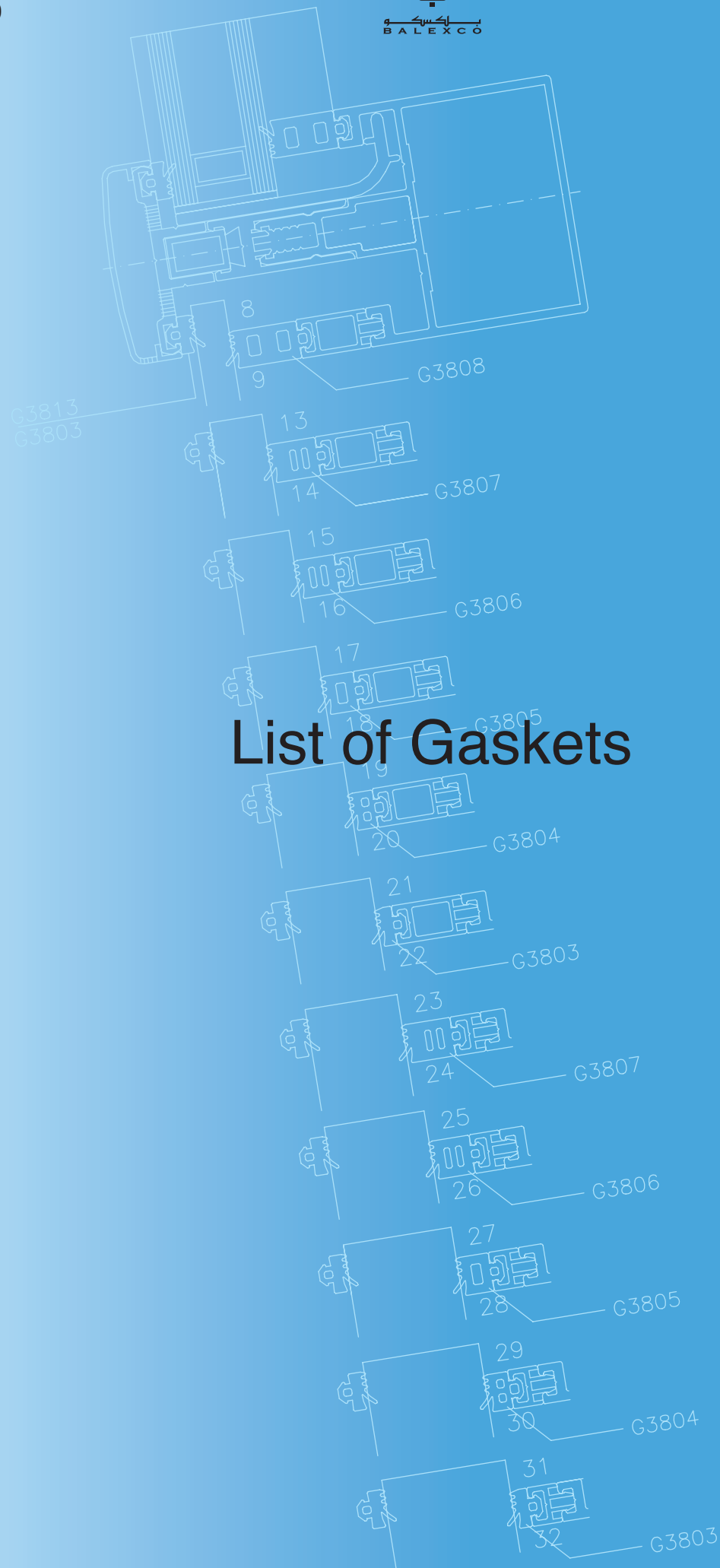


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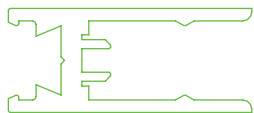


A3724

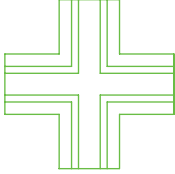
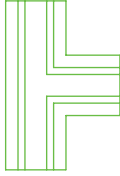
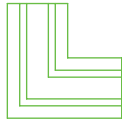




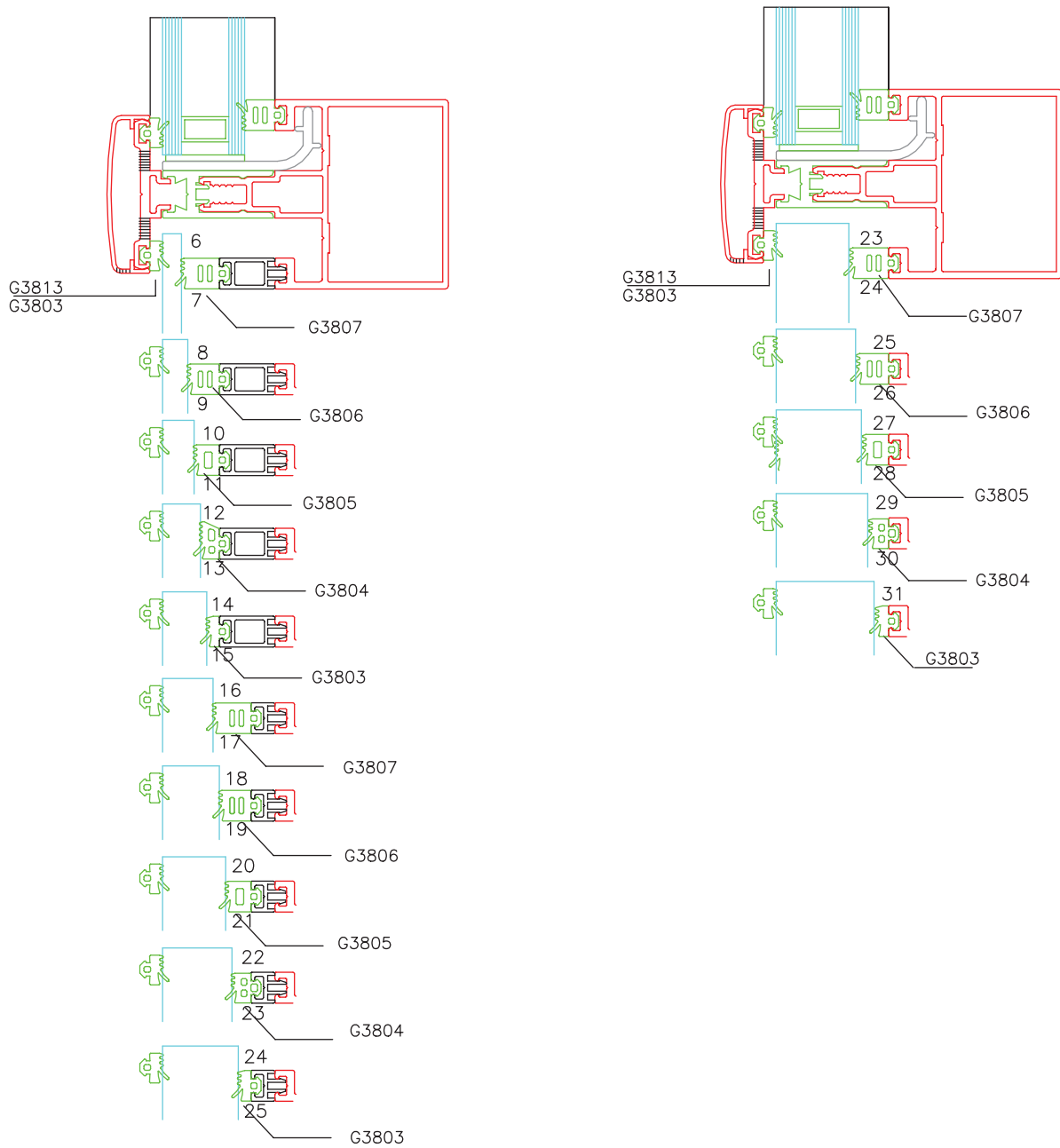
## LIST OF GASKETS

| ITEM  | DRAWING AND DESCRIPTION                                                             |                                                                   | ITEM  | DRAWING AND DESCRIPTION                                                               |                                                            |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|------------------------------------------------------------|
| G3801 |    | FOR INSERT GLASS<br>EPDM                                          | G3807 |    | INTERNAL GLASS<br>12 mm EPDM                               |
| G3802 |    | FOR INSERT GLASS<br>VERSIONS G3826<br>EPDM                        | G3808 |    | INTERNAL GLASS<br>17 mm EPDM                               |
| G3803 |  | EXTERNAL GLASS<br>4 mm EPDM<br>INTERNAL RABBET<br>WING STRUCTURAL | G3809 |  | DOUBLE ADHESIVE<br>TAPE FOR<br>STRUCTURAL GLASS            |
| G3804 |  | INTERNAL GLASS<br>6 mm EPDM                                       | G3810 |   | THERMAL BREAK<br>FOR MULLION<br>AND TRANSOM<br>SPECIAL PVC |
| G3805 |  | INTERNAL GLASS<br>8 mm EPDM                                       | G3811 |   | EXTERNAL RABBET<br>MULLION TRANSOM<br>EPDM                 |
| G3806 |  | INTERNAL GLASS<br>10 mm EPDM                                      | G3812 |  | SEAL FOR PROFILE<br>EPDM                                   |

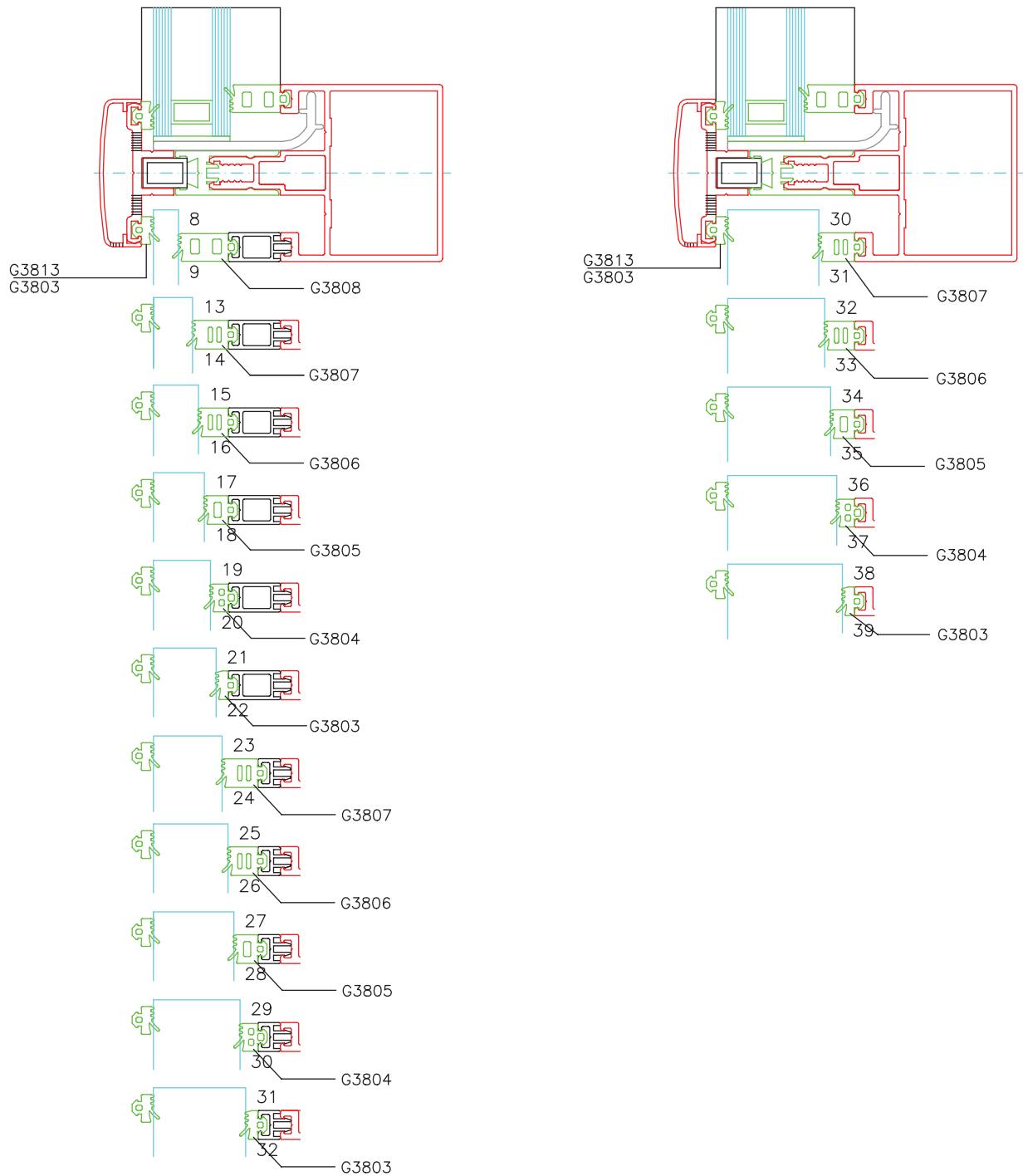
## LIST OF GASKETS

| ITEM  | DRAWING AND DESCRIPTION                                                             |                                                            | ITEM  | DRAWING AND DESCRIPTION                                                               |                                |
|-------|-------------------------------------------------------------------------------------|------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|--------------------------------|
| G3813 |    | EXTERNAL GLASS<br>THERMAL BREAK<br>4 mm EPDM               | G3822 |     | CORNER FOUR<br>WAY-CROSS       |
| G3814 |    | FOR HINGE PROFILE<br>ROUNDED CORNER<br>EPDM                | G3823 |     | CORNER THREE<br>WAY-T          |
| G3815 |    | GASKET FOR<br>FOR MULLIONS -TRANSOMS<br>SPECIAL PVC IN PCS | G3824 |    | CORNER TWO<br>WAY-L            |
| G3817 |  | ON THERSOLD FRAME                                          | G3825 |   | INTERNAL PART<br>GLASS<br>EPDM |
| G3818 |  | ON FIN RABBET<br>WING OPEN OUTSIDE                         | G3826 |   | INTERNAL PART<br>GLASS<br>EPDM |
| G3819 |  | HORIZONTAL LINE<br>EPDM                                    | G3827 |  | ROUNDED<br>SEALANT             |
| G3820 |  | HORIZONTAL LINE<br>EPDM<br>CORNER VULCANIZED               | G3828 |   | INTERNAL PART GLASS<br>EPDM    |
| G3821 |  | HORIZONTAL LINE<br>EPDM                                    | G3829 |   | INTERNAL PART<br>GLASS<br>EPDM |

## CONVENTIONAL INSERT GLASS GASKETS

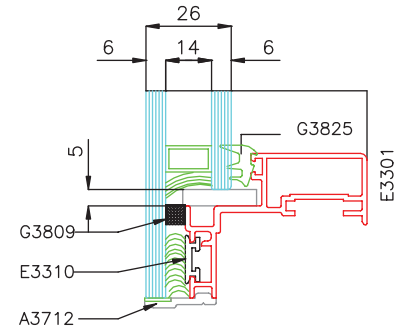
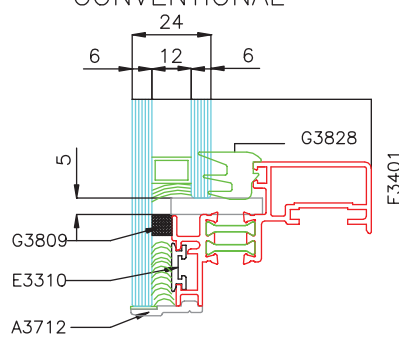
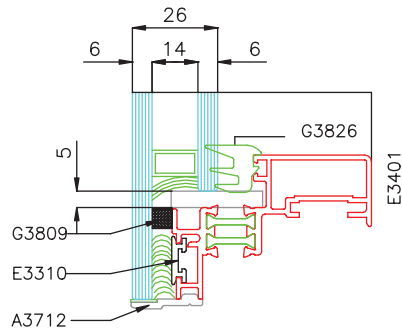


## HORIZONTAL LINE INSERT GLASS-GASKETS

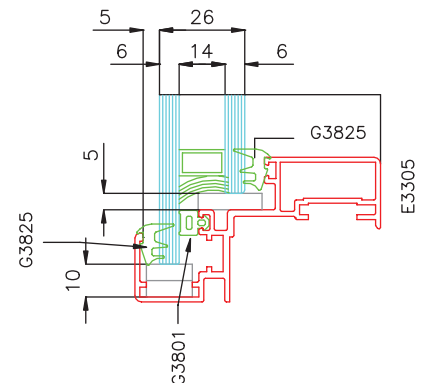
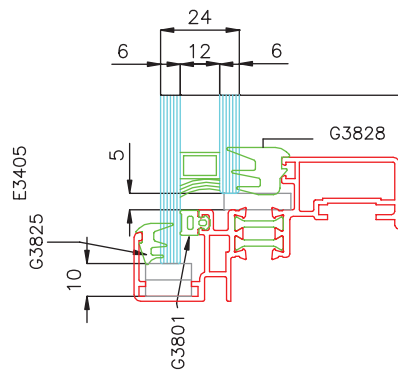
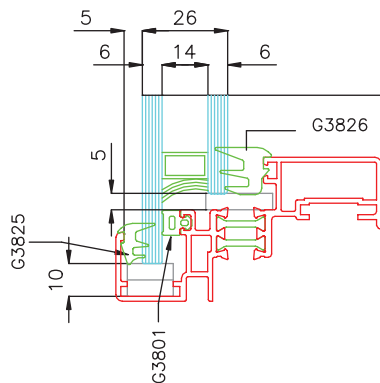


## WINDOW AND PANEL GLAZING

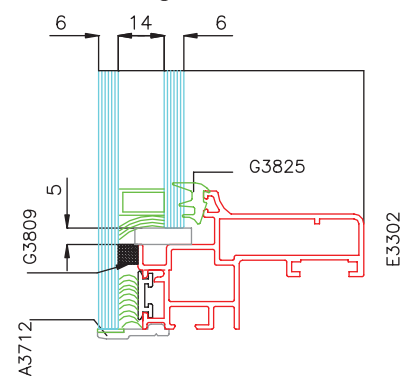
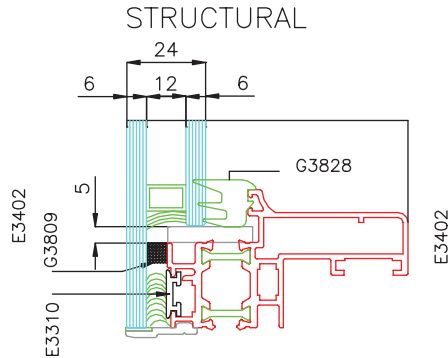
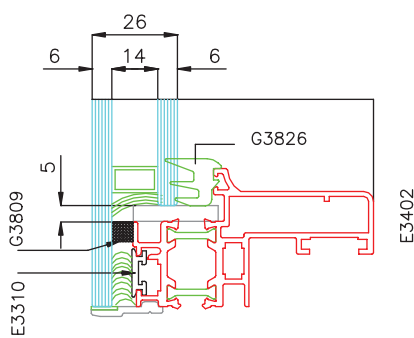
### CONVENTIONAL



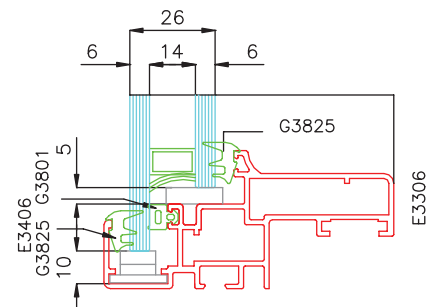
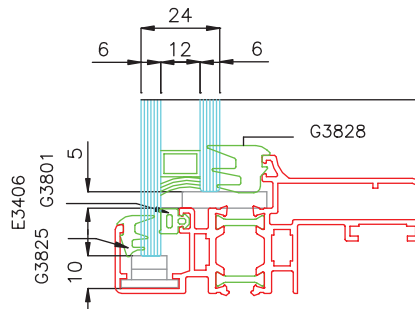
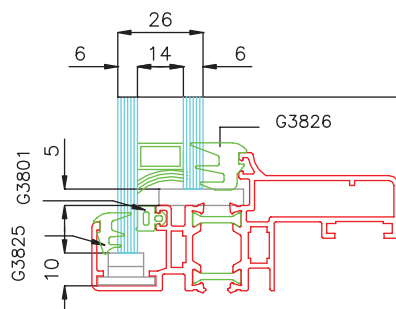
### CONVENTIONAL WITH FRAMED GLASS INSERT



### STRUCTURAL

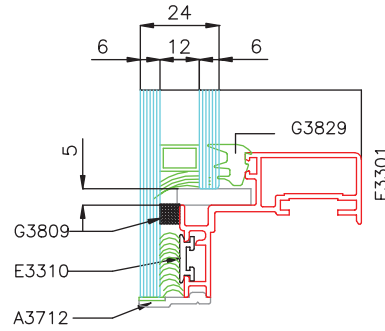


### FRAMED GLASS INSERT

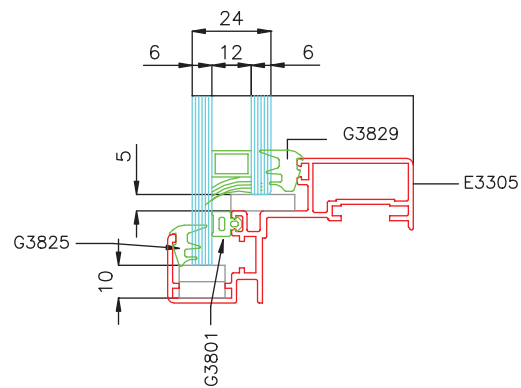


## WINDOW AND PANEL GLAZING

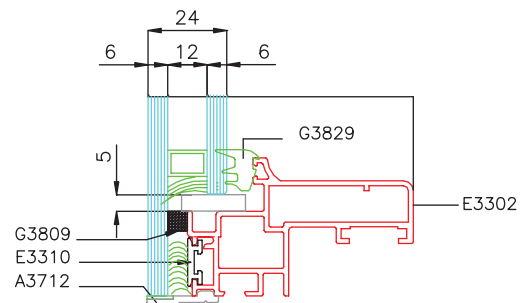
CONVENTIONAL



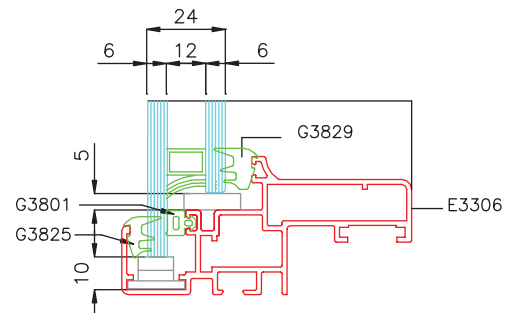
CONVENTIONAL  
WITH FRAMED  
GLASS INSERT

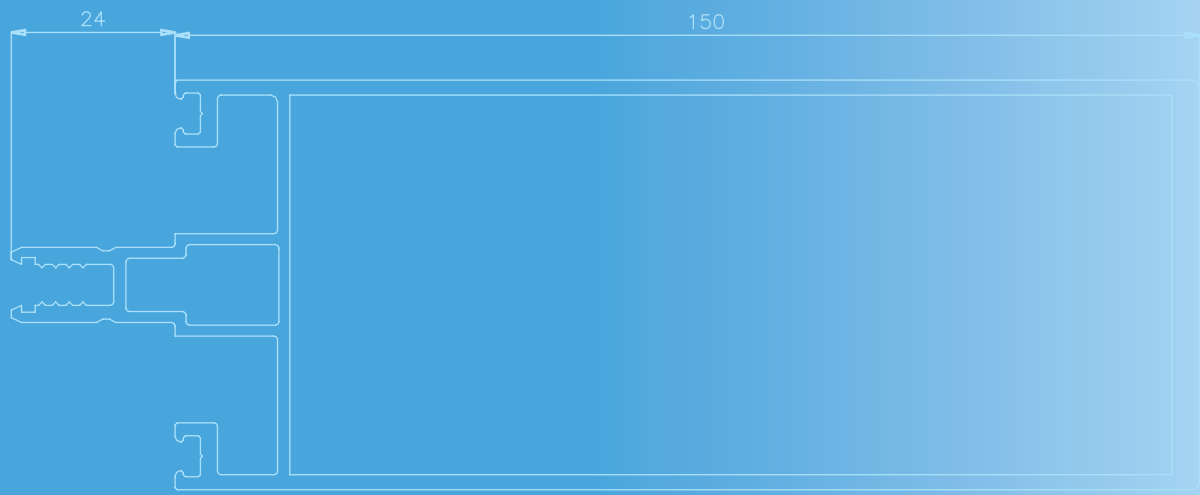


STRUCTURAL

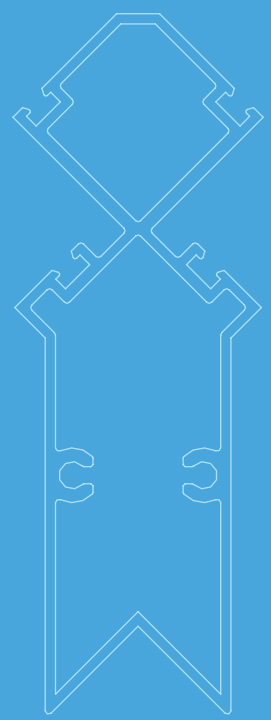


FRAMED GLASS  
INSERT





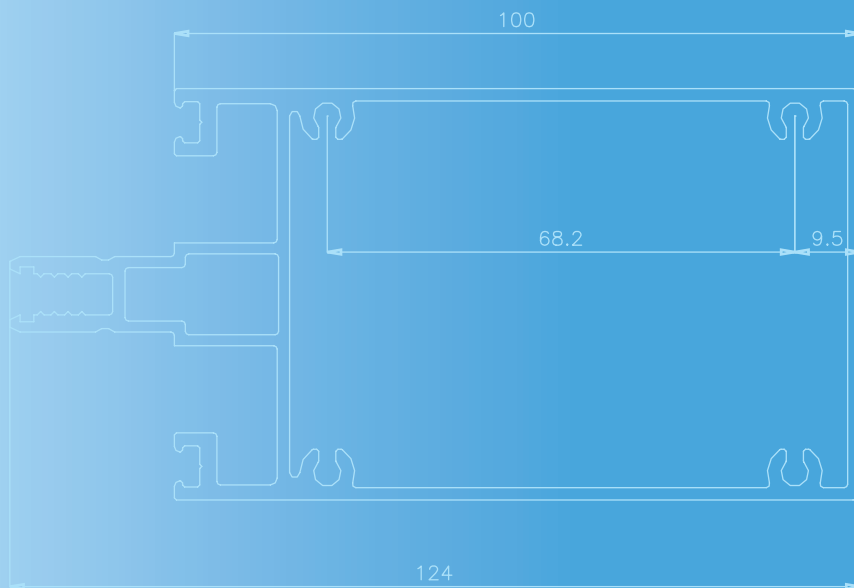
E3113  
g/m 3240



E3111  
g/m 1474



E3110  
g/m 1196



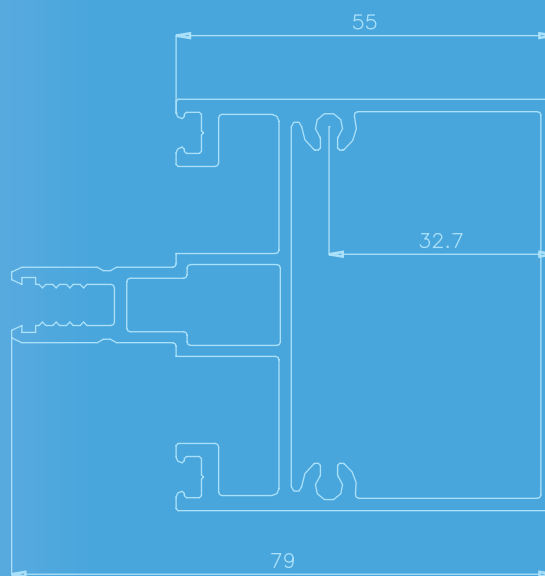
E3105

g/m 2414

## Common Profiles

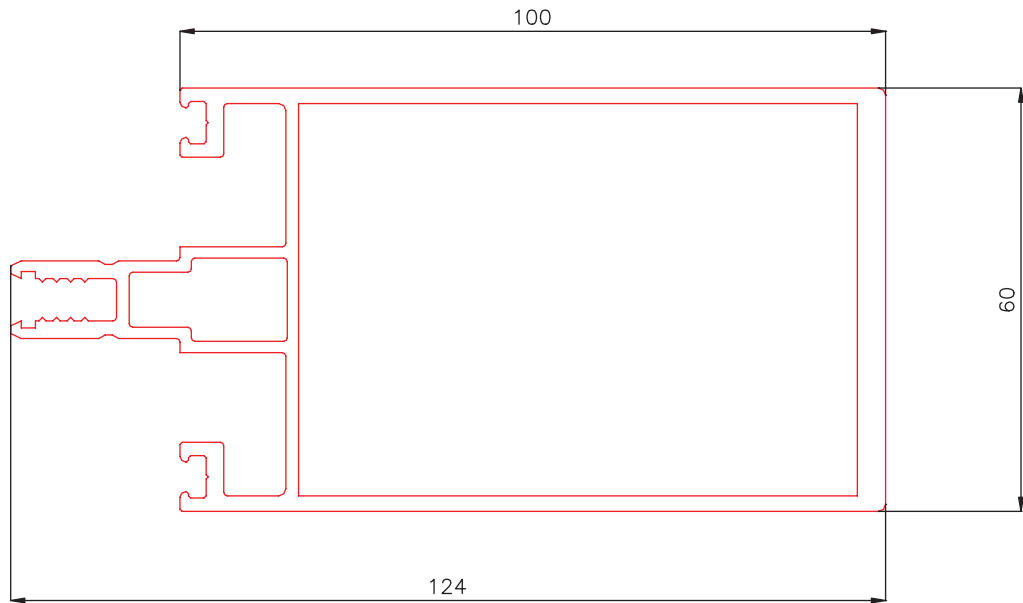


E3106  
g/m 1596

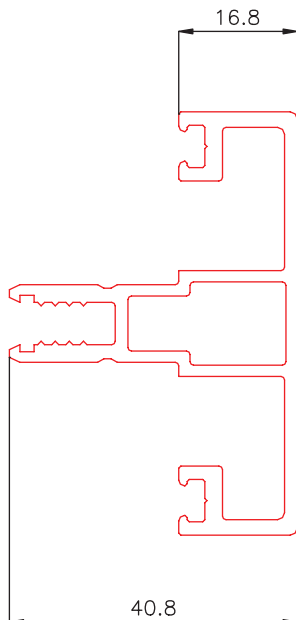


E3104  
g/m 1847

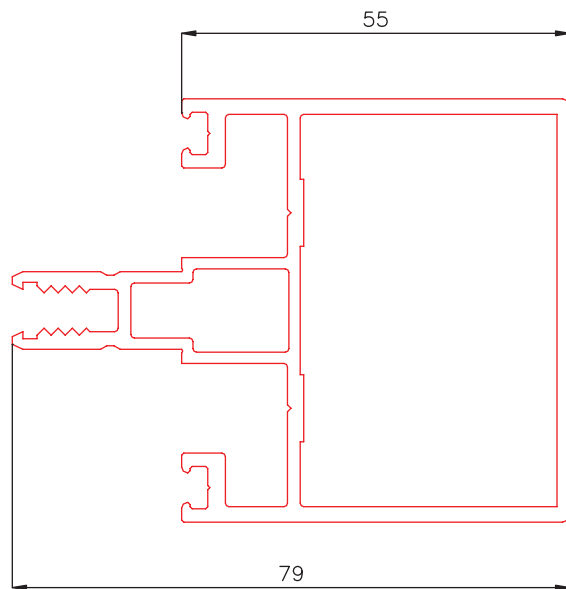
## COMMON PROFILES E3100 MULLION - TRANSOM



E3103  
g/m 2646

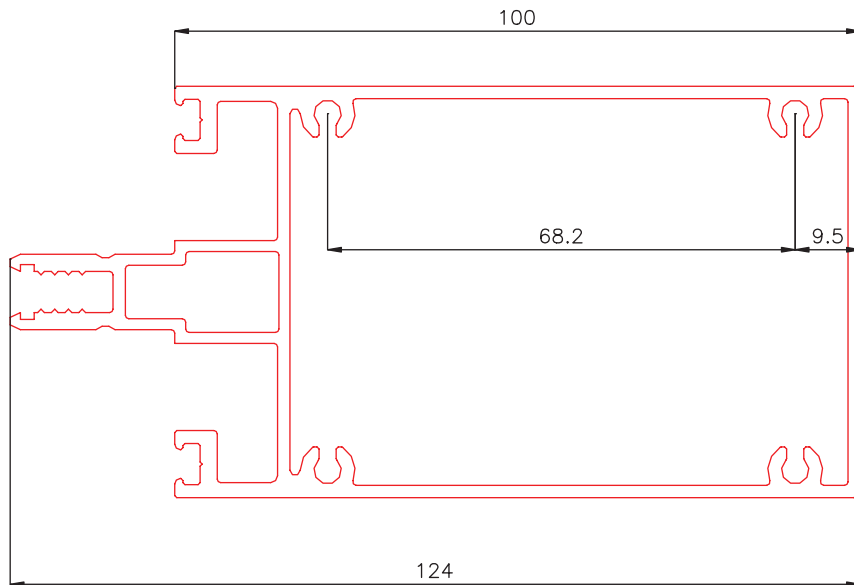


E3101  
g/m 1058

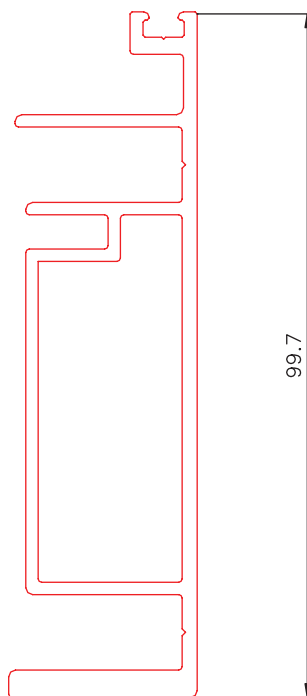


E3102  
g/m 1806

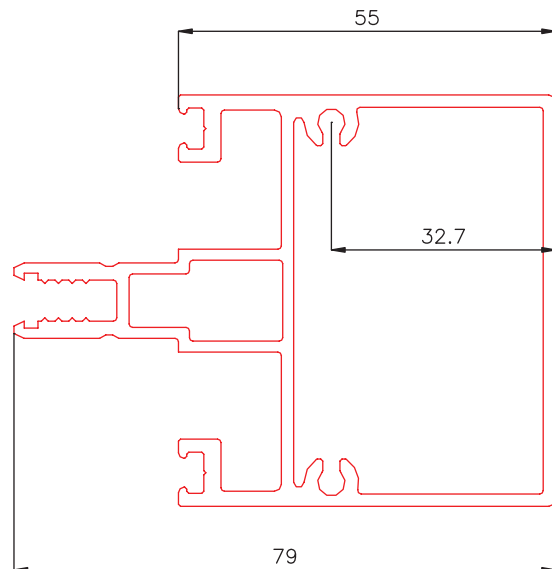
## COMMON PROFILES E3100 MULLION - TRANSOM



E3105  
g/m 2414

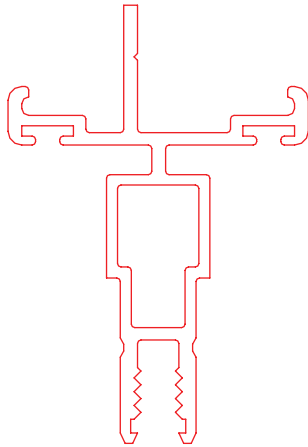


E3106  
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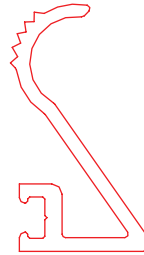


E3104  
g/m 1847

## COMMON PROFILES E3100 MULLION - TRANSOM



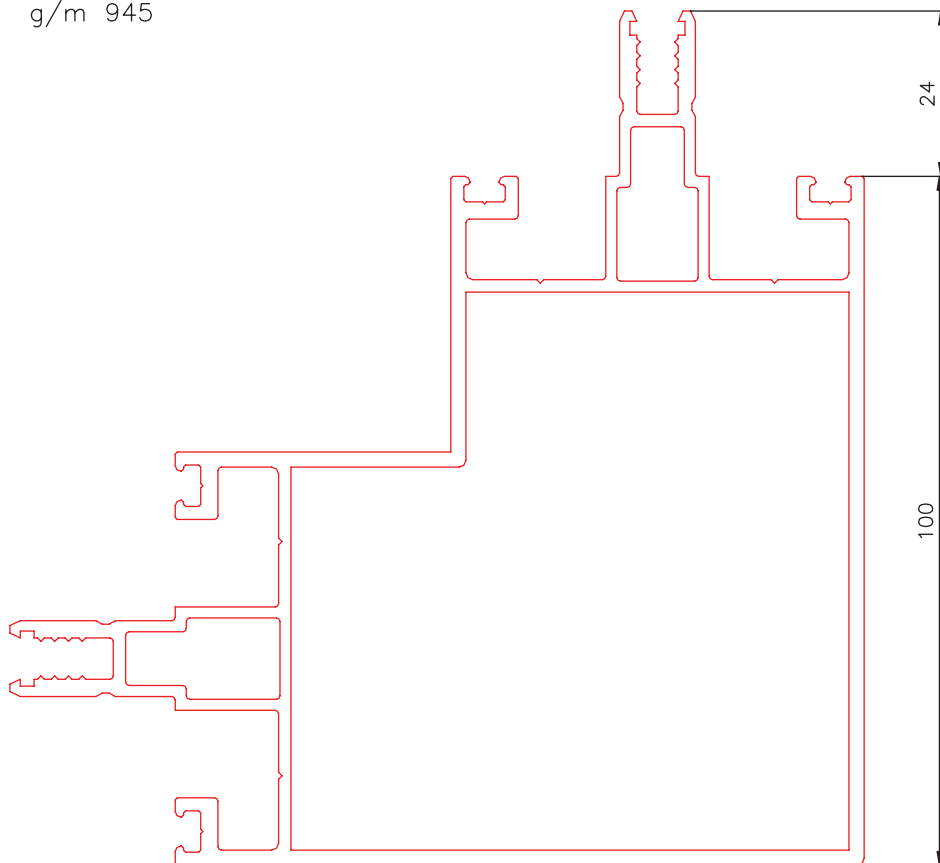
E3107  
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E3112  
g/m 421

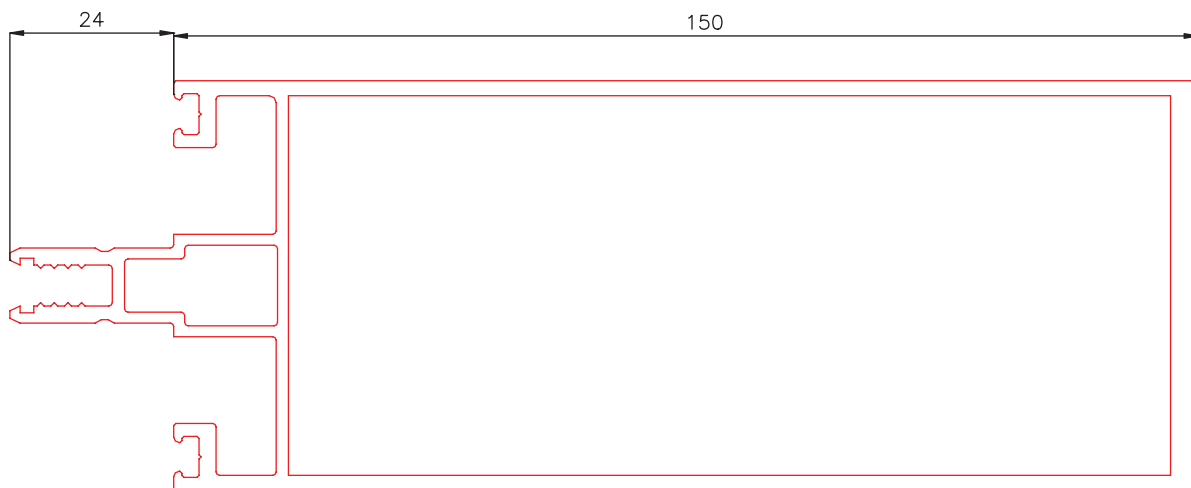


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g/m 324

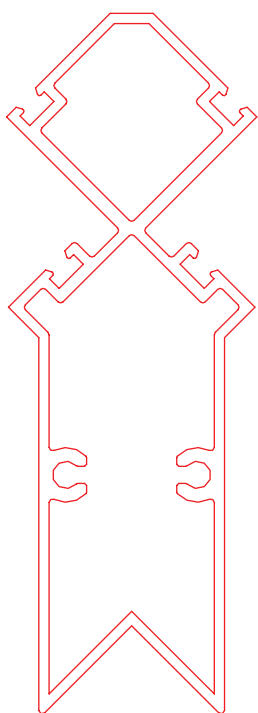


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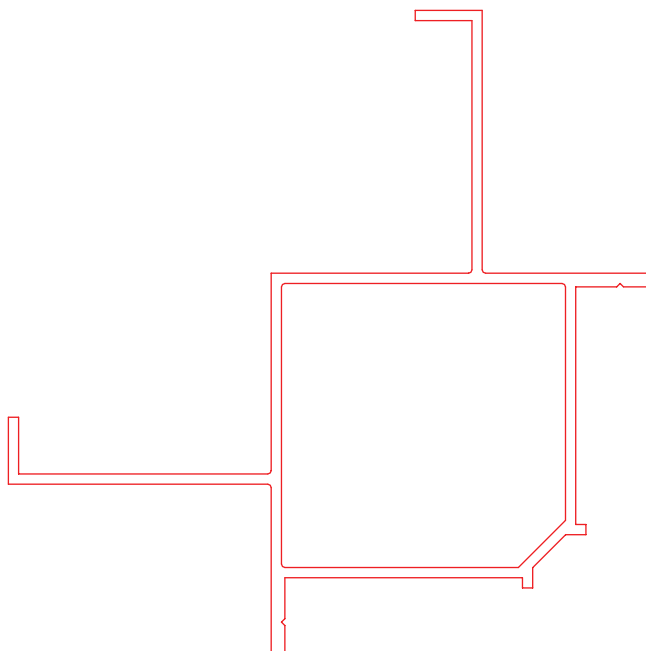
## COMMON PROFILES E3100 MULLION - TRANSOM



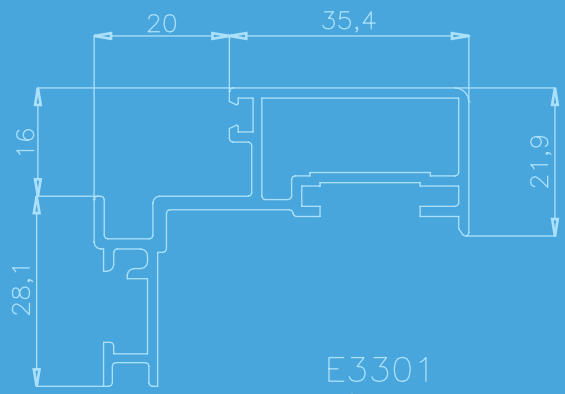
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g/m 3240



E3111  
g/m 1474

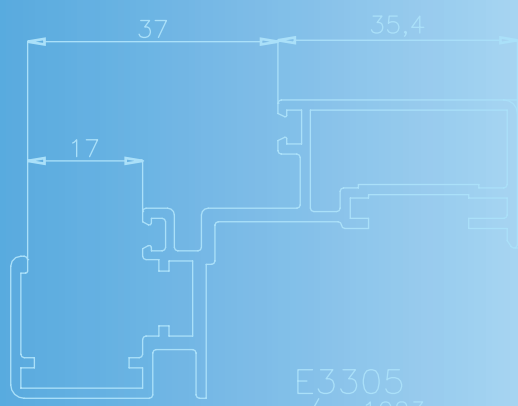


E3110  
g/m 1196

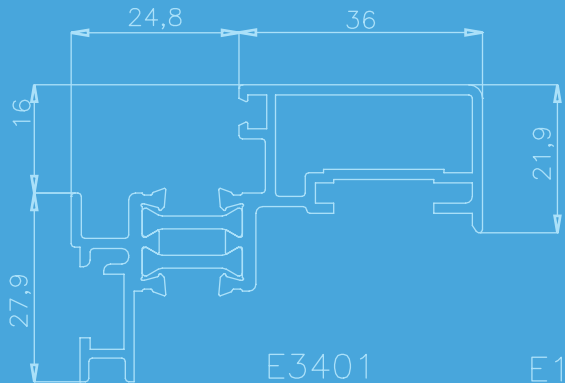


E3301  
g/m 815

E3310  
g/m 108

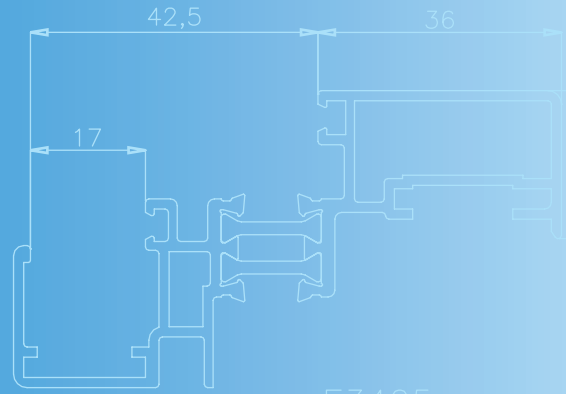


E3305  
g/m 1023

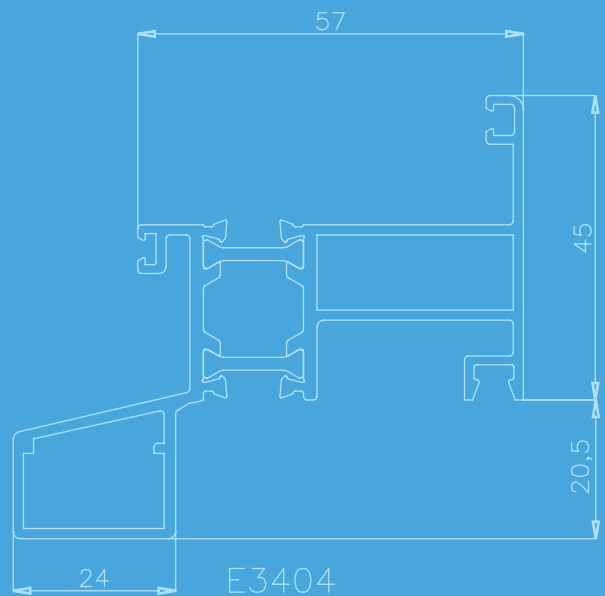


E3401  
g/m 943

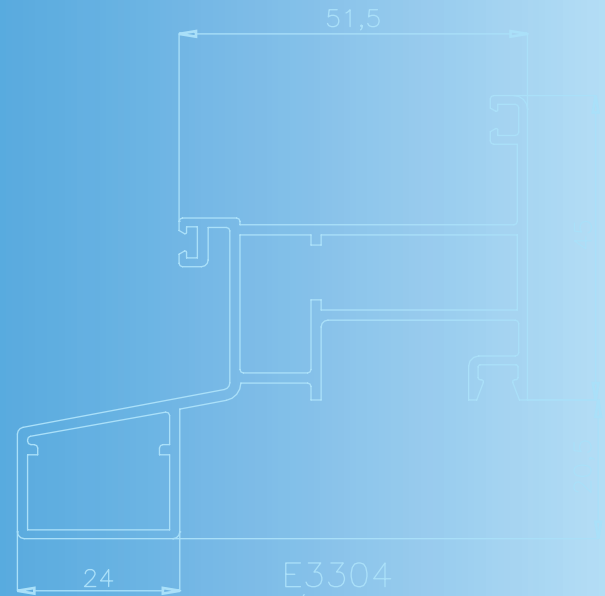
E1401  
g/m 148



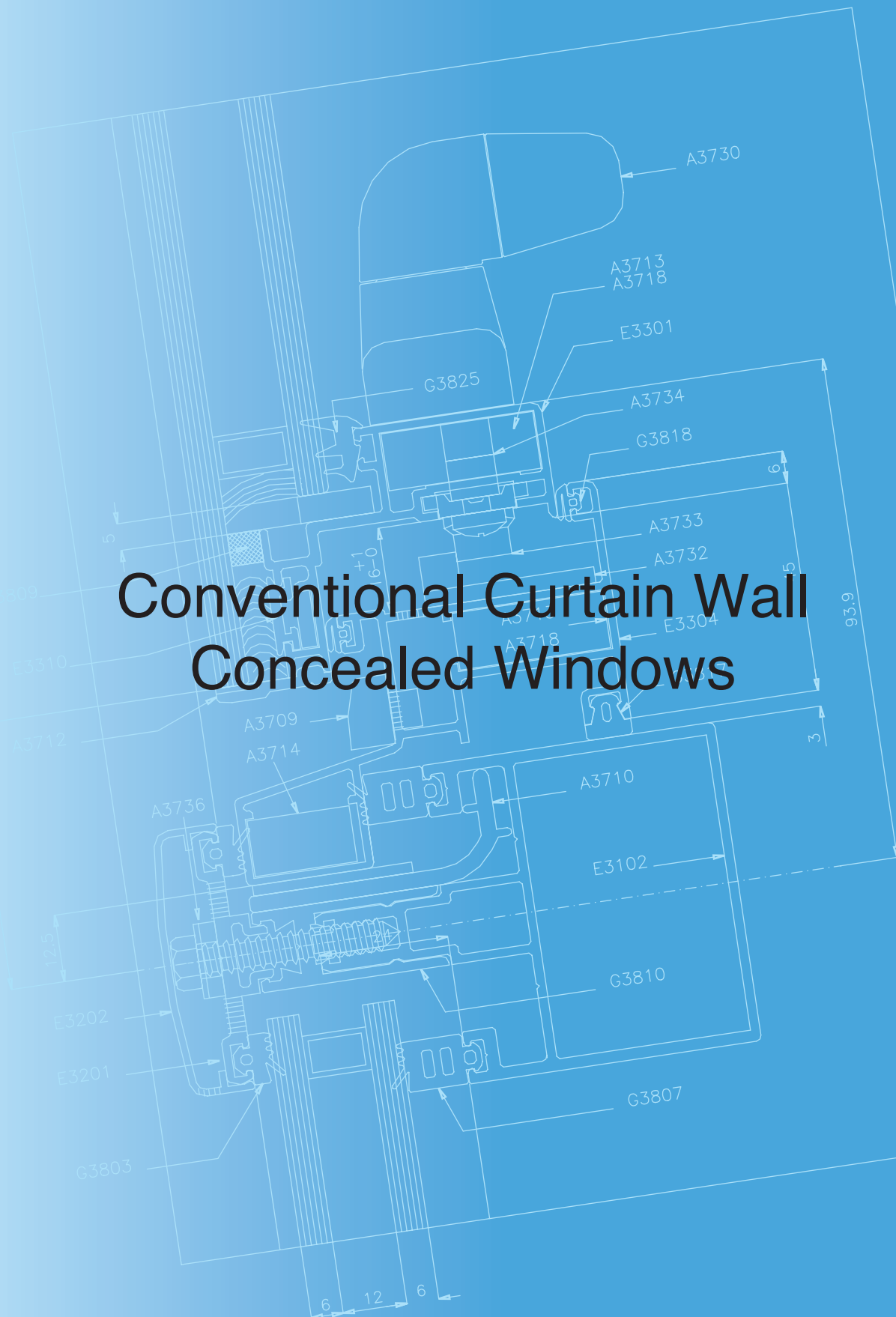
E3405  
g/m 1172



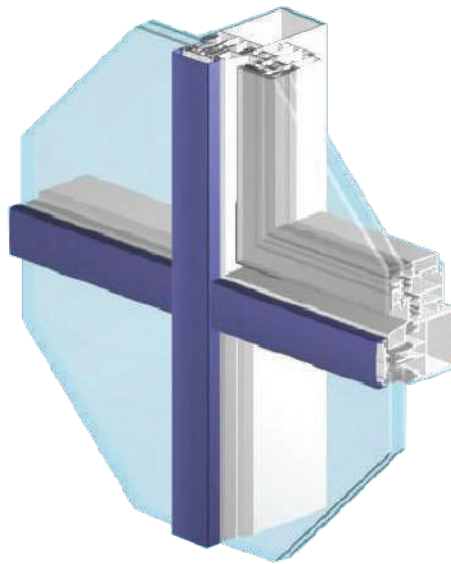
E3404  
g/m 1348



E3304  
g/m 1169

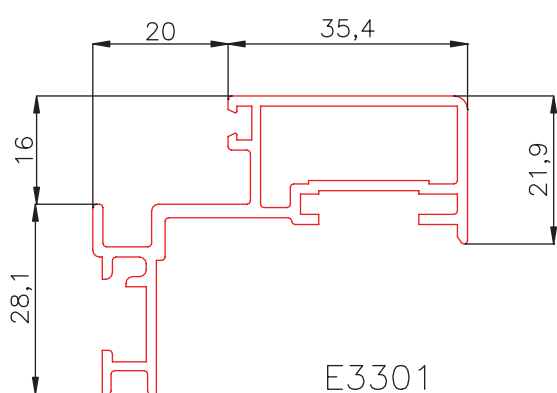


# Conventional Curtain Wall Concealed Windows



Conventional Curtain Wall Concealed Windows

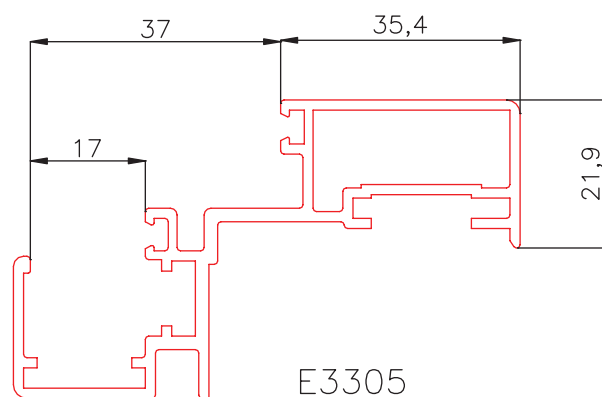
## CONVENTIONAL - PROFILES



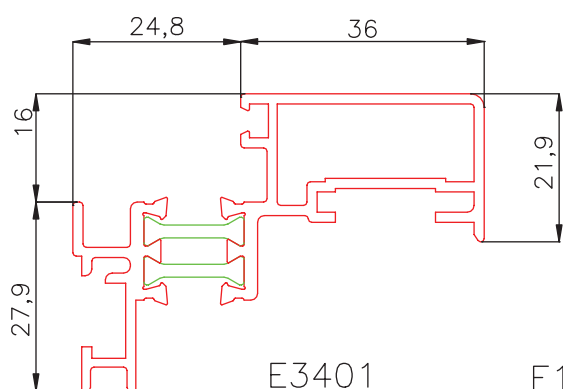
E3301  
g/m 815



E3310  
g/m 108



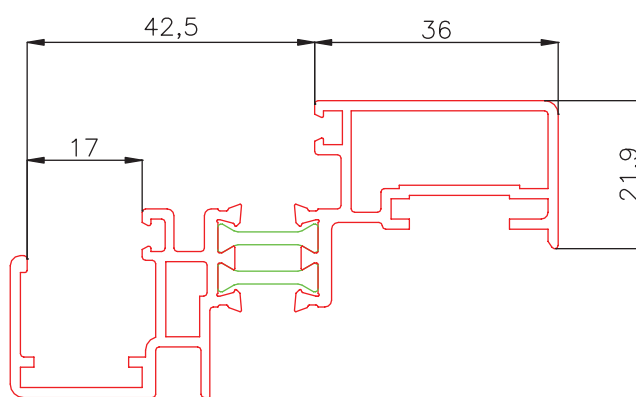
E3305  
g/m 1023



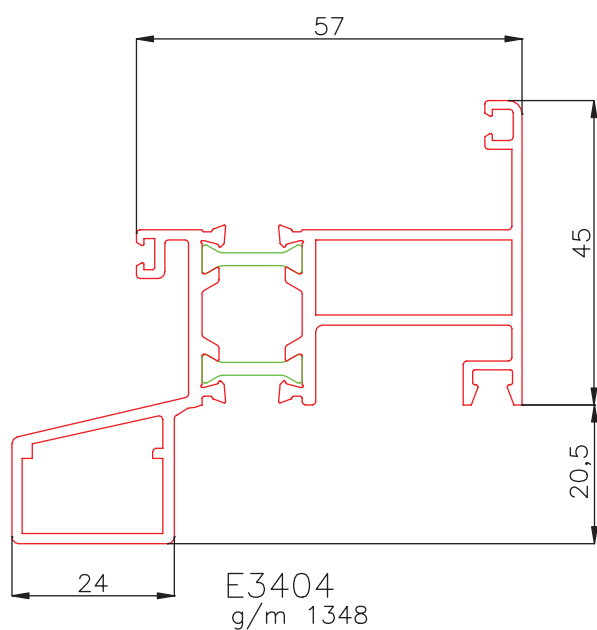
E3401  
g/m 943



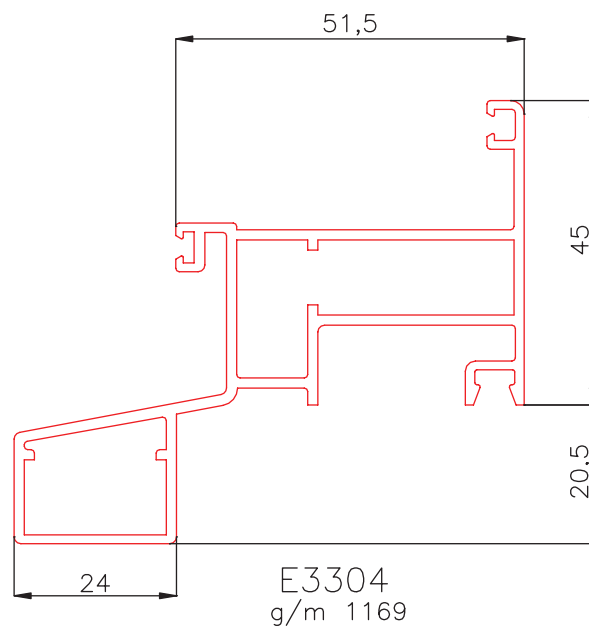
E1401  
g/m 148



E3405  
g/m 1172

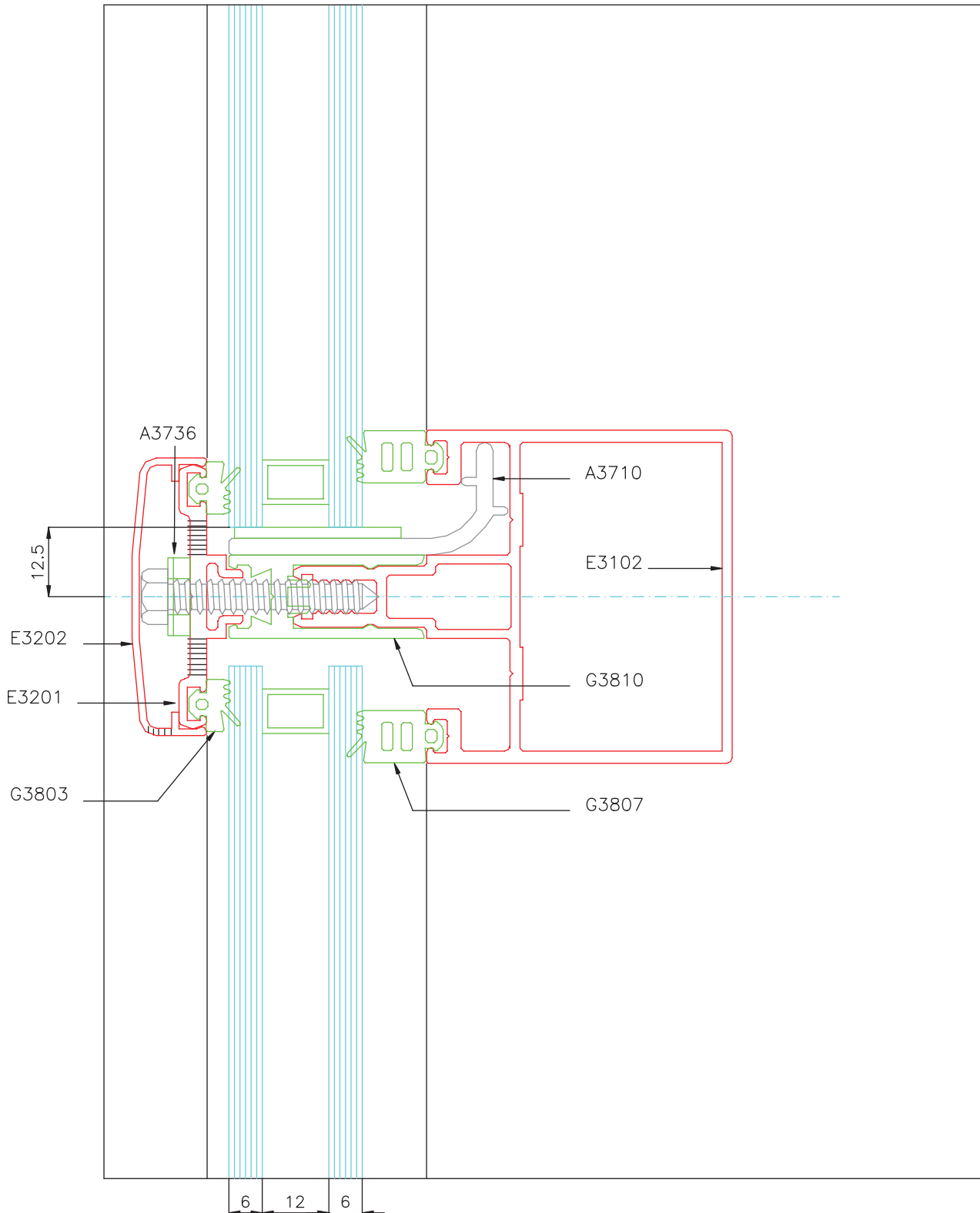


E3404  
g/m 1348

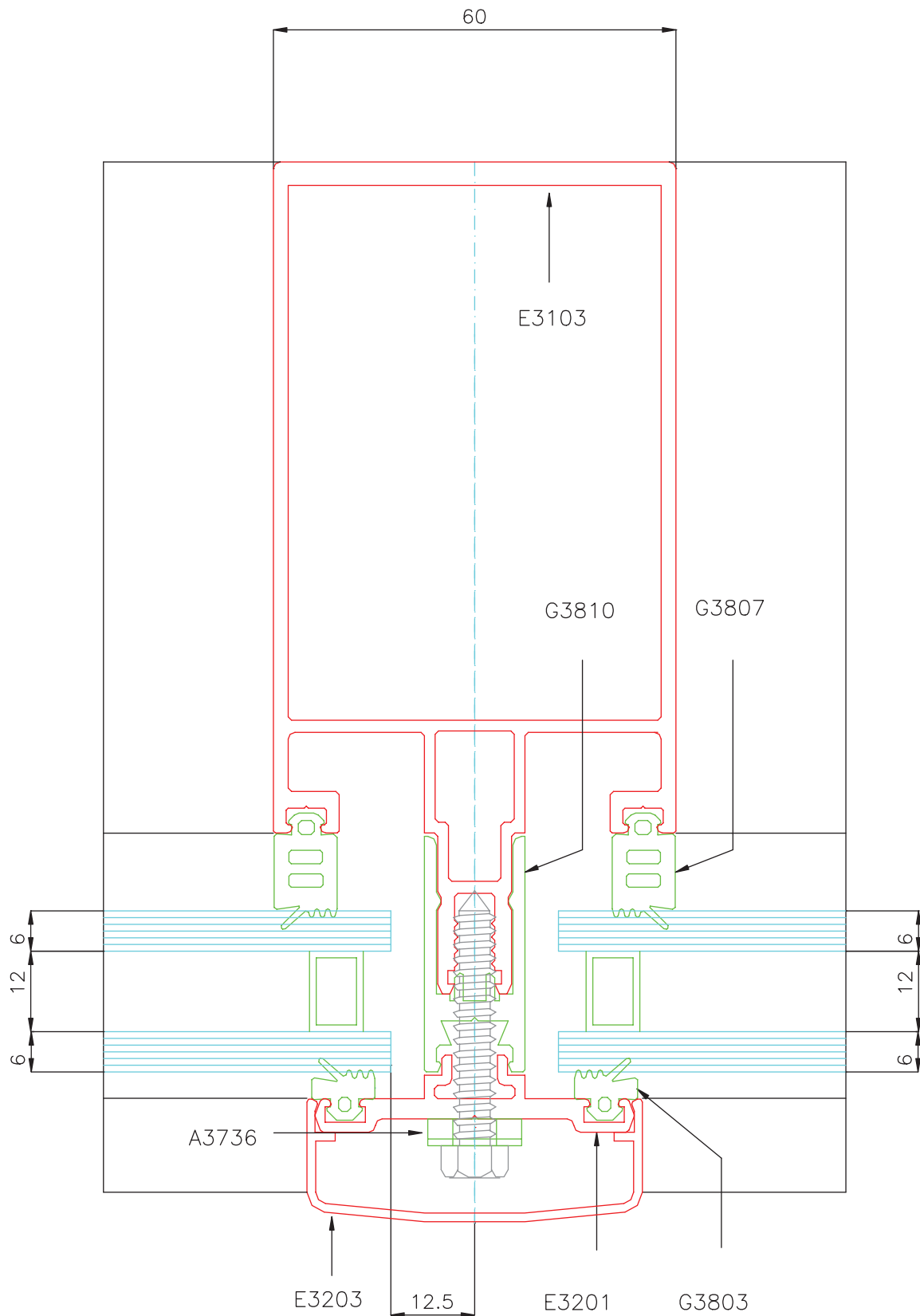


E3304  
g/m 1169

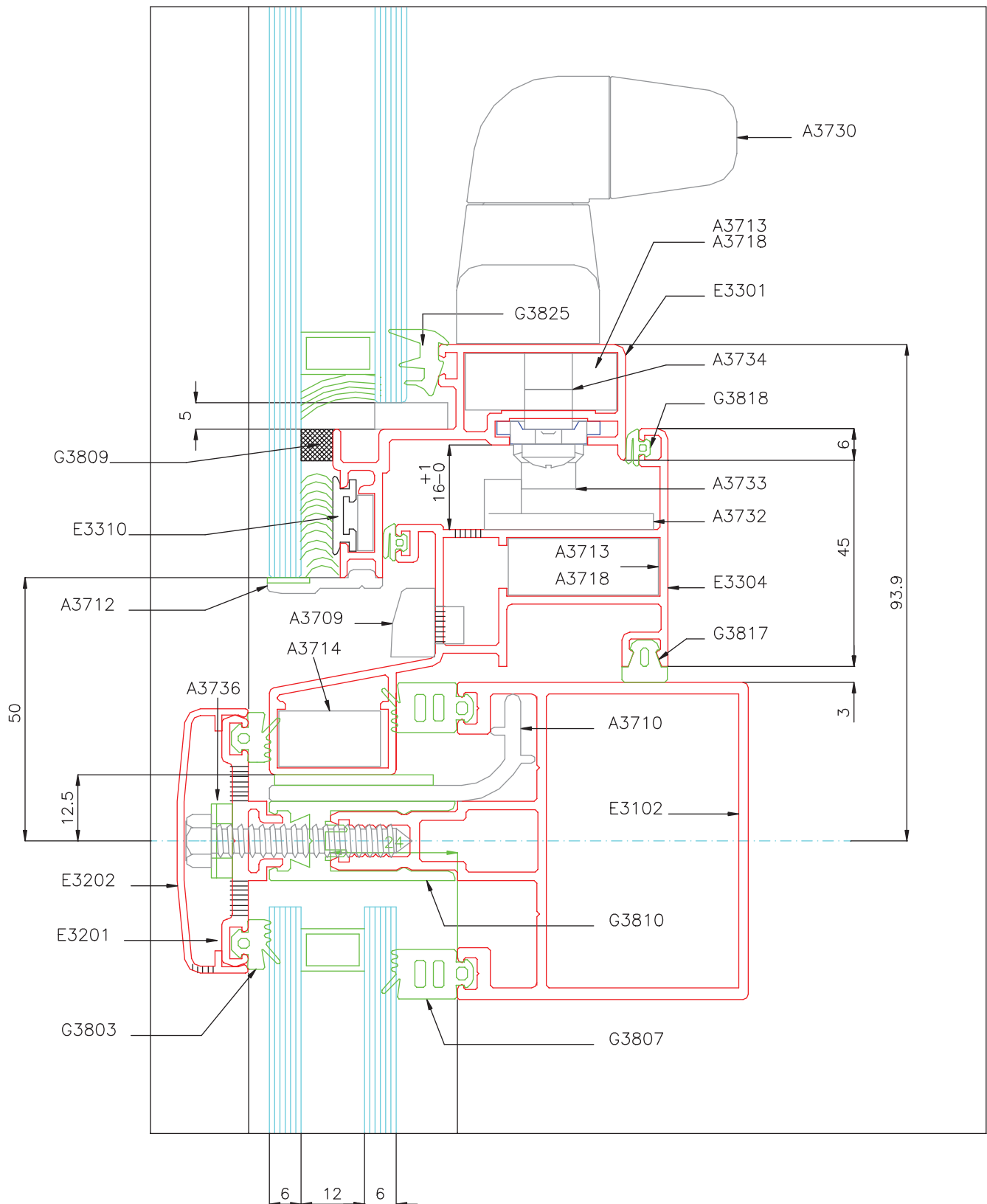
## COMMON PROFILES VERTICAL SECTION FIX PART



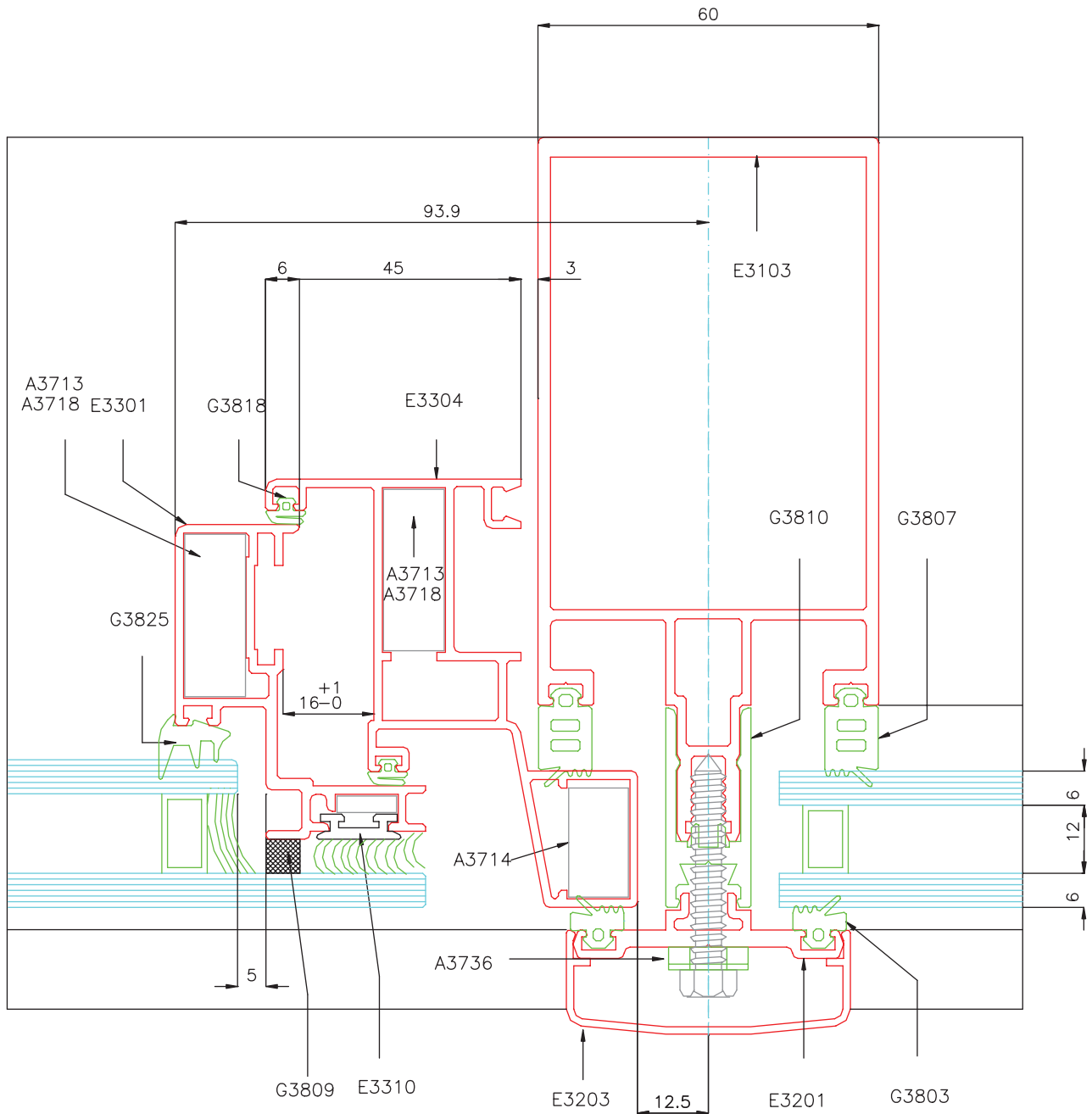
## CONVENTIONAL HORIZONTAL SECTION FIX GLASS



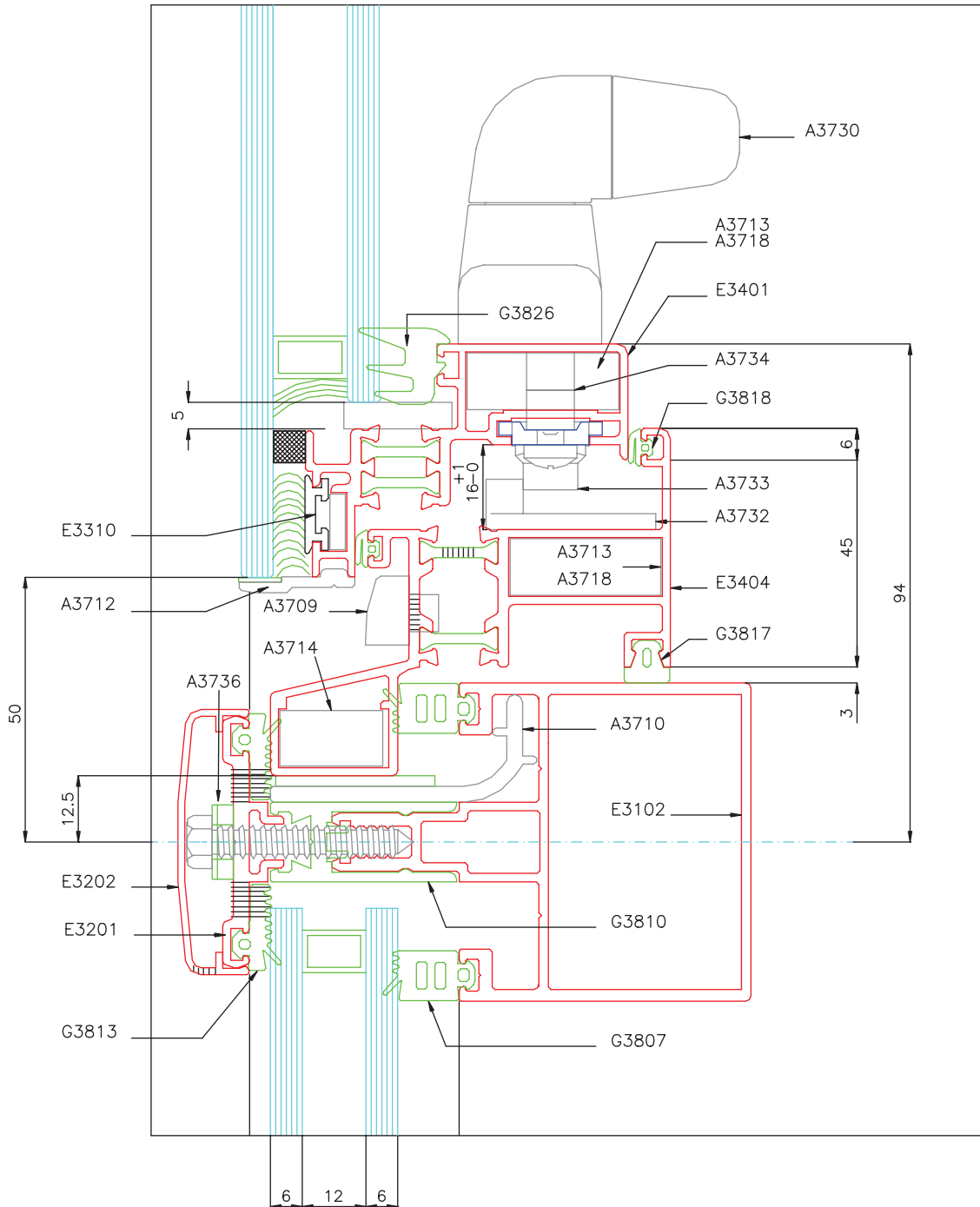
## CONVENTIONAL VERTICAL SECTION WINDOWS



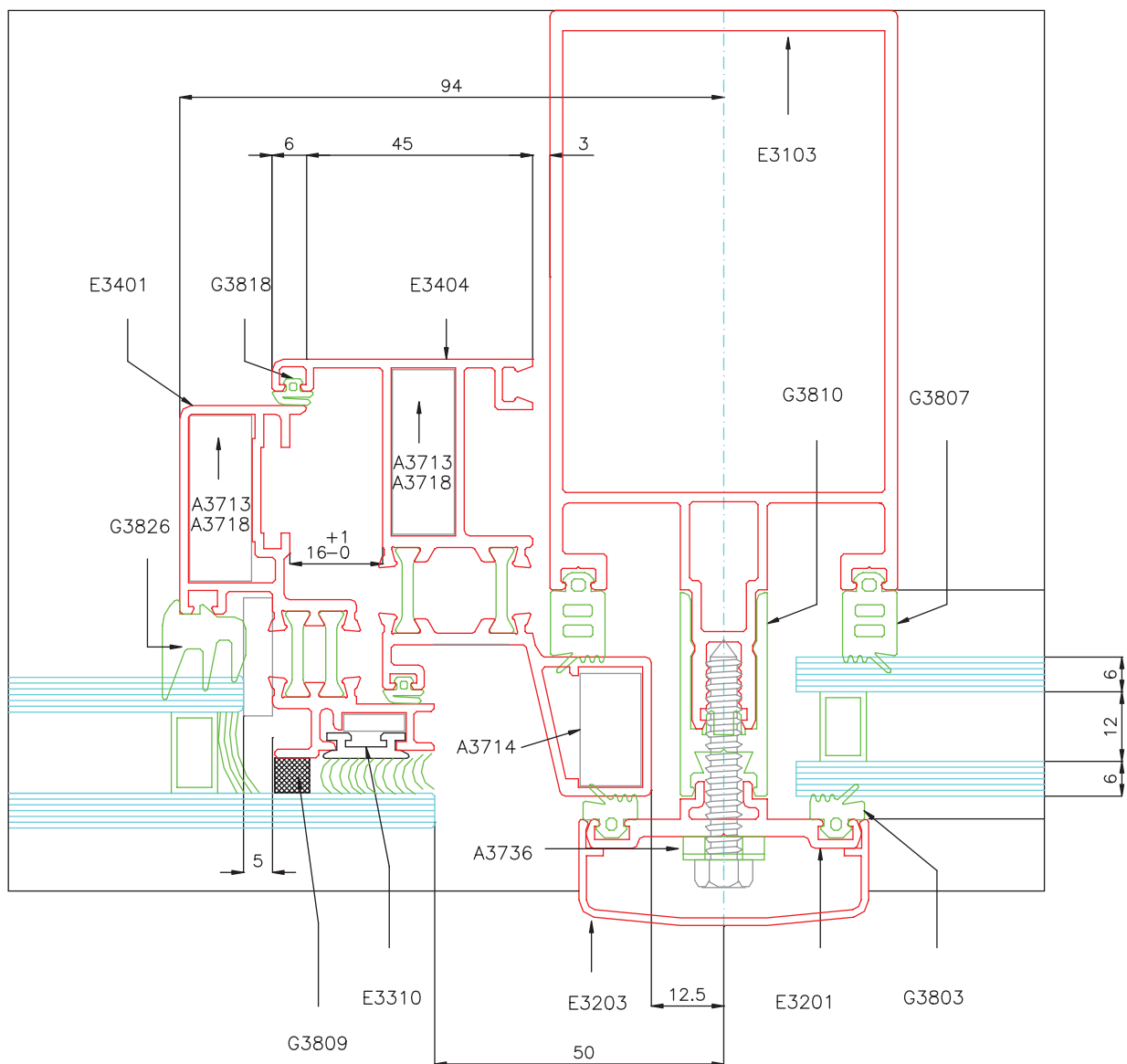
## CONVENTIONAL HORIZONTAL SECTION FIXED GLASS



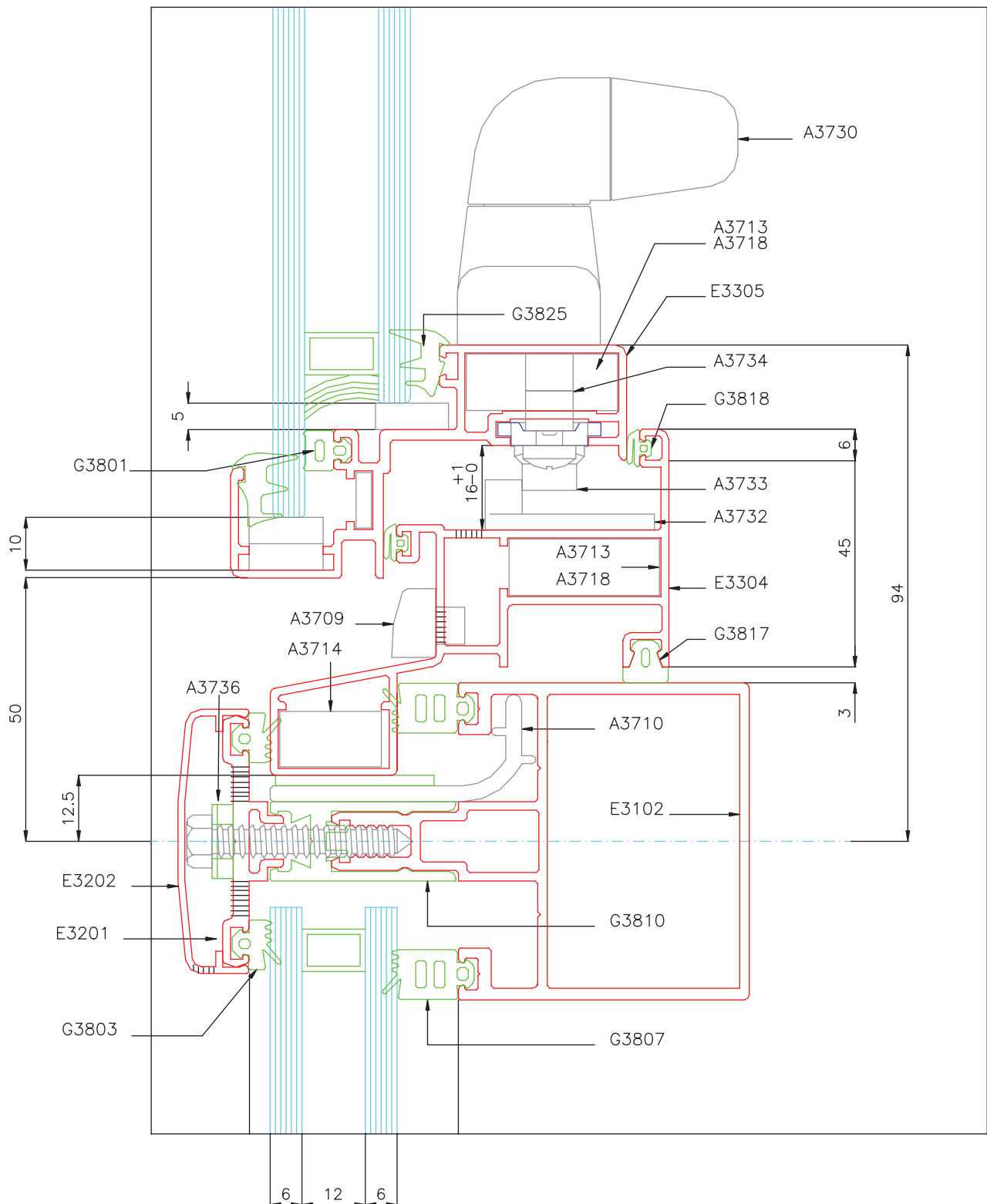
## CONVENTIONAL VERTICAL SECTION WINDOWS THERMAL BREAK



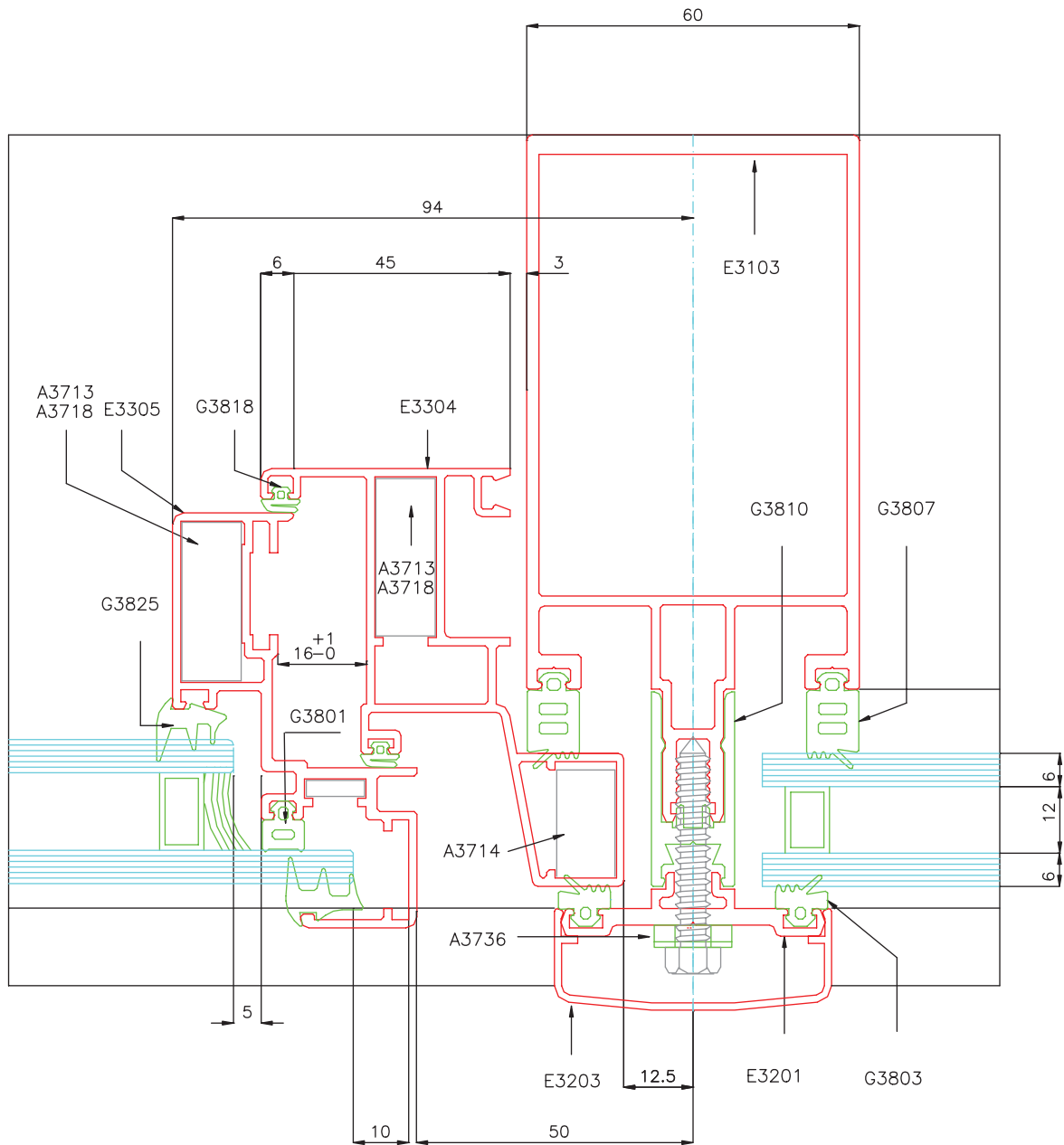
## CONVENTIONAL HORIZONTAL SECTION THERMAL BREAK



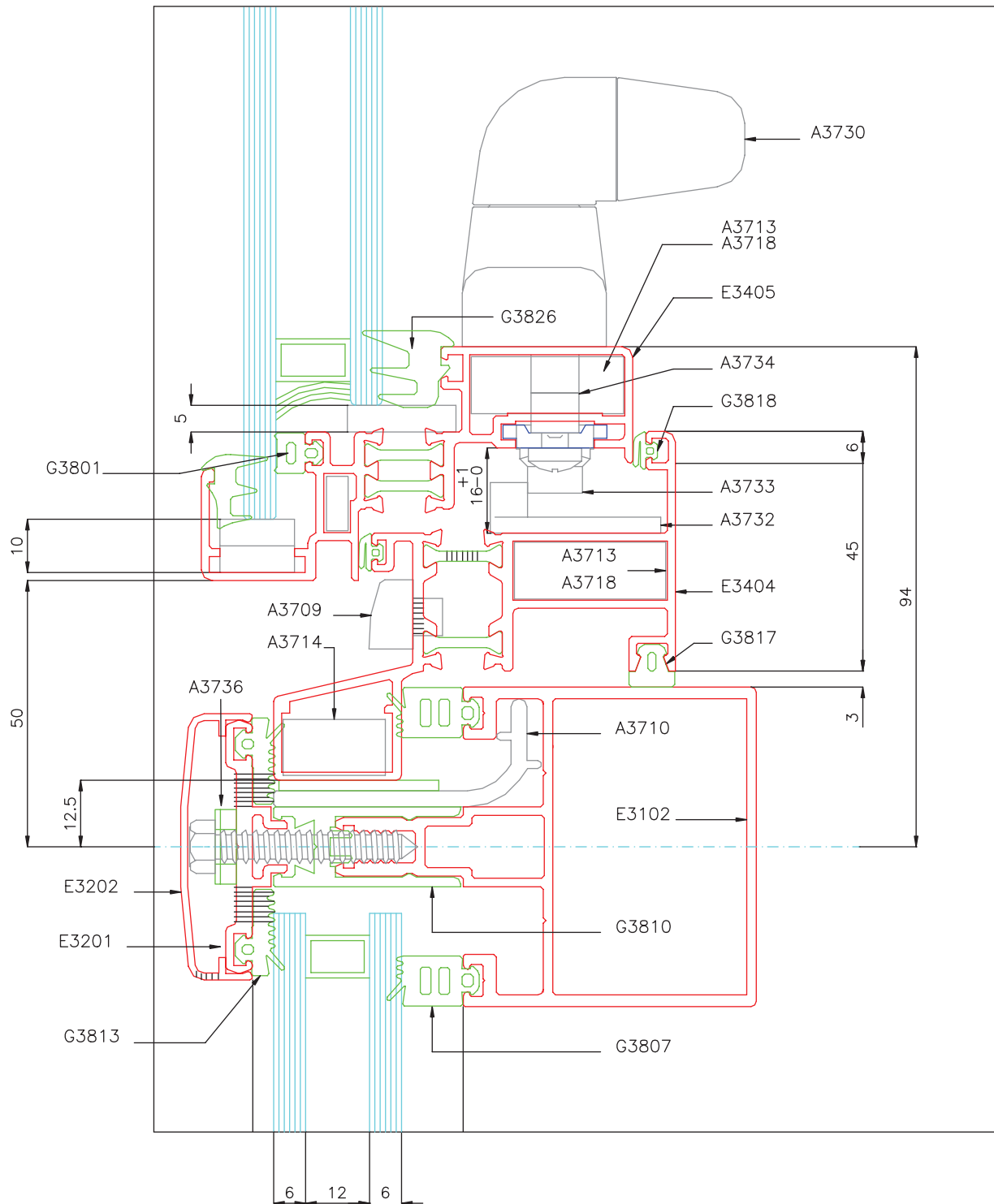
## CONVENTIONAL WITH FRAMED GLASS INSERT VERTICAL SECTION WINDOWS



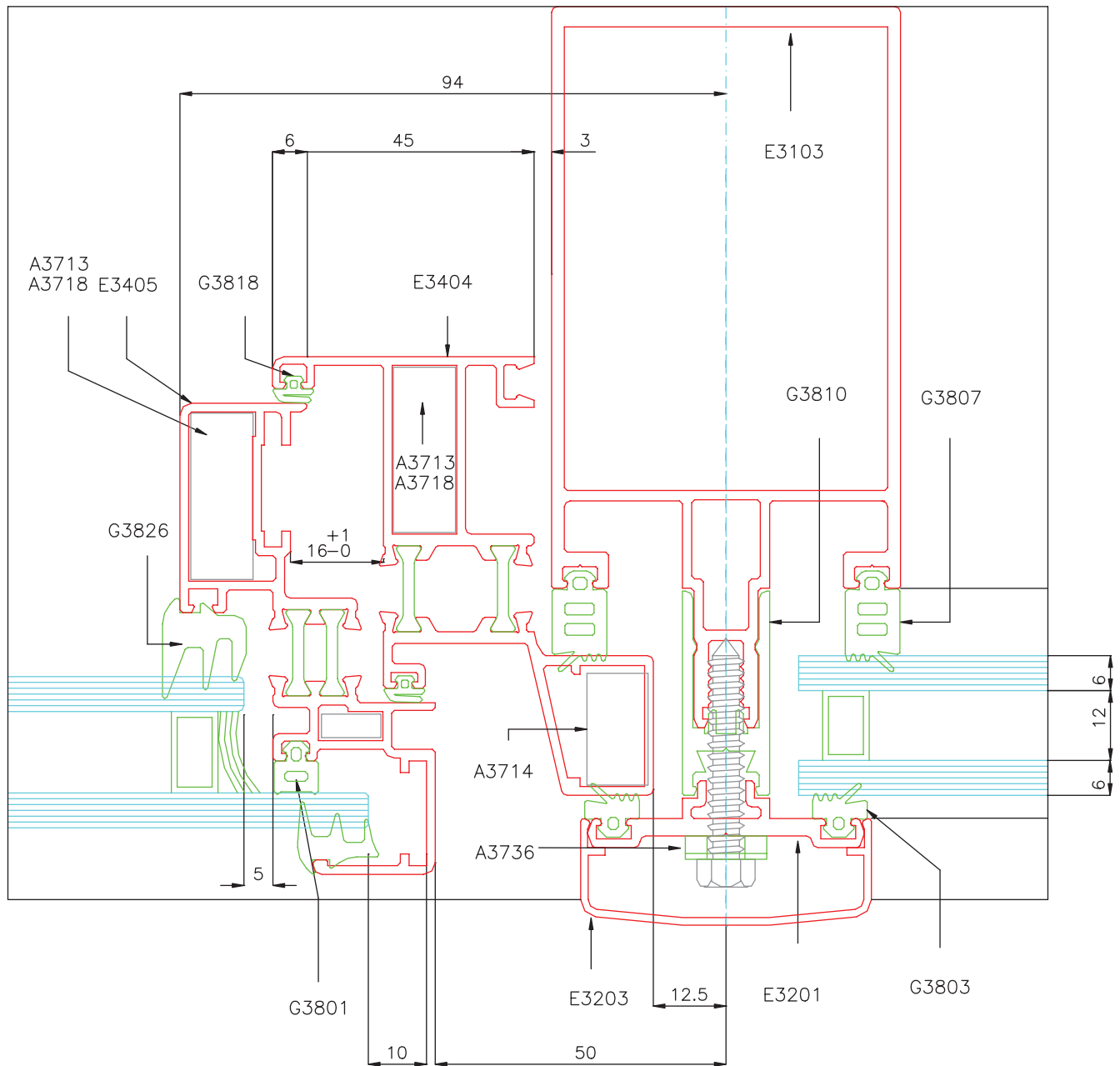
### CONVENTIONAL WITH FRAMED GLASS INSERT HORIZONTAL SECTION



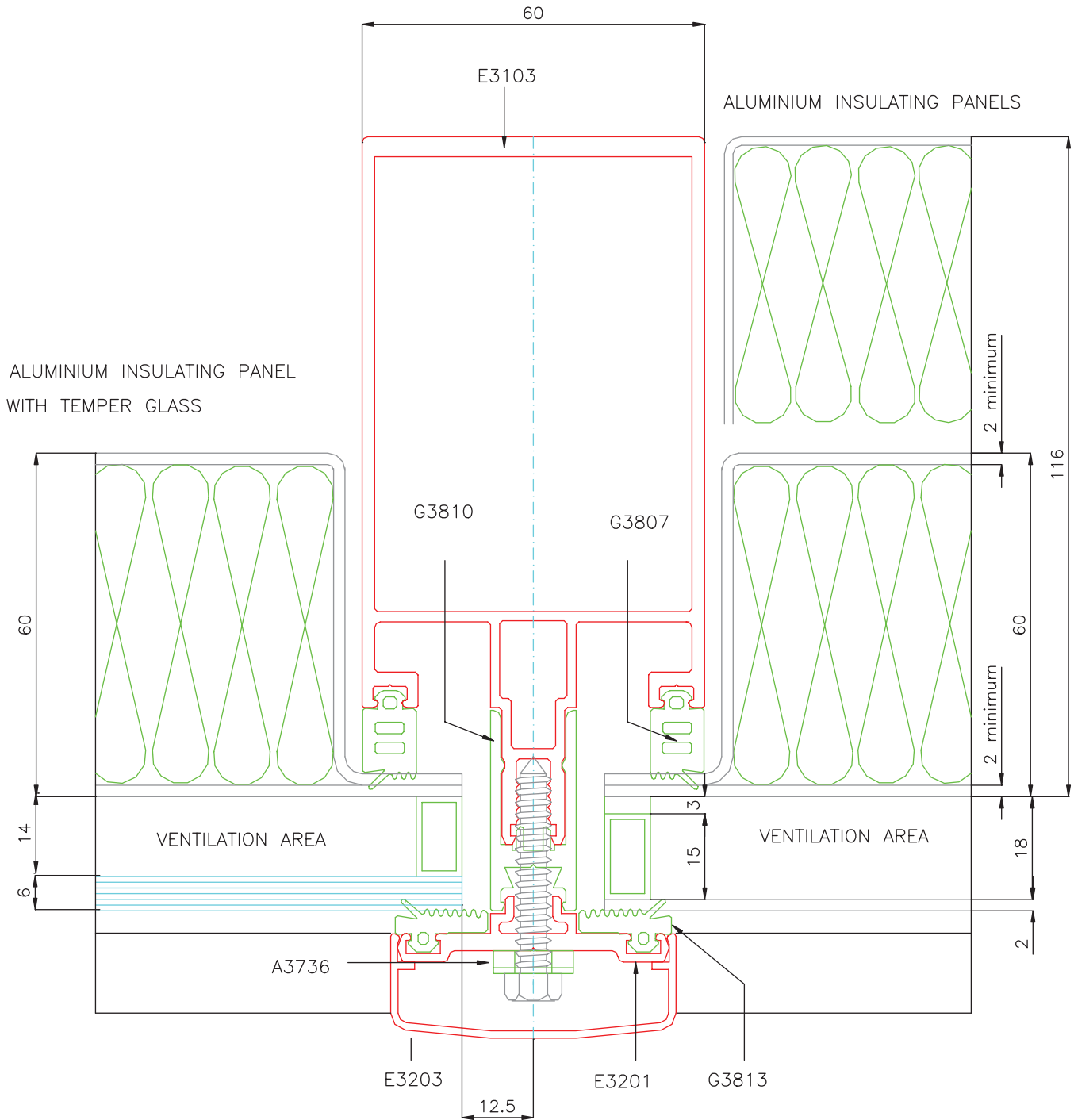
## CONVENTIONAL WITH FRAMED GLASS INSERT - THERMAL BREAK VERTICAL SECTION WINDOWS



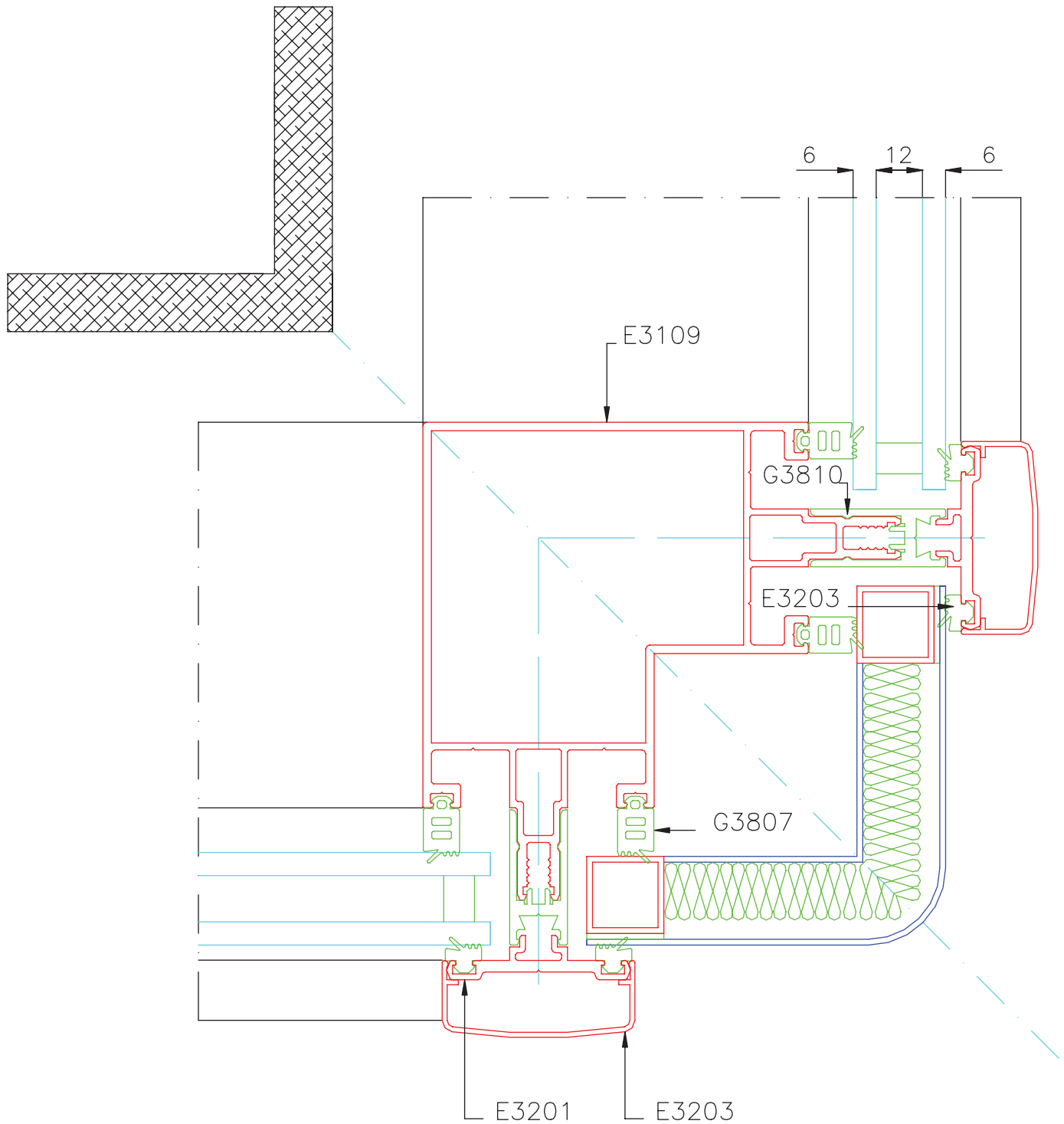
## CONVENTIONAL WITH FRAMED GLASS INSERT - THERMAL BREAK HORIZONTAL SECTION



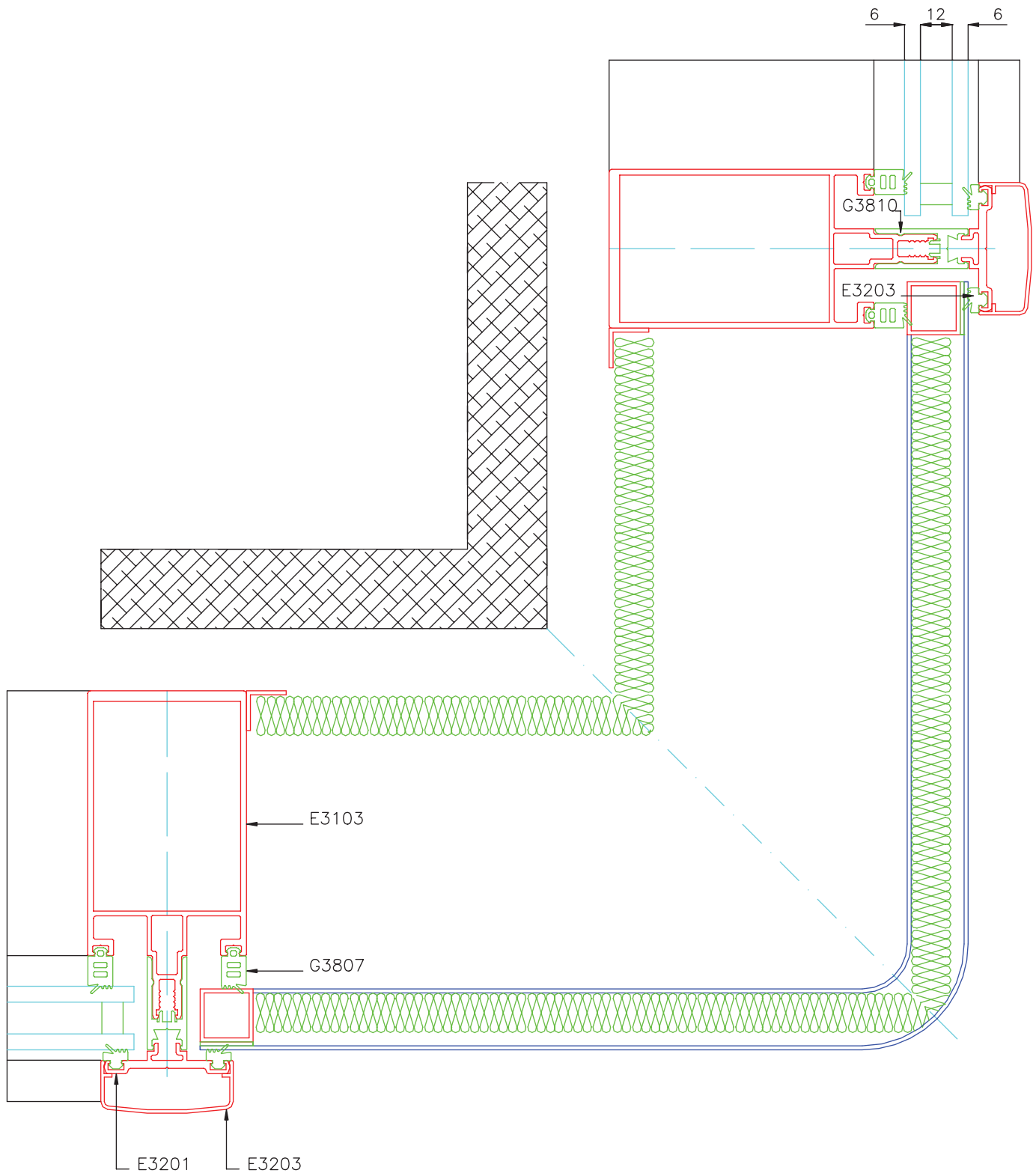
## CONVENTIONAL HORIZONTAL SECTION FIX PANEL



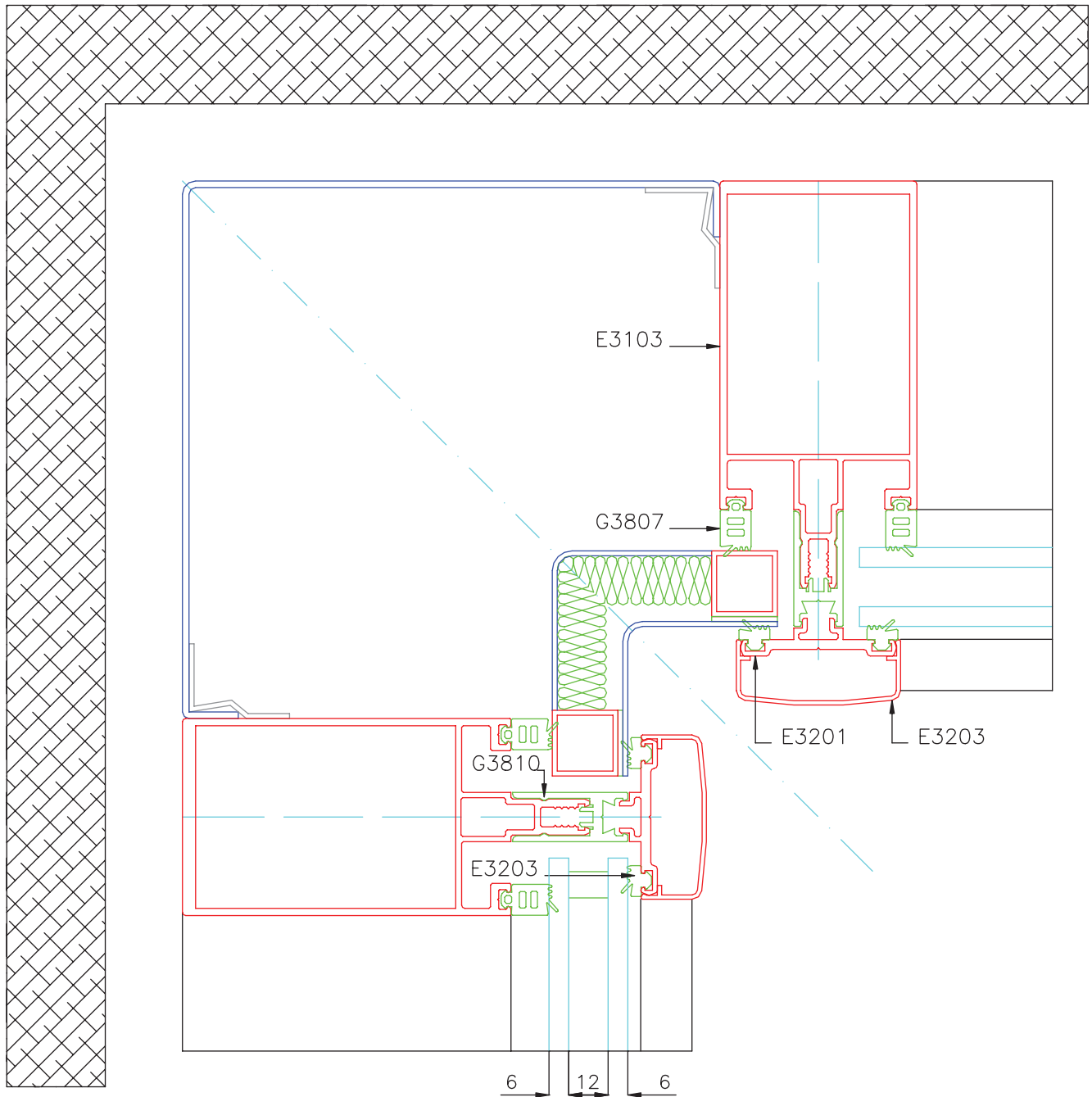
## CONVENTIONAL HORIZONTAL SECTION EXTERNAL CORNER



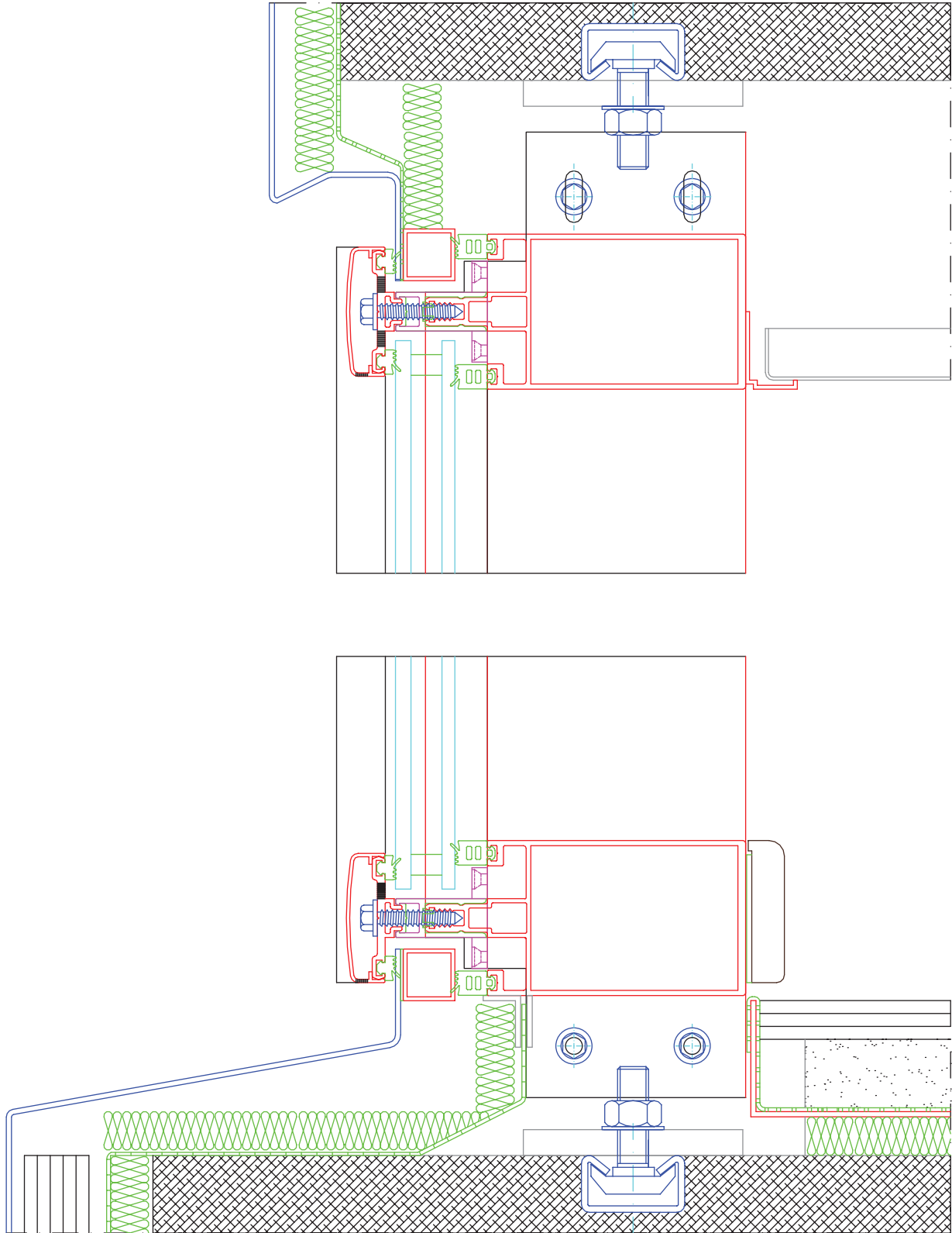
## CONVENTIONAL HORIZONTAL SECTION EXTERNAL CORNER



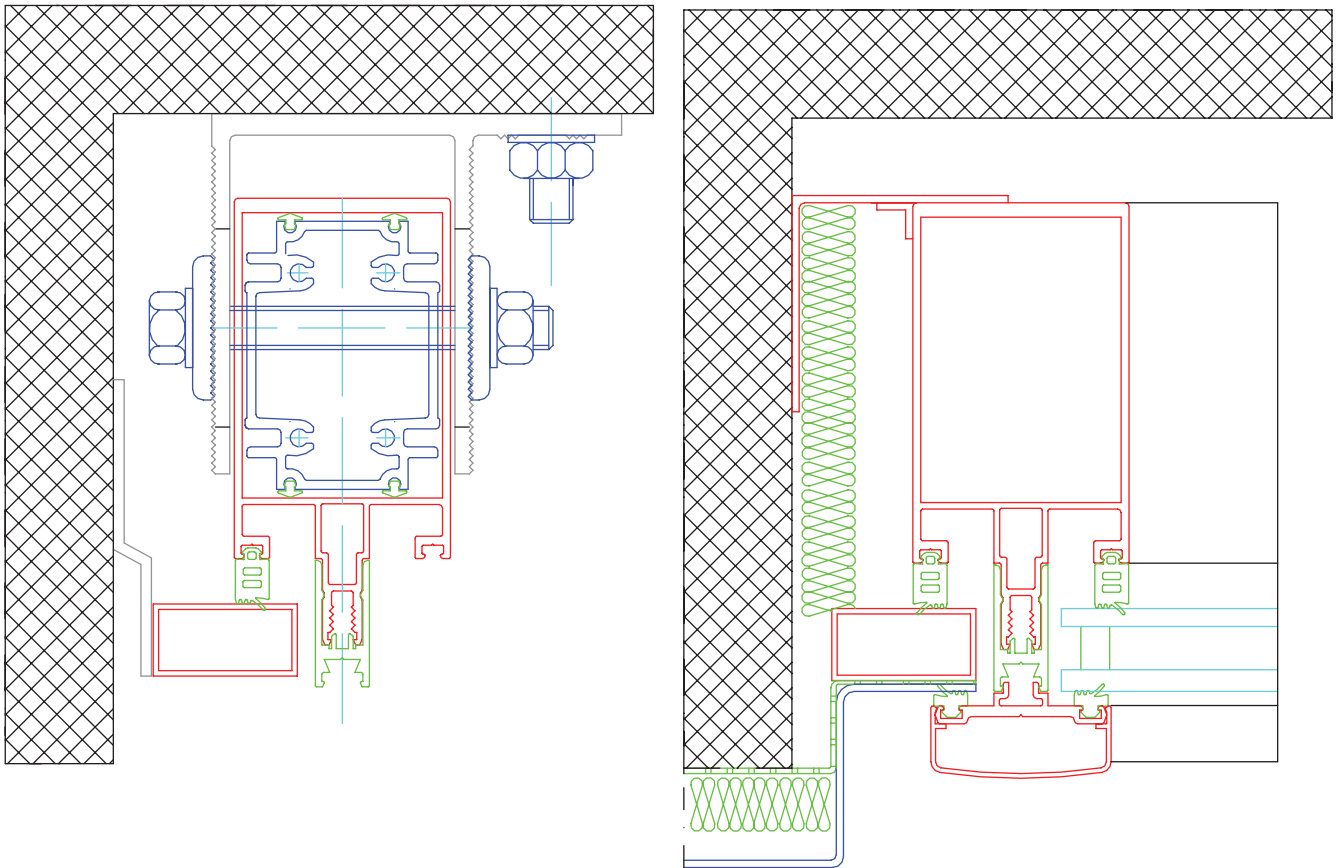
## CONVENTIONAL HORIZONTAL SECTION INTERNAL CORNER



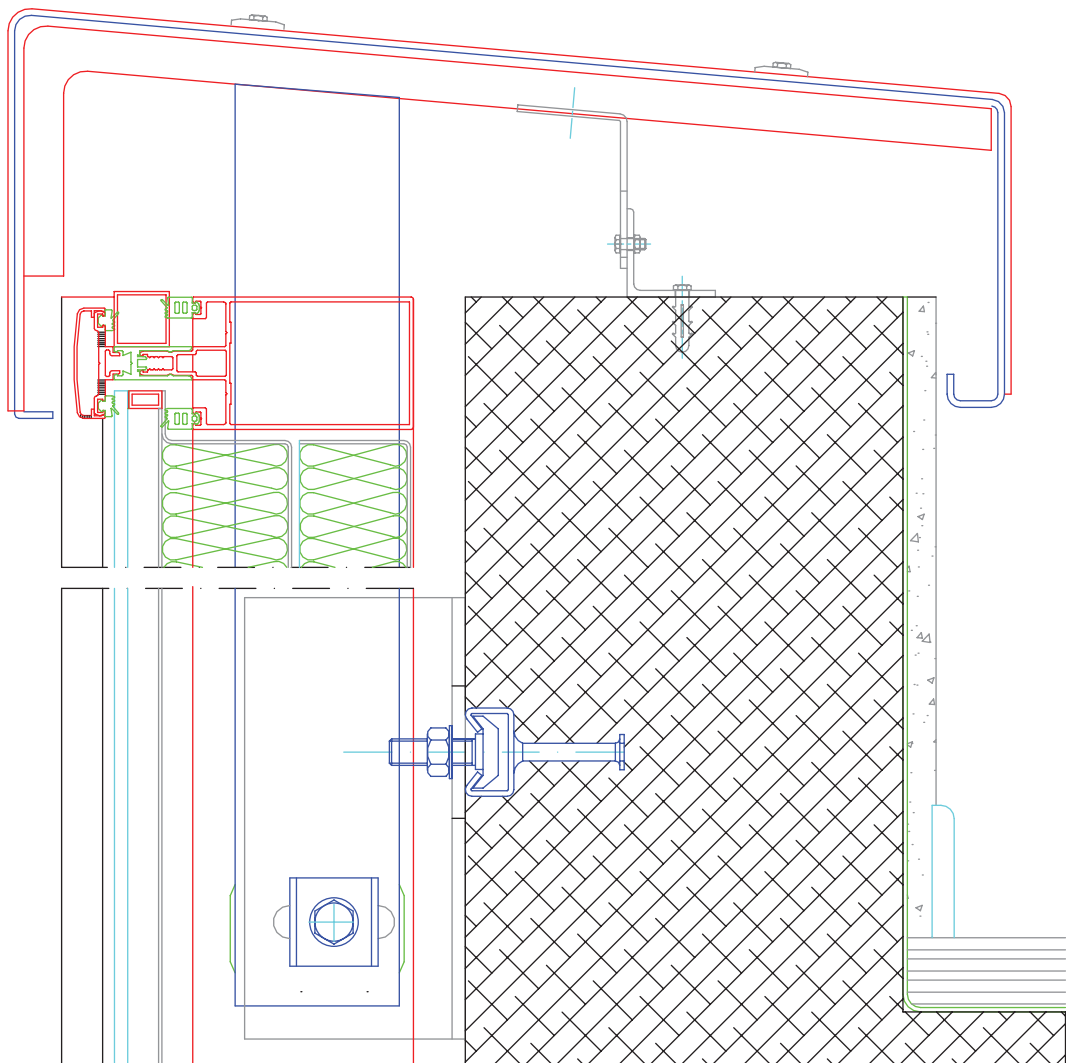
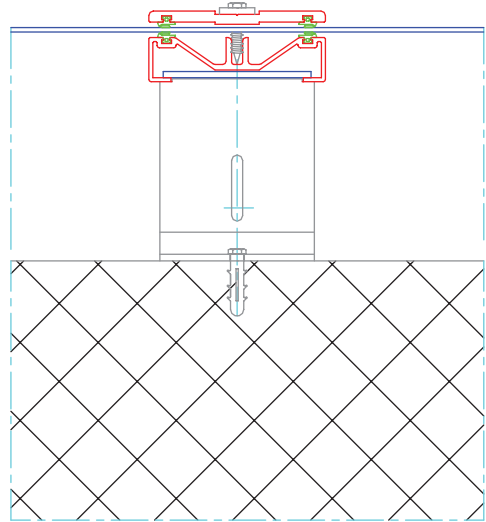
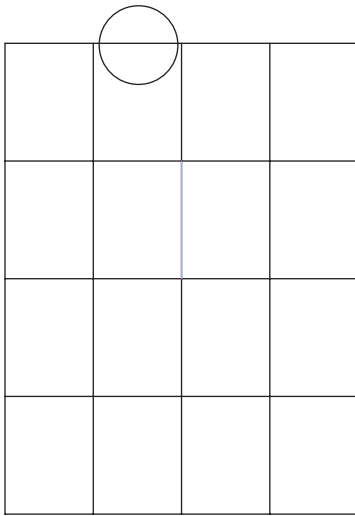
## CONVENTIONAL FIX ON WALL LOWER AND UPPER PART



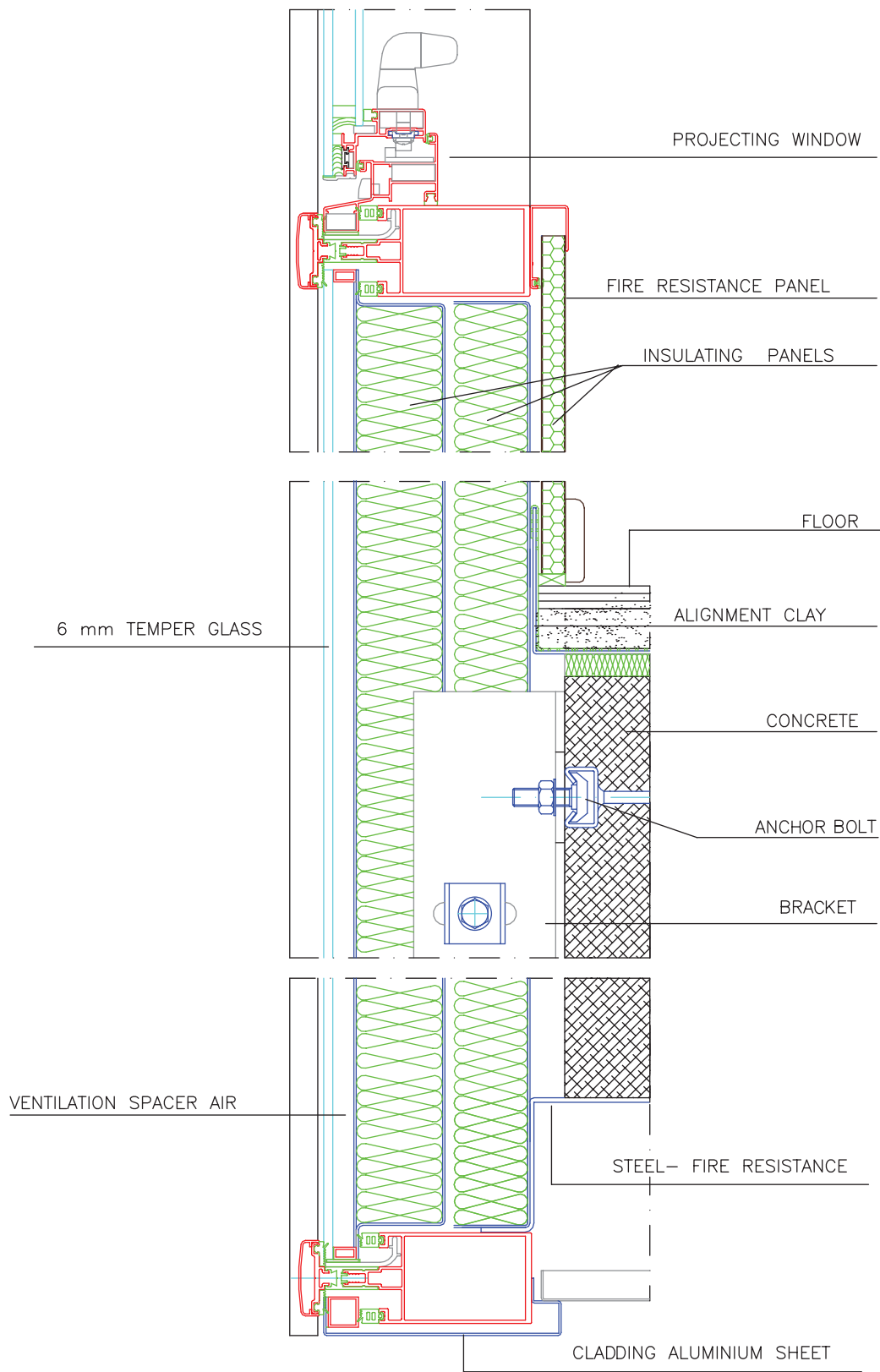
## CONVENTIONAL HORIZONTAL SECTION FIX BRACKET

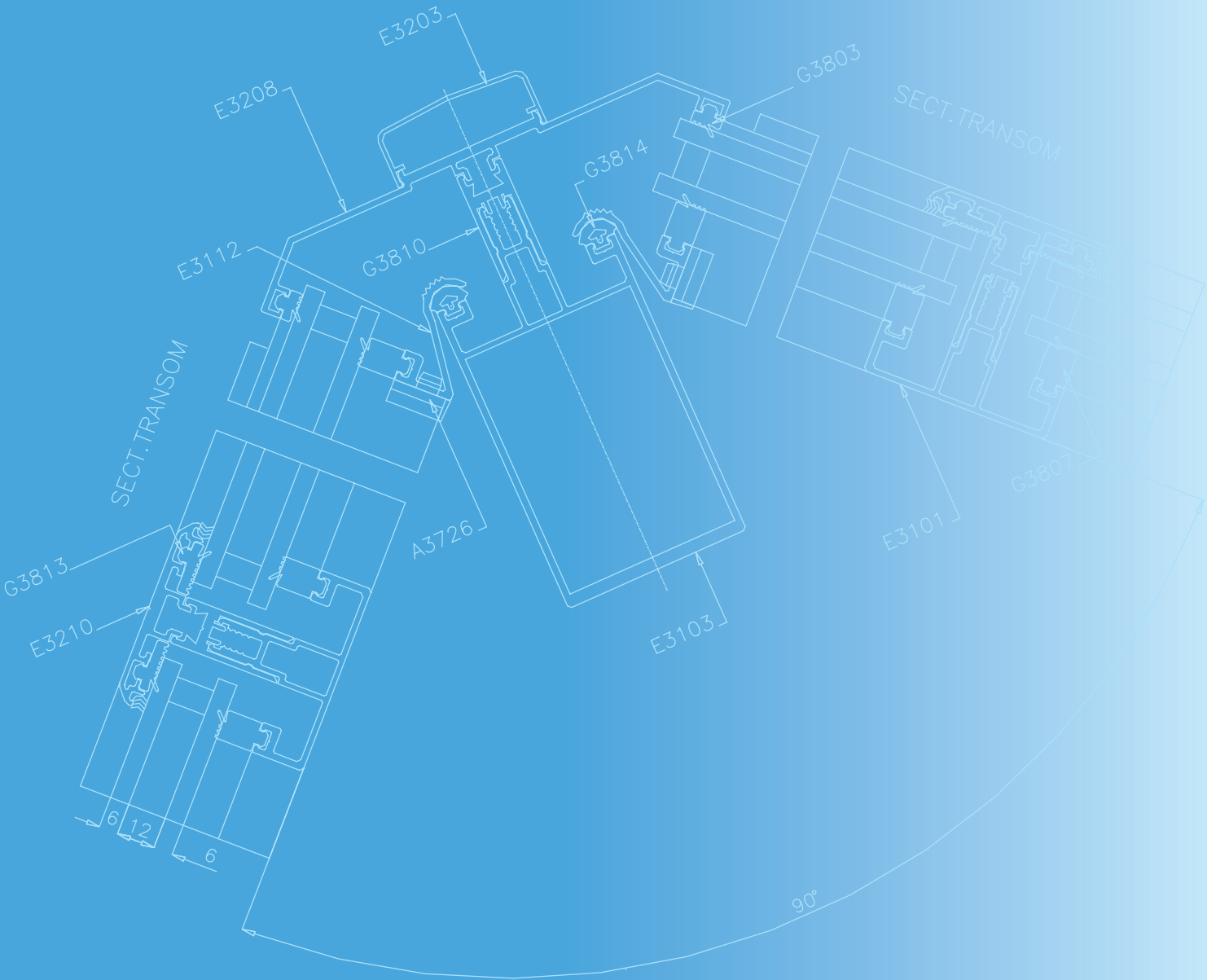


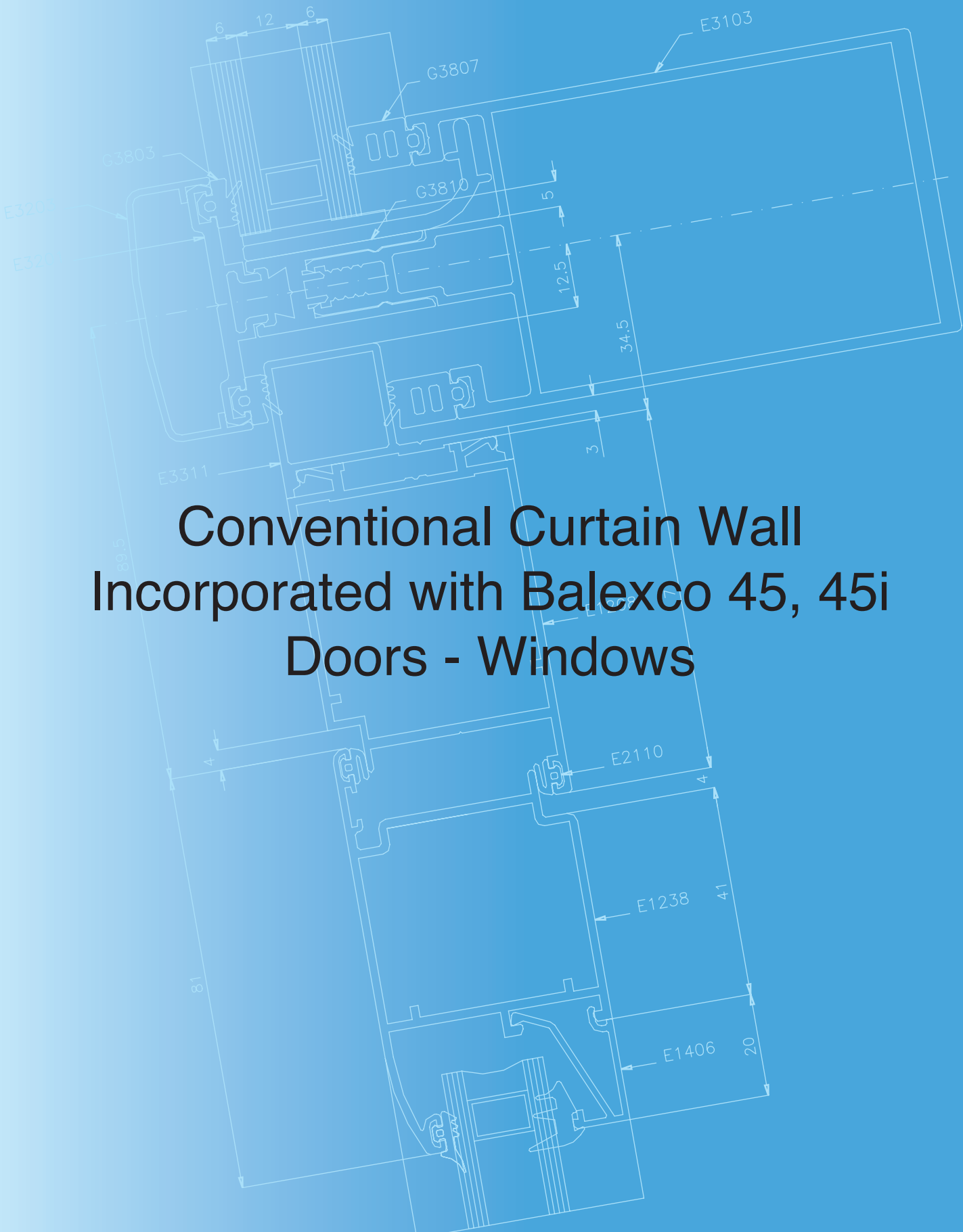
## CONVENTIONAL VERTICAL SECTION TOP ROOF



CONVENTIONAL SECTION ON SILL







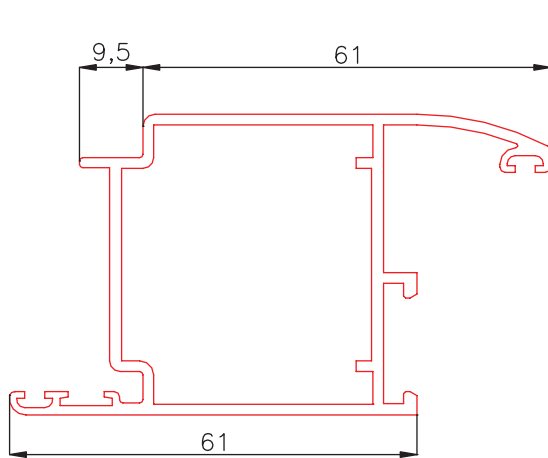
The technical drawing illustrates a cross-section of a conventional curtain wall system. It shows the integration of various components, including gaskets (G3803, G3807, G3810), structural members (E3203, E320, E3311, E3103), and seals (E2110, E1238, E1406). Dimensions are provided for different parts: 6, 12, 6, 5, 12.5, 34.5, 3, 89.5, 4, 4, 41, 20, and 81. The drawing is oriented diagonally on the page.

## Conventional Curtain Wall Incorporated with Balexco 45, 45i Doors - Windows

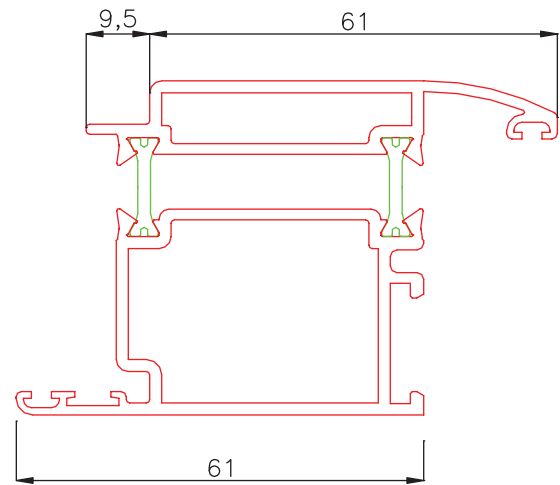


Conventional Curtain Wall  
Incorporated with Balexco 45, 45i  
Doors - Windows

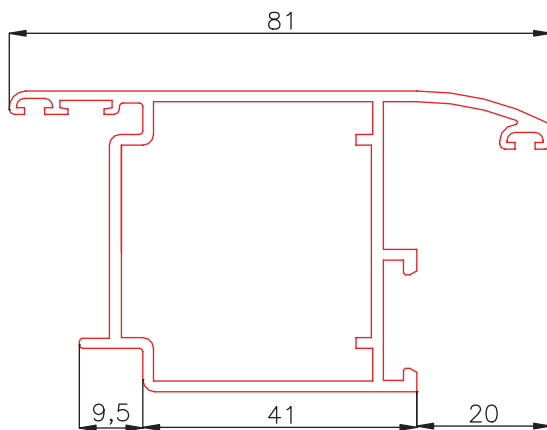
## CONVENTIONAL PROFILES FOR DOORS OPEN OUTSIDE - INSIDE



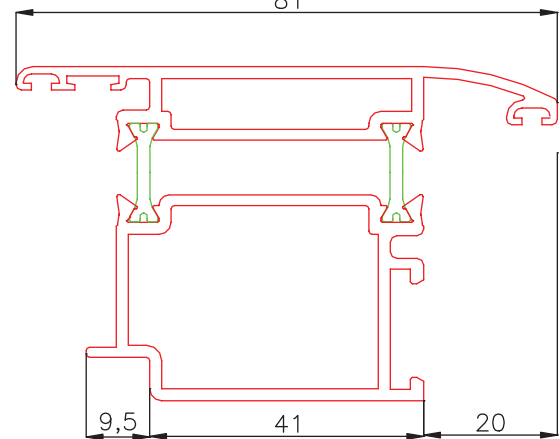
E1237  
g/m 1094



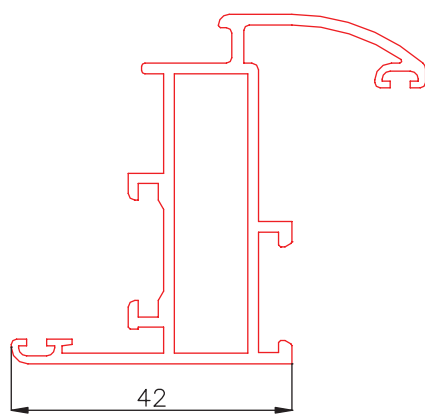
E1337  
g/m 1545



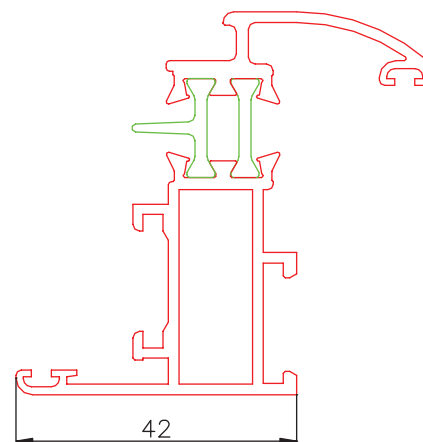
E1238  
g/m 1096



E1338  
g/m 1544

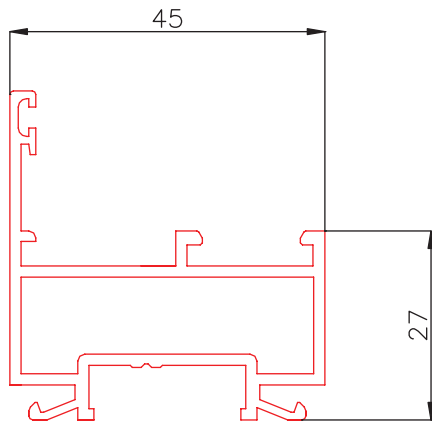


E1230  
g/m 959

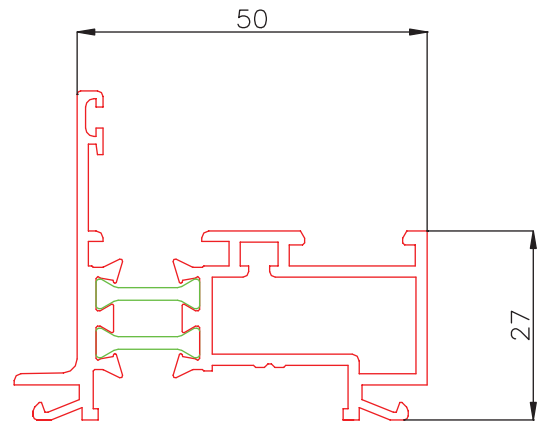


E1330  
g/m 1080

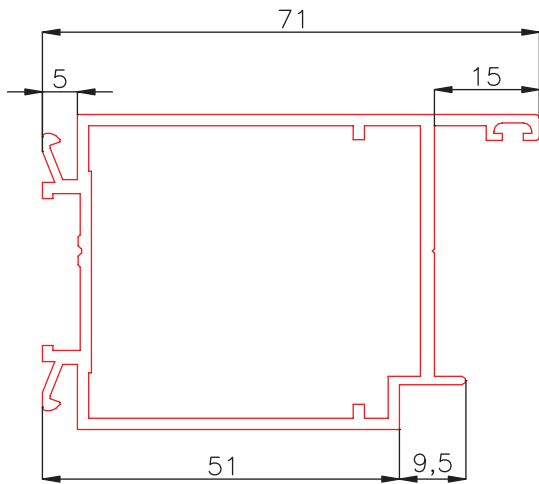
## CONVENTIONAL PROFILES FOR DOORS OPEN OUTSIDE - INSIDE



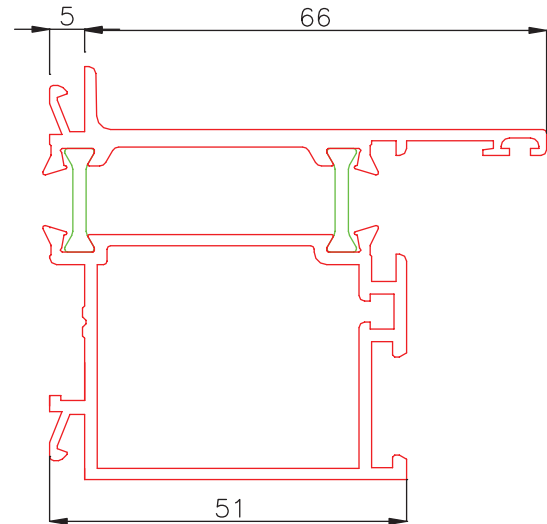
E1201  
g/m 840



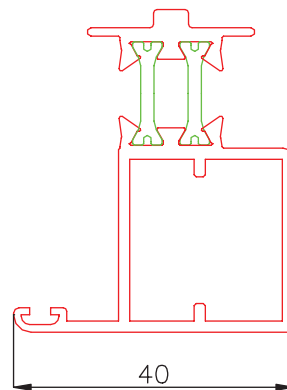
E1301  
g/m 1050



E1208  
g/m 1064

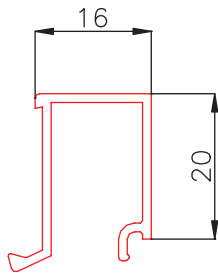


E1309  
g/m 1494

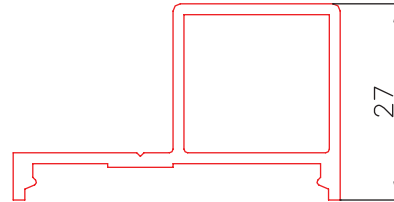


E1343  
g/m 804

## CONVENTIONAL PROFILE FOR DOOR OPEN OUTSIDE - INSIDE



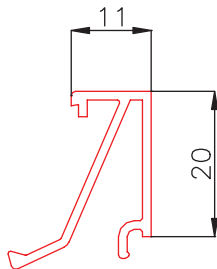
E1405  
g/m 224



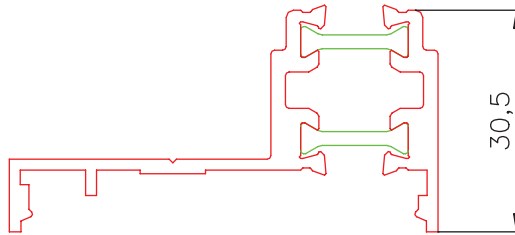
E3311  
g/m 559



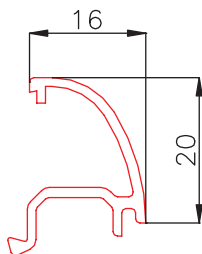
E1401  
g/m 148



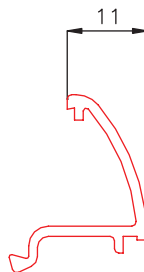
E1406  
g/m 227



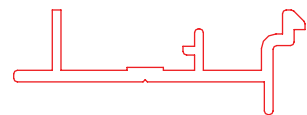
E3411  
g/m 799



E1412  
g/m 213

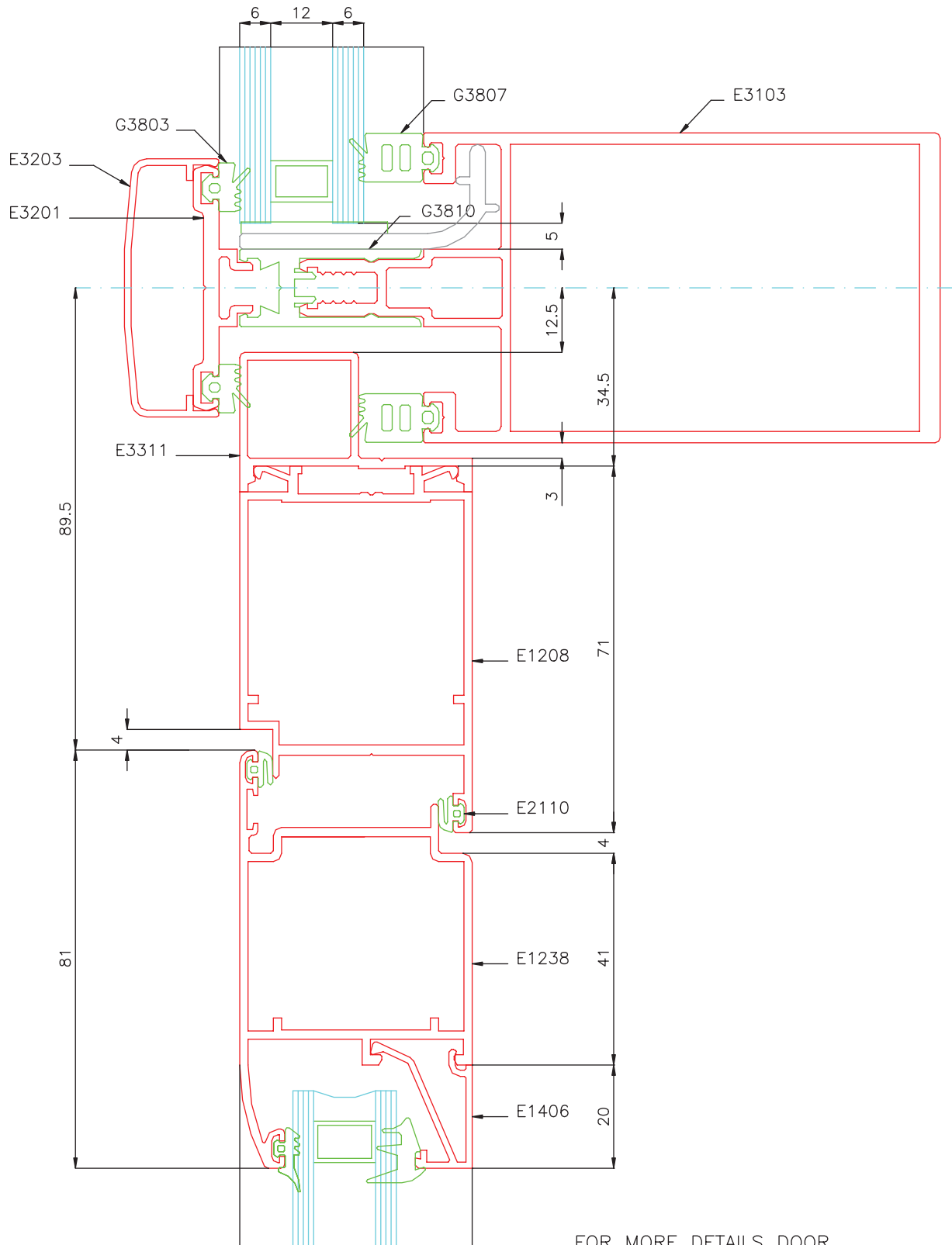


E1413  
g/m 183



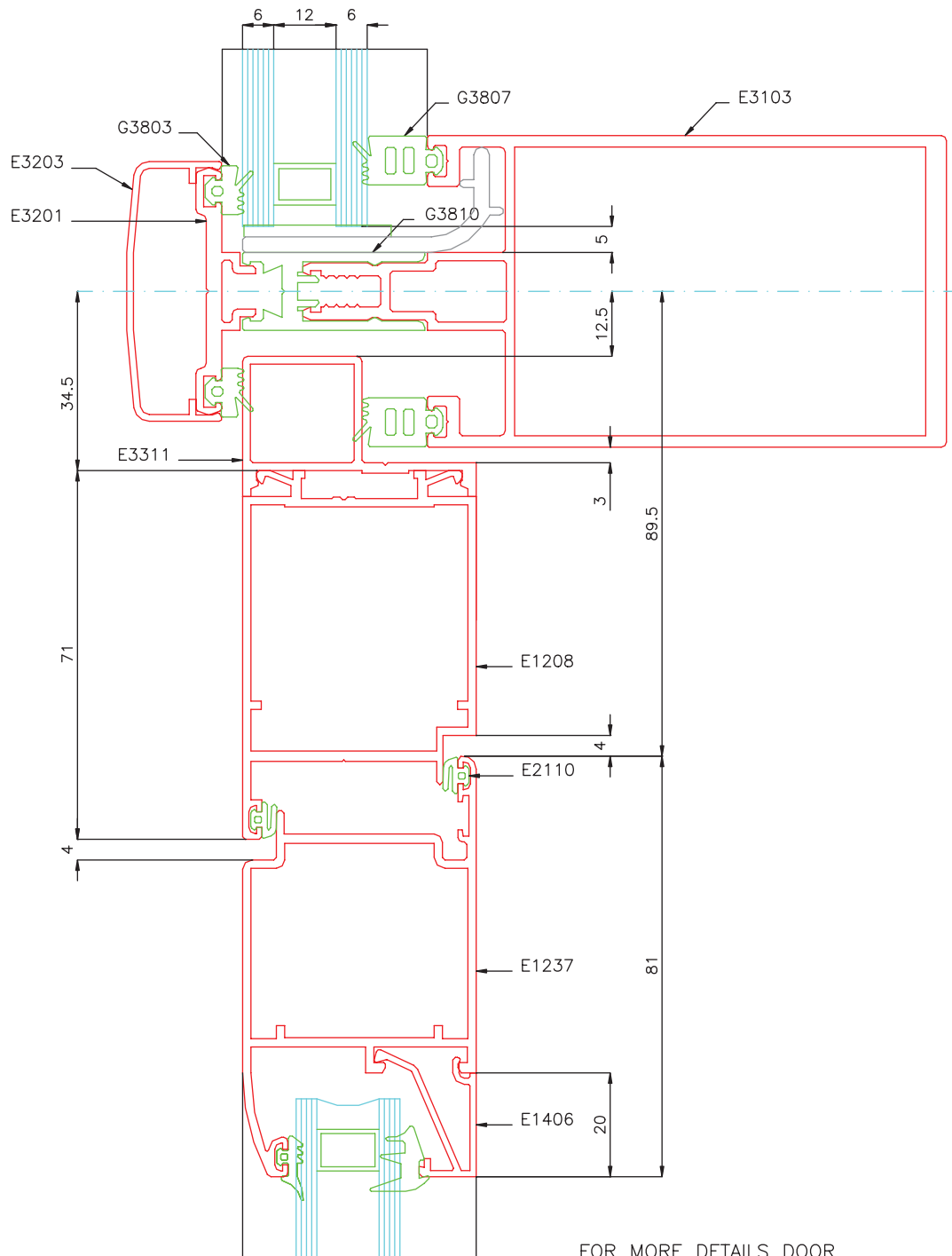
E1402  
g/m 275

## CONVENTIONAL DOOR OPEN OUTSIDE



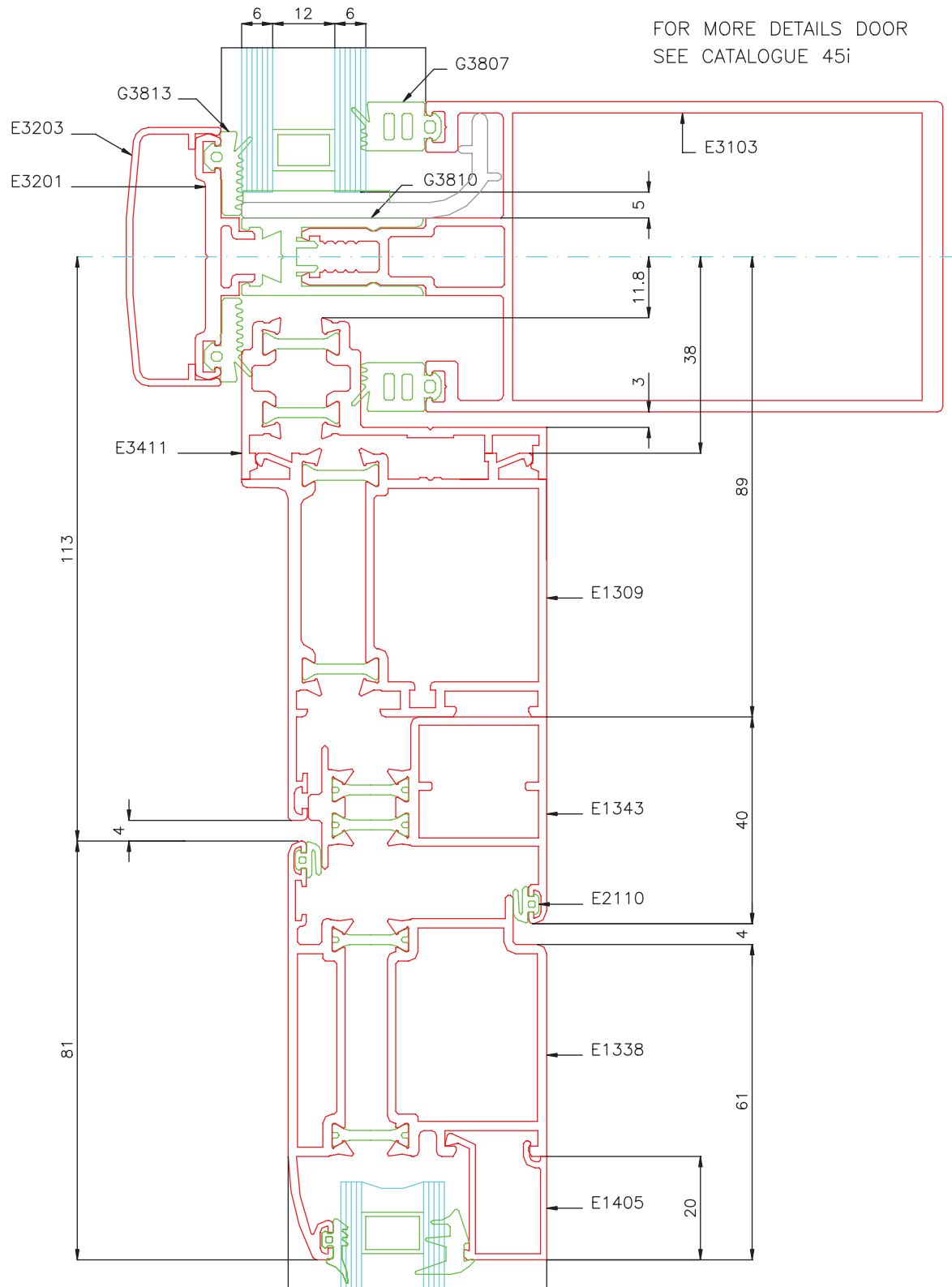
FOR MORE DETAILS DOOR  
SEE CATALOGUE 45

## CONVENTIONAL DOOR OPEN INSIDE

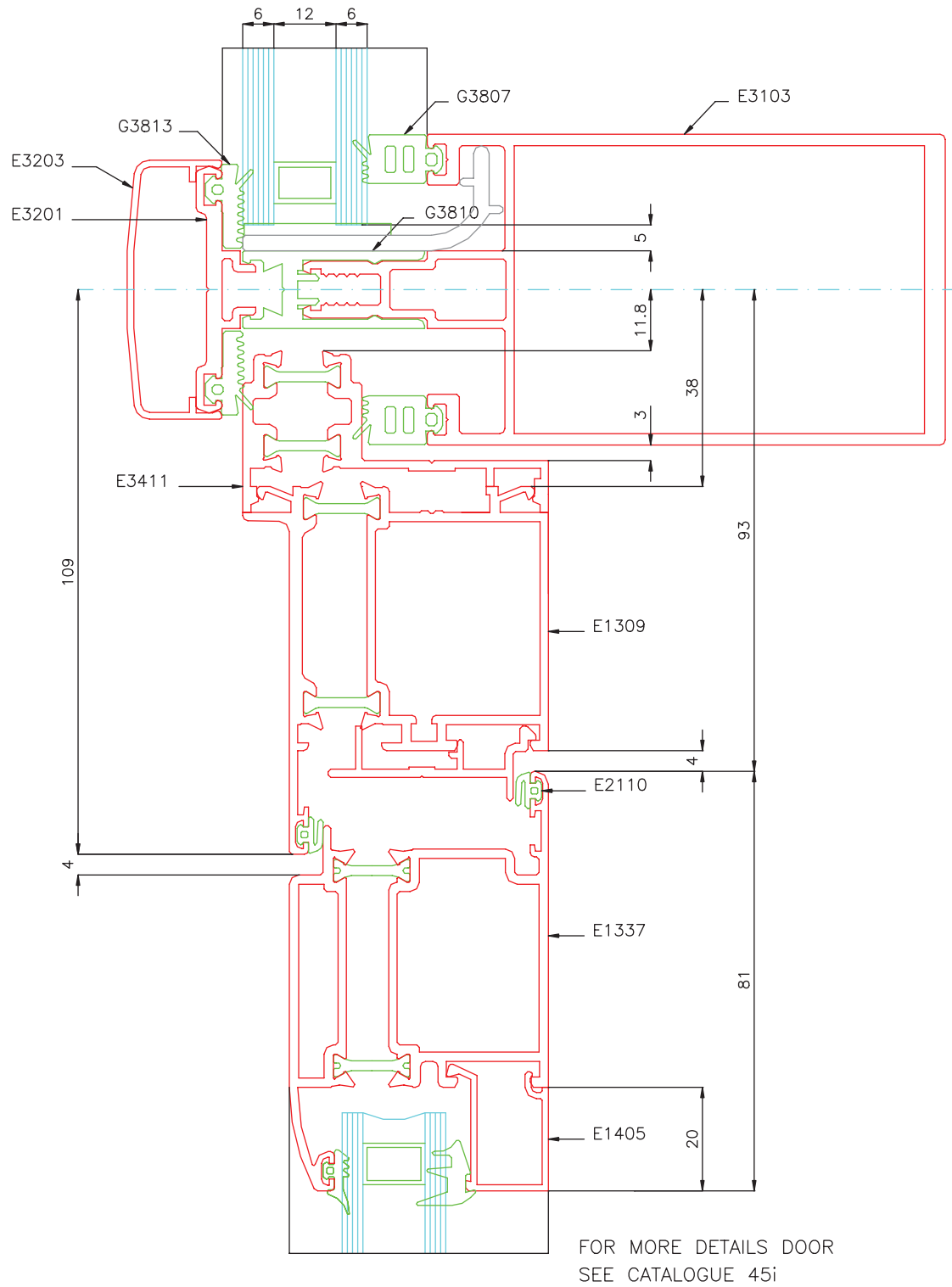


FOR MORE DETAILS DOOR  
SEE CATALOGUE 45

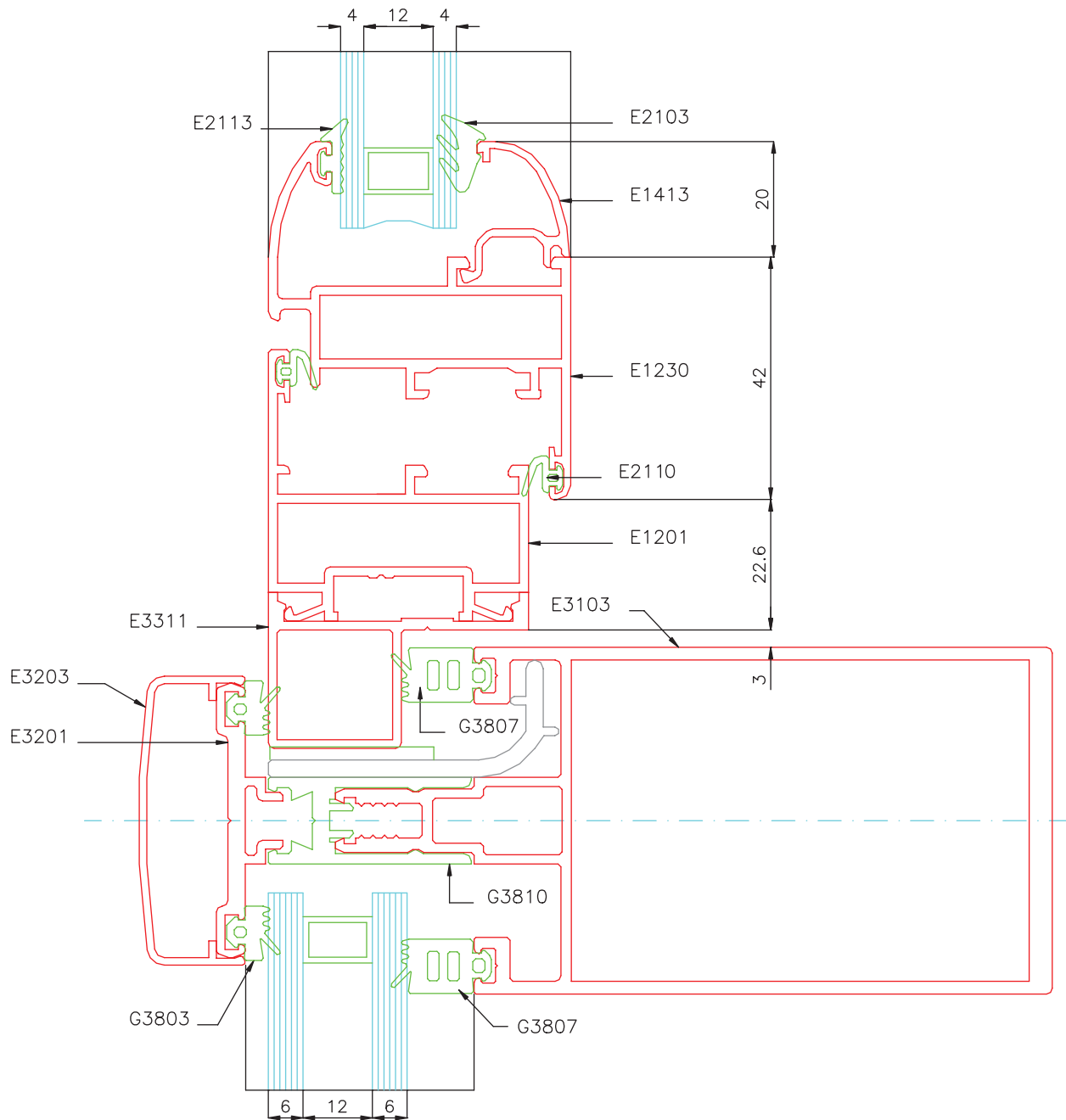
CONVENTIONAL  
DOOR OPEN OUTSIDE THERMAL BREAK



## CONVENTIONAL DOOR OPEN INSIDE THERMAL BREAK

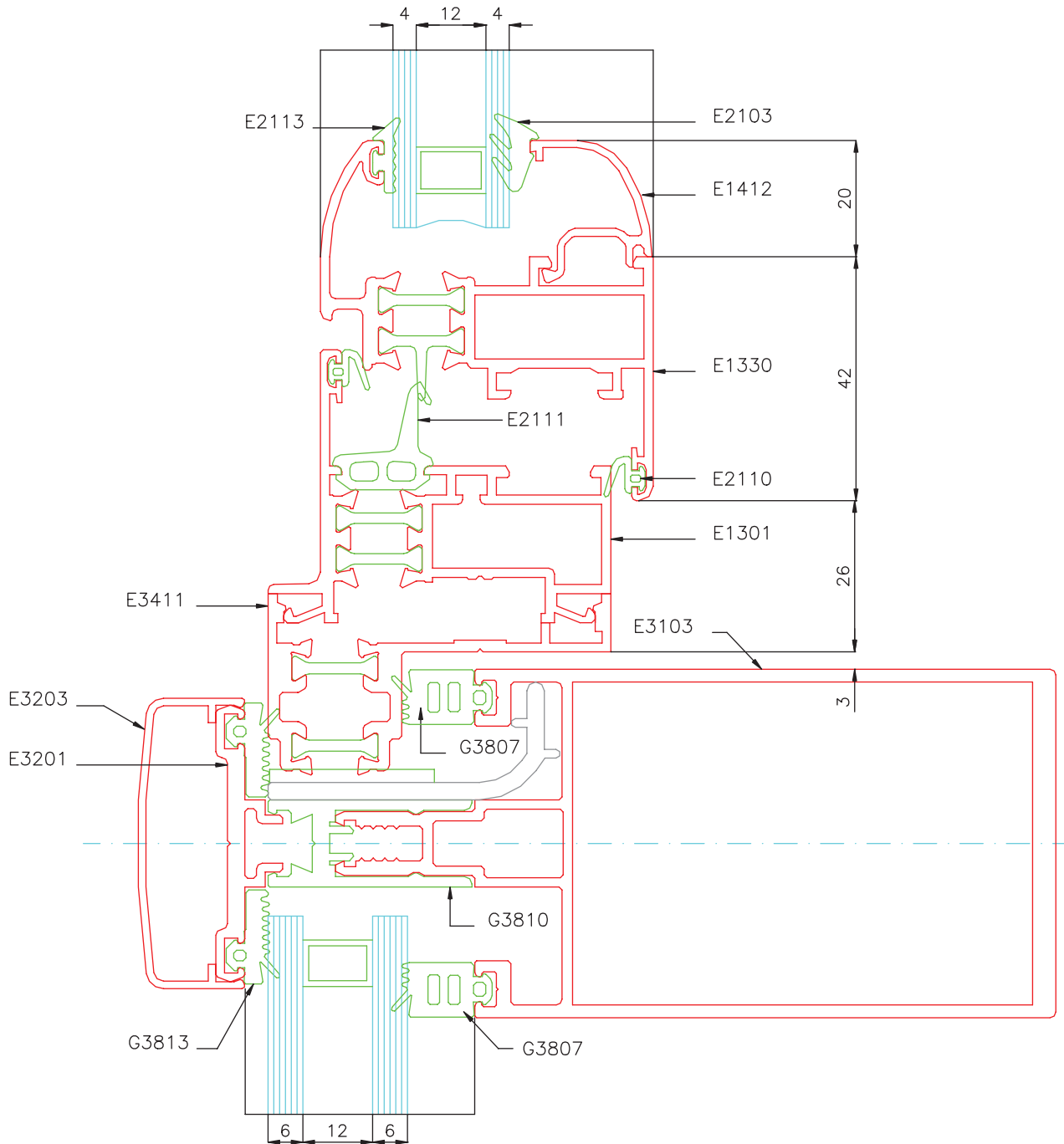


## WINDOWS OPEN INSIDE



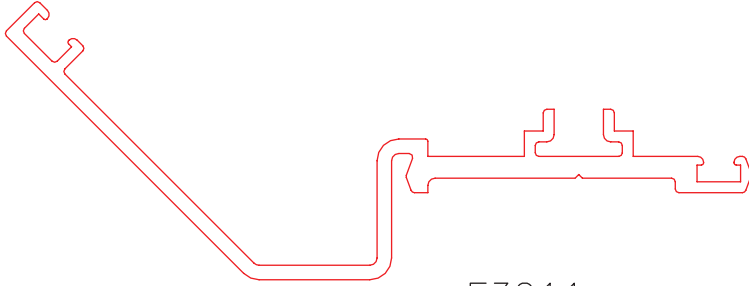
FOR MORE DETAILS DOOR  
SEE CATALOGUE 45

## WINDOWS OPEN INSIDE THERMAL BREAK

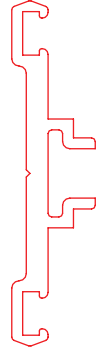


FOR MORE DETAILS DOOR  
SEE CATALOGUE 45i

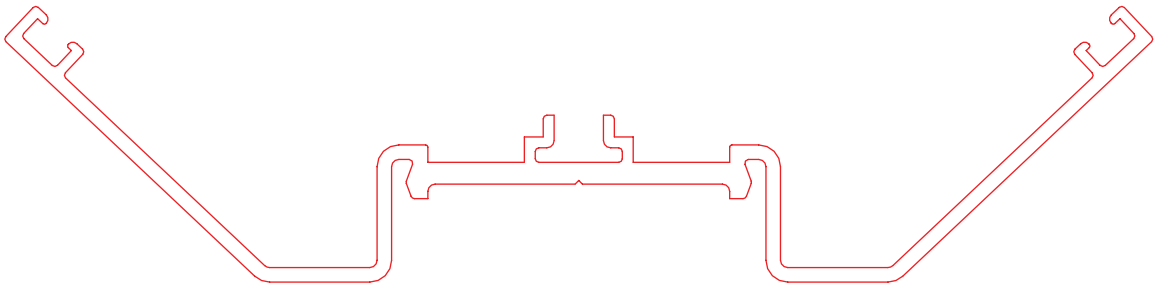
## CONVENTIONAL PROFILES FOR INCLINED CORNER



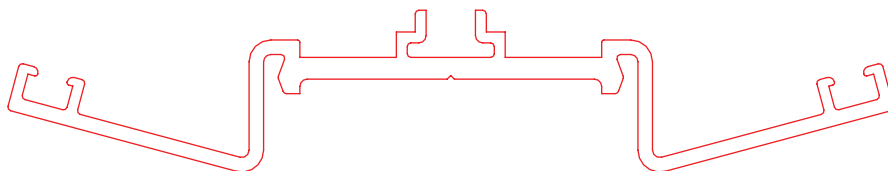
E3211  
g/m 983



E3201  
g/m 440

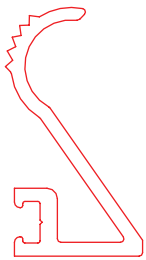


E3212  
g/m 1499

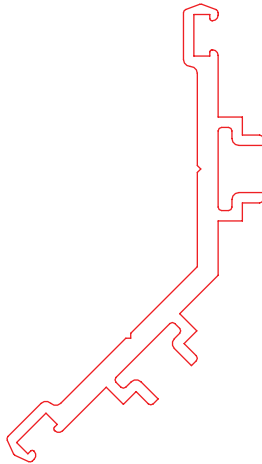


E3213  
g/m 1172

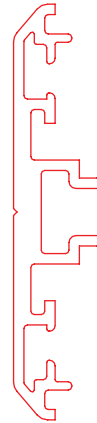
## CONVENTIONAL PROFILES FOR INCLINED CORNER



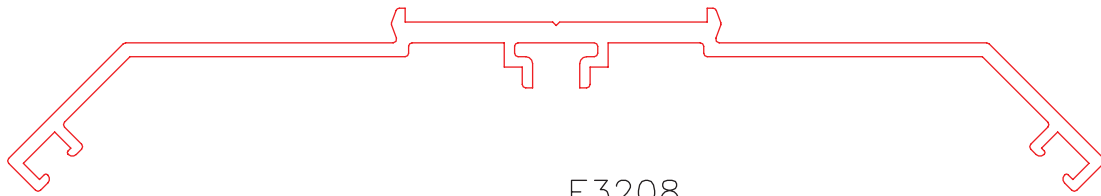
E3112  
g/m 421



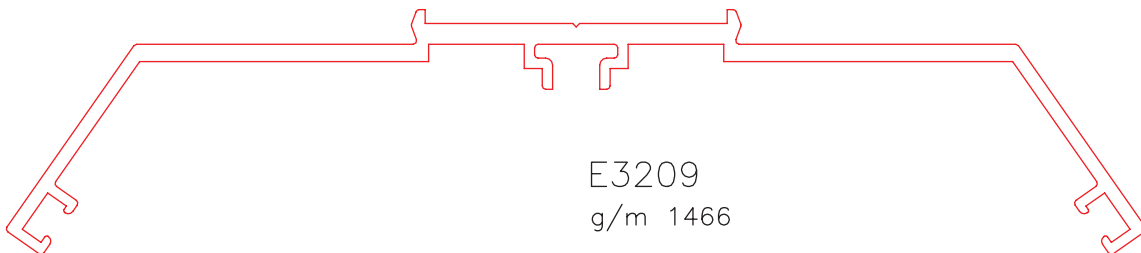
E3207  
g/m 751



E3210  
g/m 621

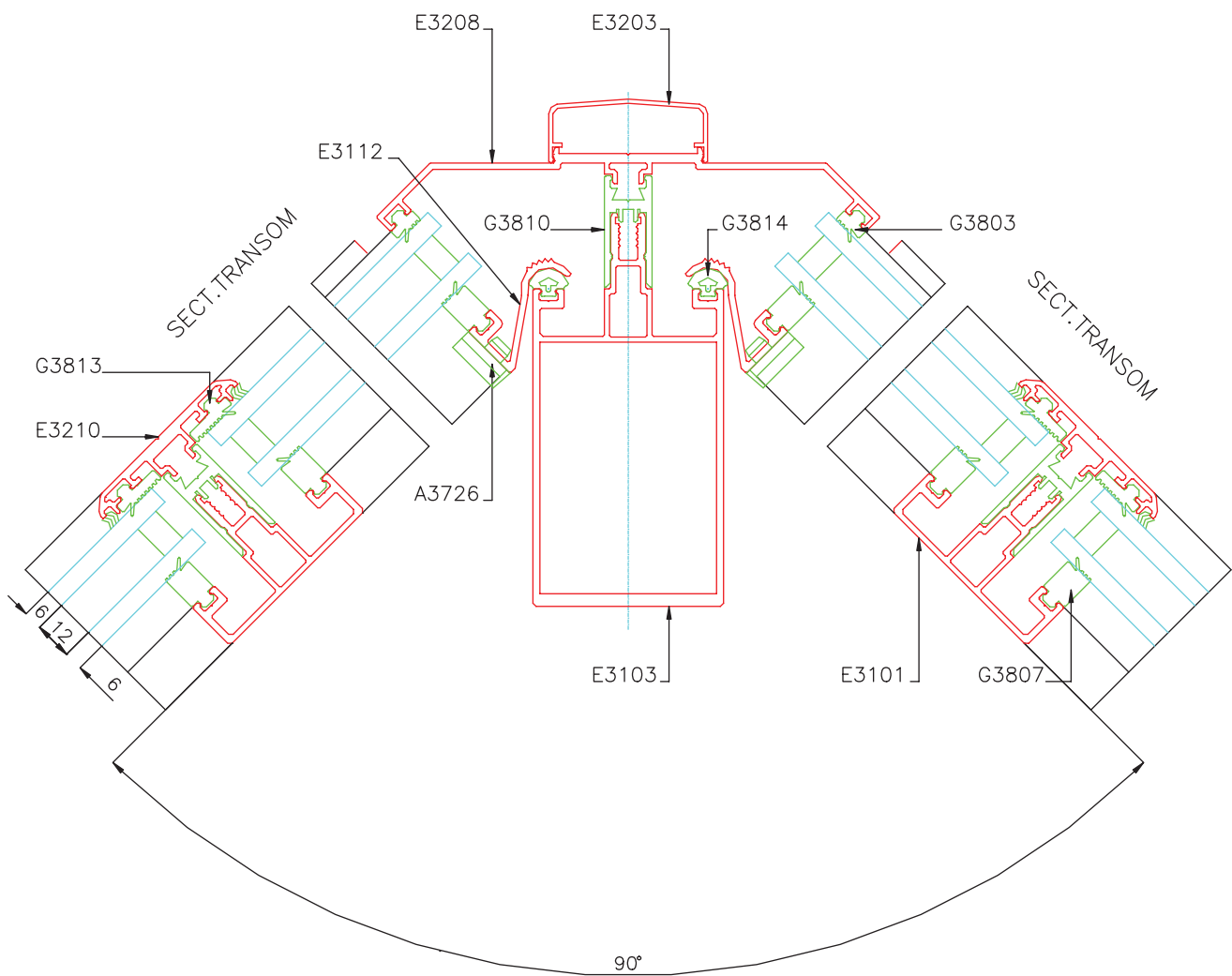


E3208  
g/m 1247

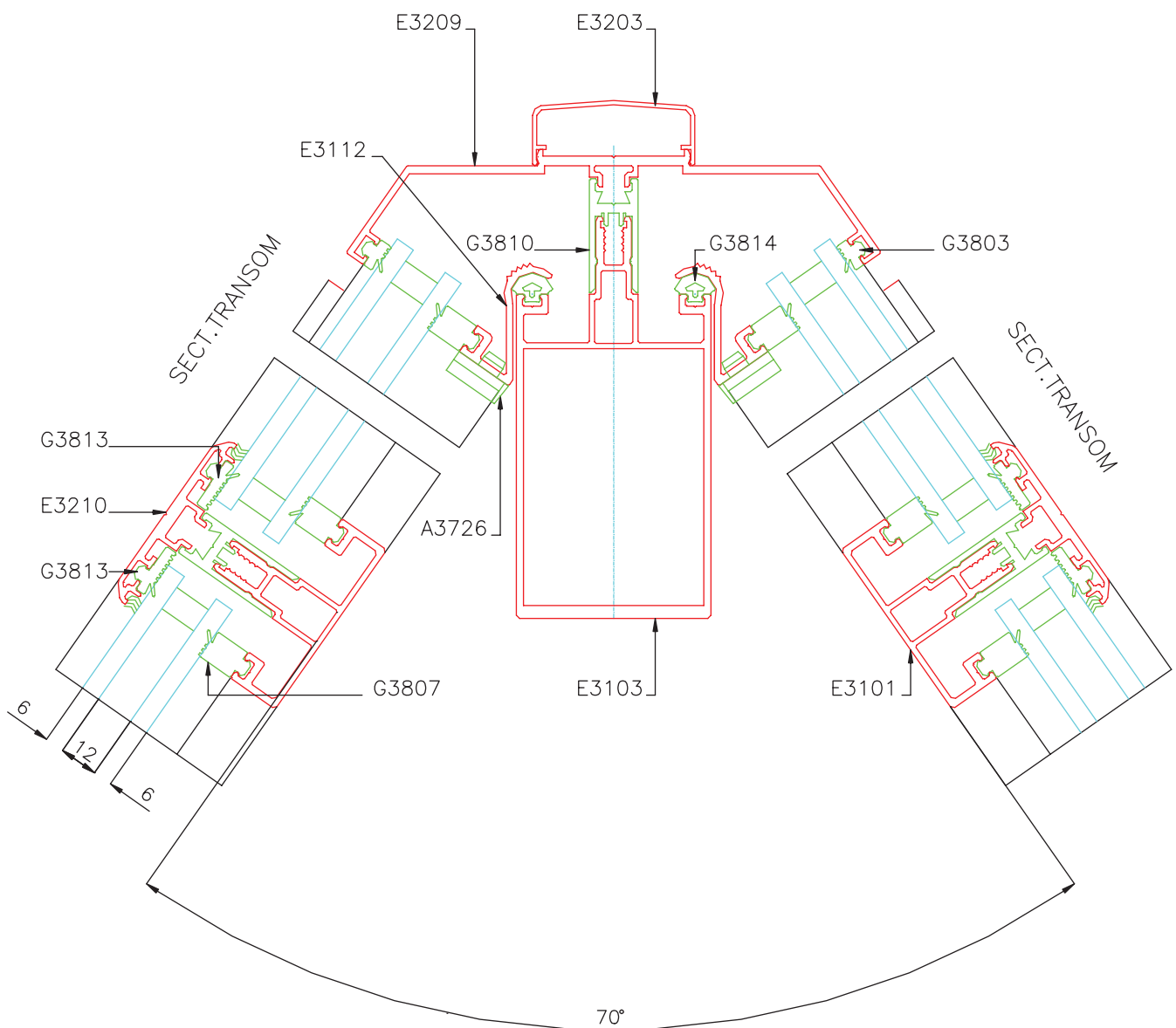


E3209  
g/m 1466

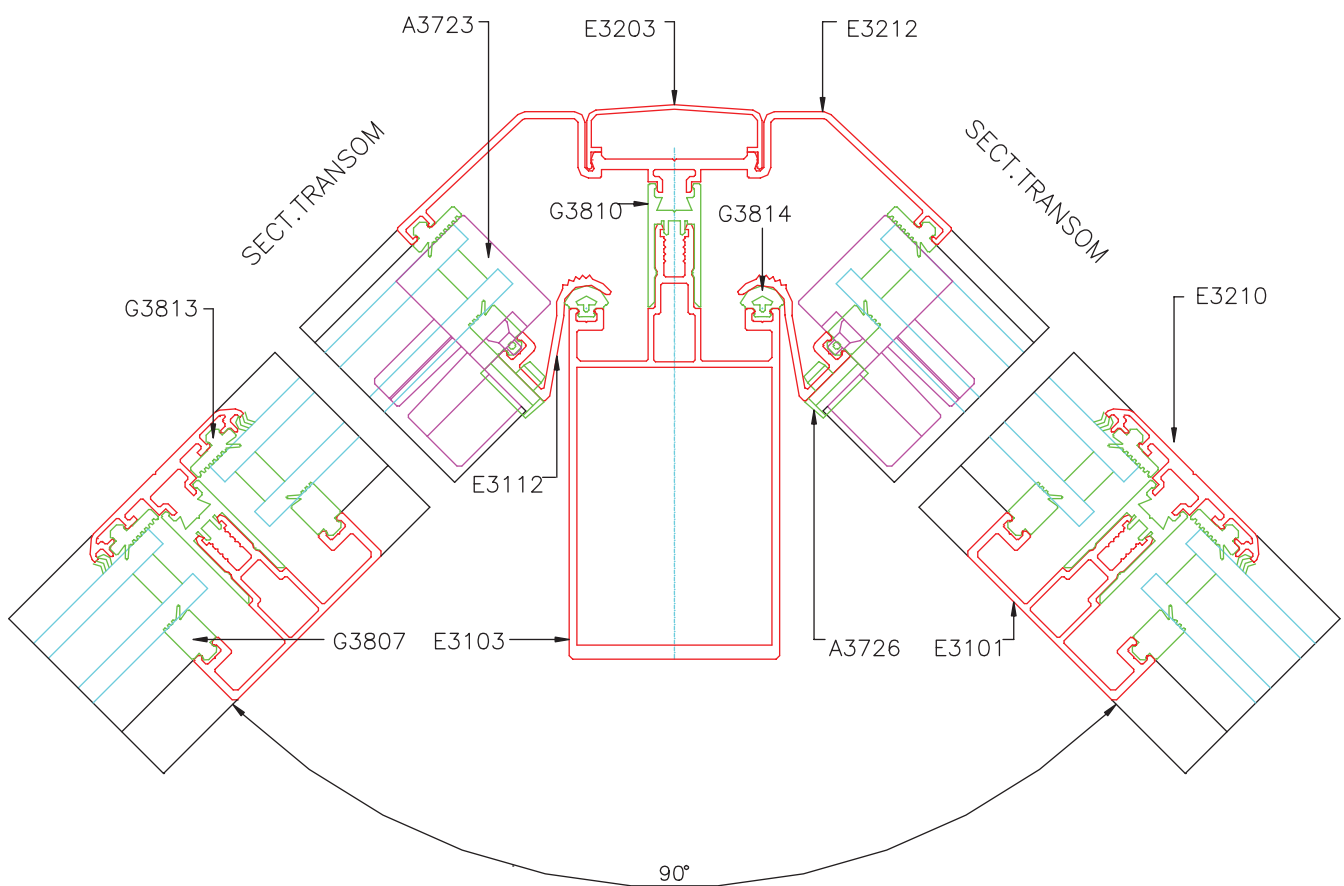
## CONVENTIONAL HORIZONTAL SECTION INCLINED CORNER



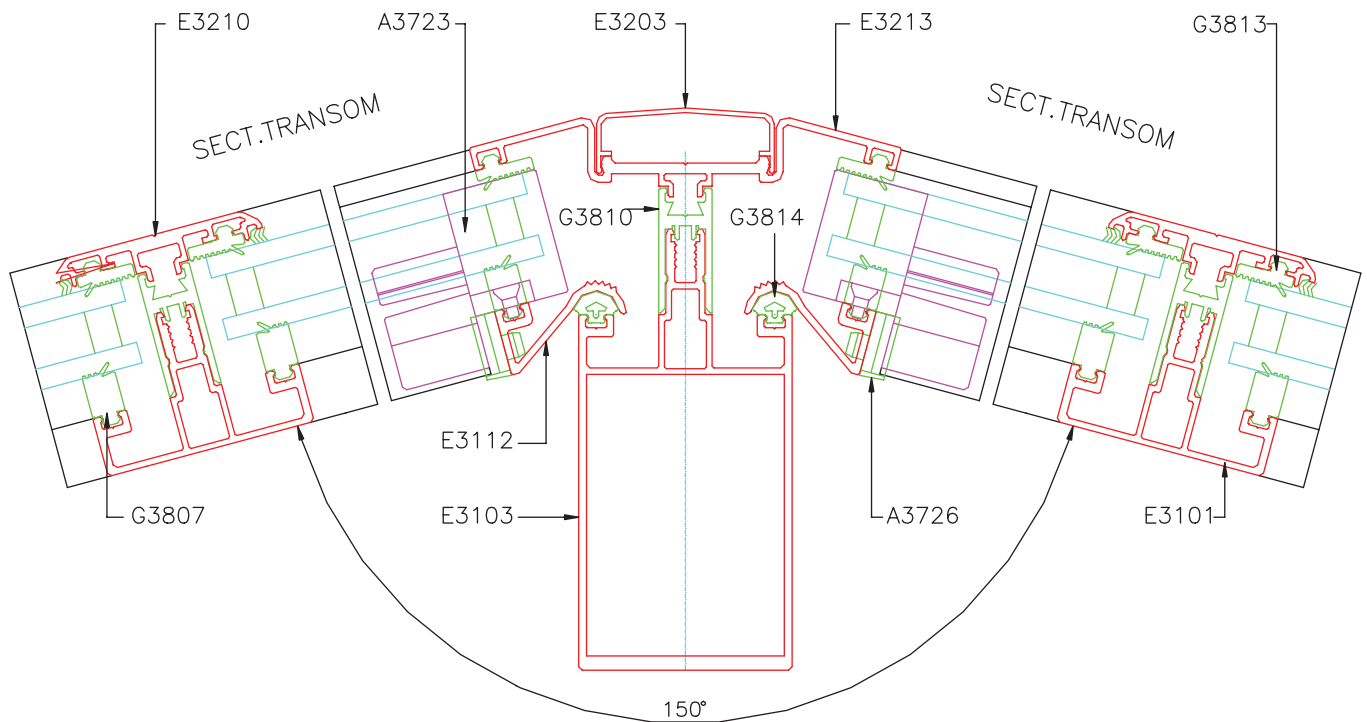
## CONVENTIONAL HORIZONTAL SECTION INCLINED CORNER



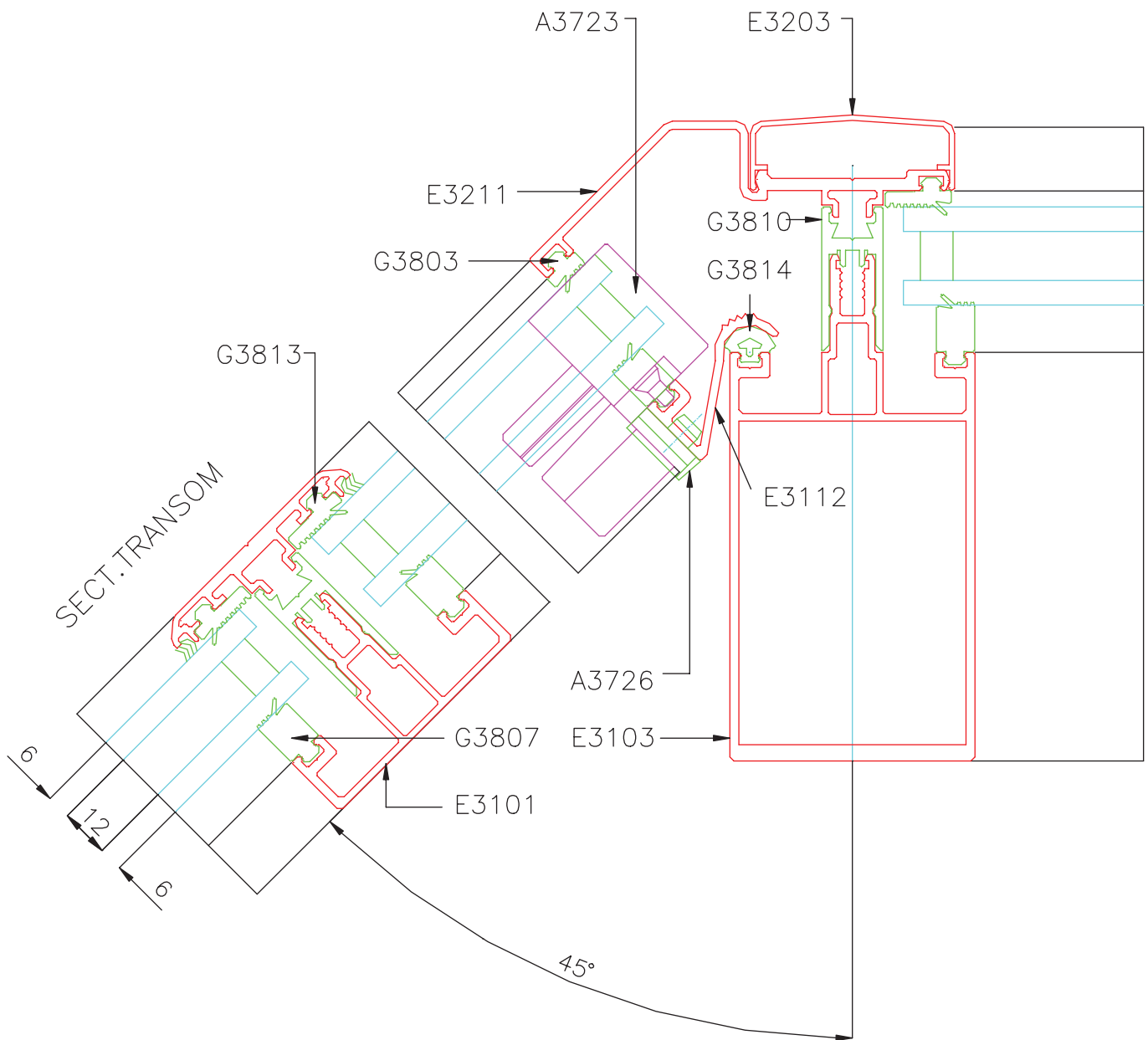
## CONVENTIONAL HORIZONTAL SECTION INCLINED CORNER



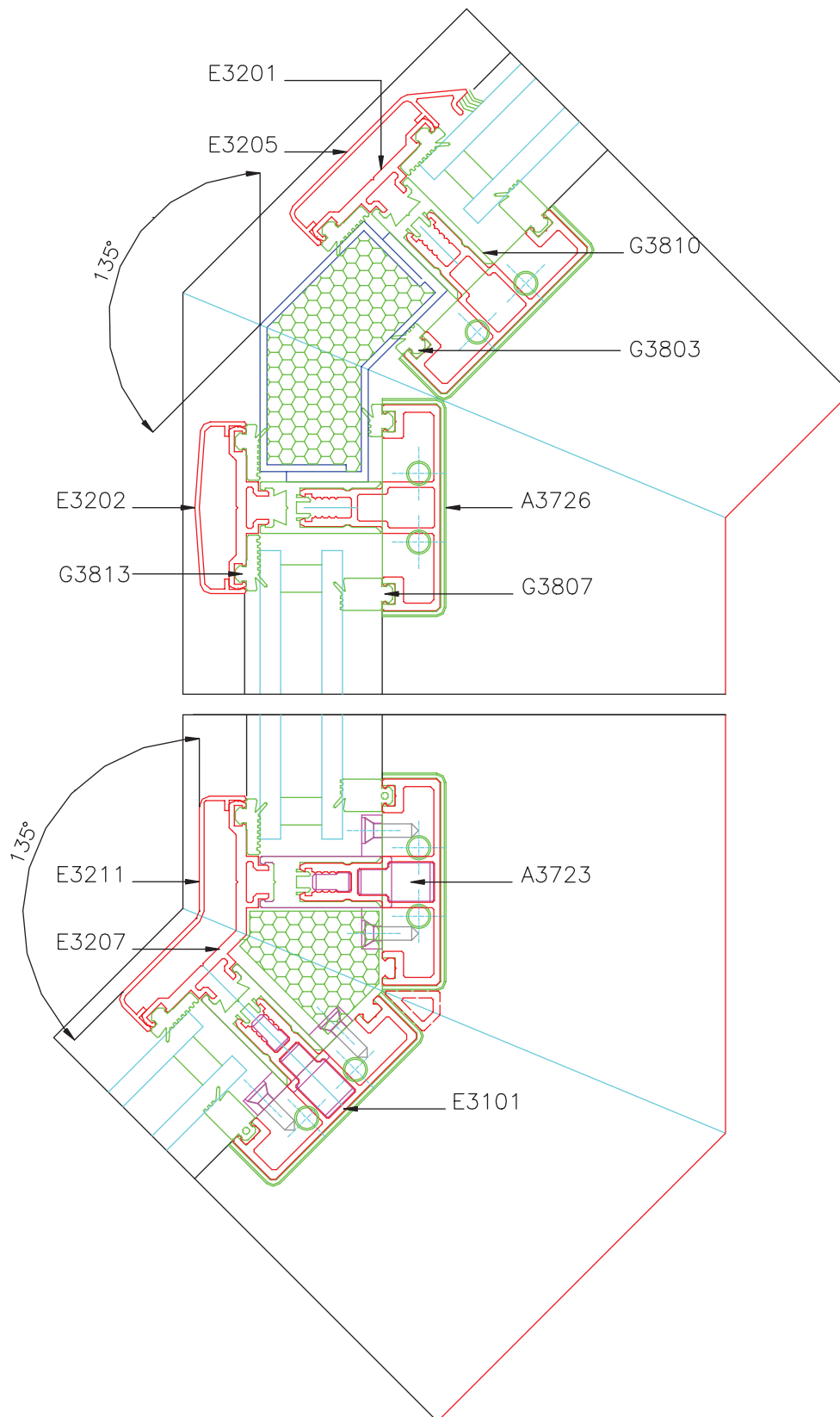
## CONVENTIONAL HORIZONTAL SECTION INCLINED CORNER



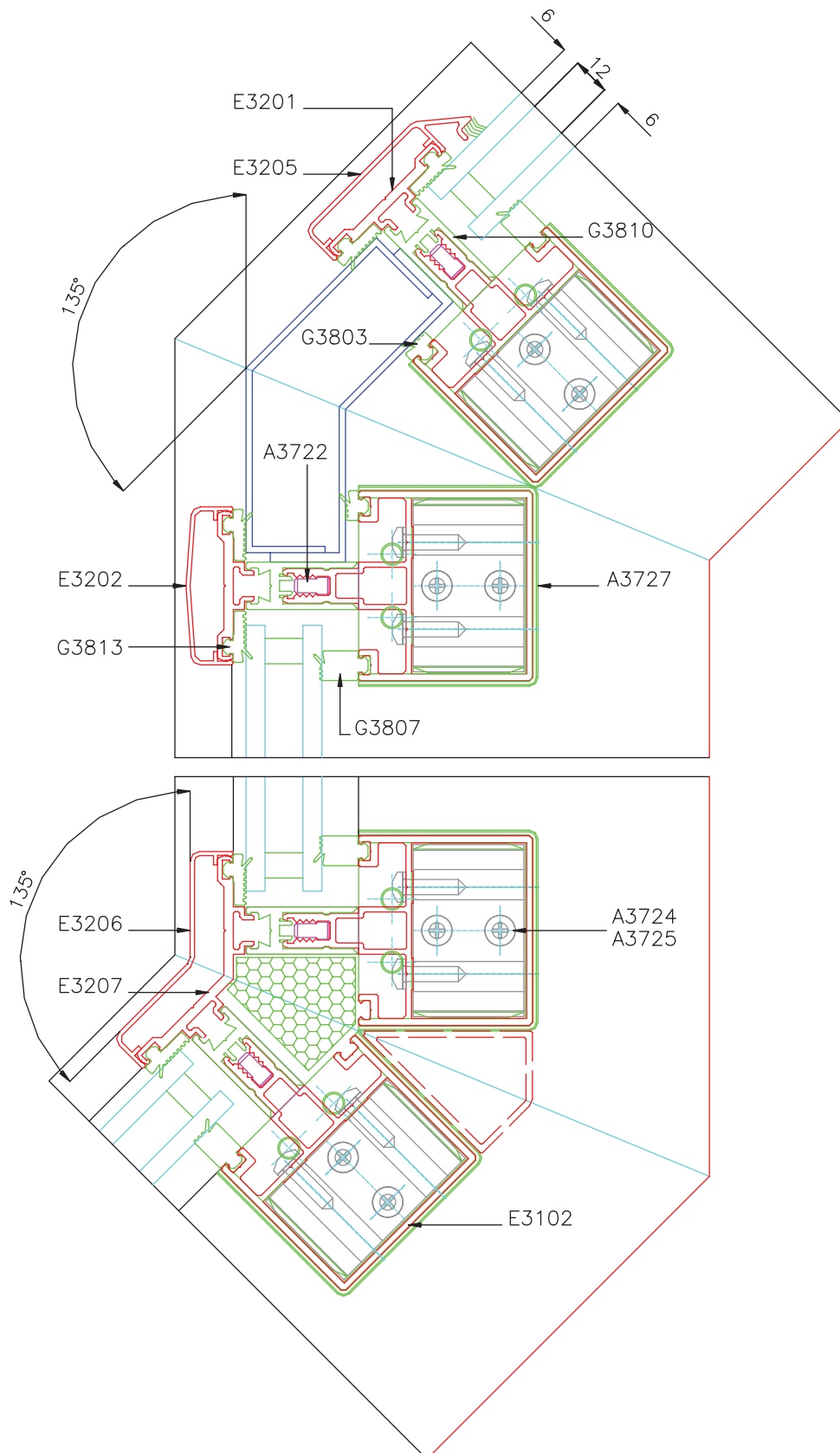
## CONVENTIONAL HORIZONTAL SECTION INCLINED CORNER



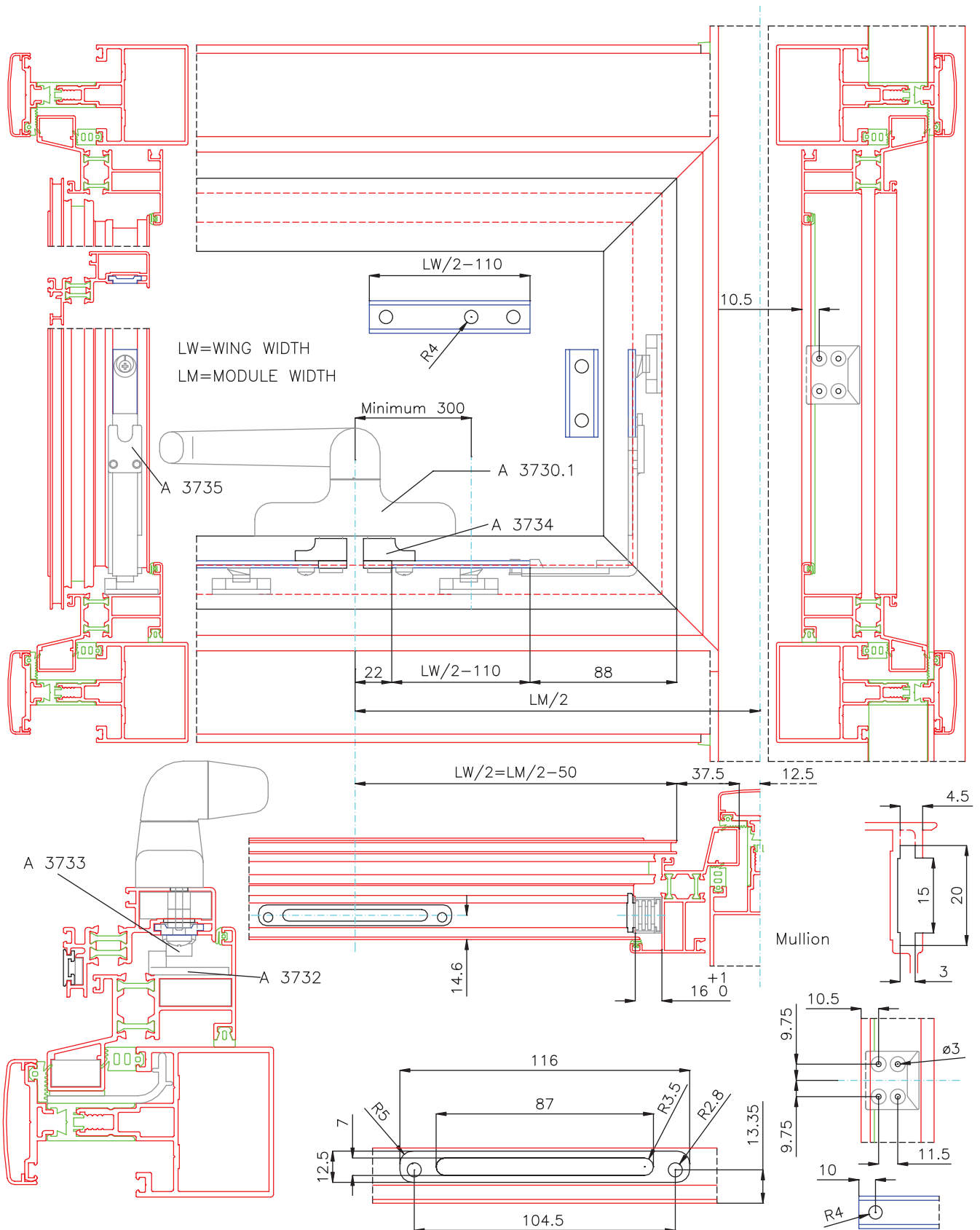
## CONVENTIONAL VERTICAL SECTION INCLINED CORNER



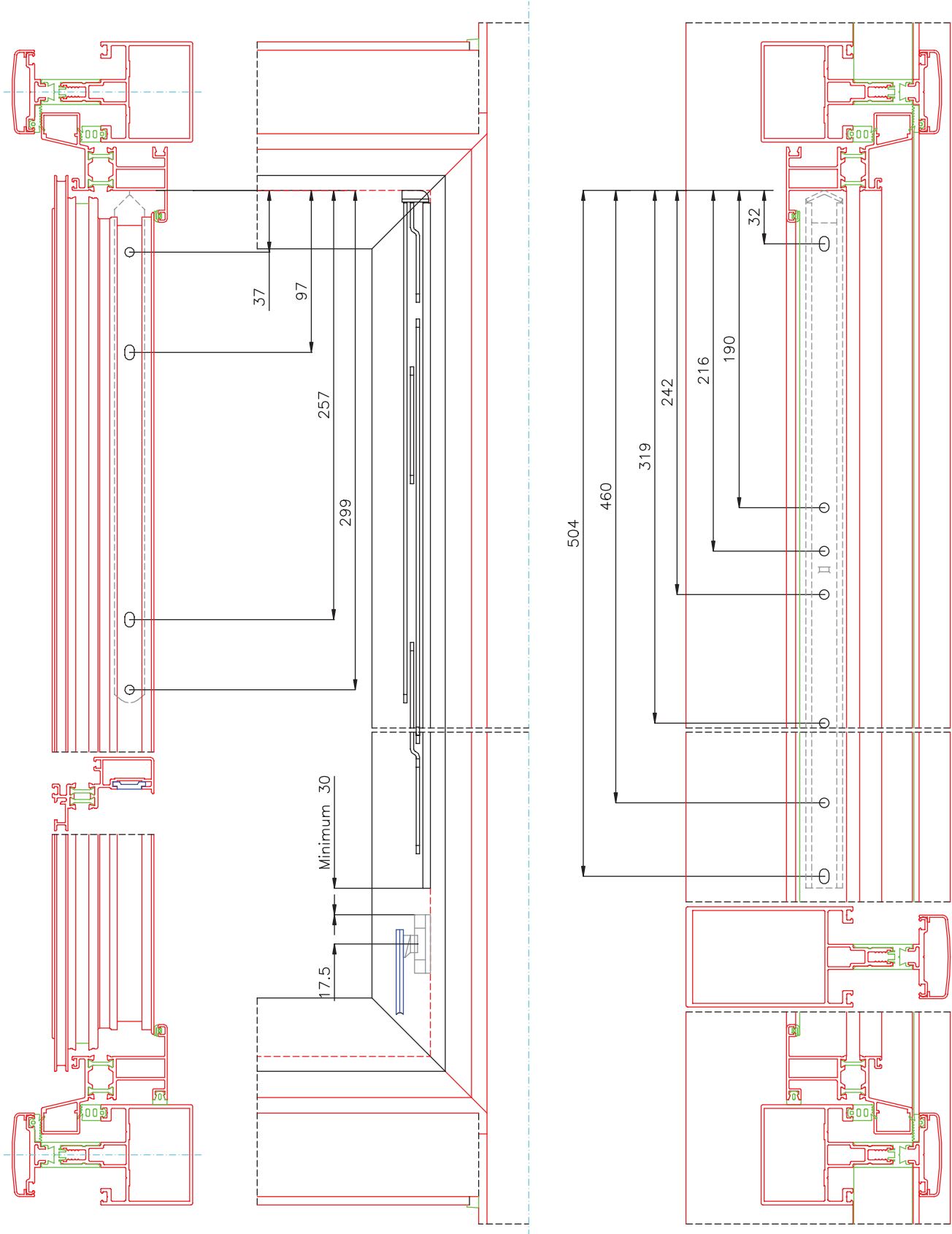
## CONVENTIONAL VERTICAL SECTION INCLINED CORNER



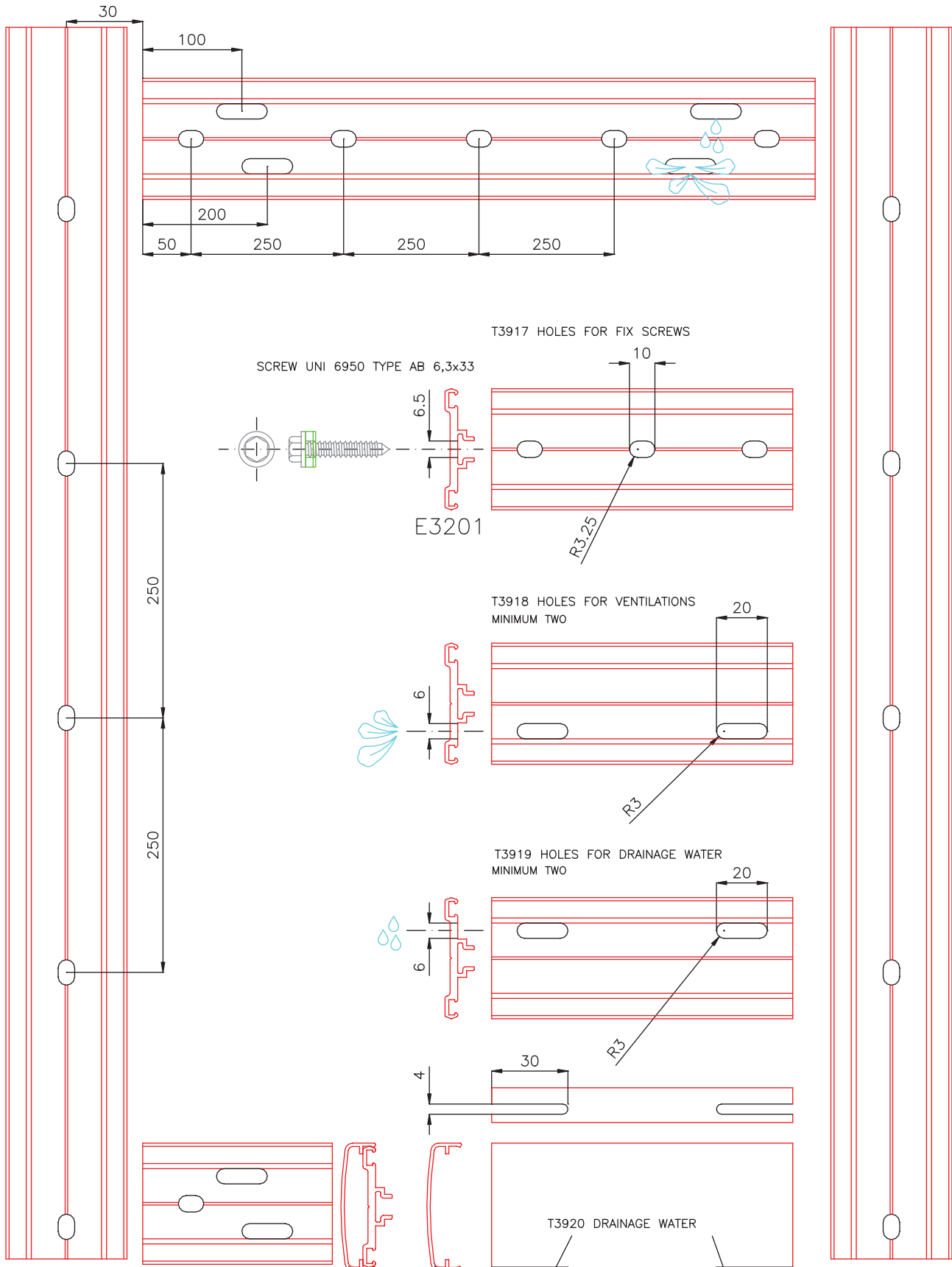
## CONVENTIONAL TOOL MOUNTING ACCESSORY PROJECT



## CONVENTIONAL TOOL FRICTION HINGES A 3731



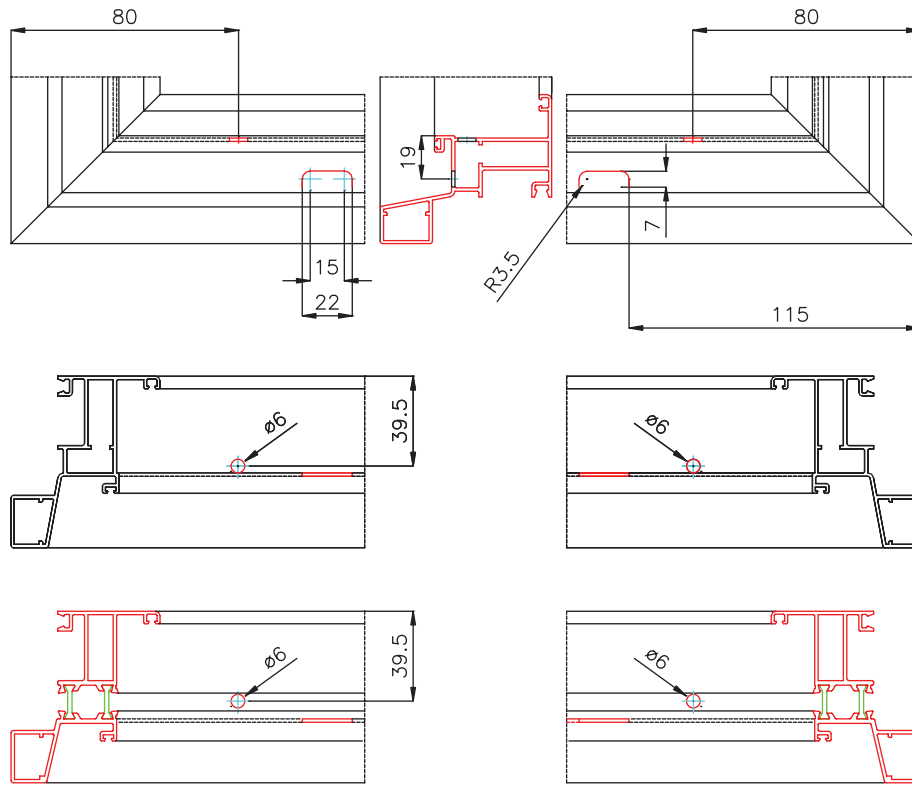
## CONVENTIONAL T3917-18-19-20 TOOLINGS COVER CAPS E3201



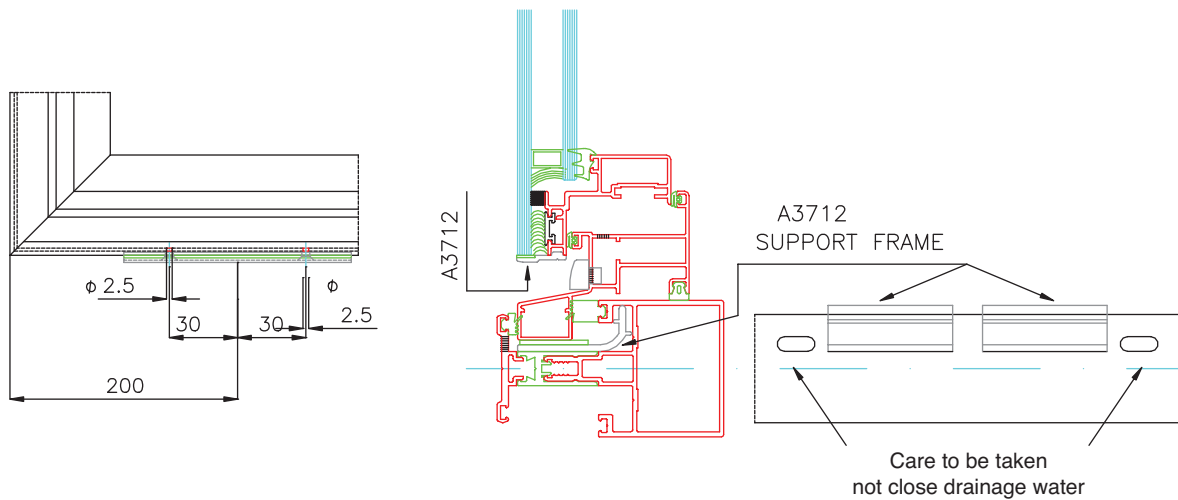
## CONVENTIONAL TOOLINGS T3907-T3908

### T3907 TOOLING DRAINAGE WATER

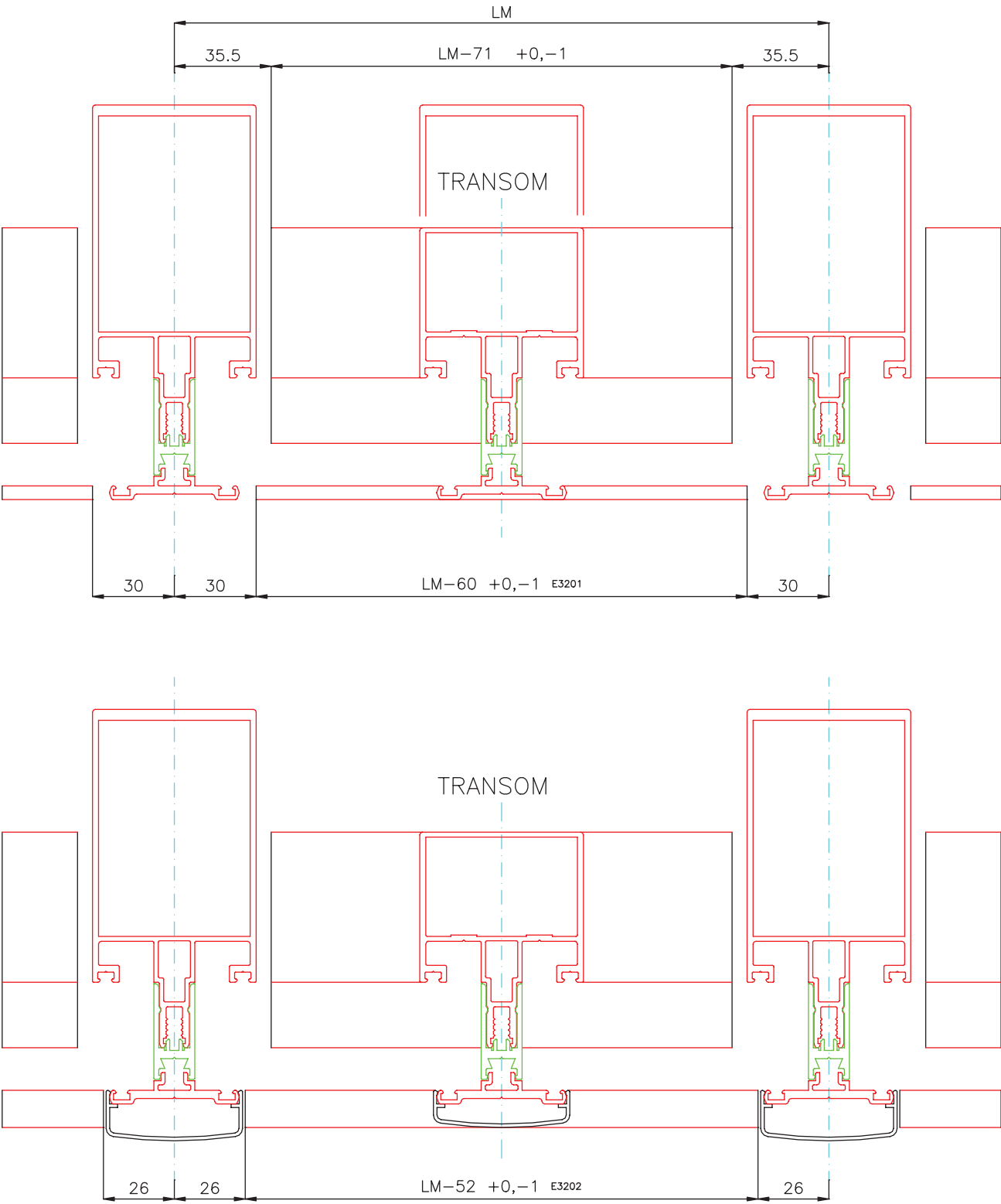
On 45° corner seal with glue



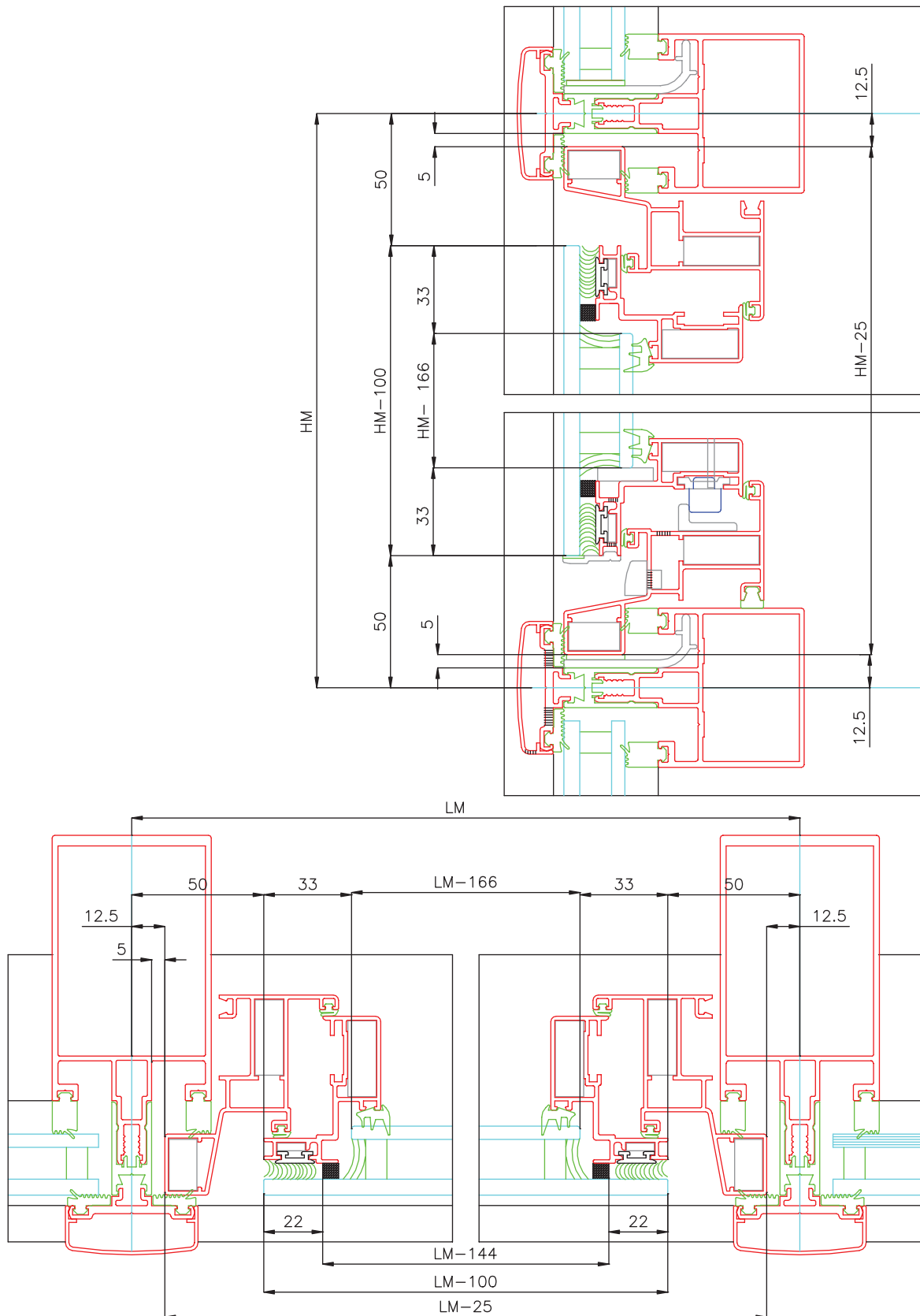
### T3908 TOOLING SUPPORT GLASS on 45° corner seal with glue



# CONVENTIONAL PREPARATION CLAMPING CAPS

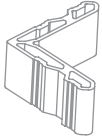


## CONVENTIONAL PREPARATION WINDOWS OPEN OUTSIDE

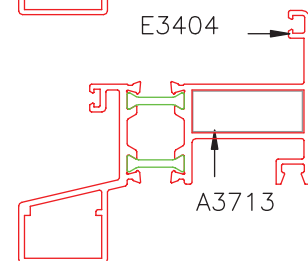
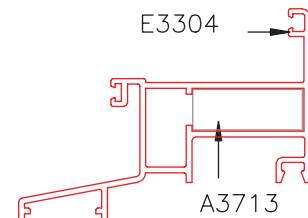
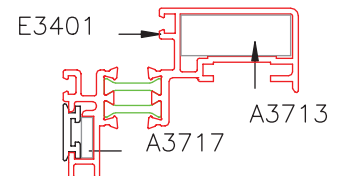
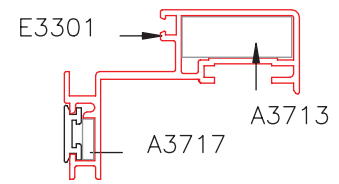
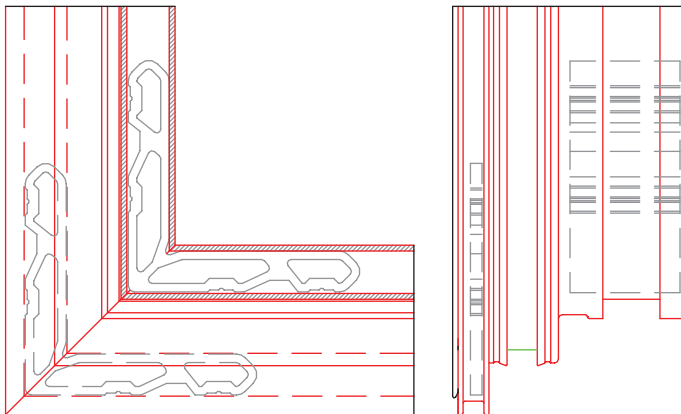
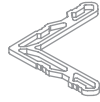


## CONVENTIONAL TOOL CORNER

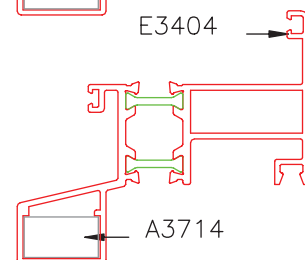
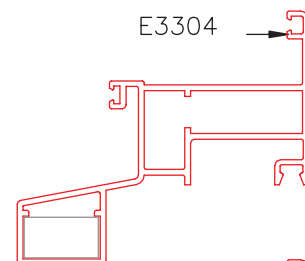
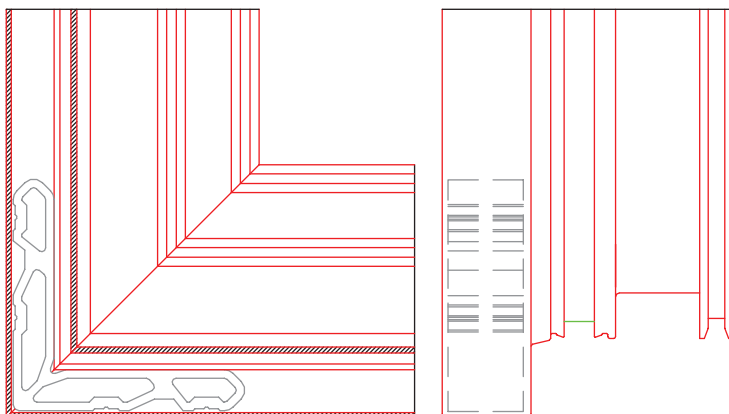
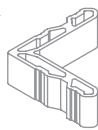
A3713



A3717 FIX WITH GLUE

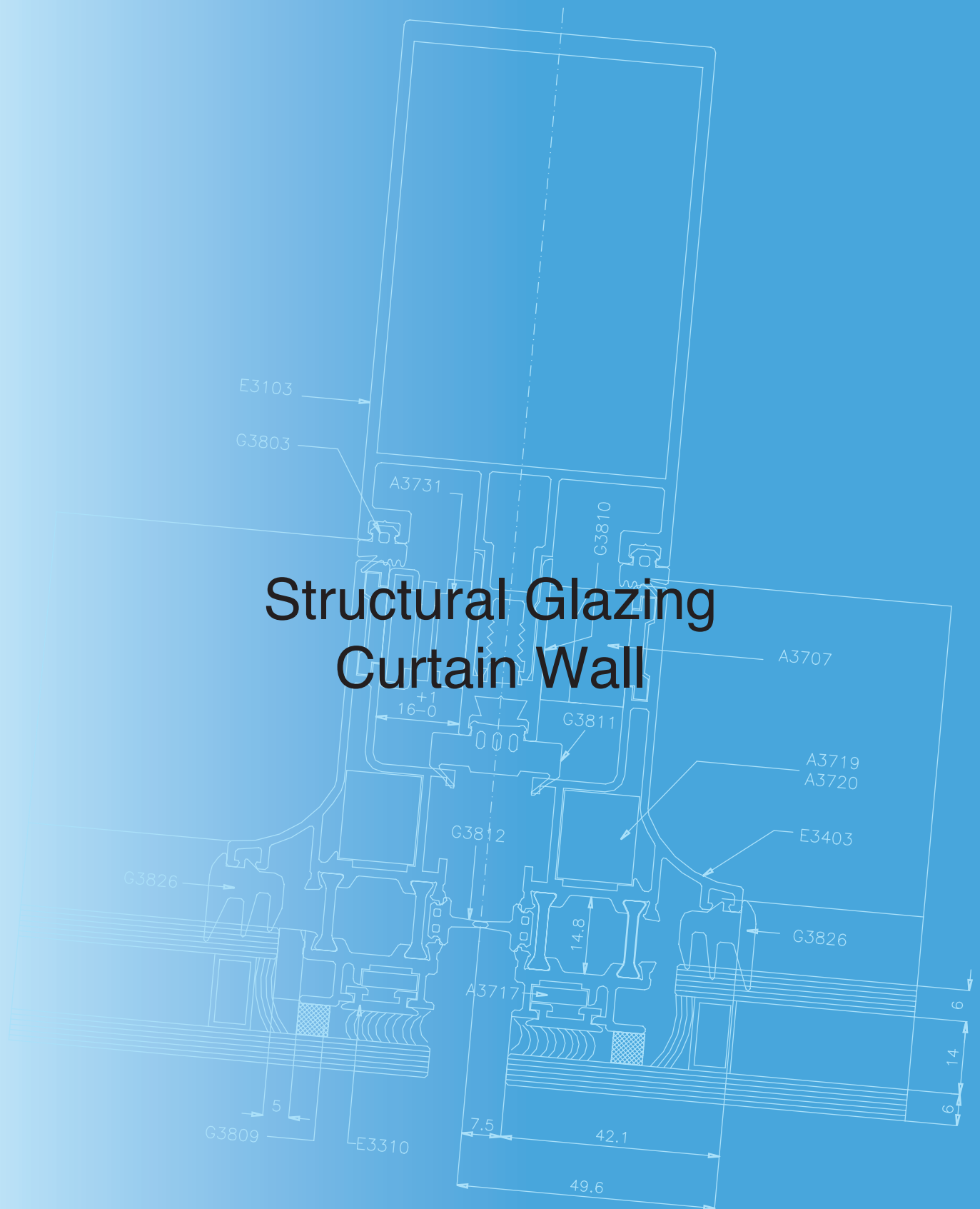


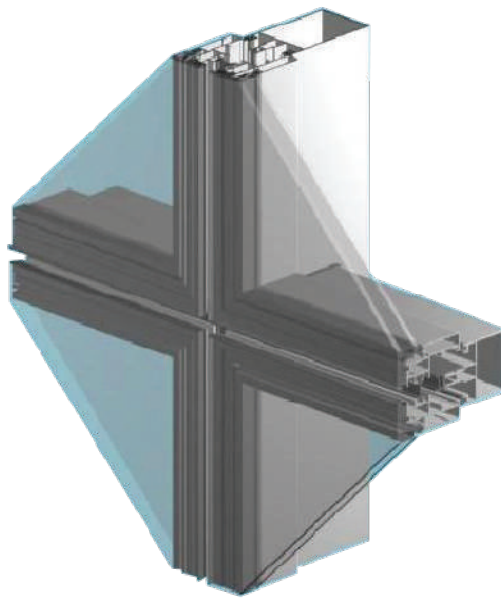
A3714





# Structural Glazing Curtain Wall





Structural Glazing  
Curtain Wall

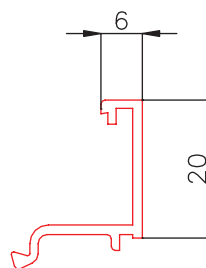
## STRUCTURAL GLAZING PROFILES



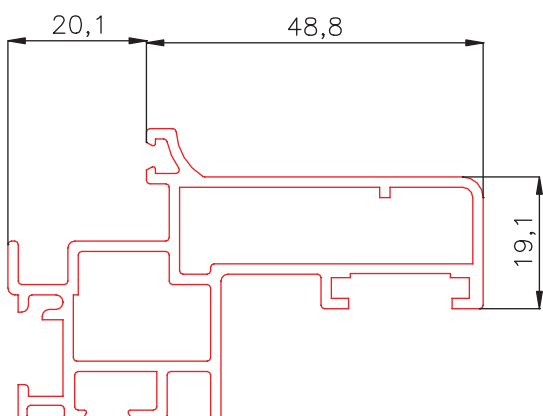
E3310  
g/m 108



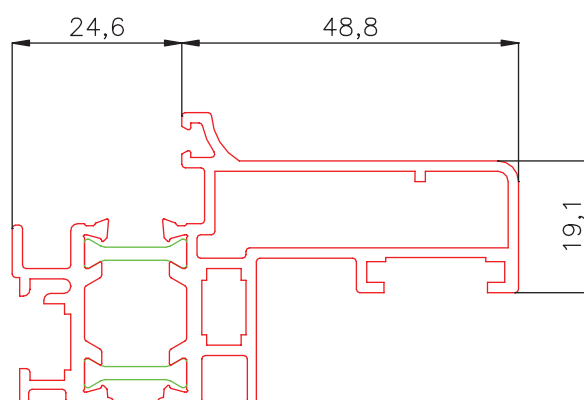
E1401  
g/m 148



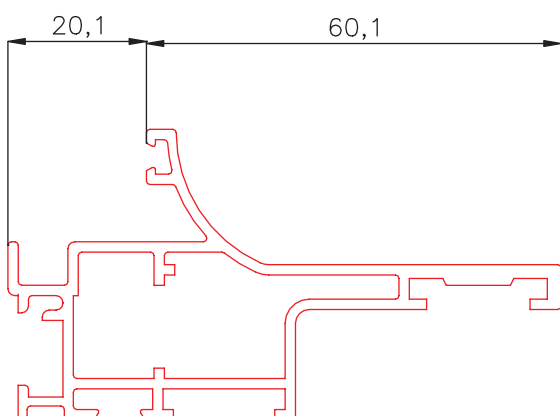
E1407  
g/m 186



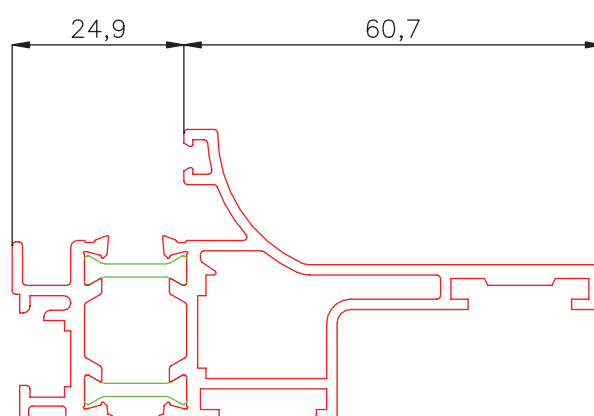
E3302  
g/m 1112



E3402  
g/m 1280

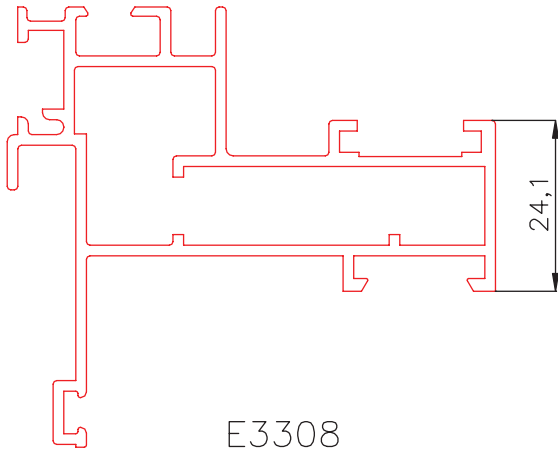


E3303  
g/m 1083

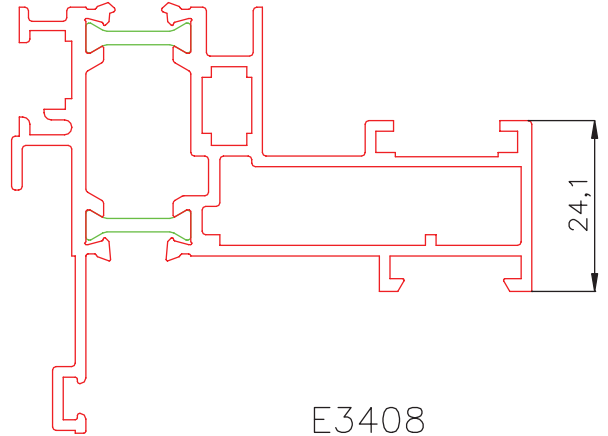


E3403  
g/m 1255

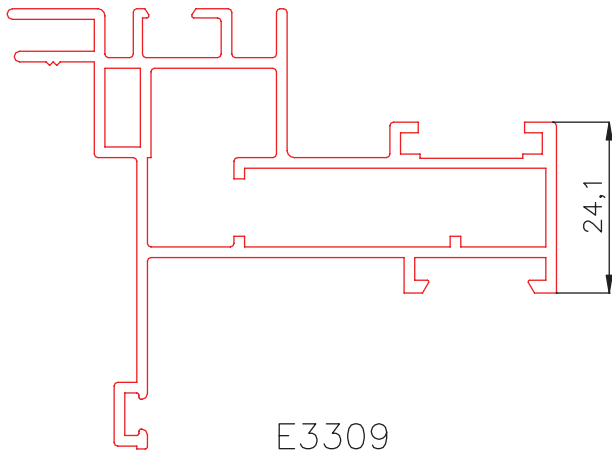
## STRUCTURAL GLAZING PROFILES



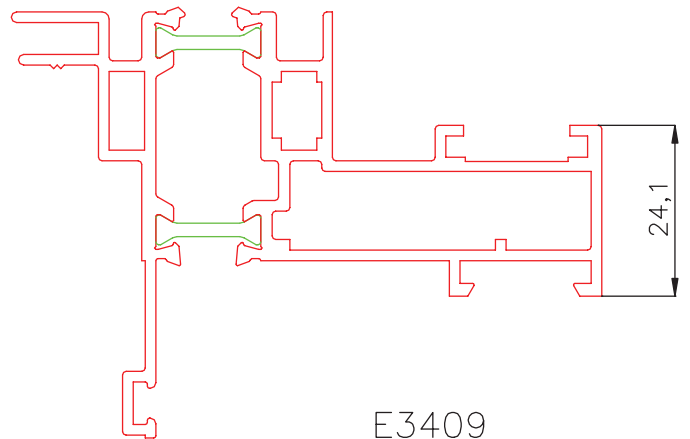
E3308  
g/m 1231



E3408  
g/m 1466

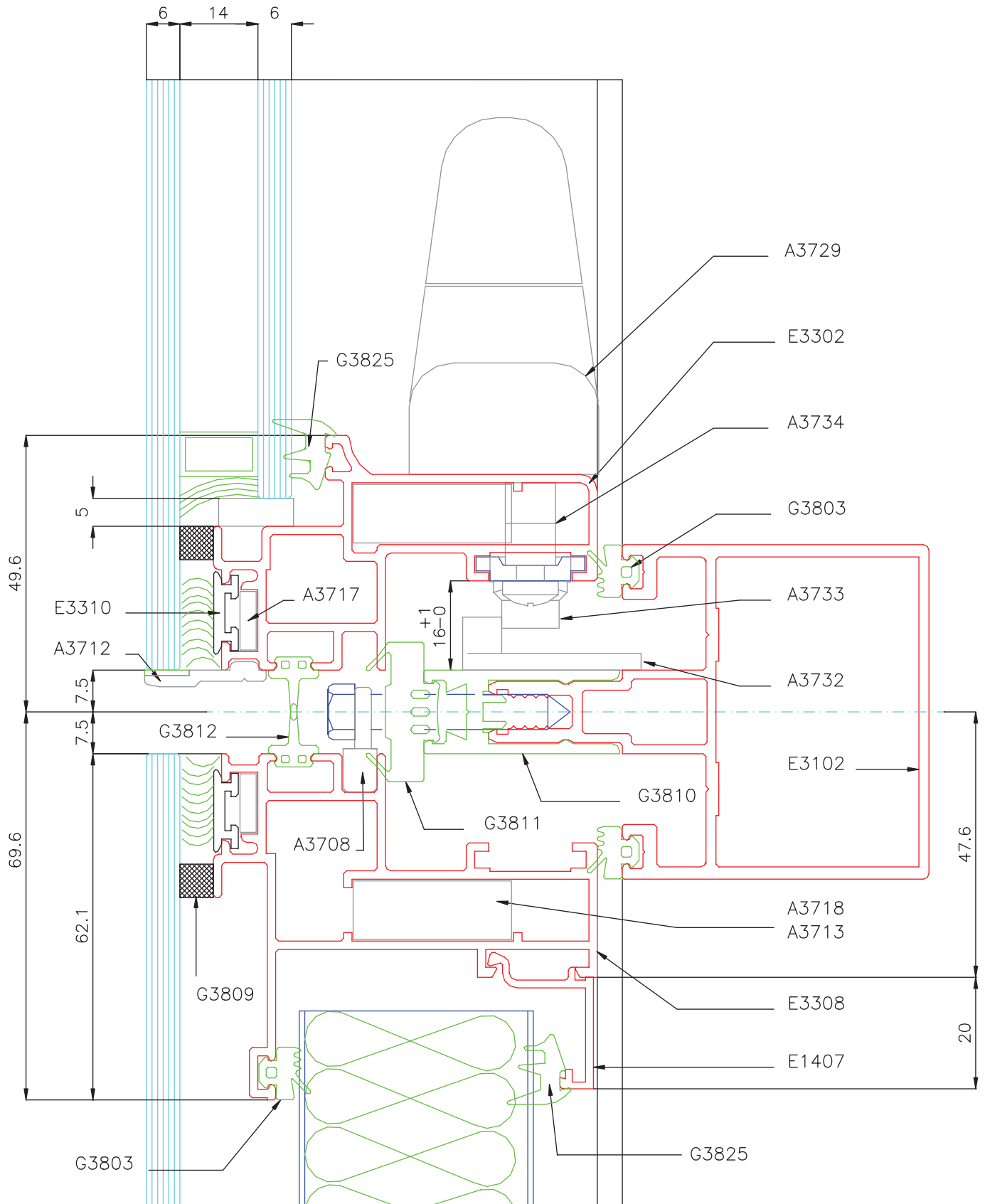


E3309  
g/m 1312

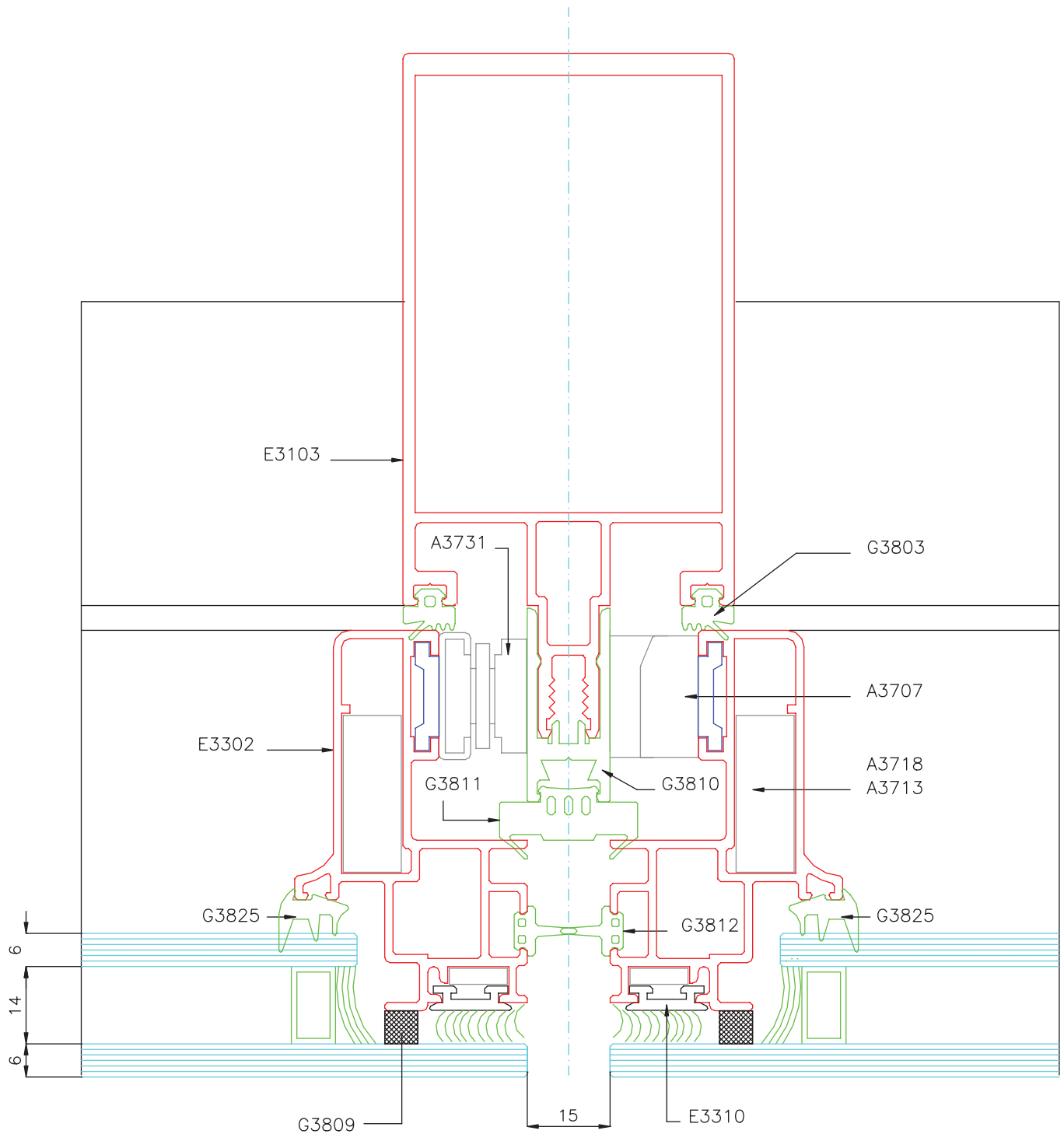


E3409  
g/m 1504

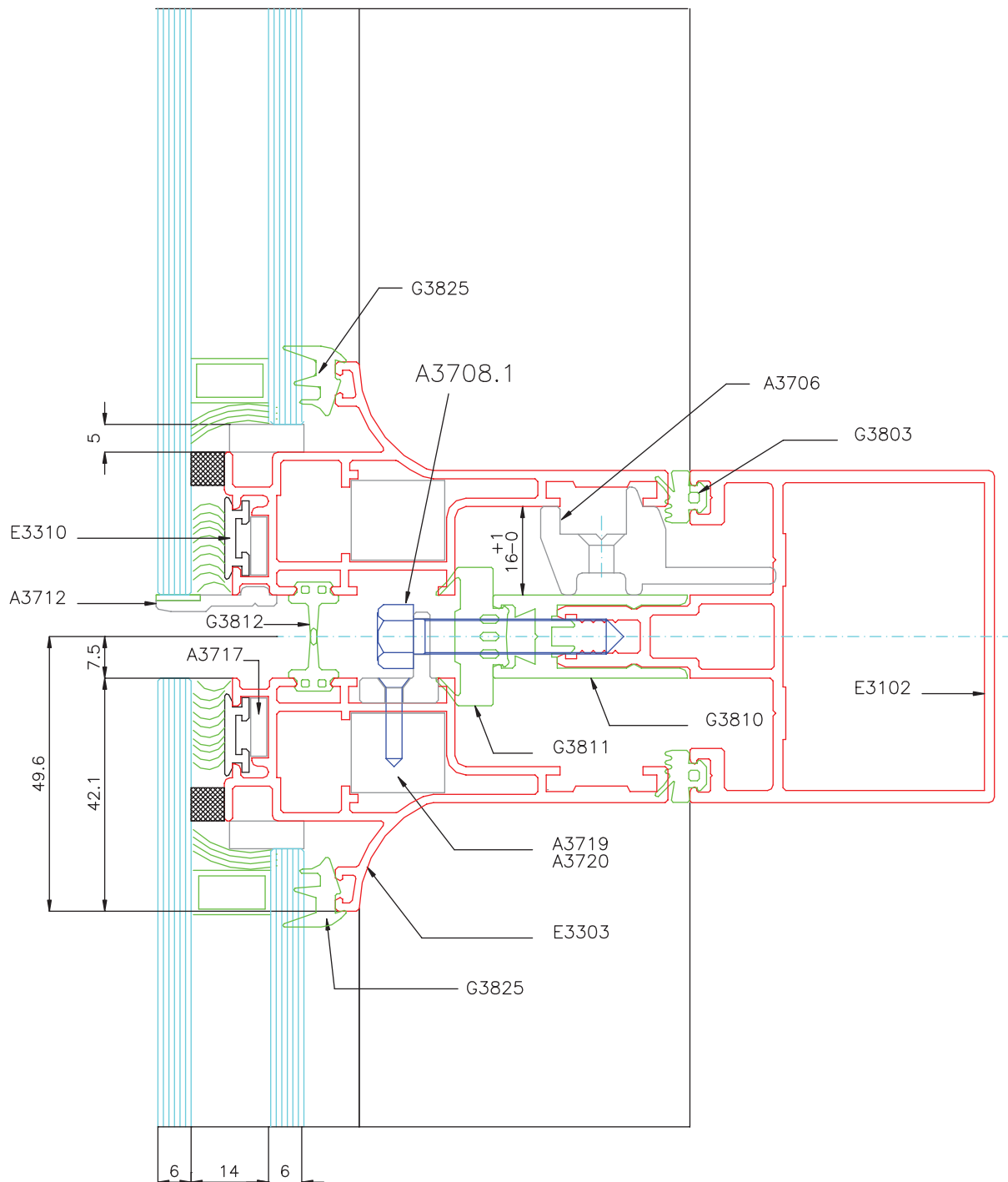
## STRUCTURAL GLAZING VERTICAL SECTION



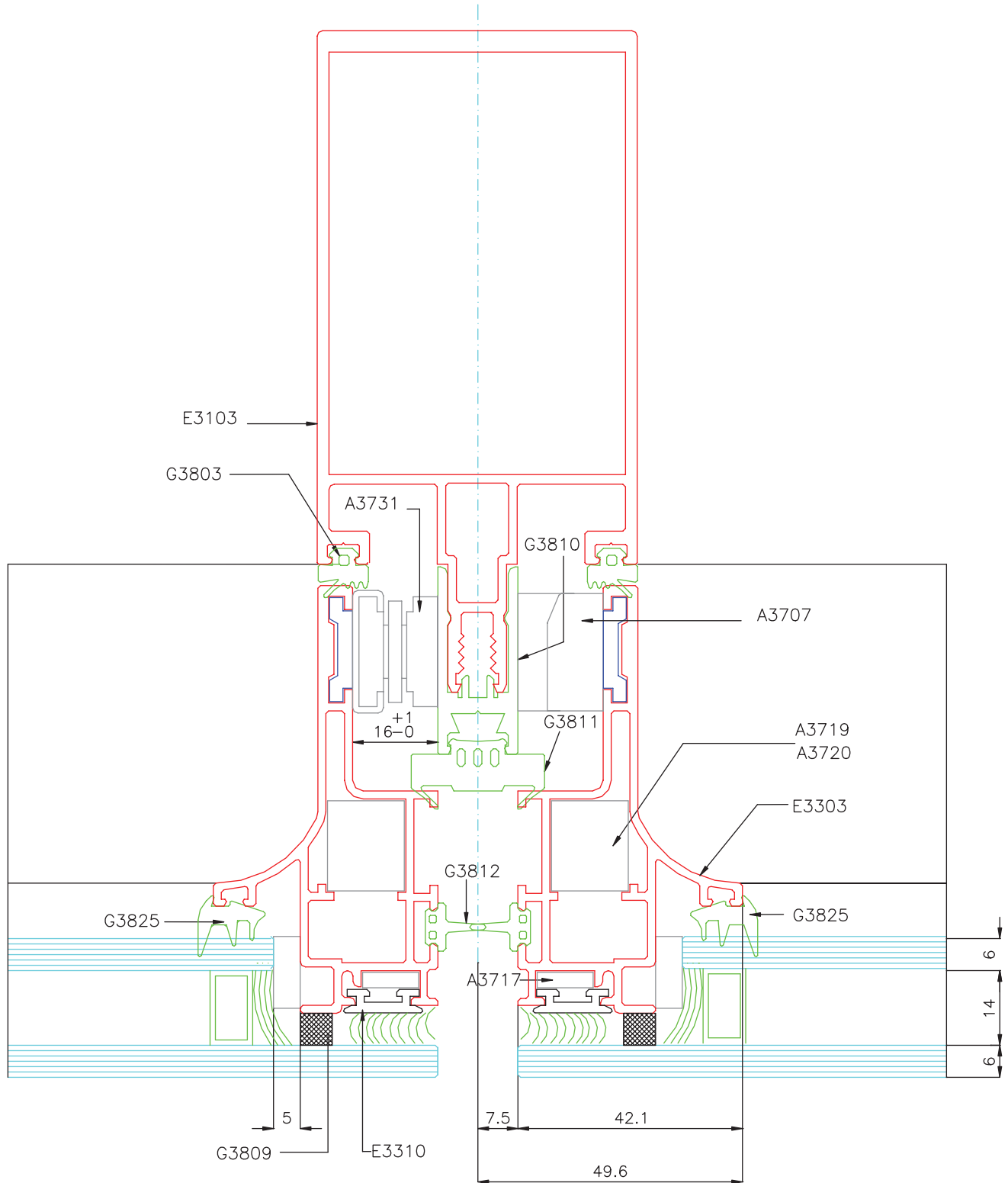
## STRUCTURAL GLAZING HORIZONTAL SECTION WINDOW



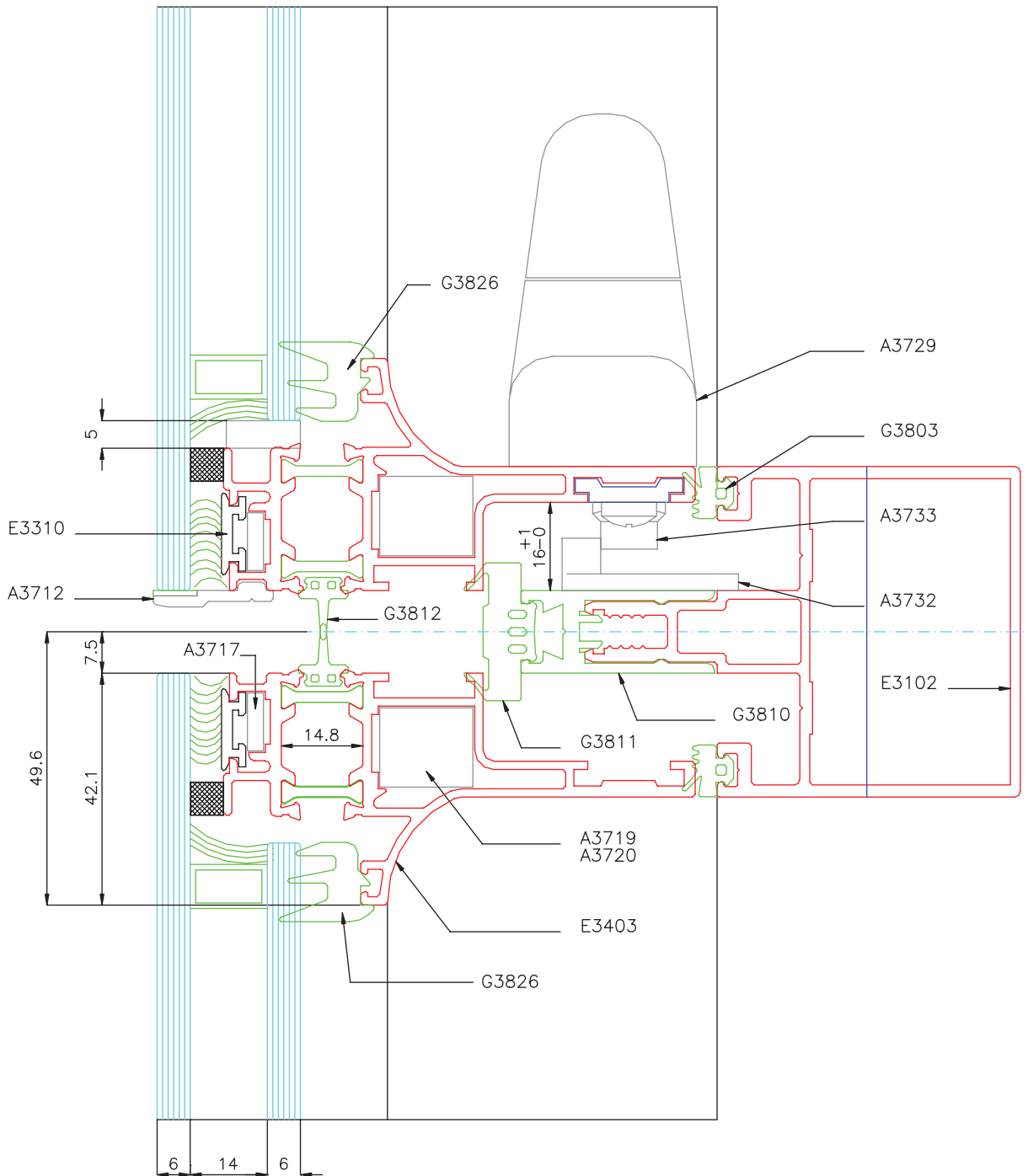
## STRUCTURAL GLAZING VERTICAL SECTION



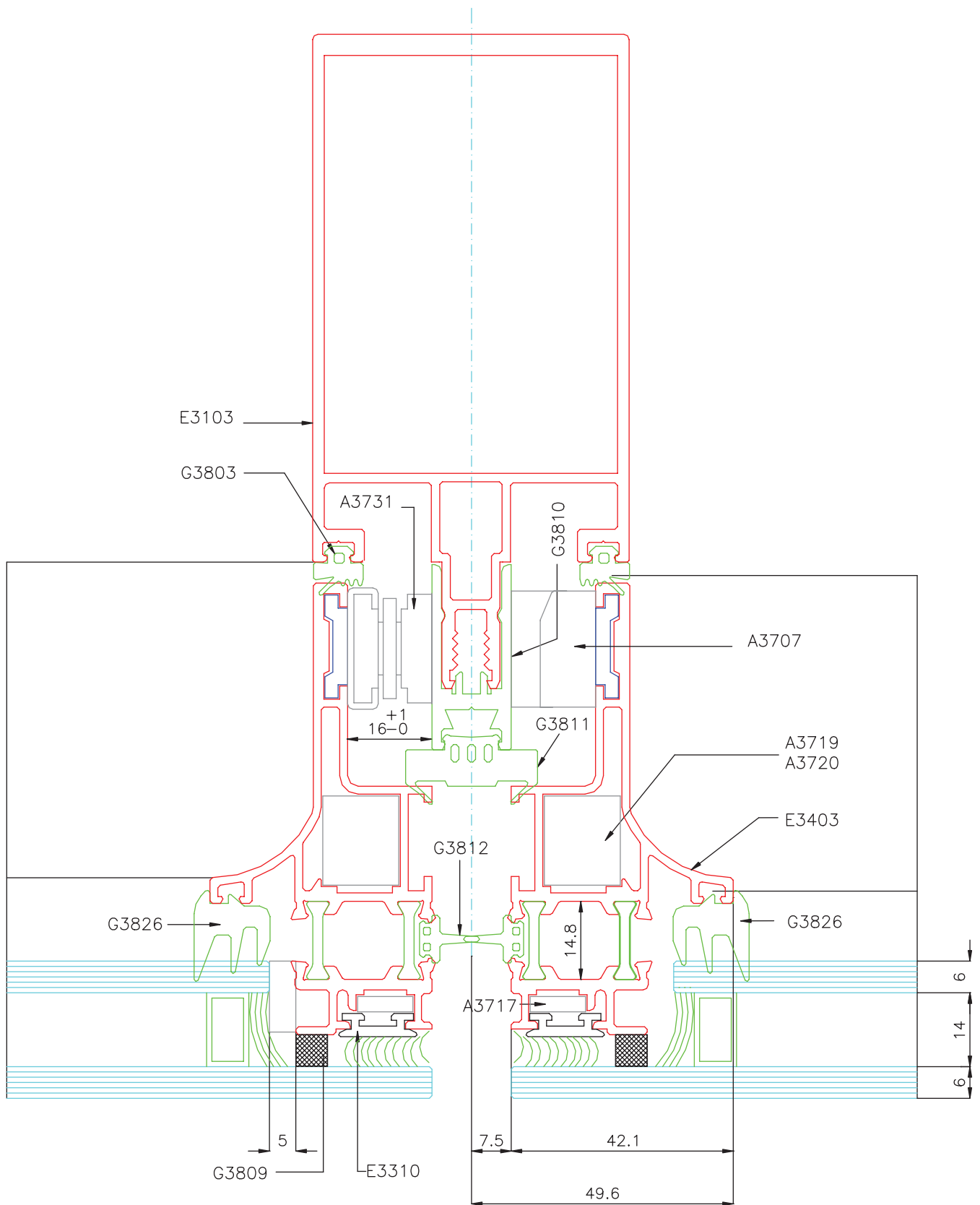
## STRUCTURAL GLAZING HORIZONTAL SECTION



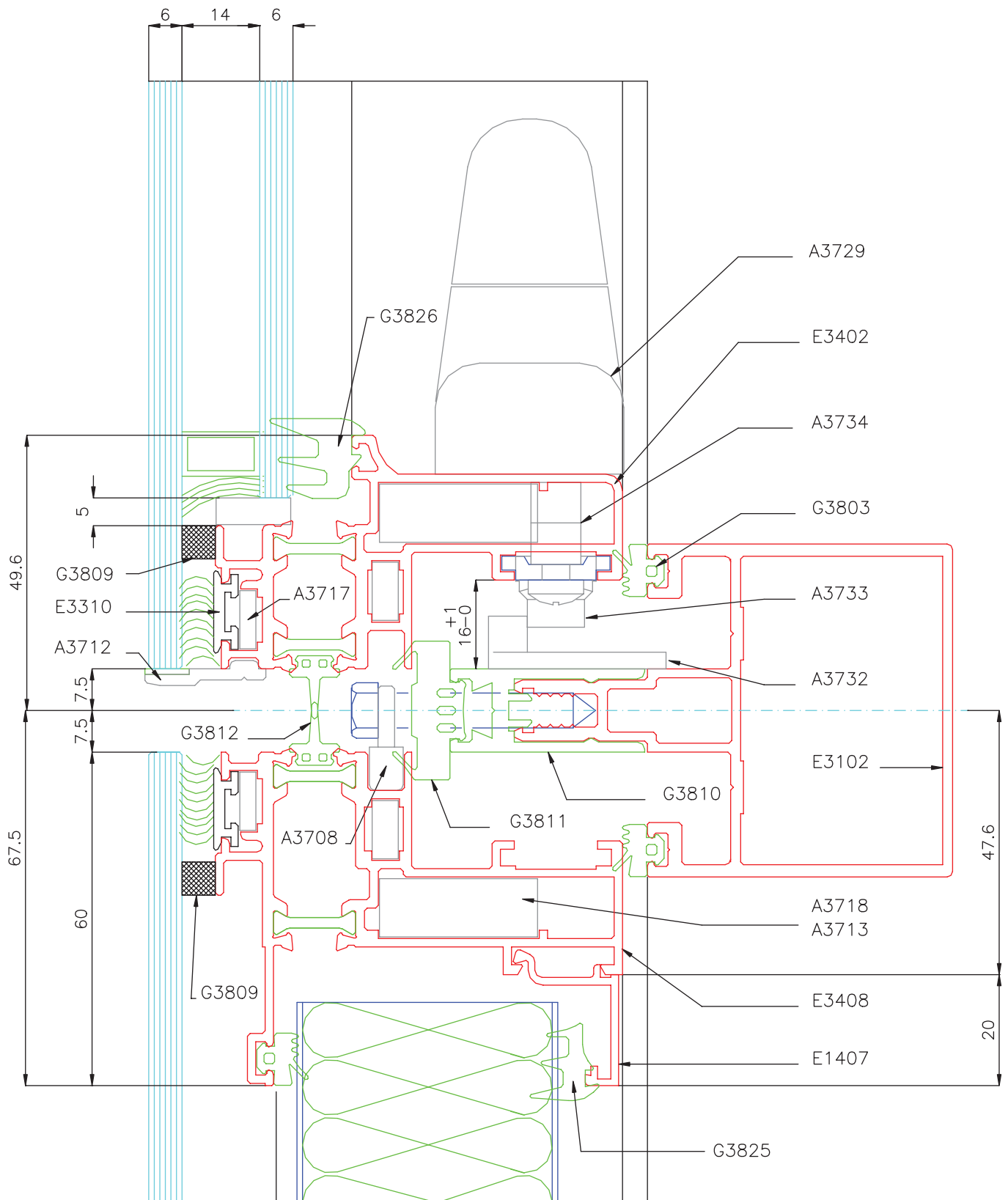
## STRUCTURAL GLAZING THERMAL BREAK VERTICAL SECTION



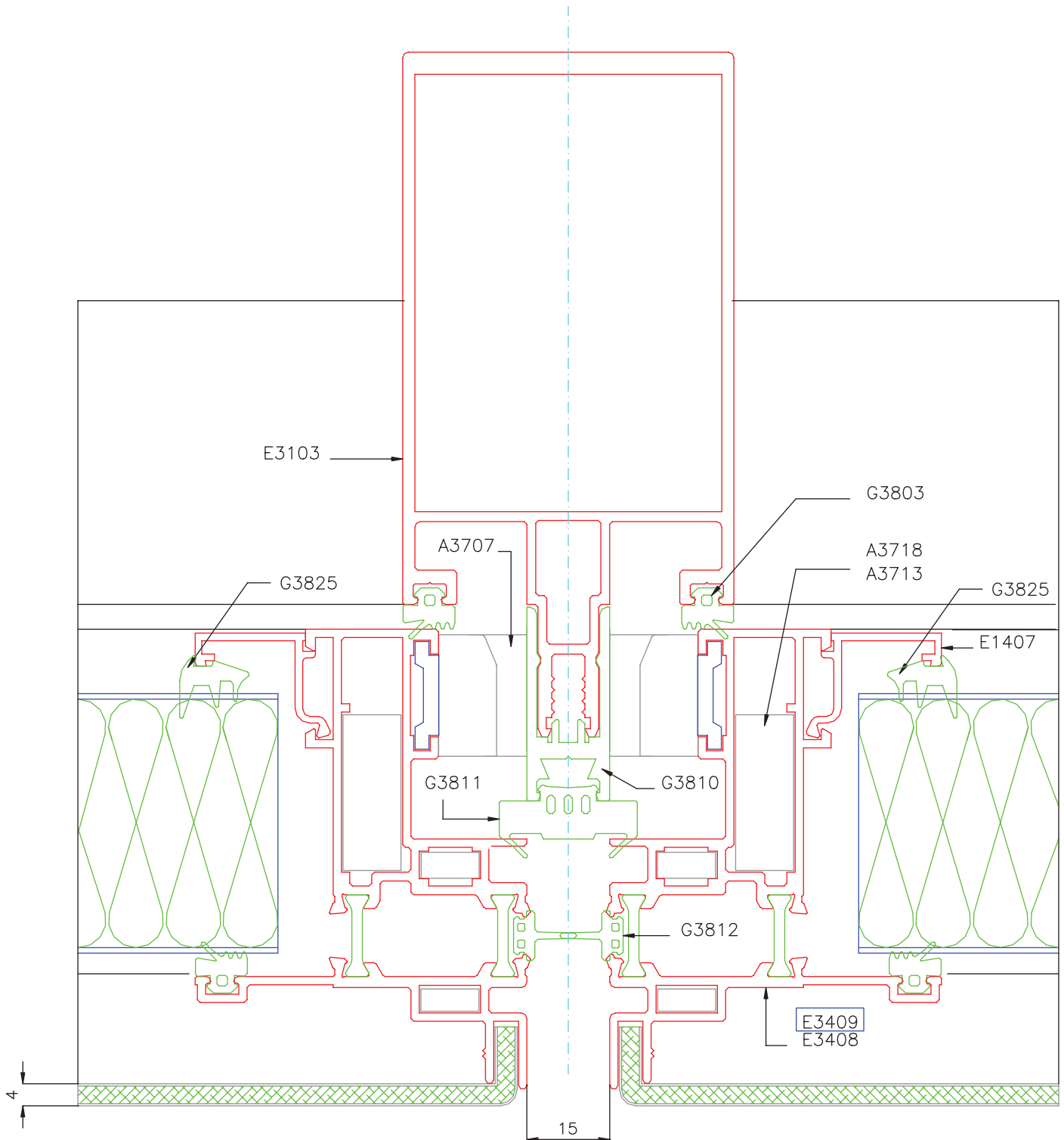
## STRUCTURAL GLAZING HORIZONTAL SECTION



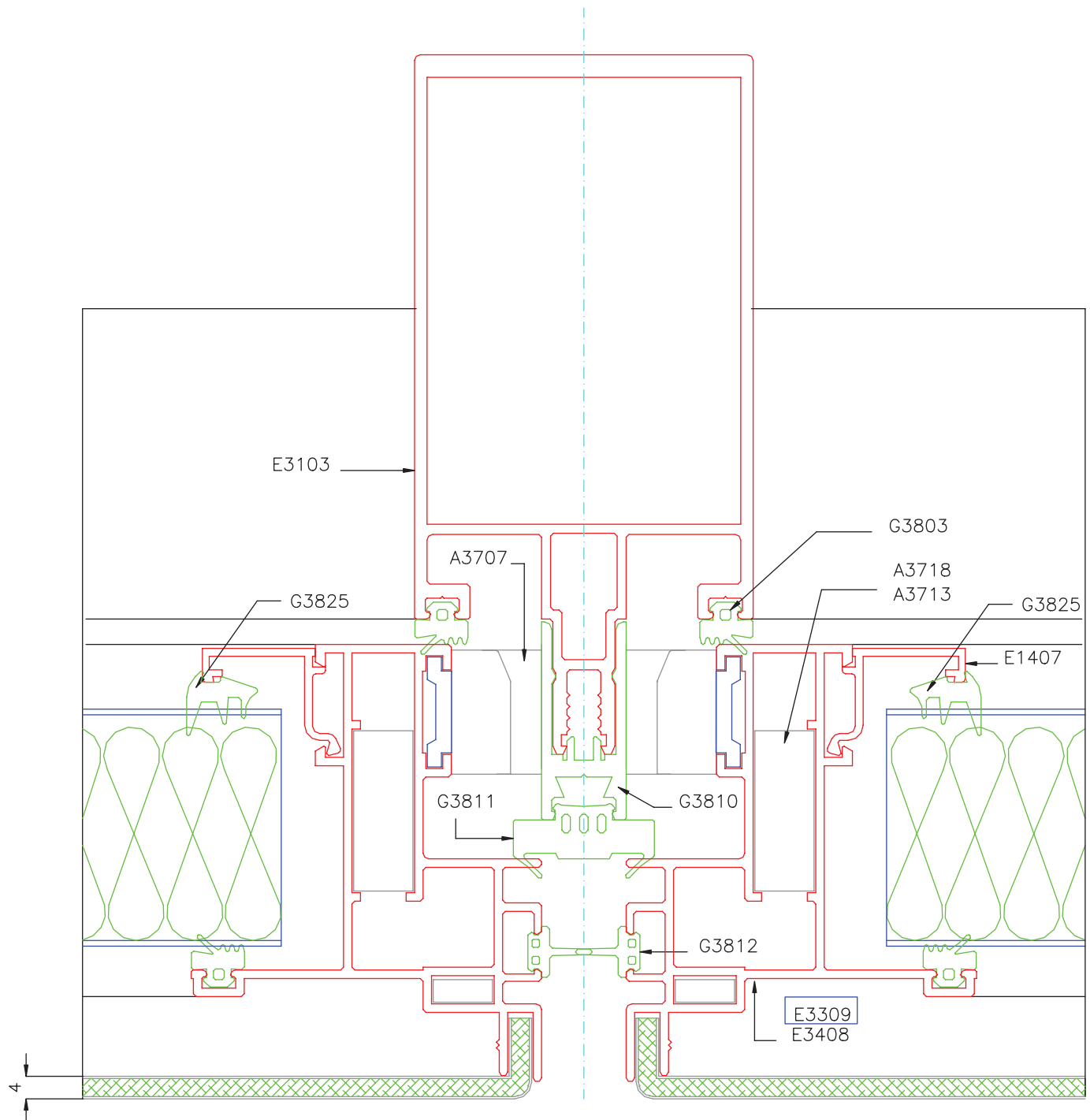
## STRUCTURAL GLAZING THERMAL BREAK VERTICAL SECTION



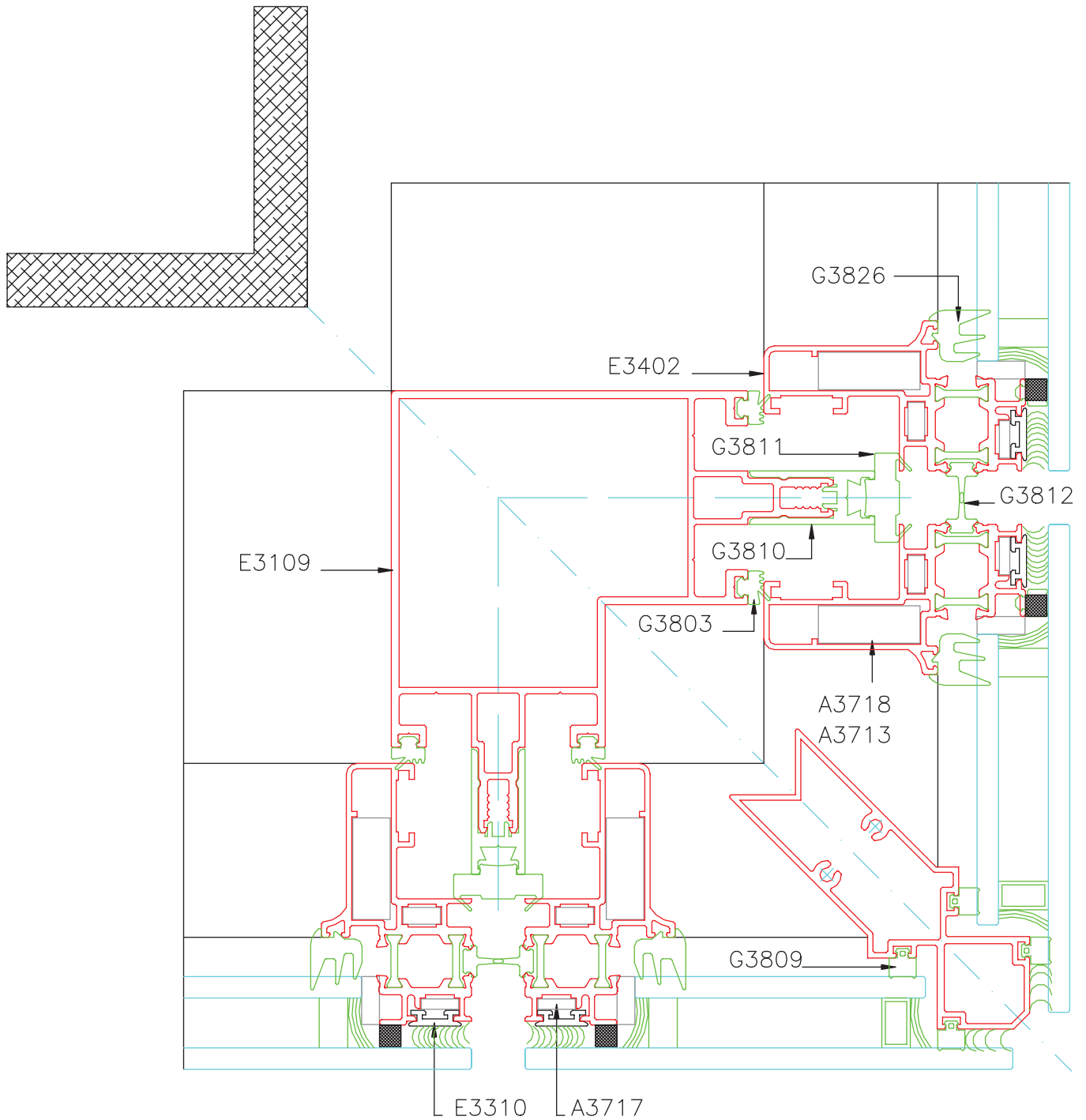
## STRUCTURAL GLAZING HORIZONTAL SECTION FIX ALUMINIUM PANEL THERMAL BREAK



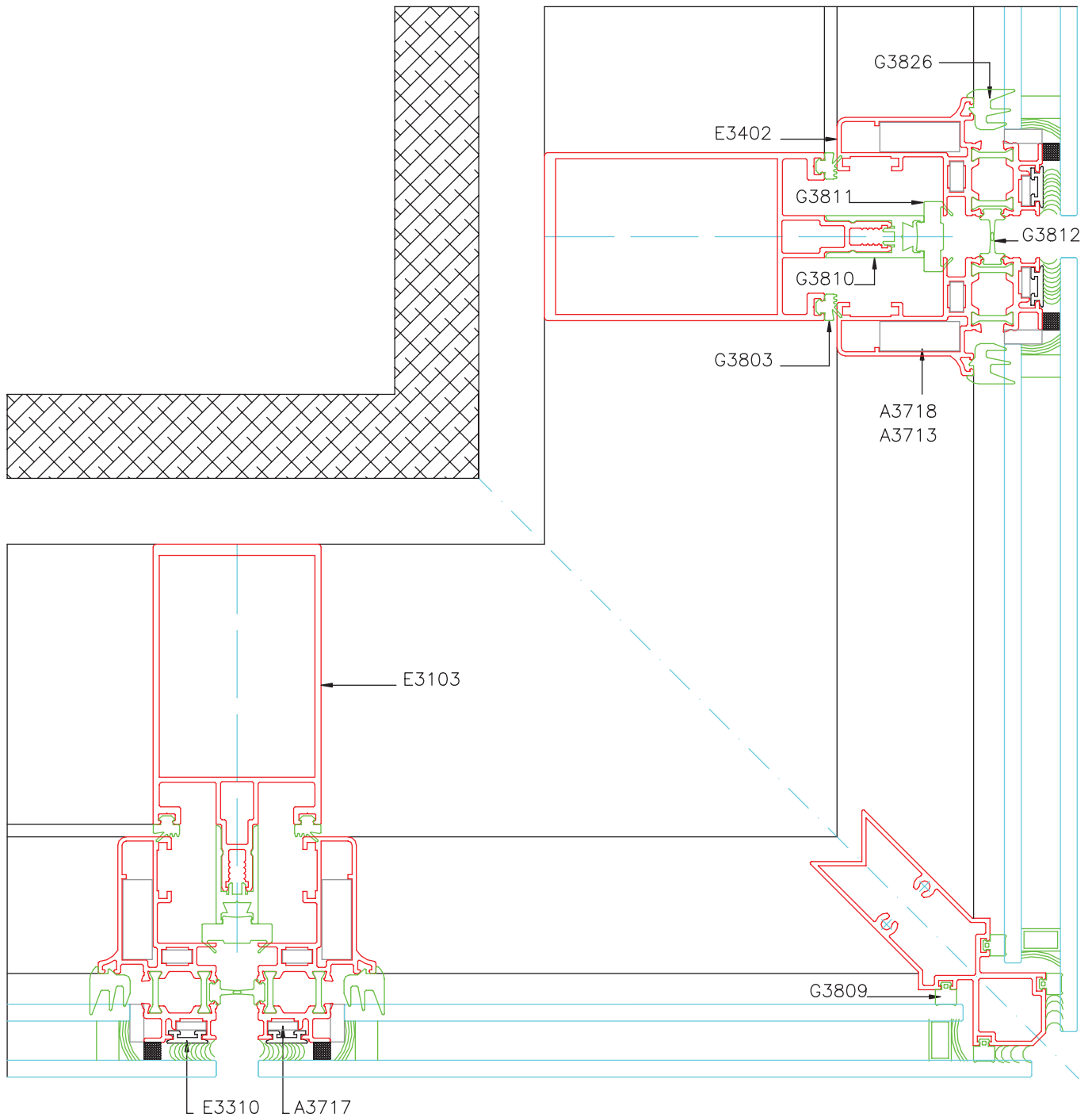
## STRUCTURAL GLAZING HORIZONTAL SECTION FIX ALUMINIUM PANEL



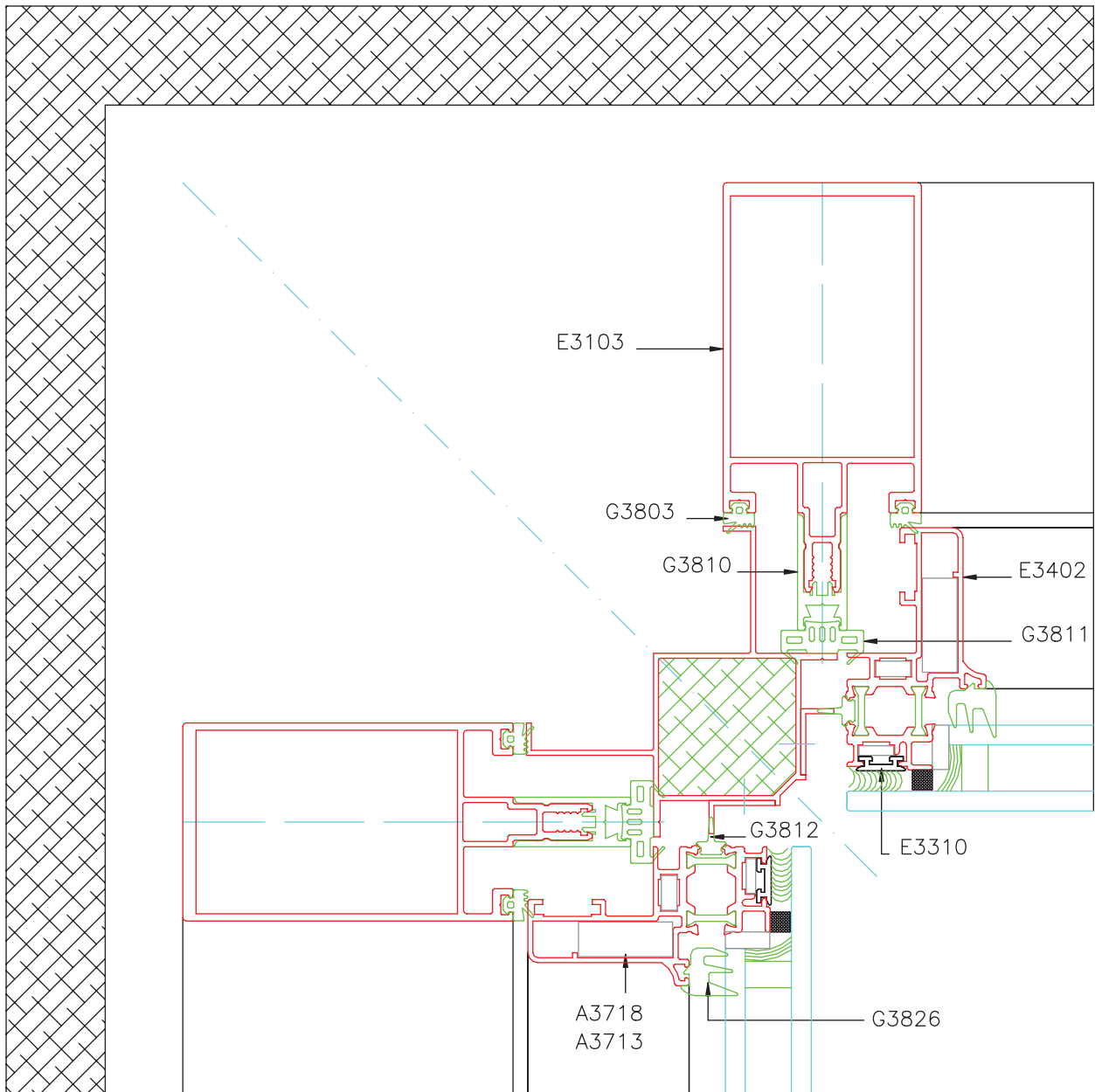
## STRUCTURAL GLAZING HORIZONTAL SECTION EXTERNAL CORNER



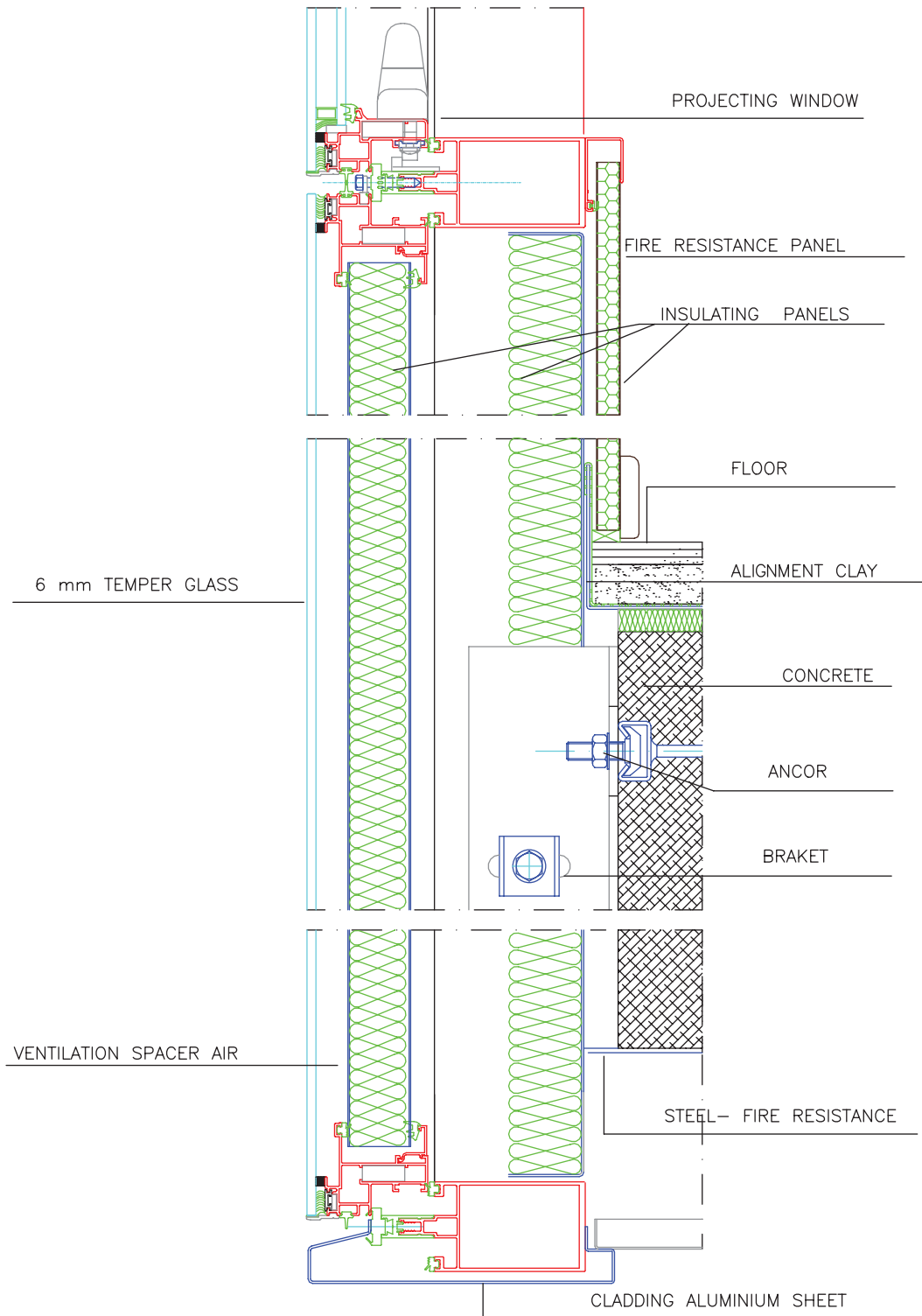
## STRUCTURAL GLAZING HORIZONTAL SECTION EXTERNAL CORNER



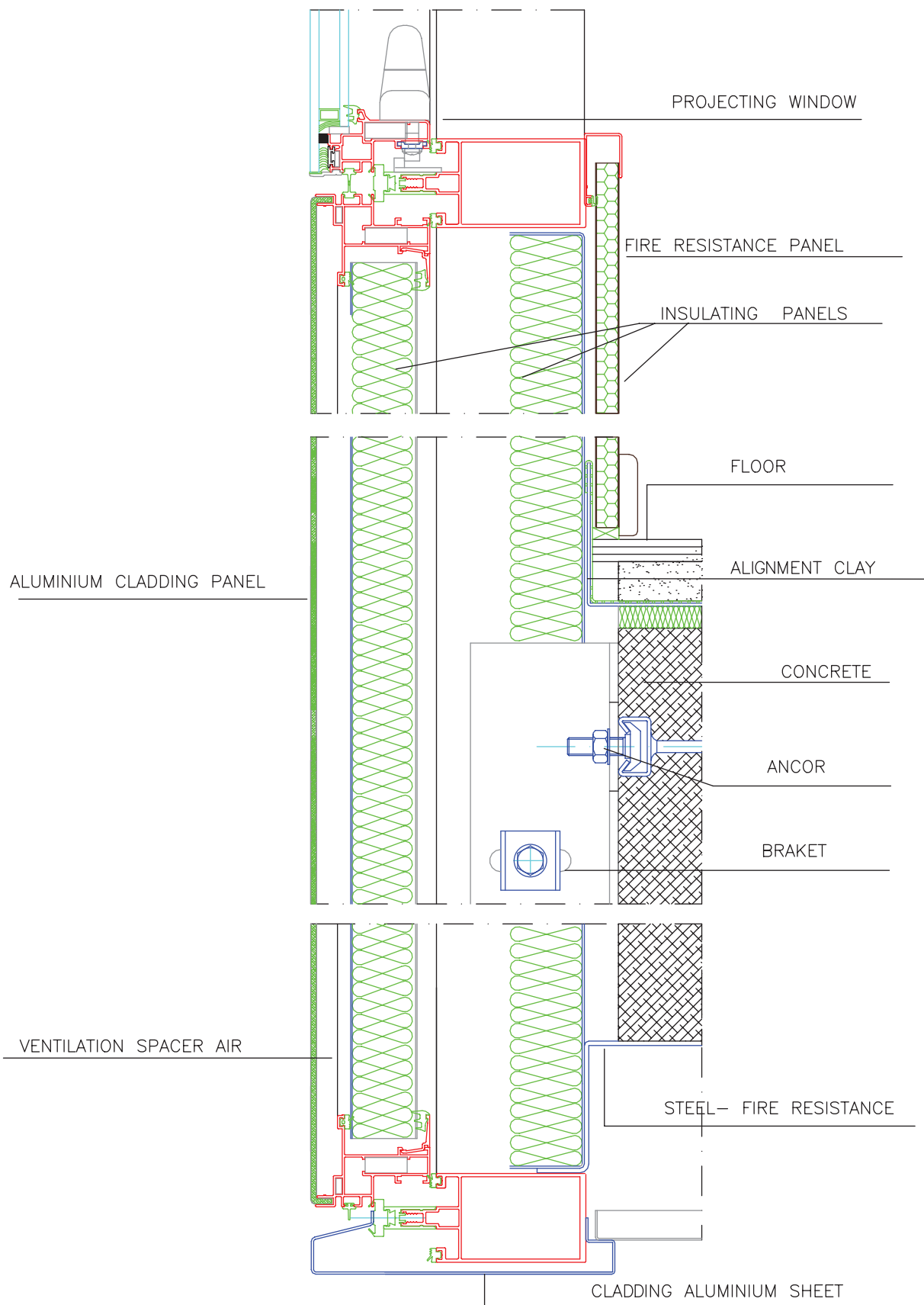
## STRUCTURAL GLAZING HORIZONTAL SECTION INTERNAL CORNER



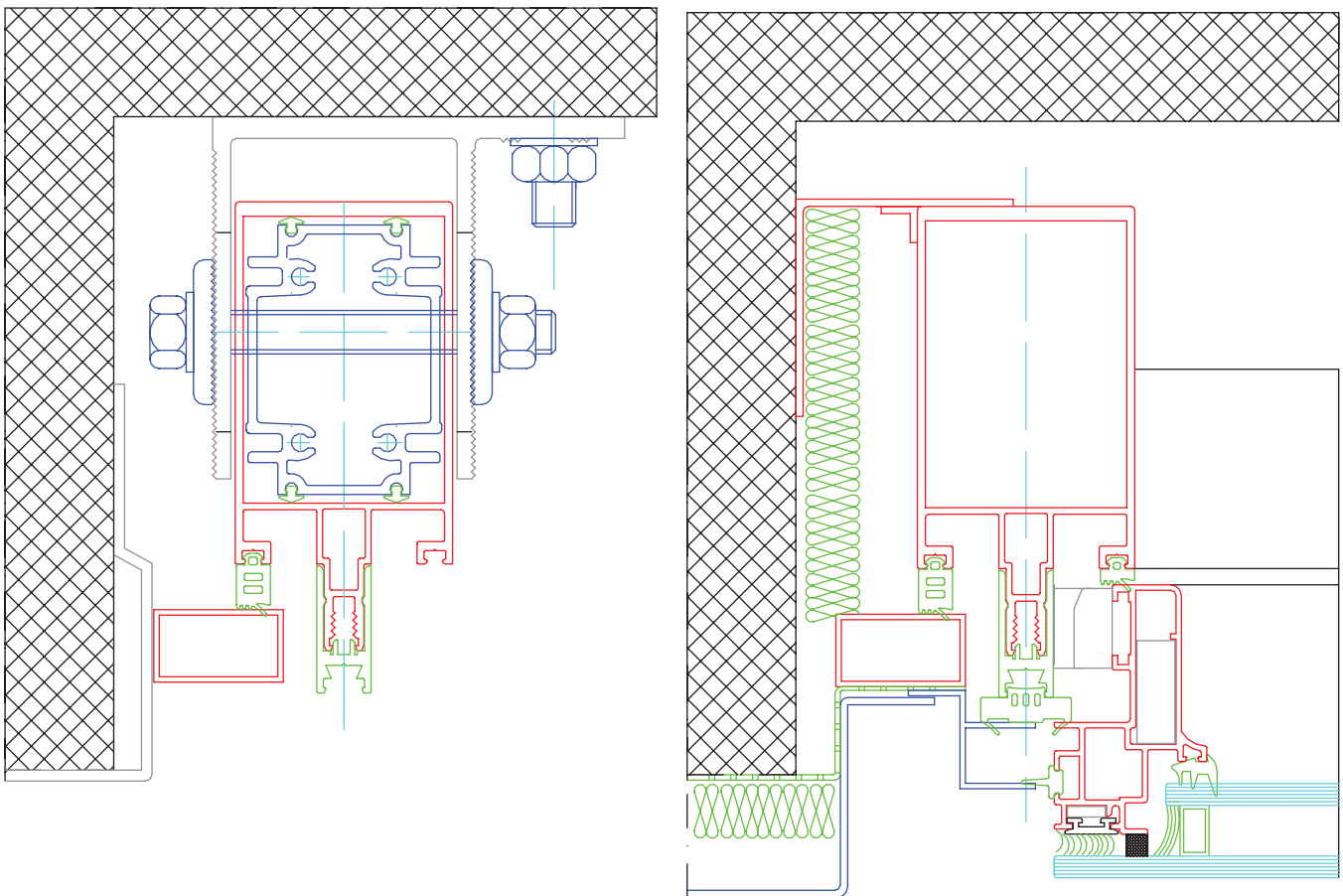
## STRUCTURAL GLAZING SECTION ON SILL WITH GLASS PANEL



## STRUCTURAL GLAZING SECTION ON SILL WITH ALUMINIUM PANEL

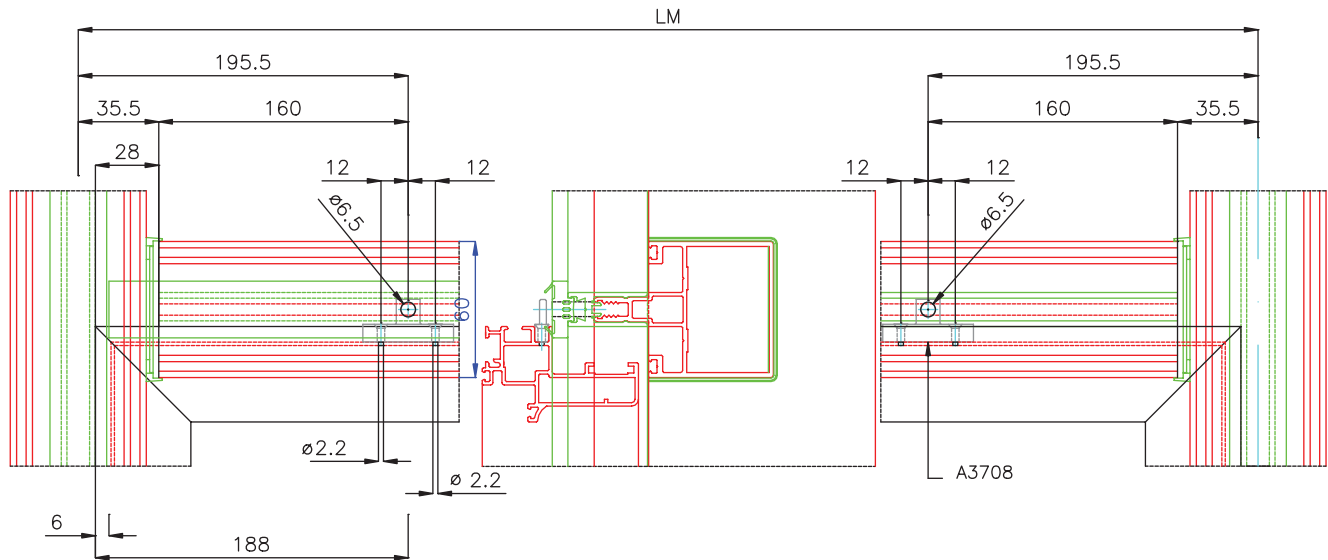


## STRUCTURAL GLAZING HORIZONTAL SECTION FIX BRACKET ON THE WALL

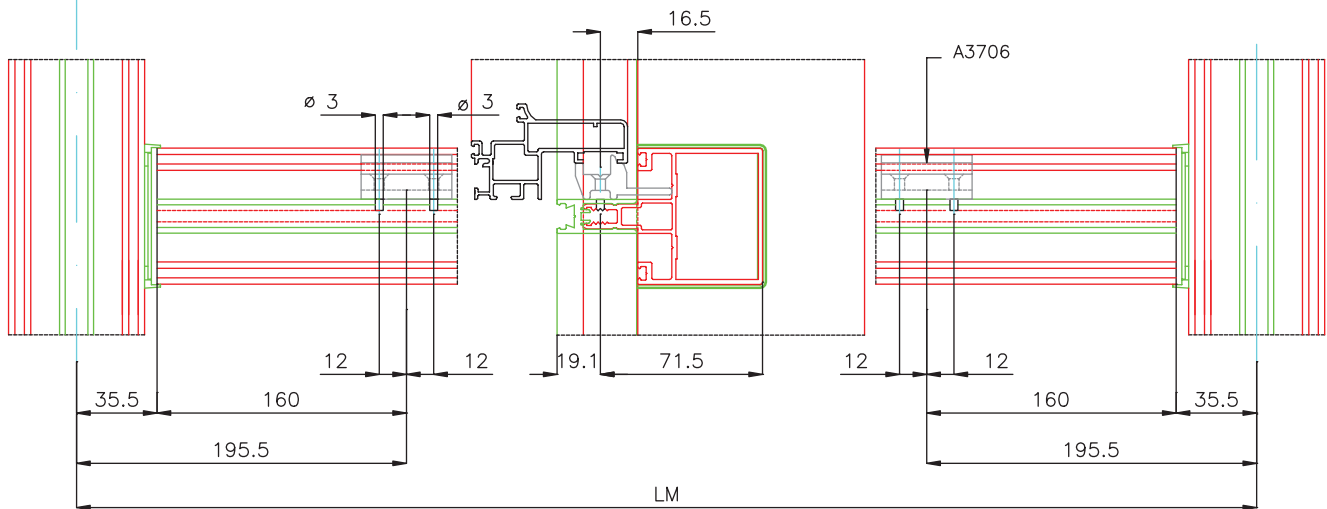


STRUCTURAL GLAZING  
T3903-04-08 TOOL FIX ELEMENTS A3706-A3708-A3712

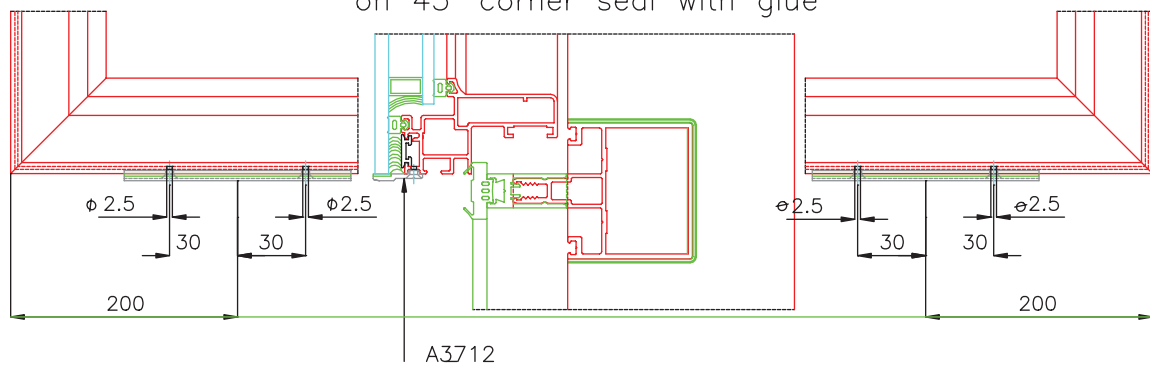
T3903 FIX UPPER PART



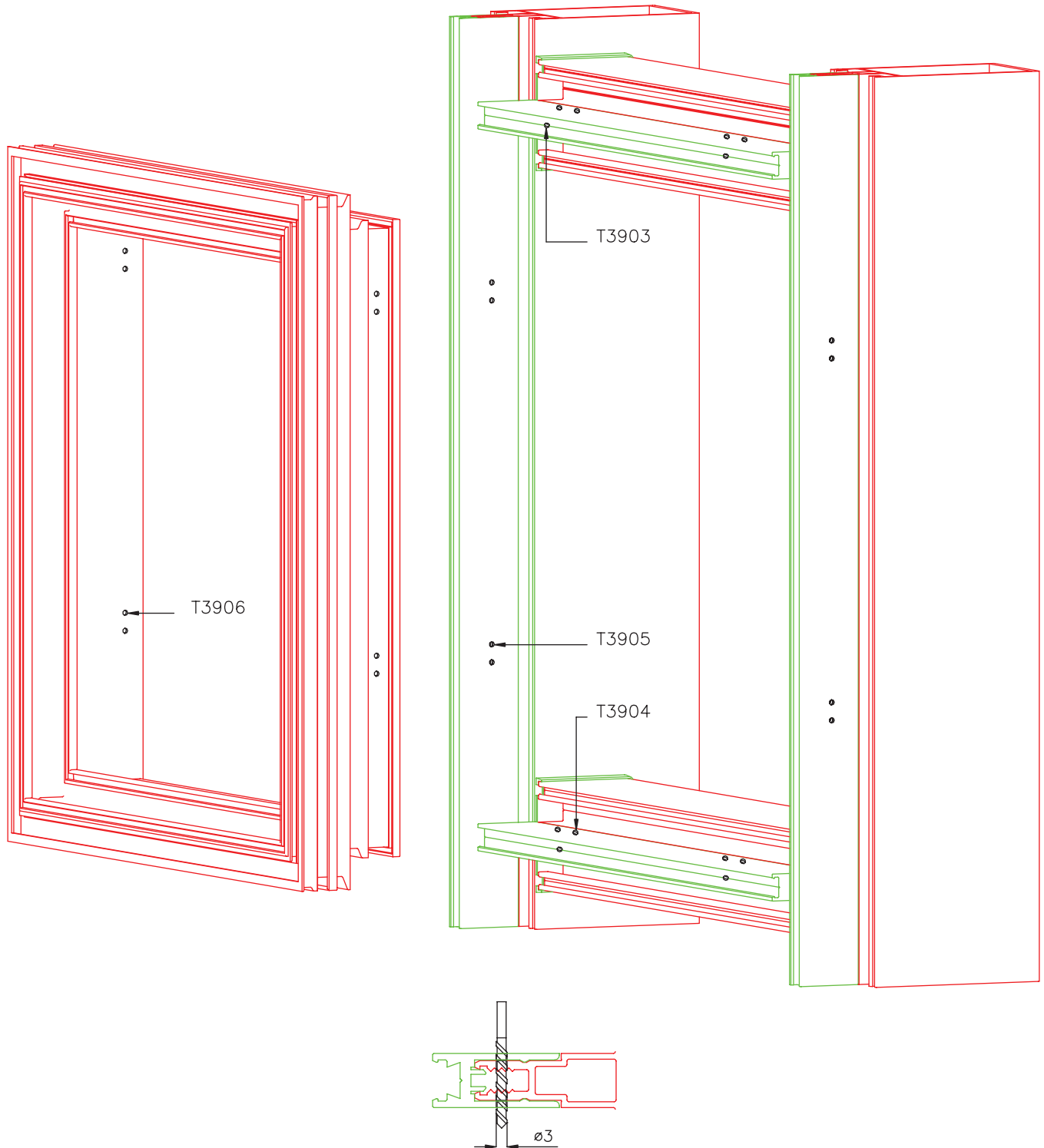
T3904FIX LOWER PART



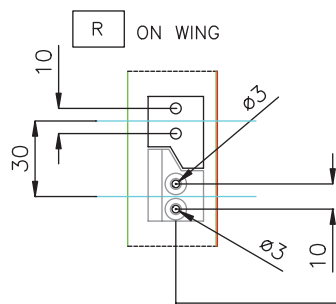
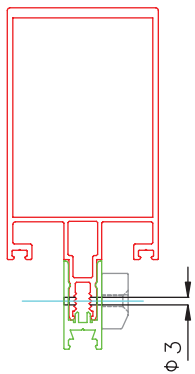
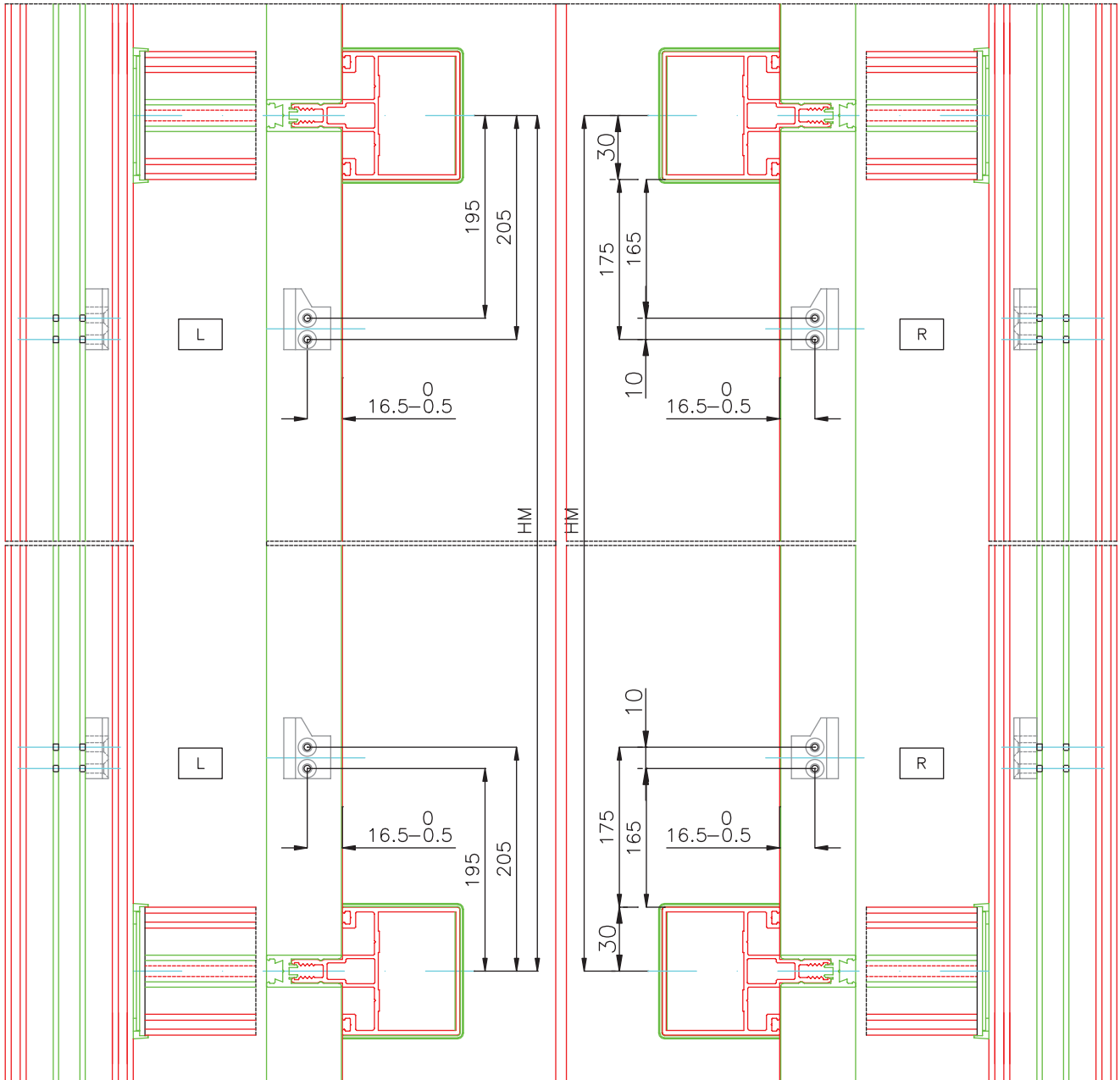
T3908 TOOLING SUPPORT GLASS  
on 45° corner seal with glue



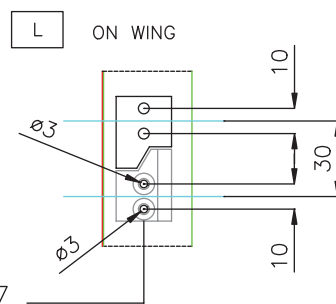
## STRUCTURAL GLAZING VIEW TOOLINGS MULLION AND WING



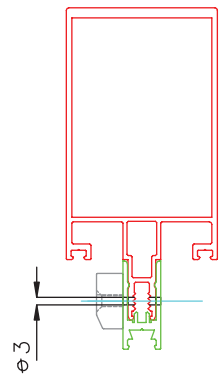
## STRUCTURAL GLAZING T3905 TOOLING FIX ELEMENTS ON MULLION A3707



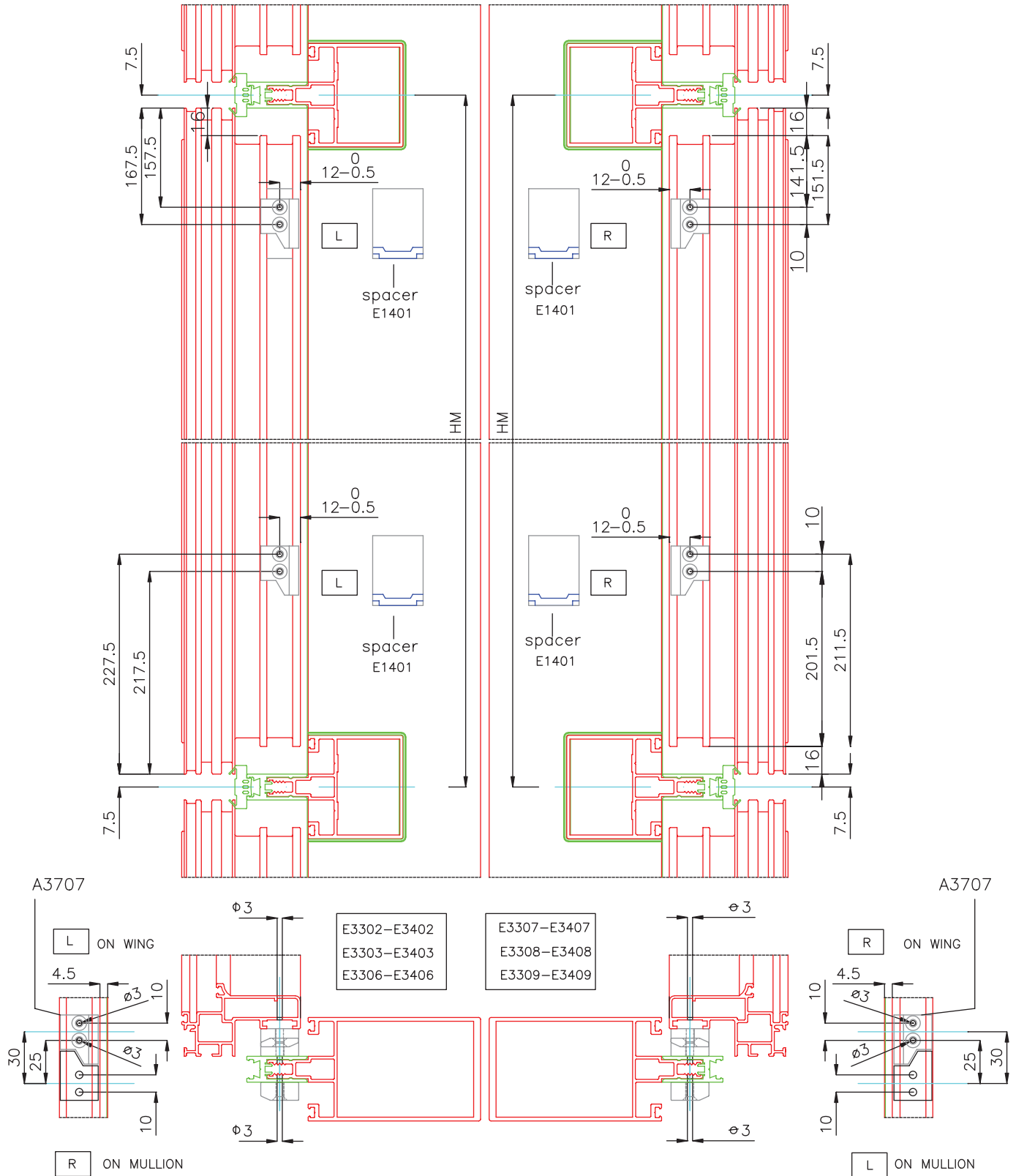
L ON MULLION



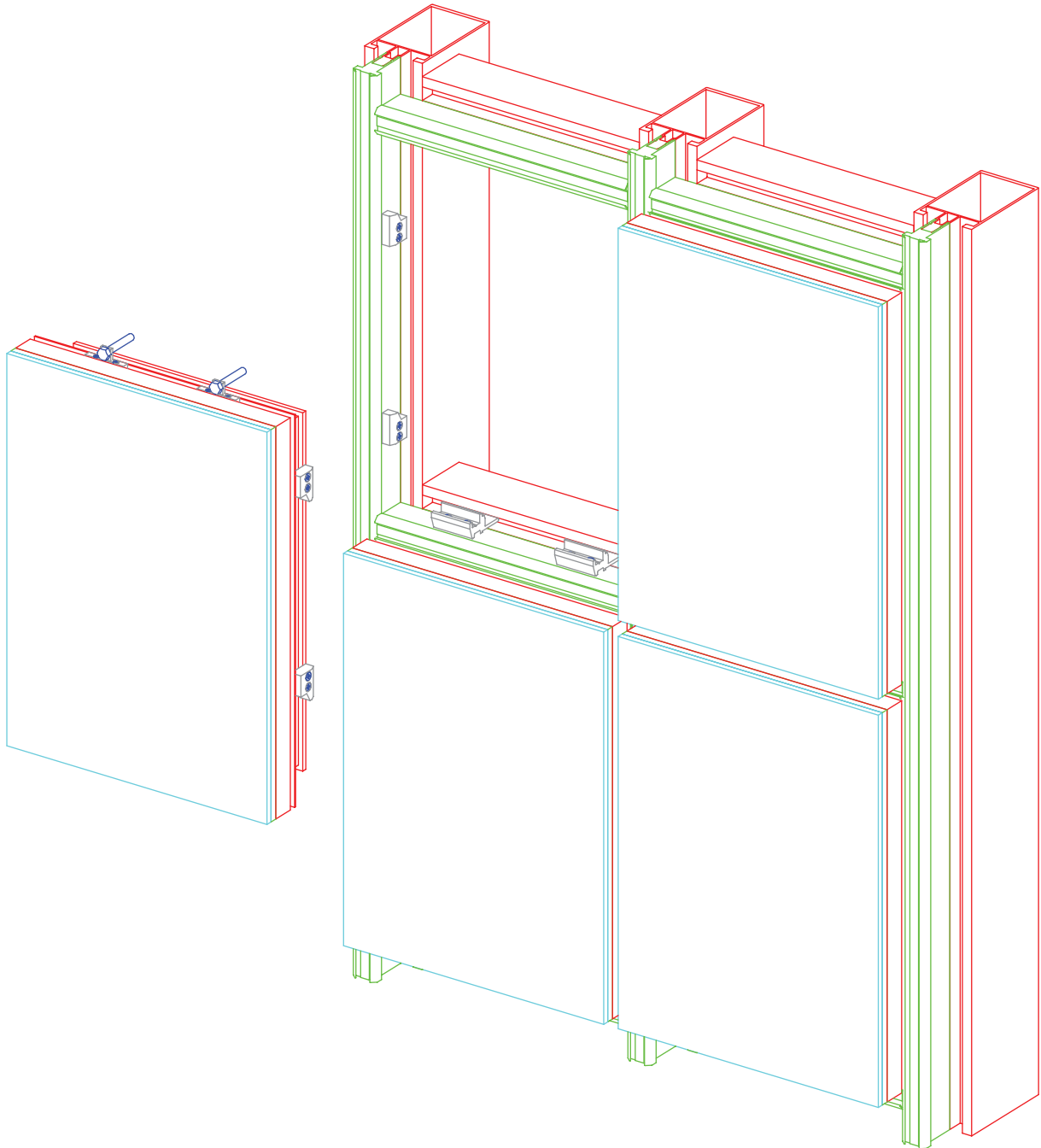
R ON MULLION



## STRUCTURAL GLAZING T3906 TOOLING FIX ELEMENTS ON WING A3707



## STRUCTURAL GLAZING SCHEME MOUNTING ELEMENTS

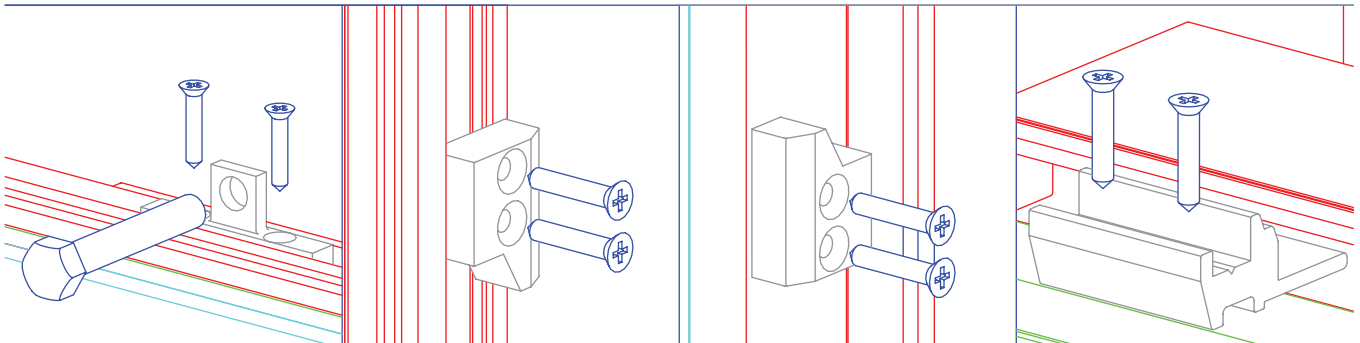


A3708

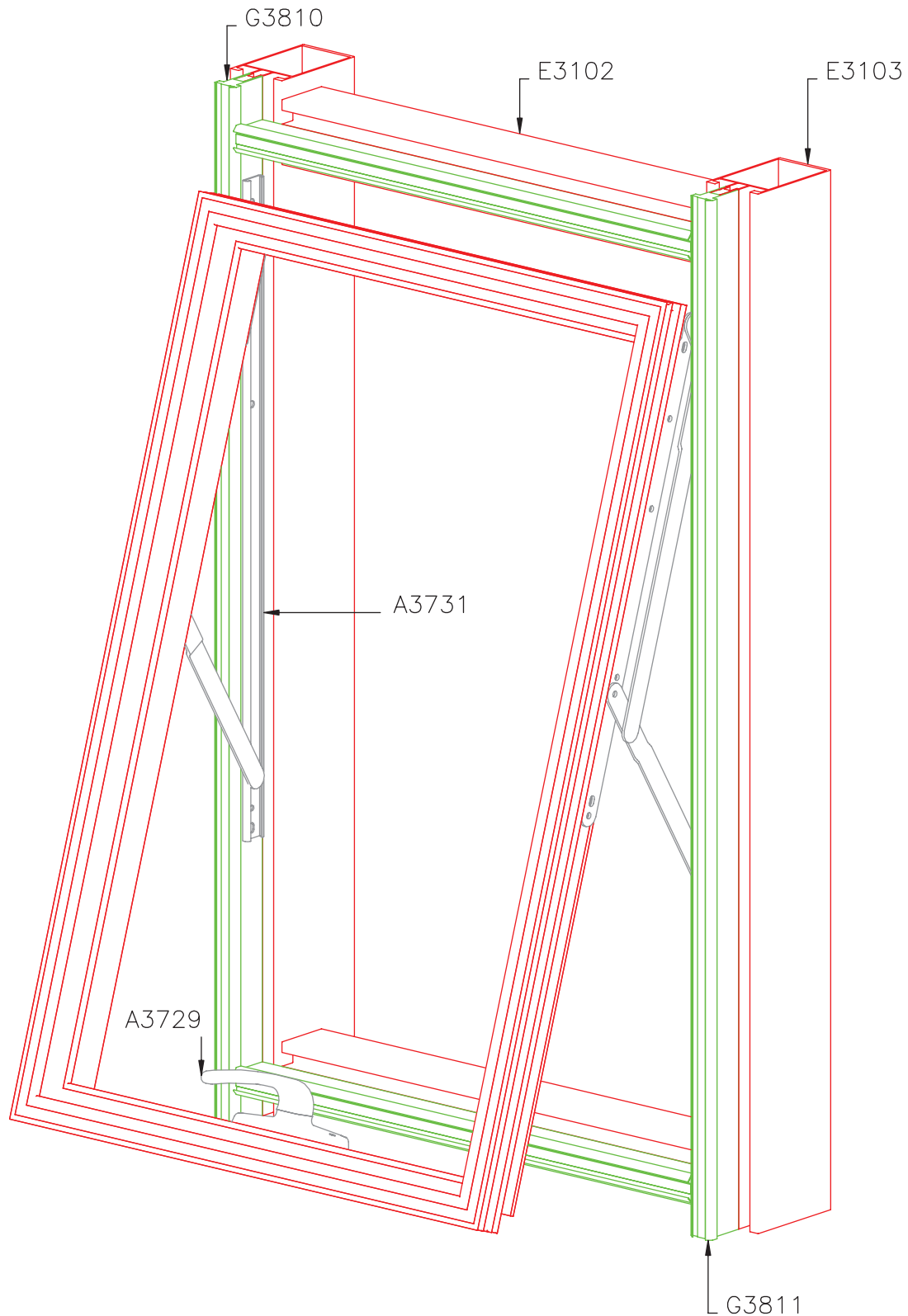
A3707

A3707

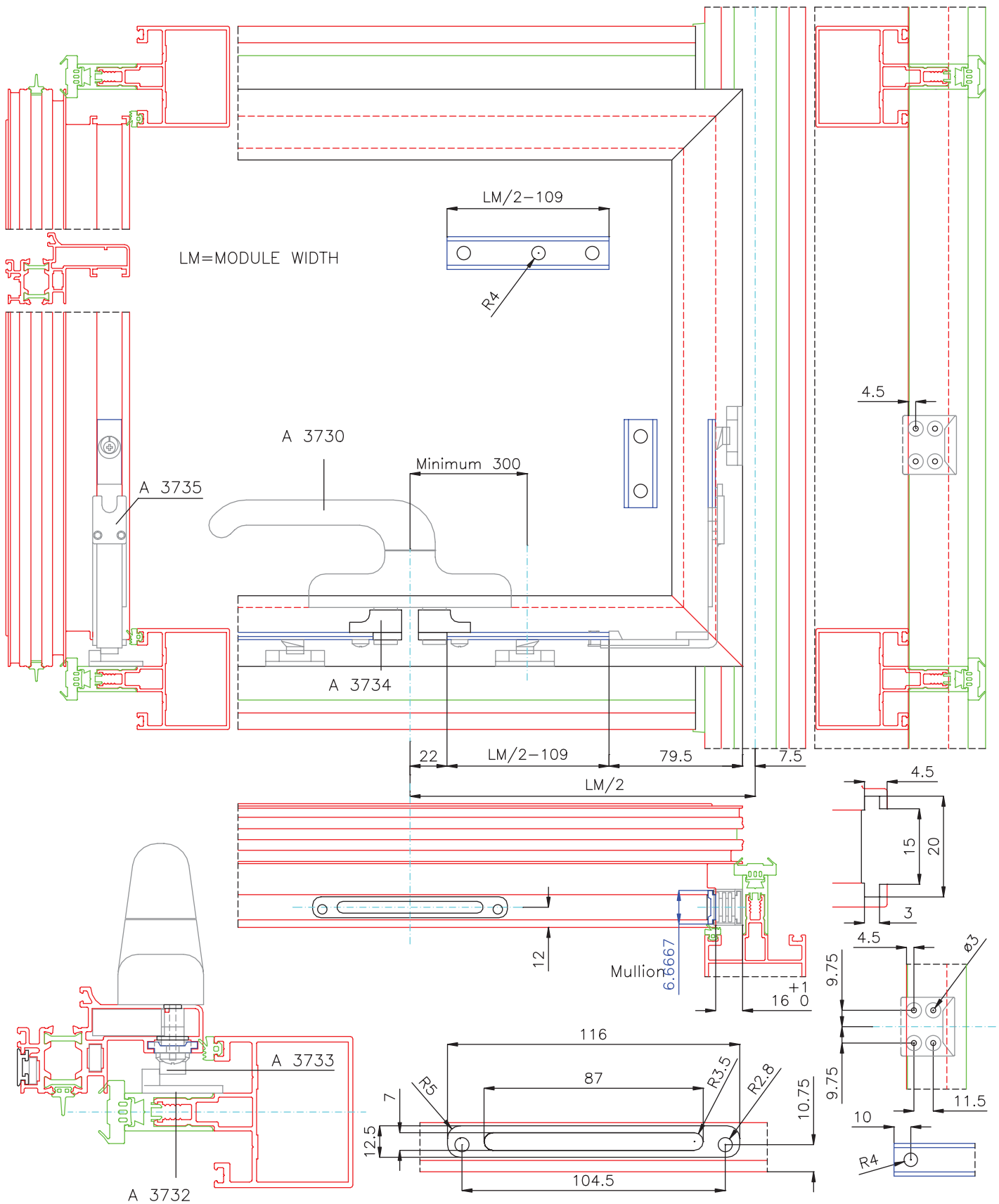
A3706



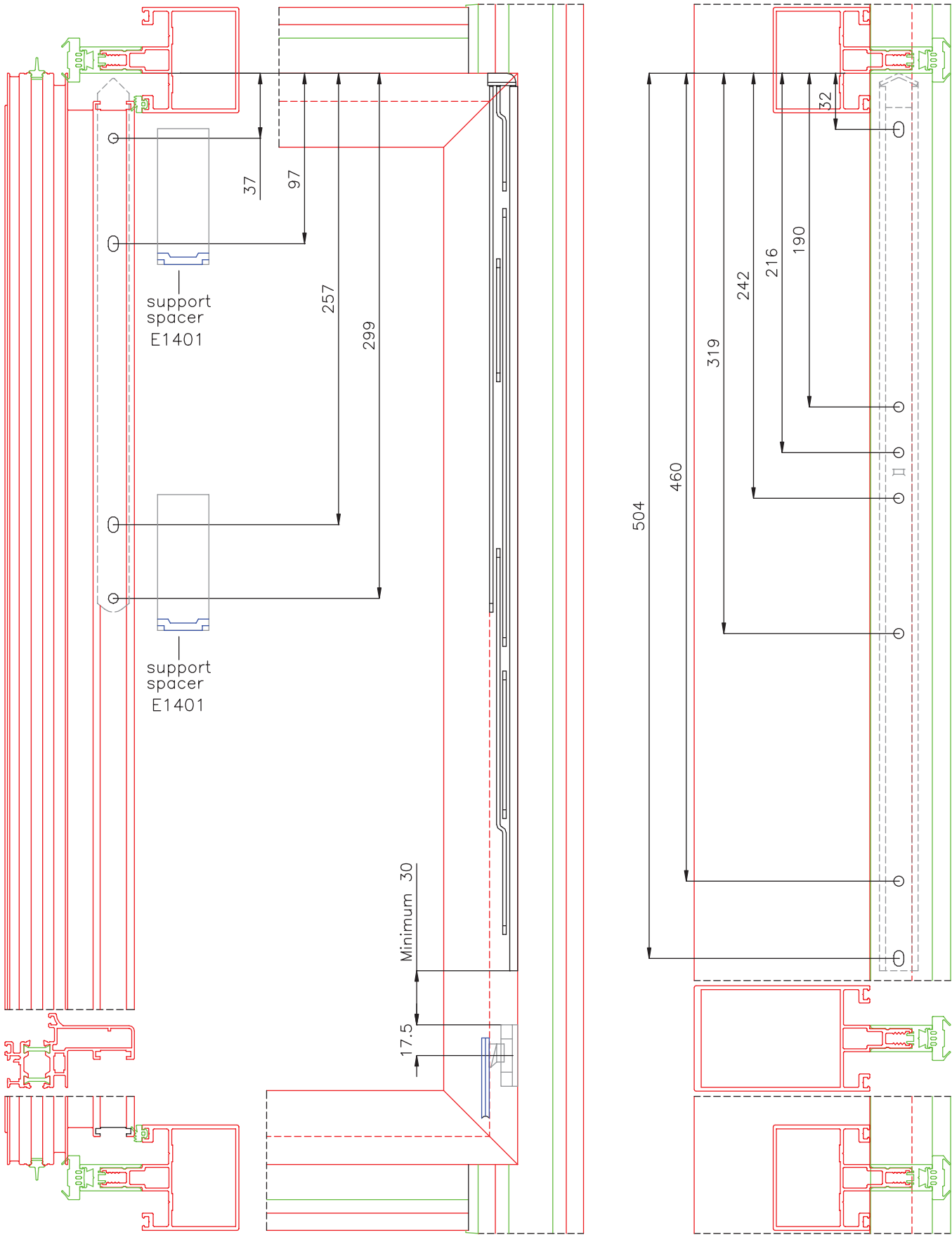
## STRUCTURAL GLAZING MOUNTING PROJECT WINDOW



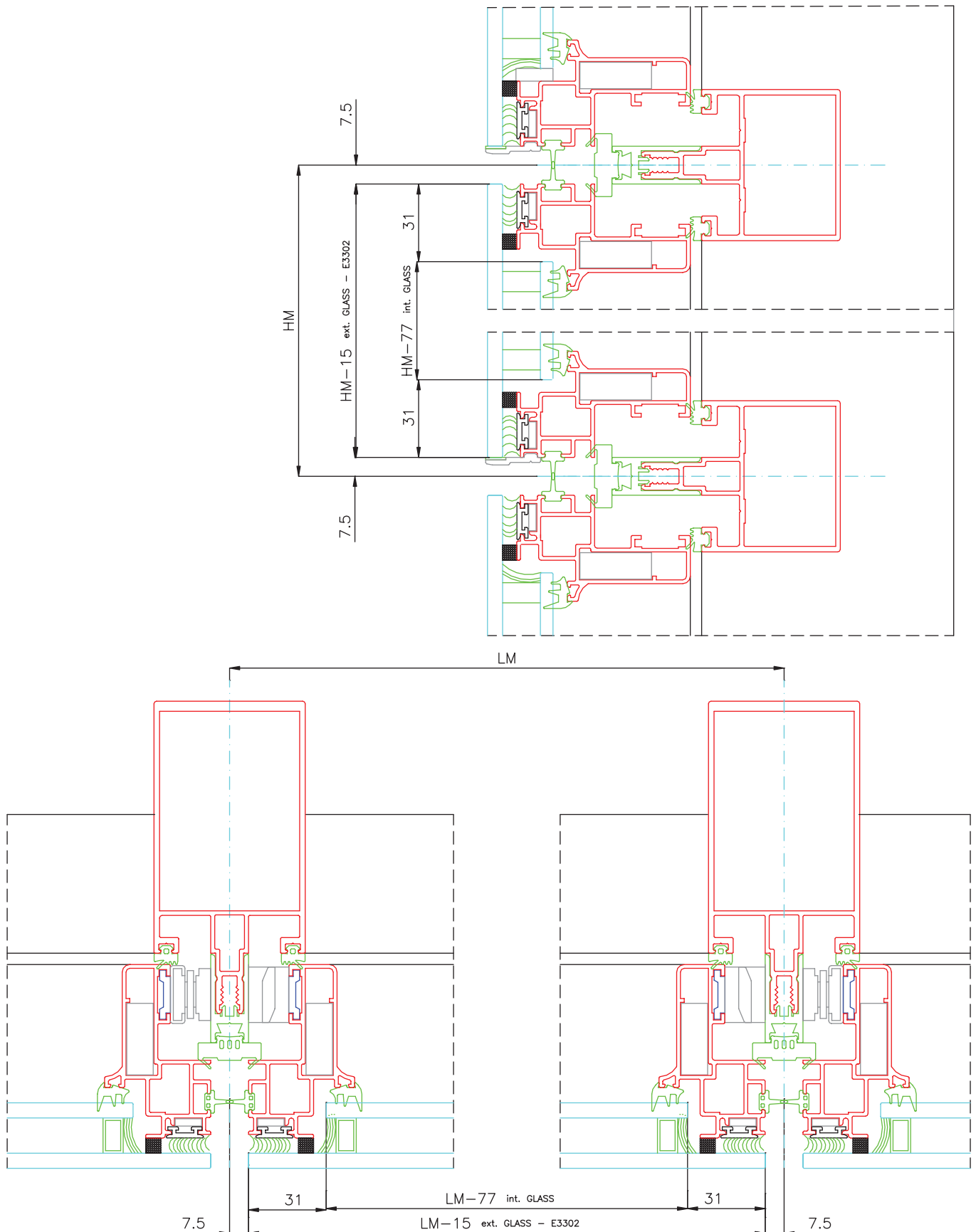
## STRUCTURAL GLAZING TOOL HANDLE



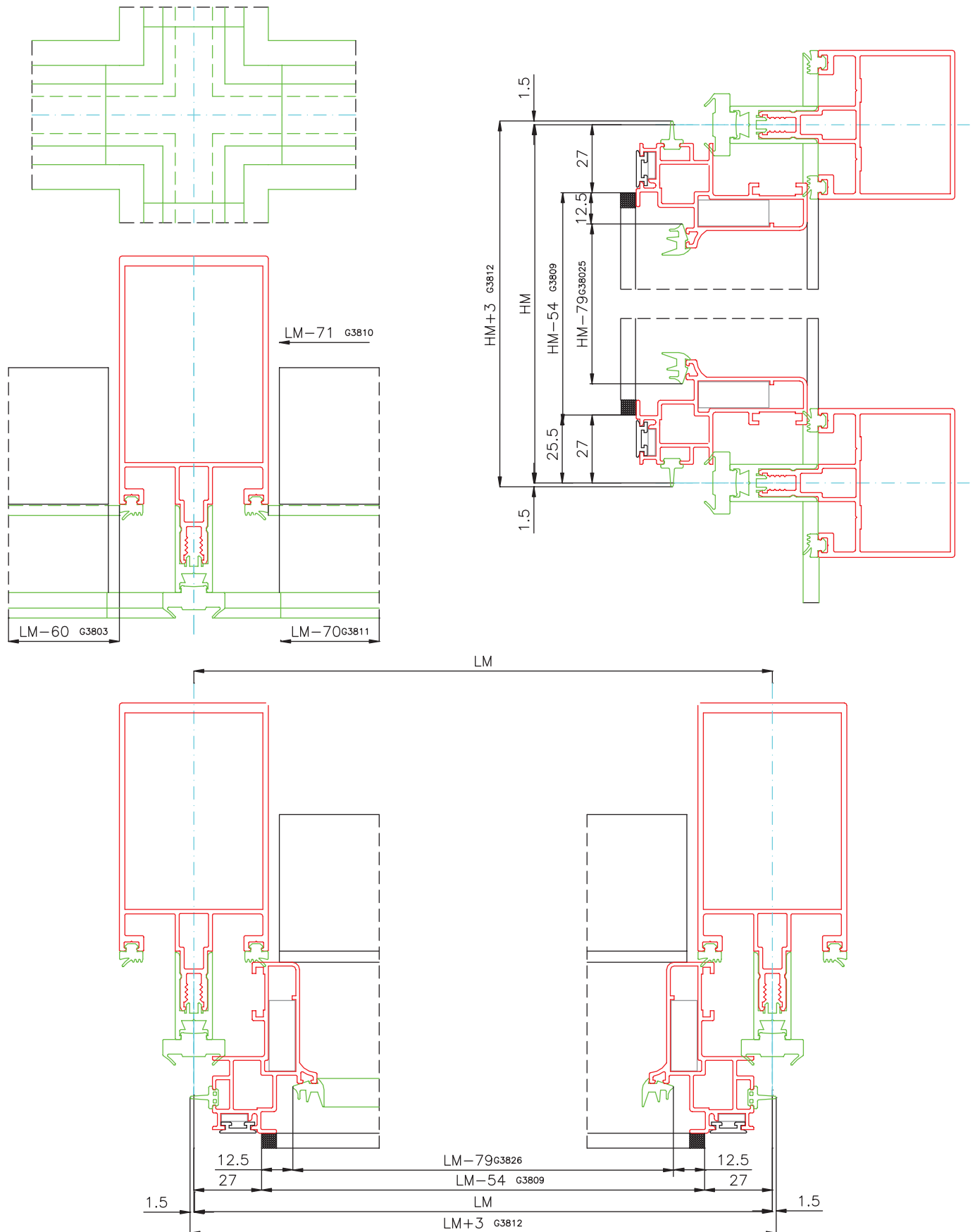
STRUCTURAL GLAZING  
TOOL FRICTION HINGES A 3731



## STRUCTURAL GLAZING PREPARATION OF ELEMENTS

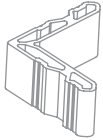


## STRUCTURAL GLAZING PREPARATION OF GASKETS

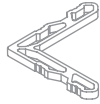


## STRUCTURAL GLAZING TOOL CORNER

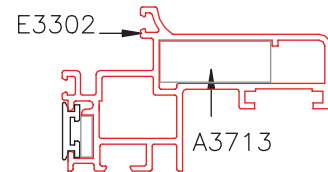
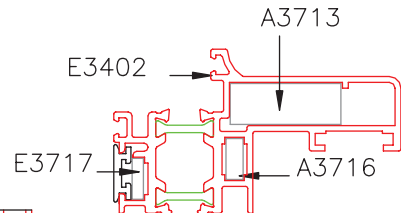
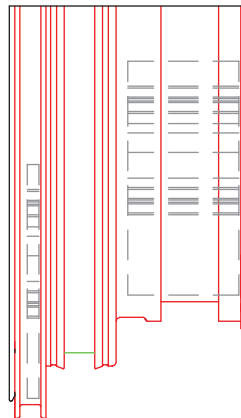
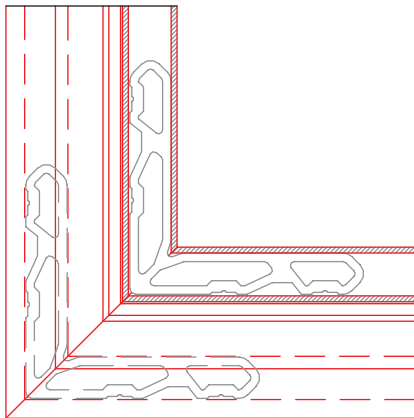
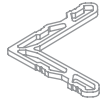
A3713



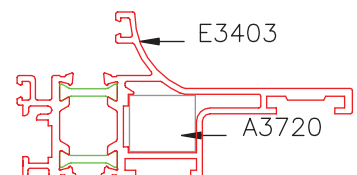
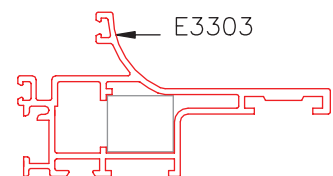
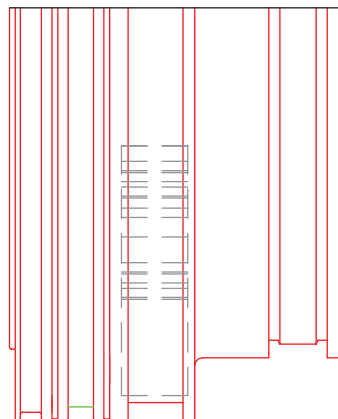
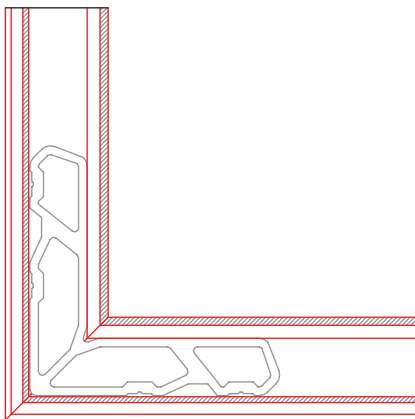
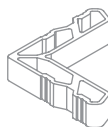
A3716

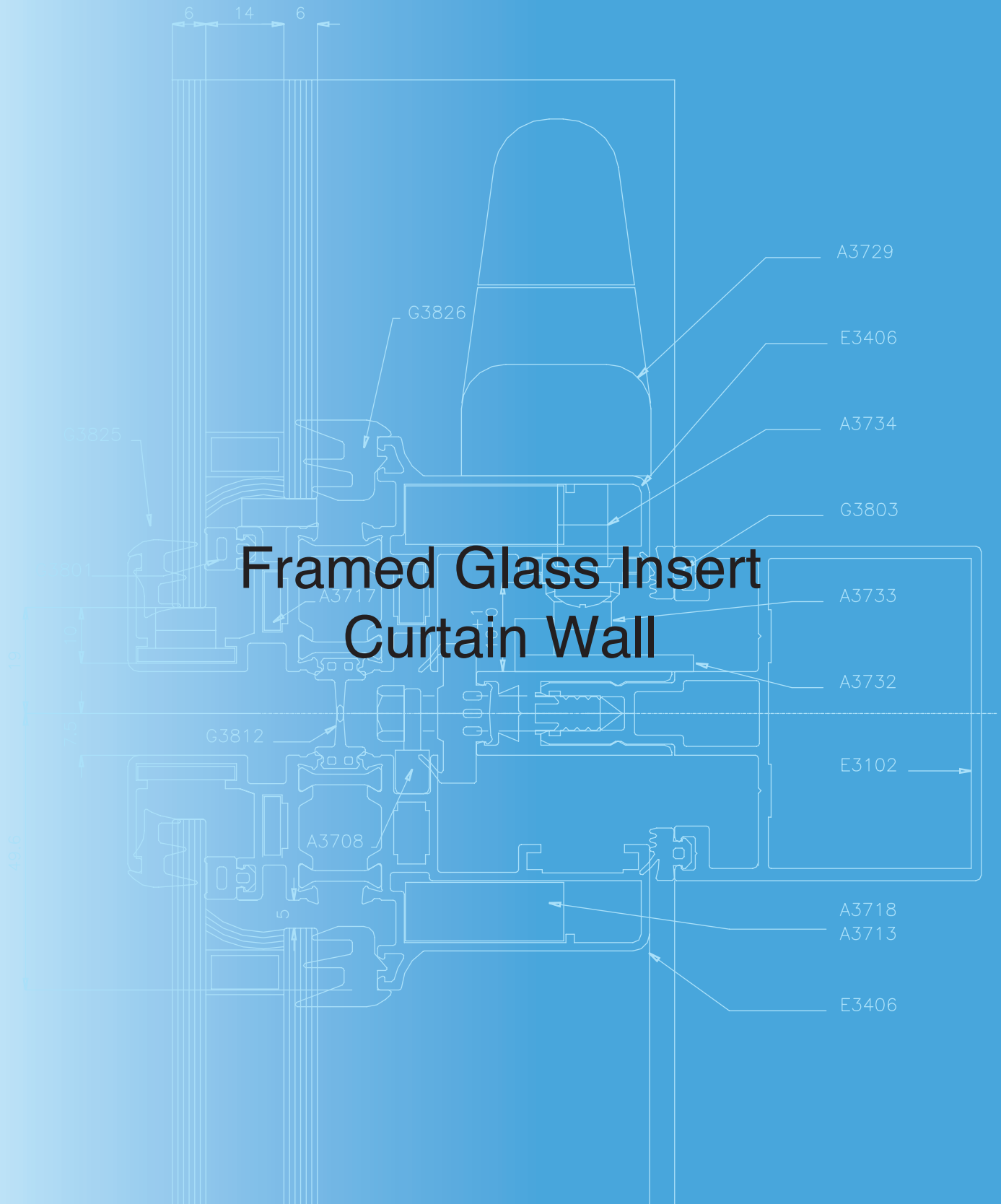


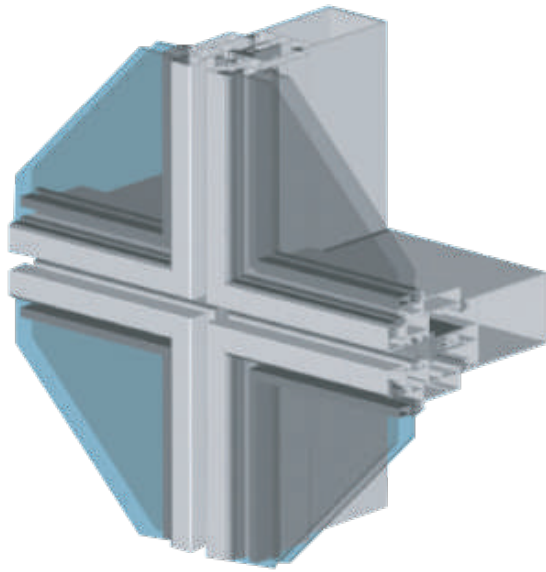
A3717 FIX WITH GLUE



A3720

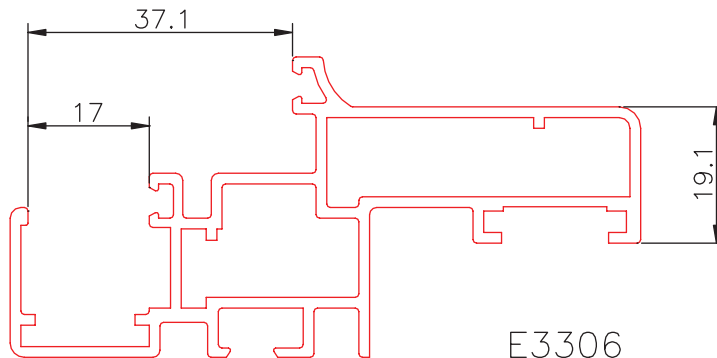




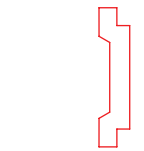


Framed Glass Insert Curtain Wall

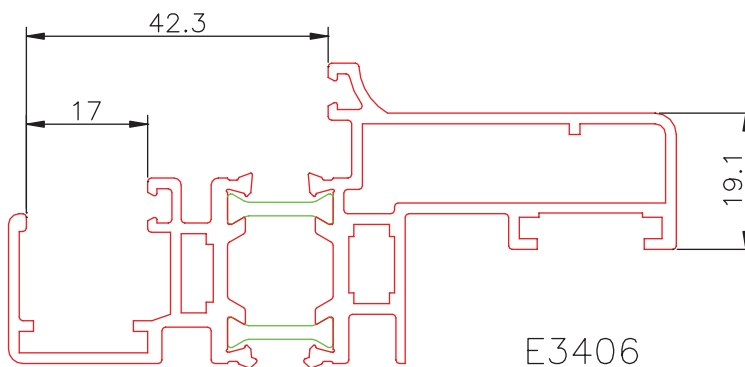
## FRAMED GLASS INSERT PROFILES



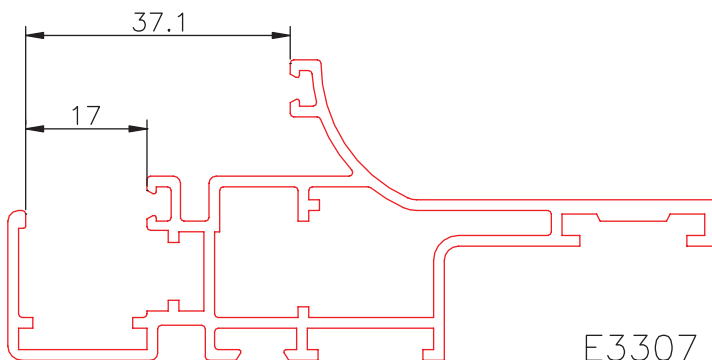
E3306  
g/m 1304



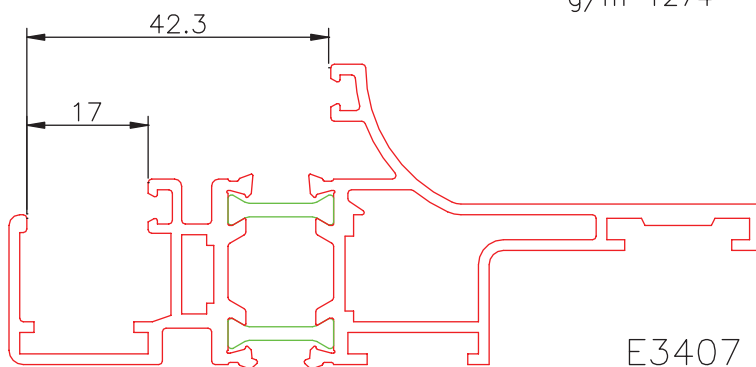
E1401  
g/m 148



E3406  
g/m 1529

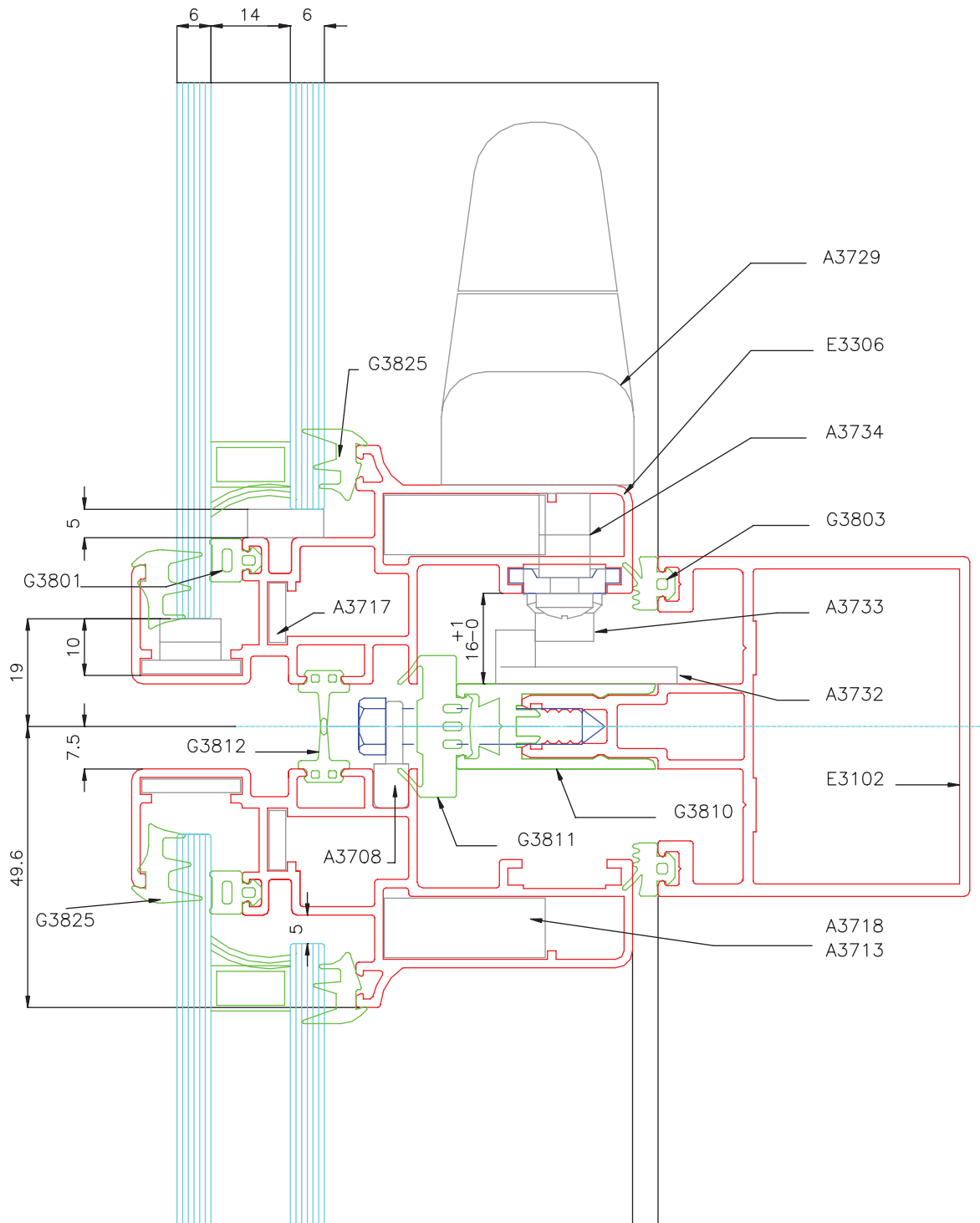


E3307  
g/m 1274

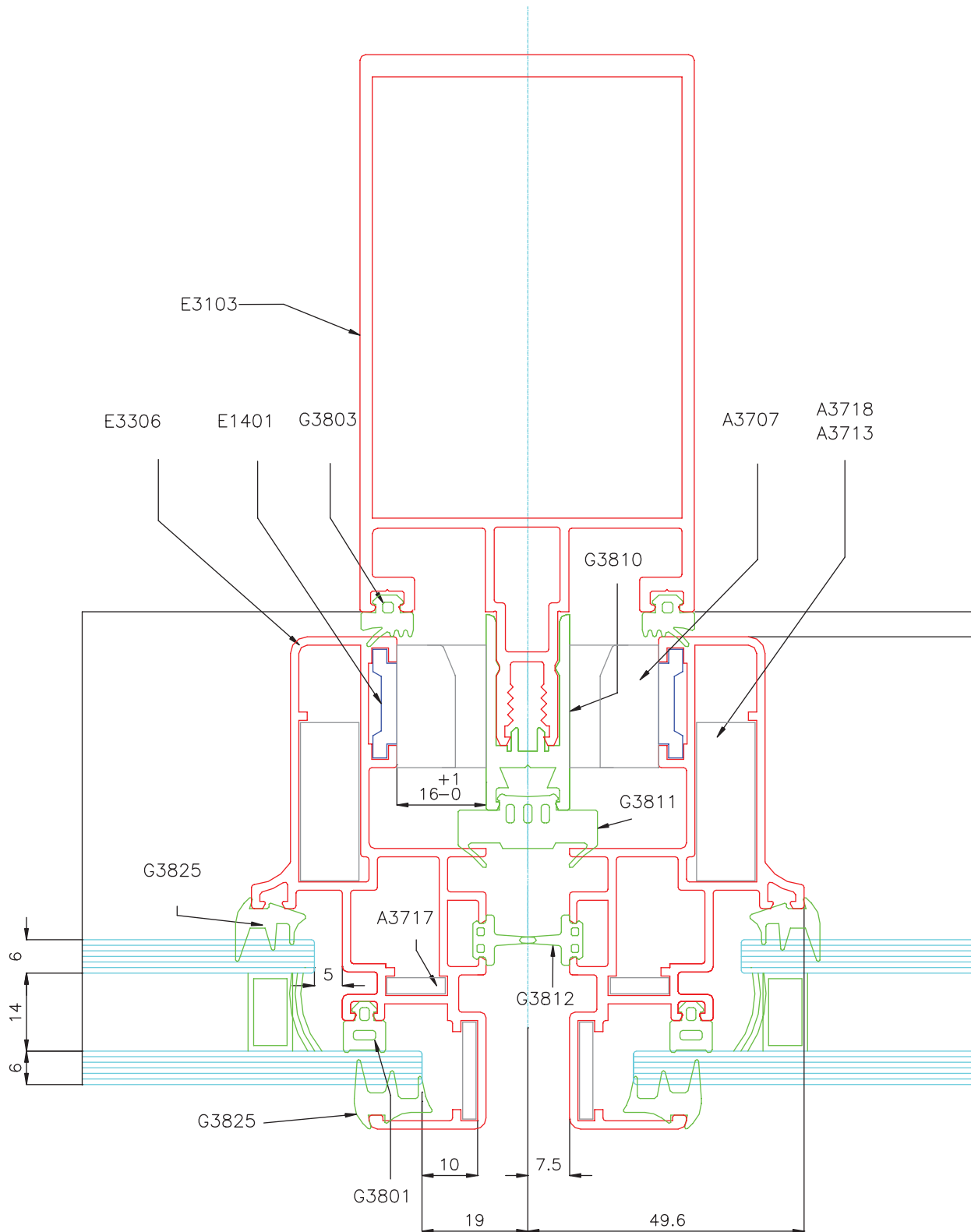


E3407  
g/m 1504

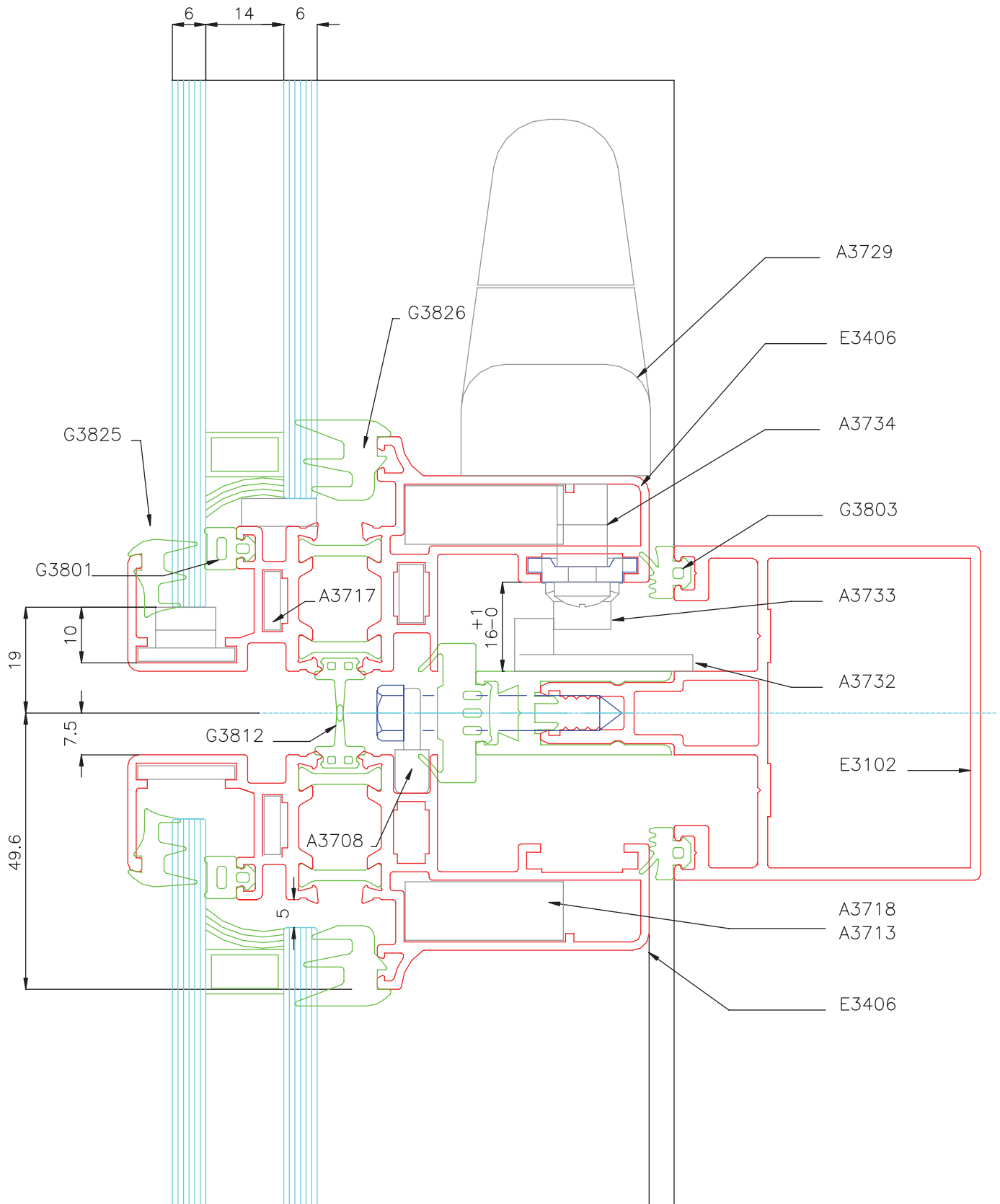
## FRAMED GLASS INSERT VERTICAL SECTION



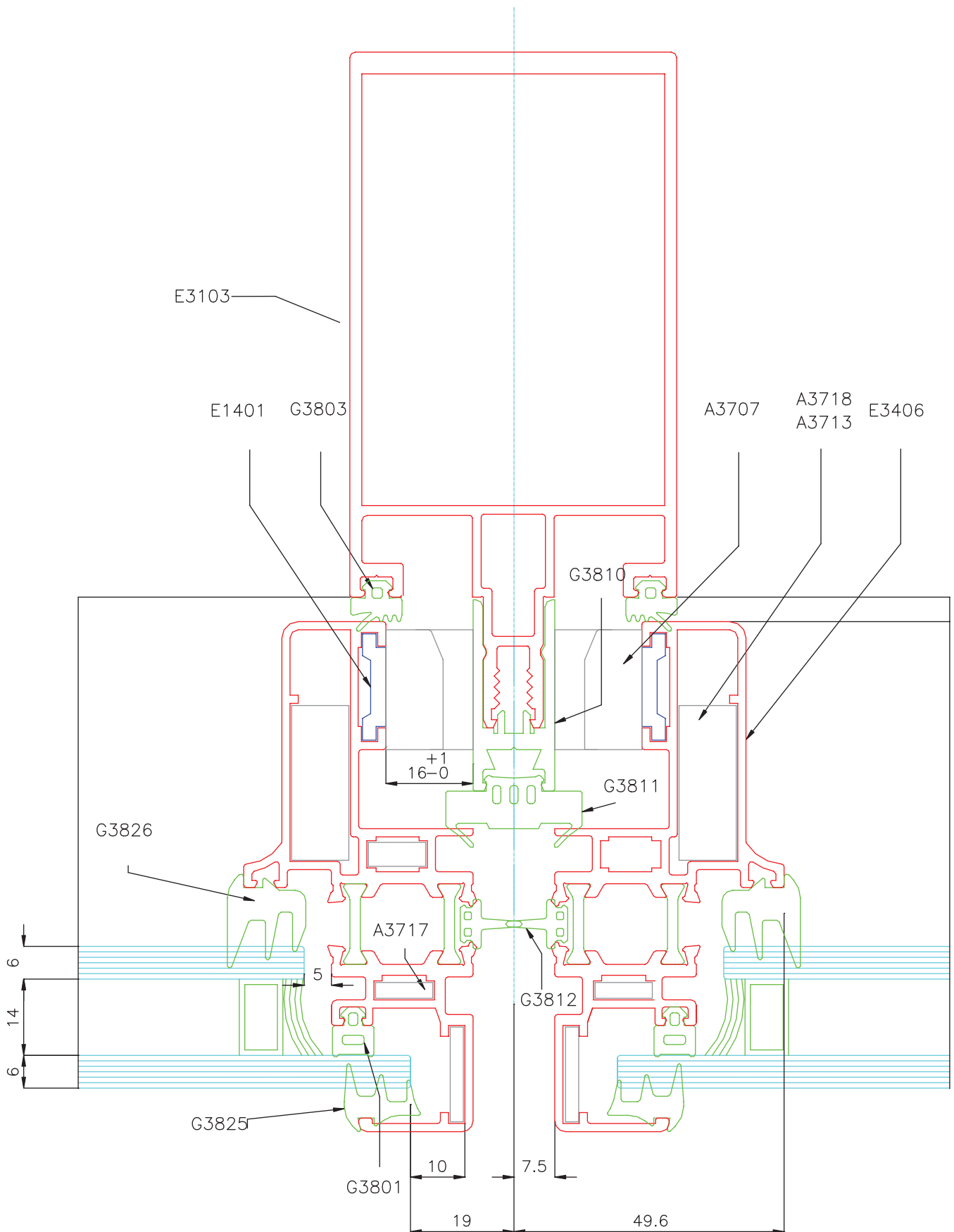
## FRAMED GLASS INSERT HORIZONTAL SECTION



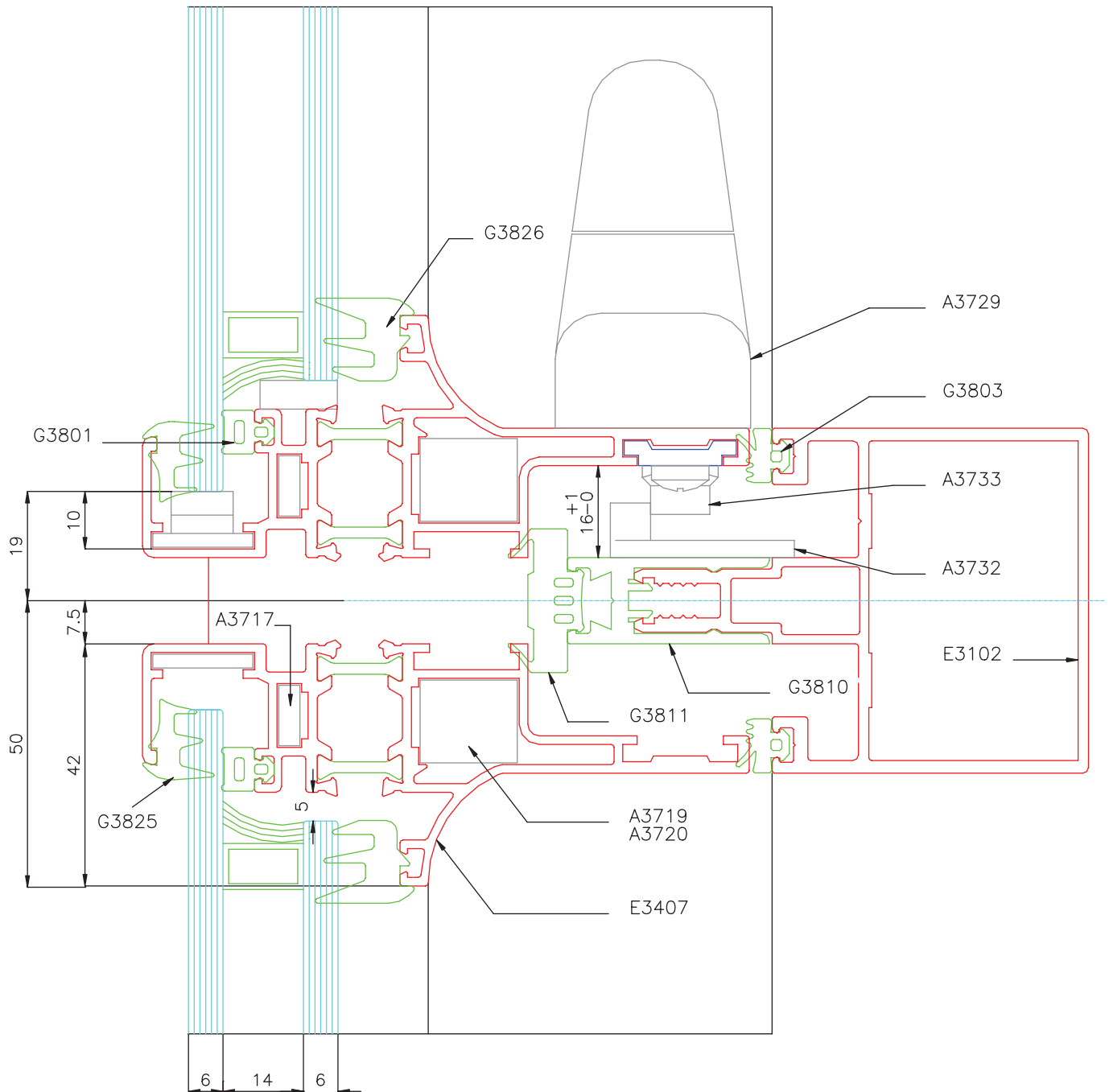
## FRAMED GLASS INSERT VERTICAL SECTION THERMAL BREAK



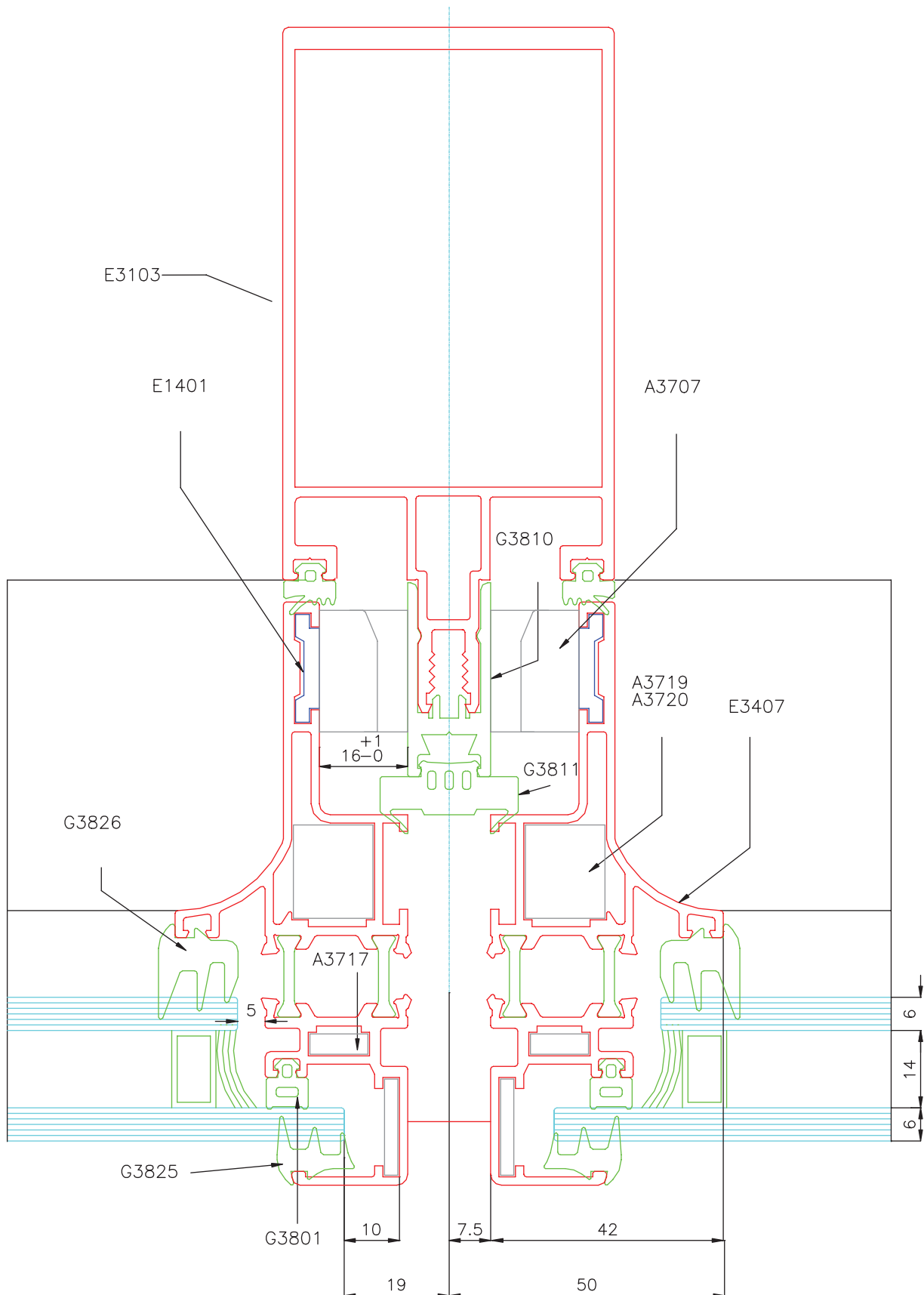
## FRAMED GLASS INSERT HORIZONTAL SECTION THERMAL BREAK



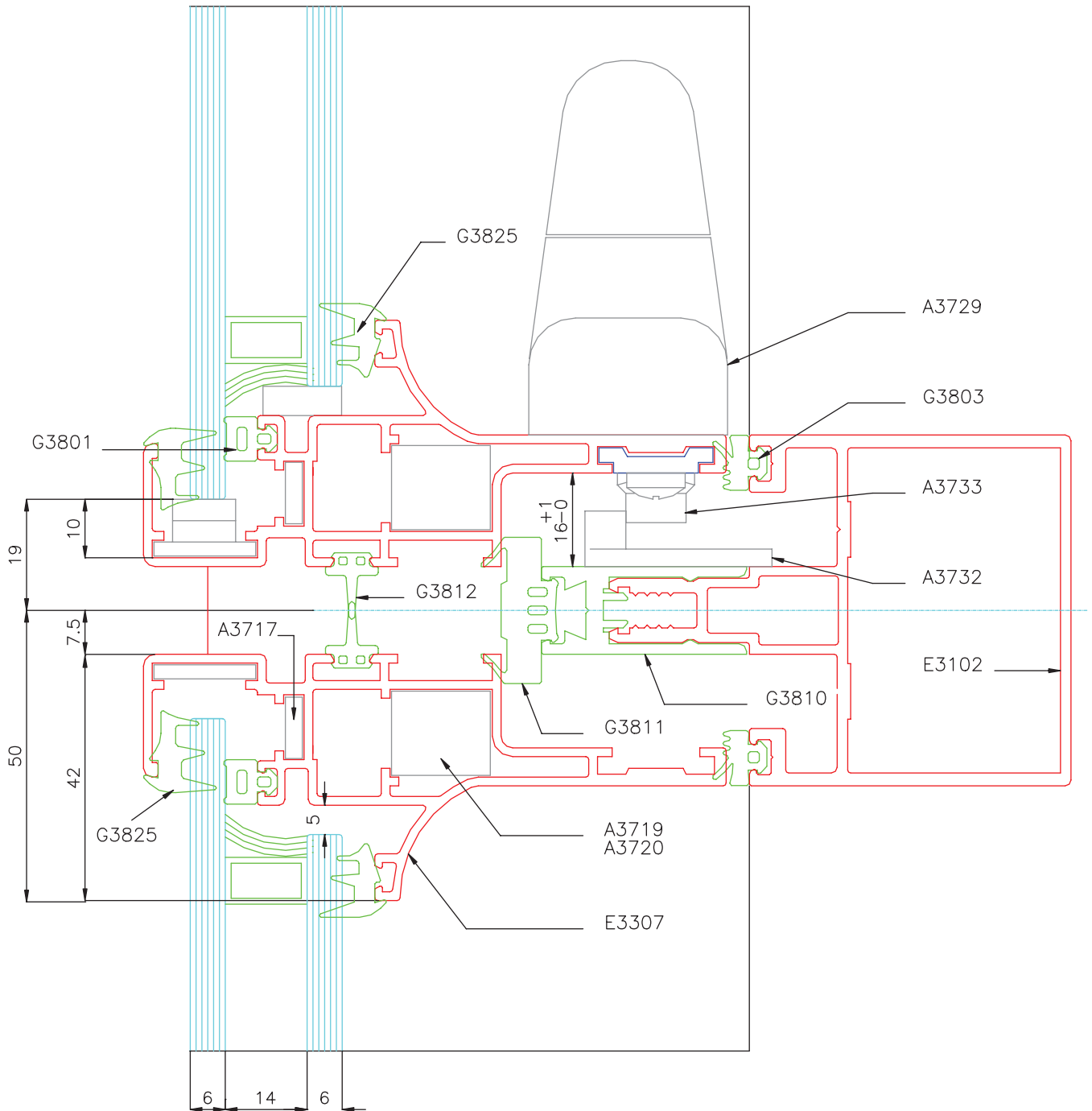
## FRAMED GLASS INSERT VERTICAL SECTION THERMAL BREAK



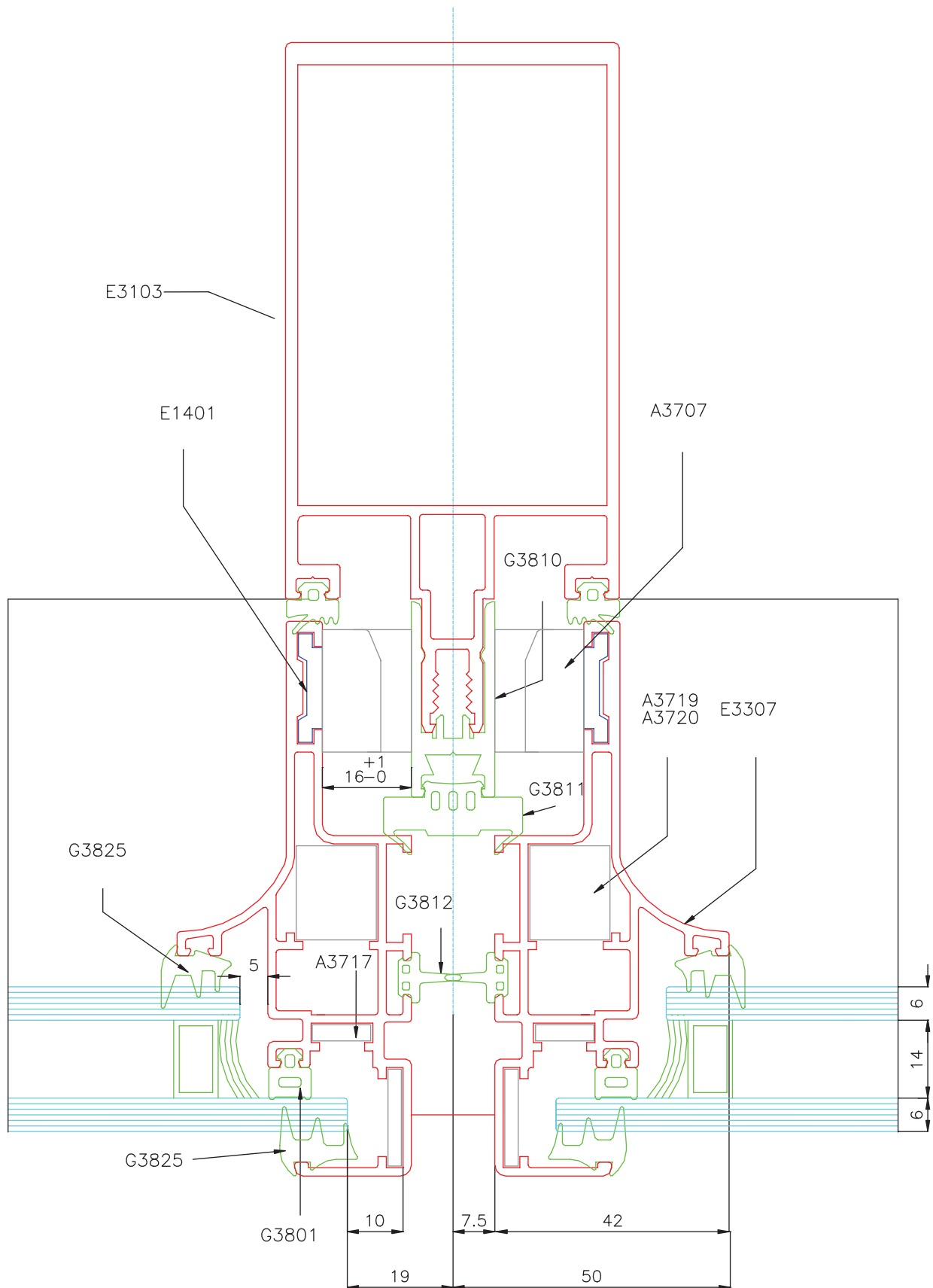
## FRAMED GLASS INSERT HORIZONTAL SECTION THERMAL BREAK



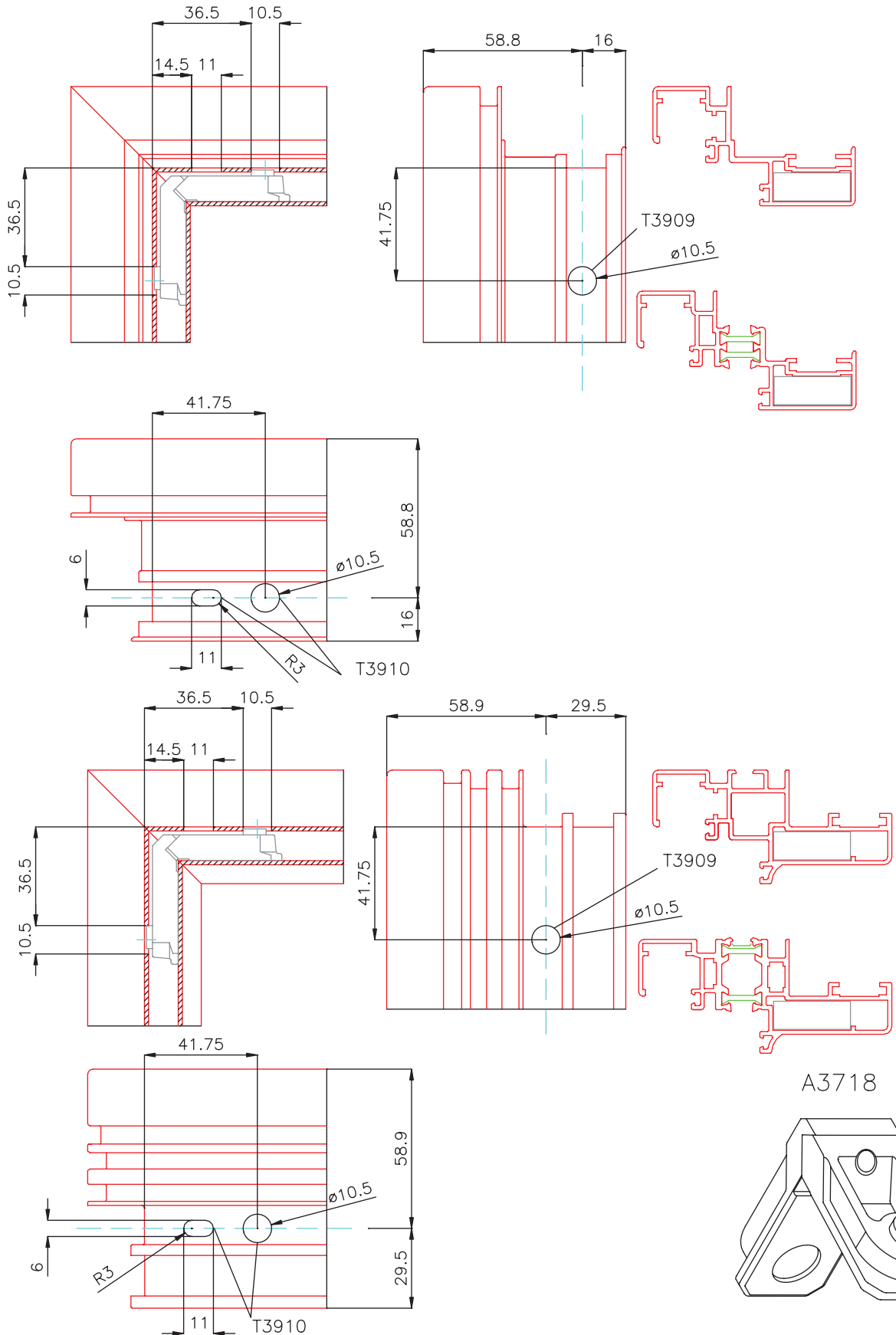
## FRAMED GLASS INSERT VERTICAL SECTION



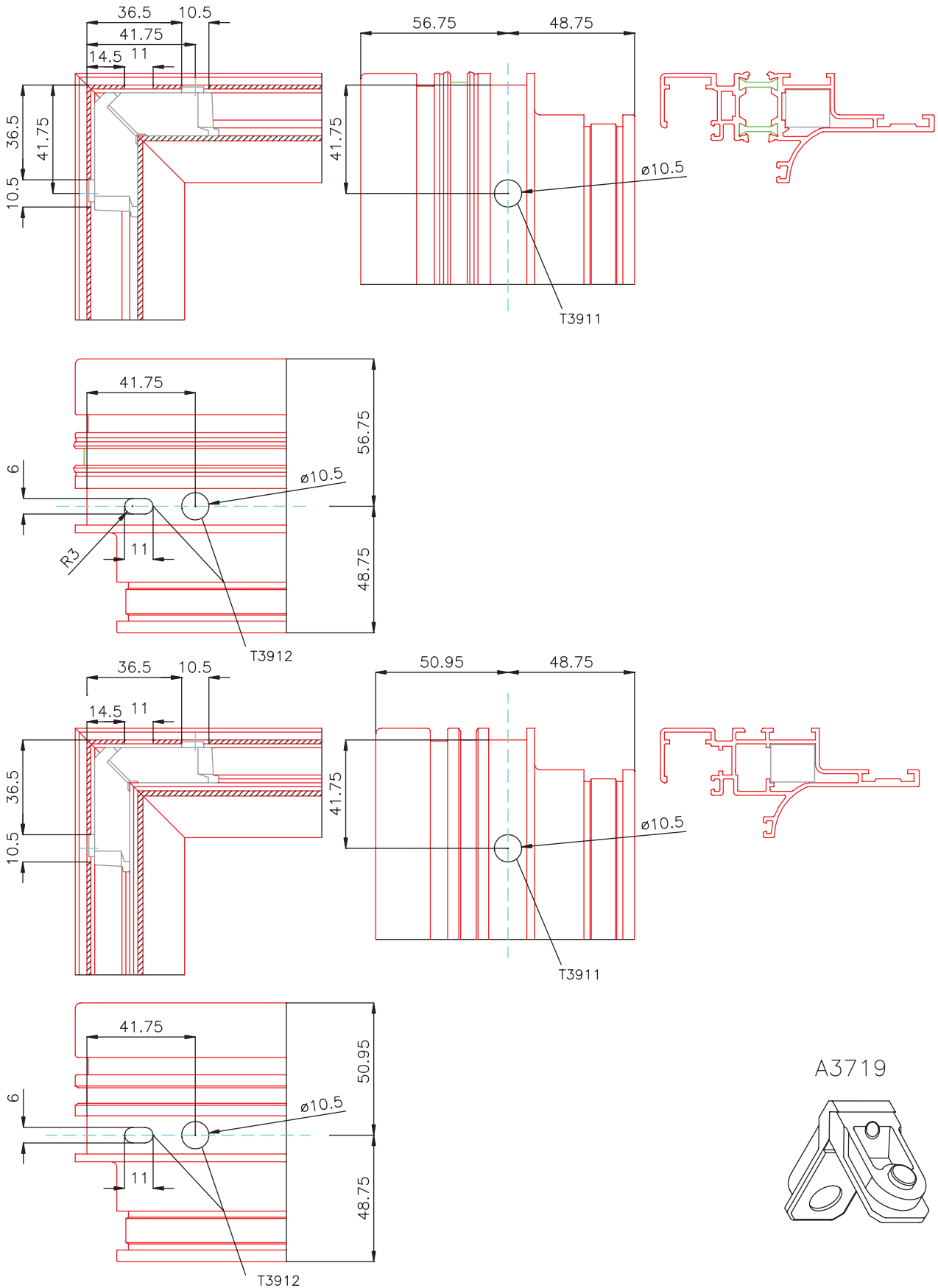
## FRAMED GLASS INSERT HORIZONTAL SECTION

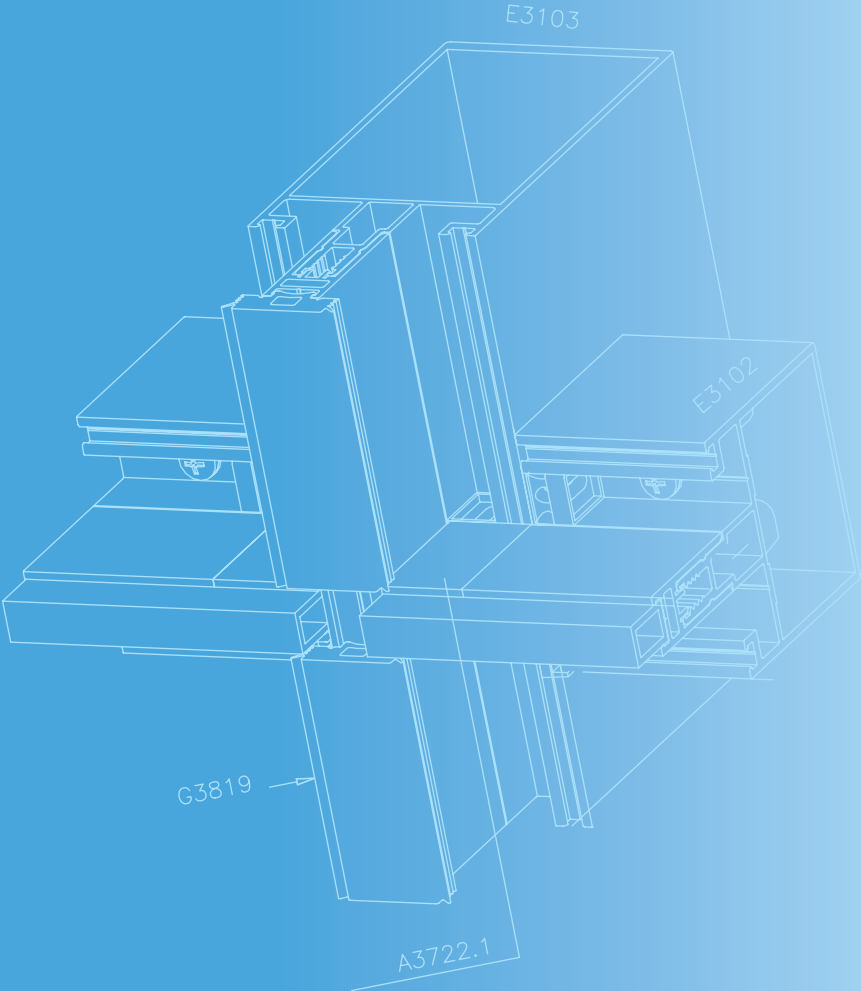
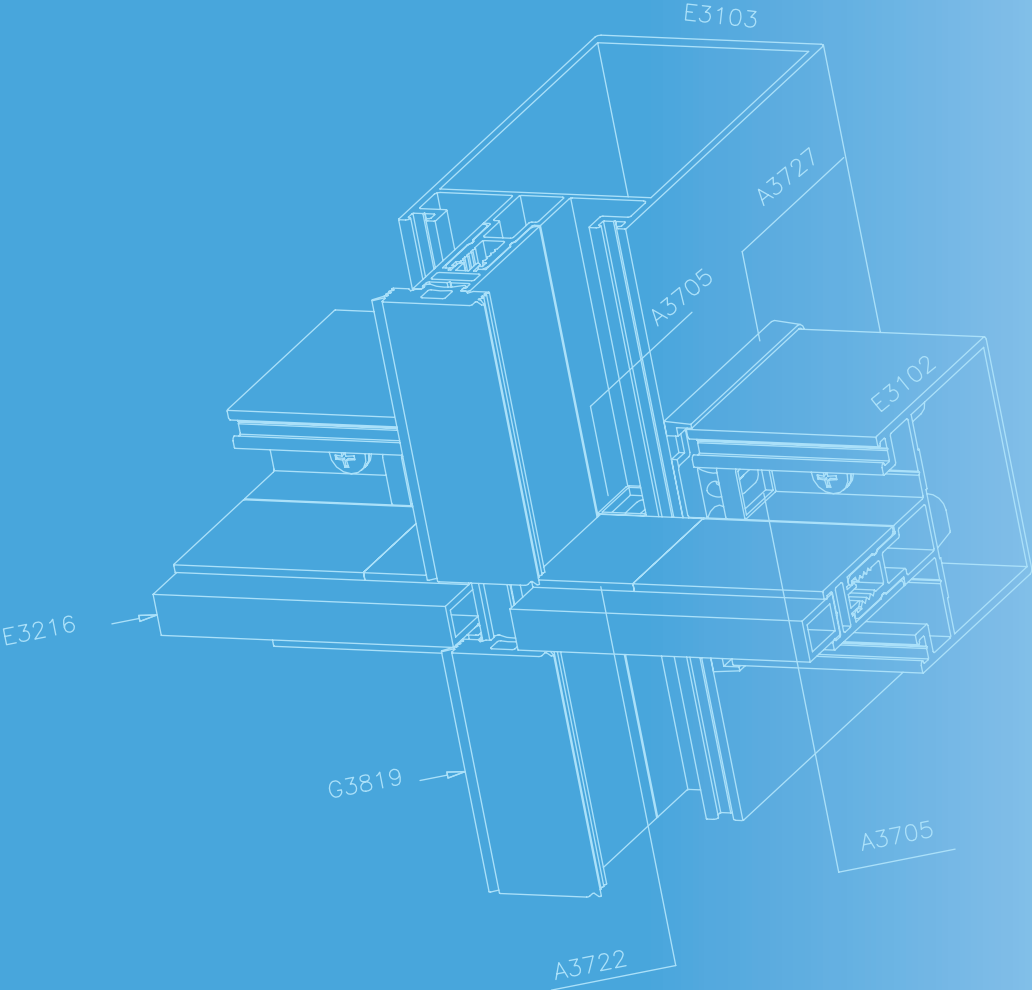


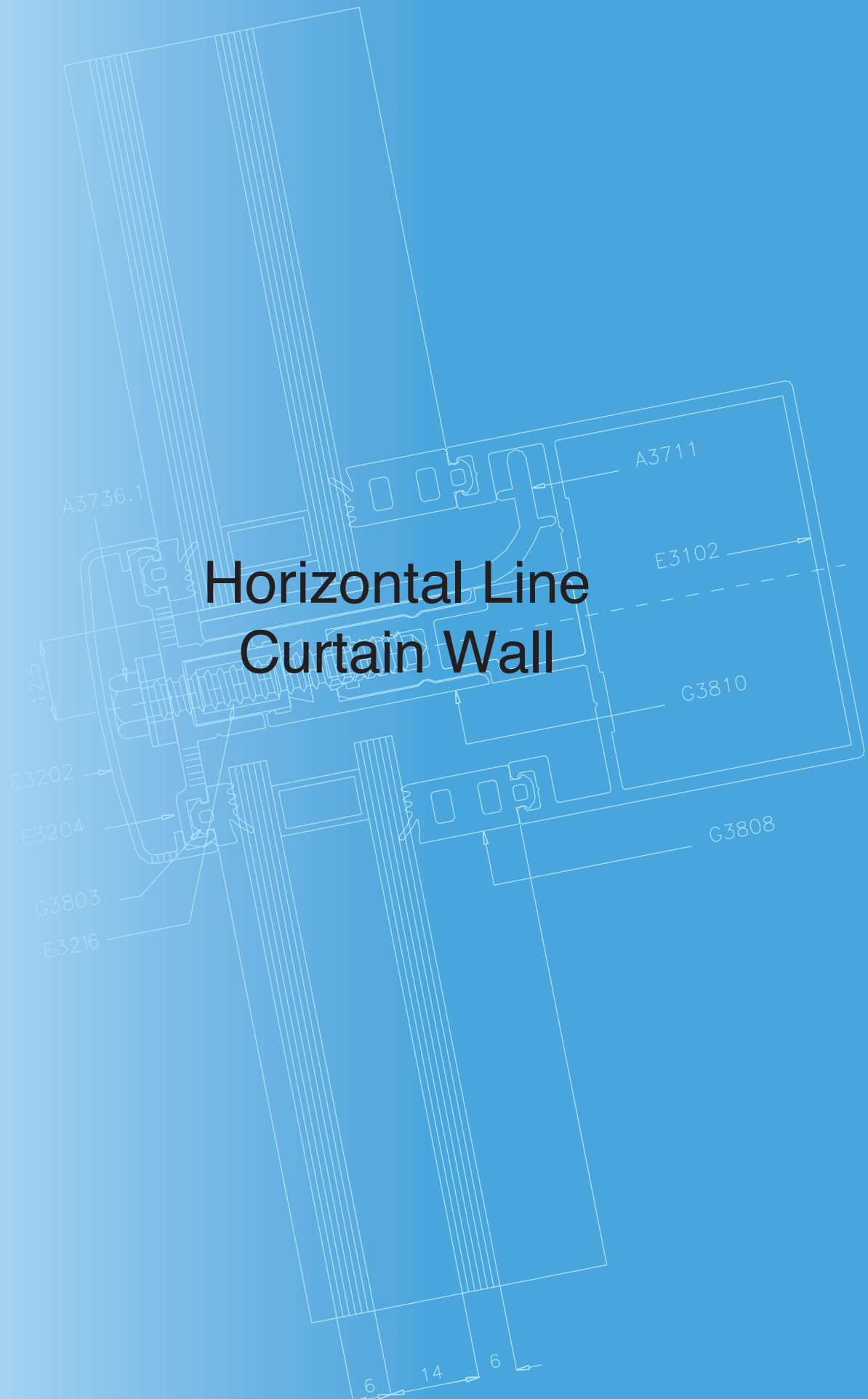
## FRAMED GLASS INSERT T3909-10 TOOLING CORNER JOINT A3718



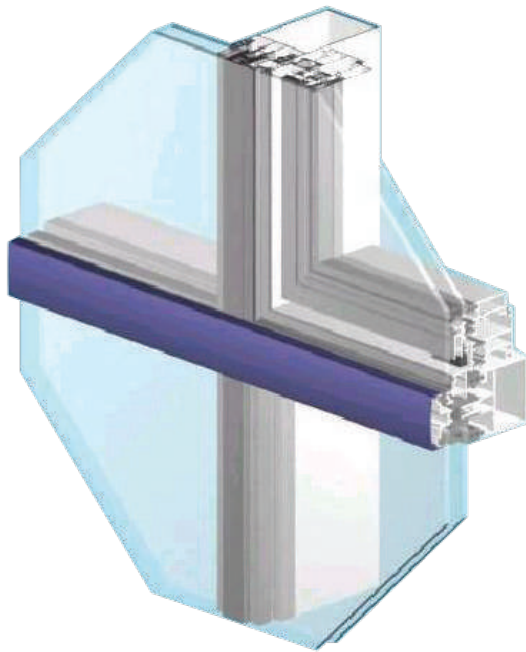
## FRAMED GLASS INSERT T3911-12 TOOLING CORNER JOINT A3719





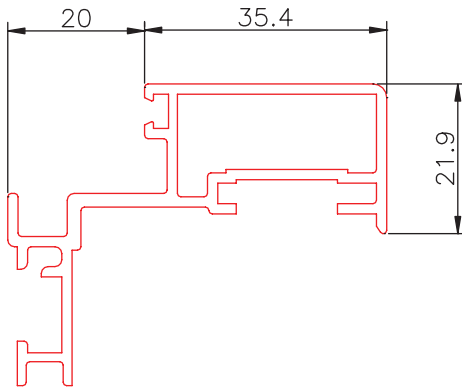


## Horizontal Line Curtain Wall

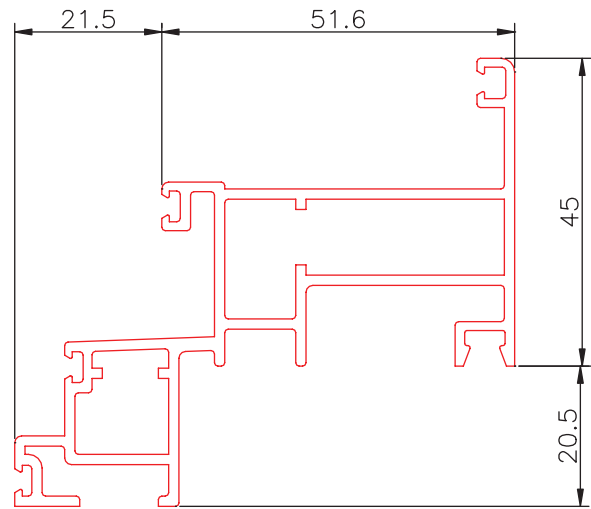


Horizontal Line Curtain Wall

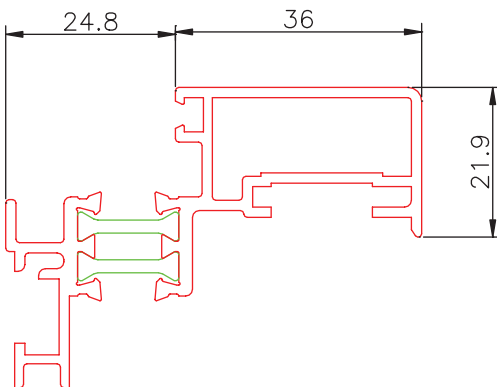
## HORIZONTAL LINE PROFILES



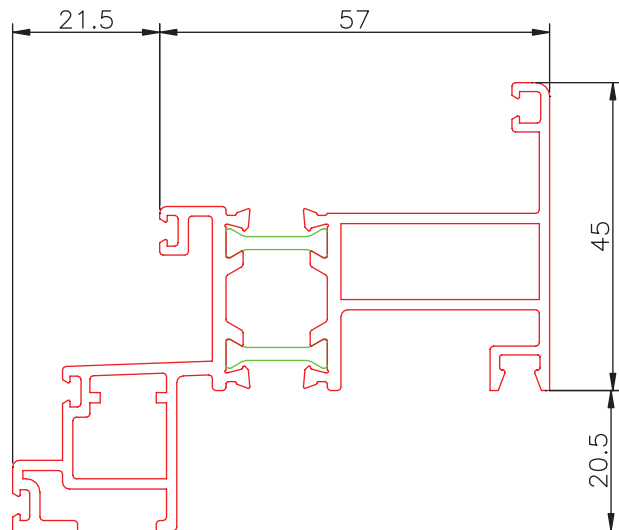
E3301  
g/m 815



E3312  
g/m 1280



E3401  
g/m 943



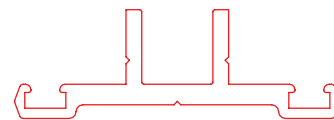
E3412  
g/m 1437



E1401  
g/m 148

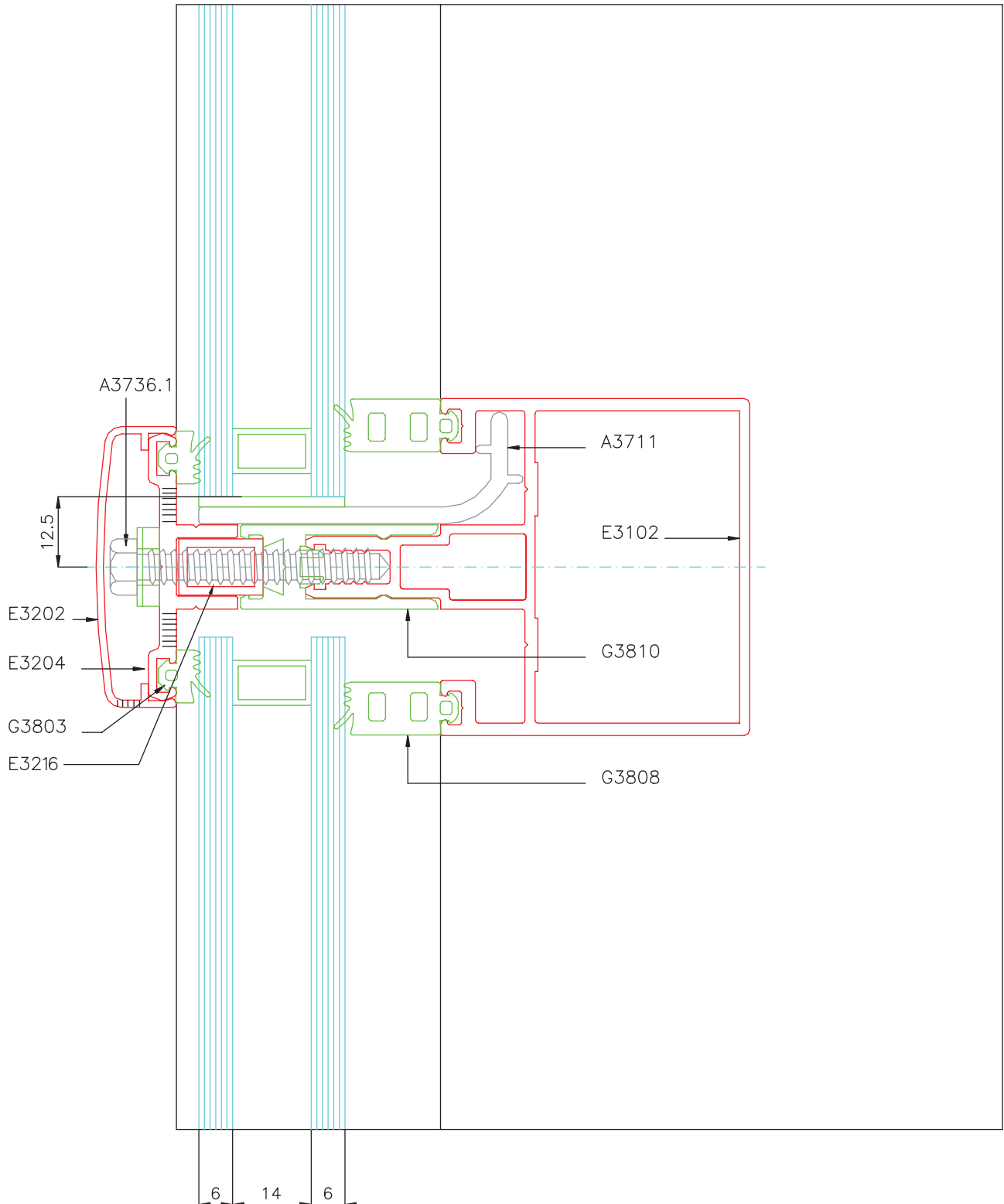


E3310  
g/m 108

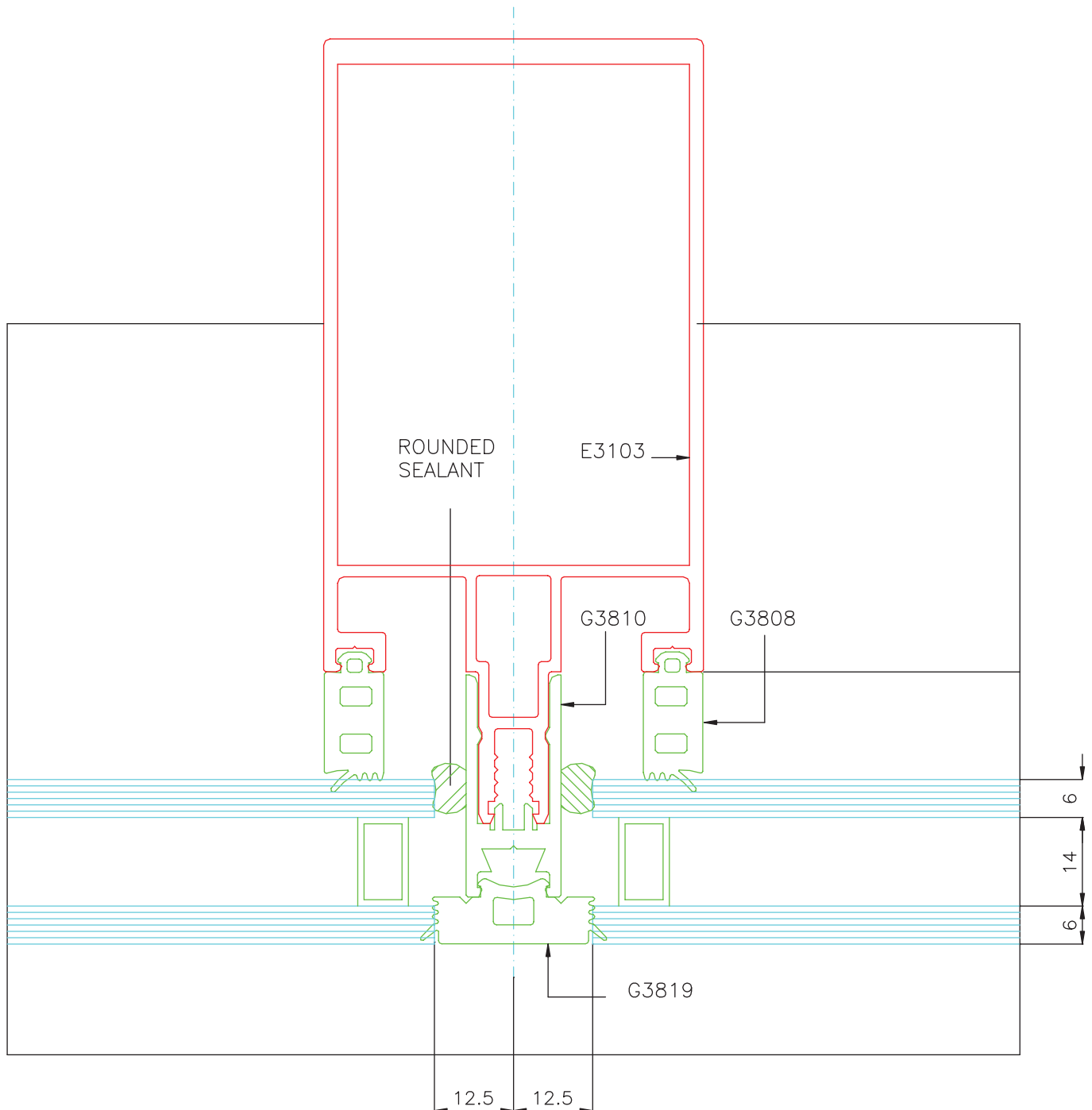


E3204  
g/m 500

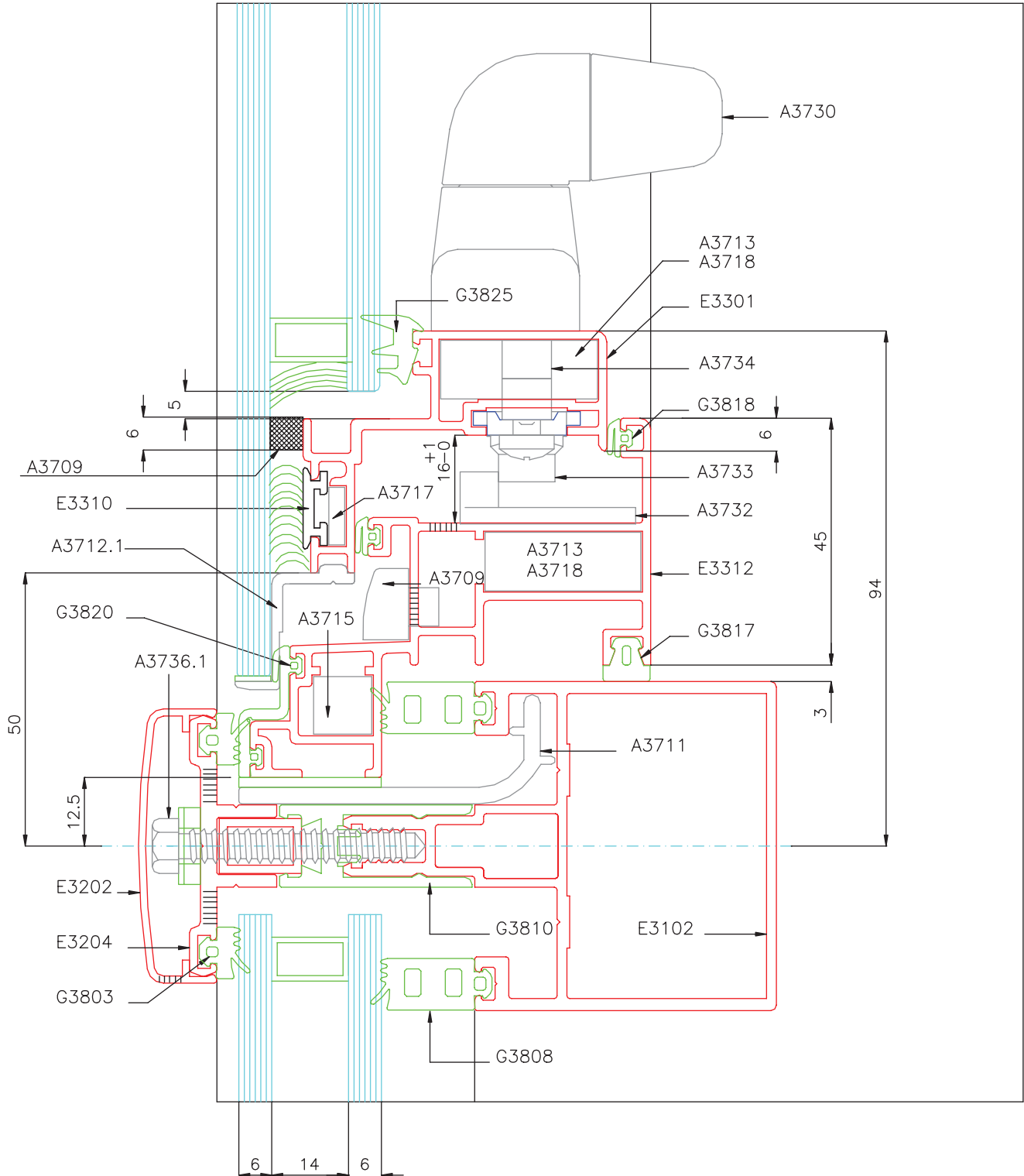
## HORIZONTAL LINE VERTICAL SECTION FIX PART



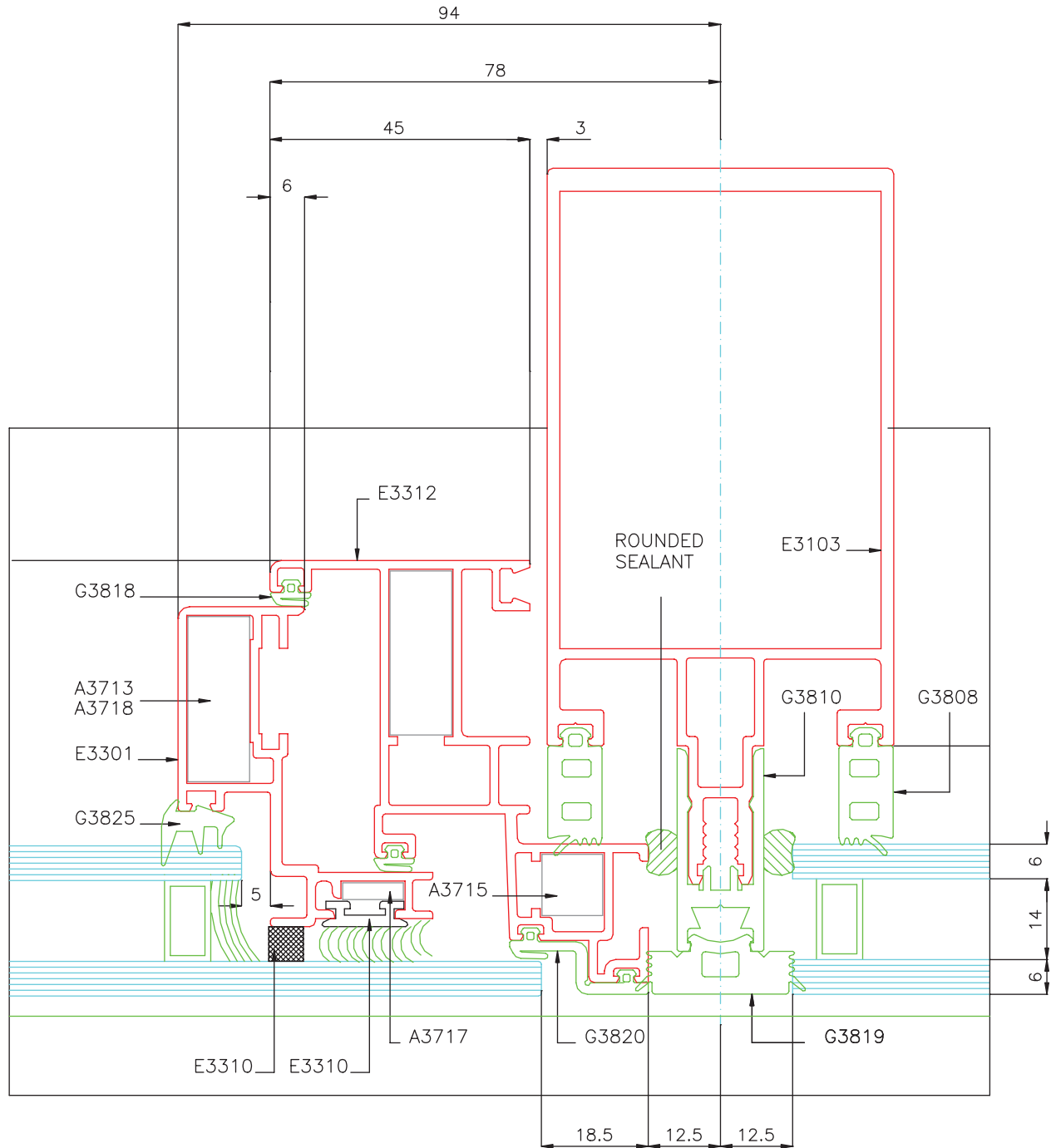
## HORIZONTAL LINE HORIZONTAL SECTION



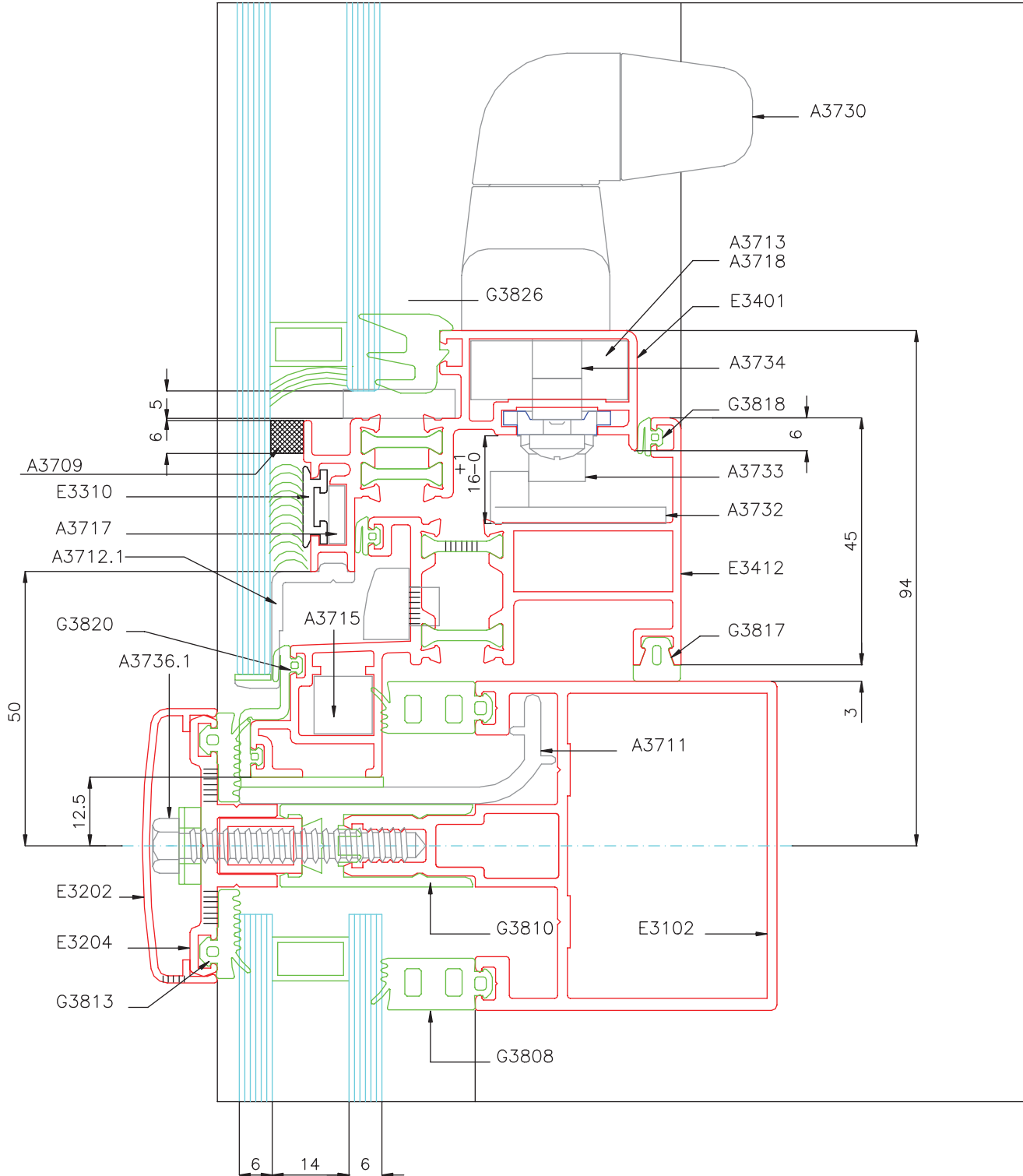
## HORIZONTAL LINE VERTICAL SECTION WINDOW



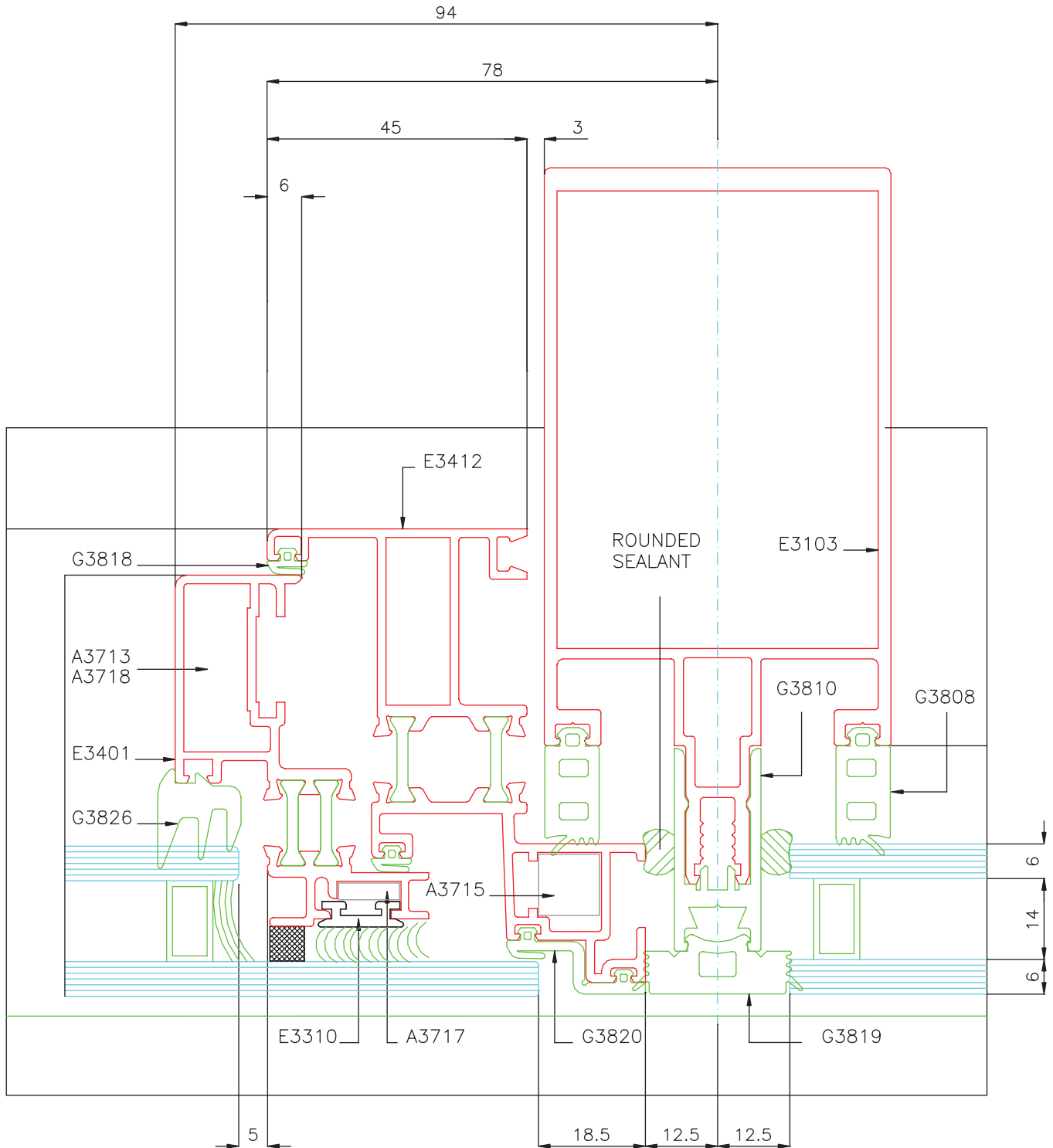
## HORIZONTAL LINE HORIZONTAL SECTION



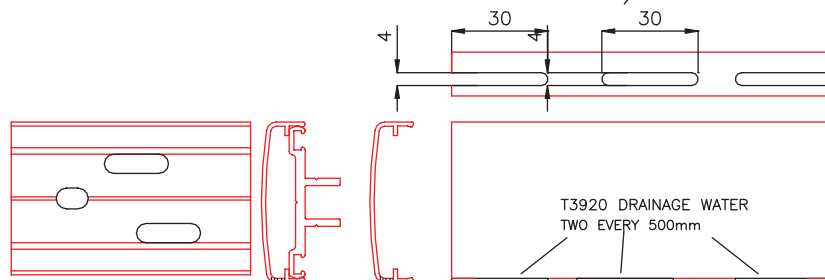
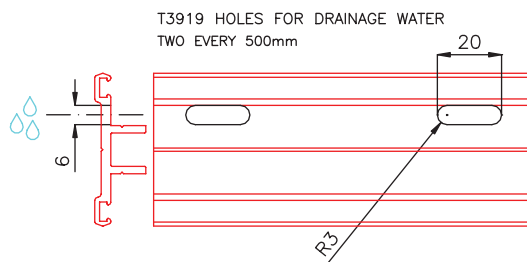
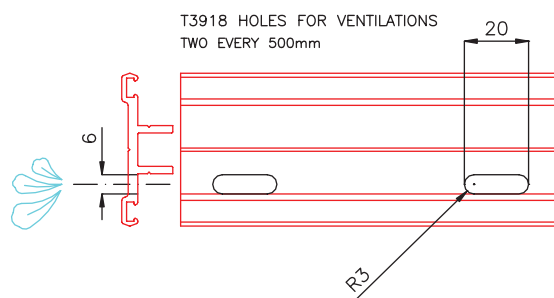
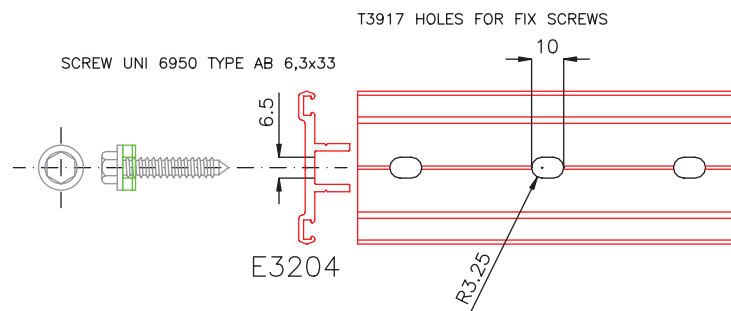
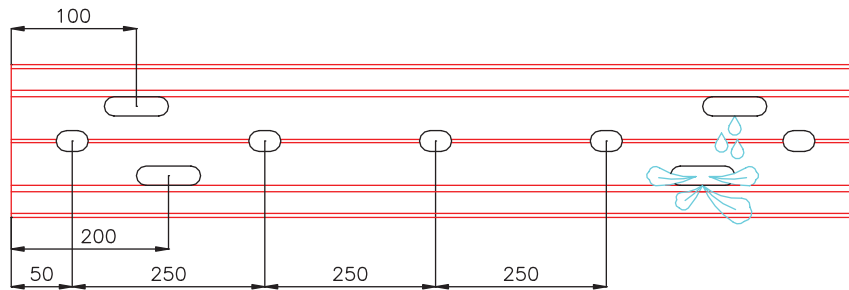
## HORIZONTAL LINE VERTICAL SECTION WINDOW THERMAL BREAK



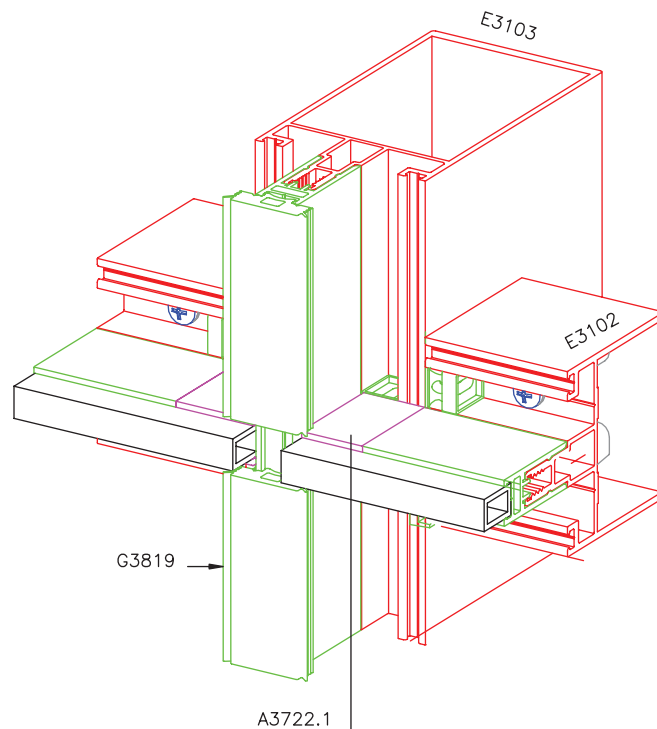
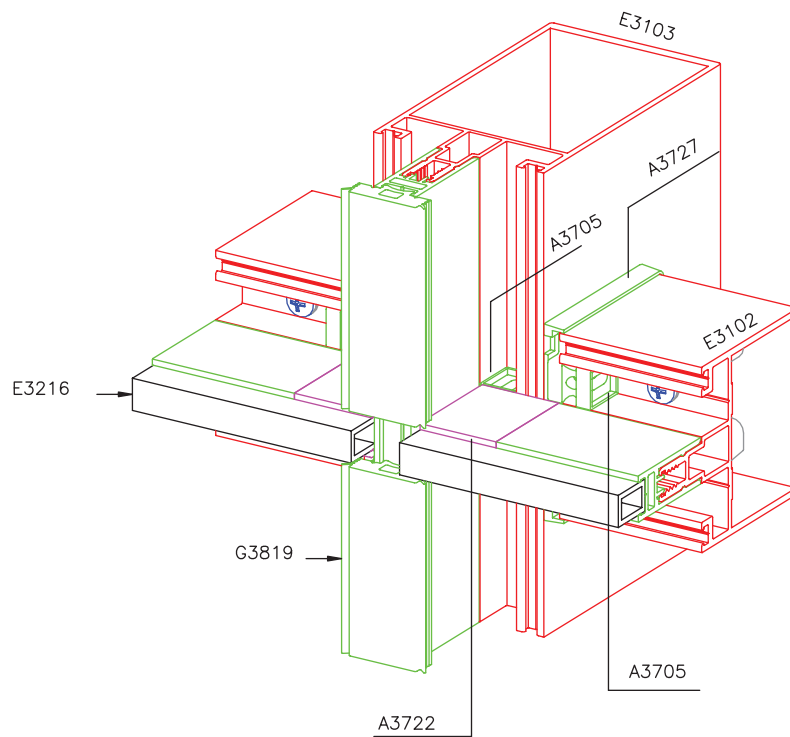
## HORIZONTAL LINE HORIZONTAL SECTION THERMAL BREAK



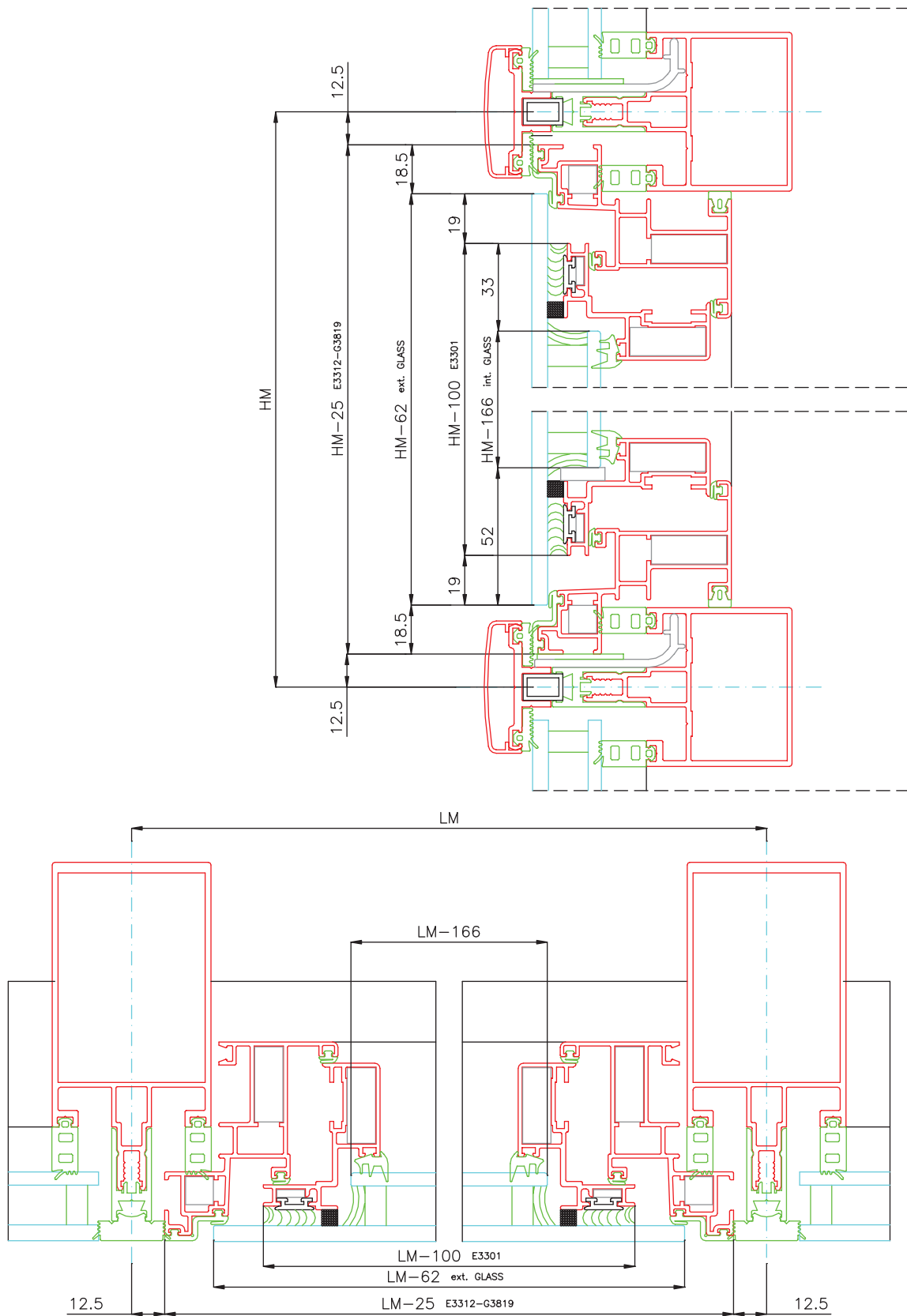
## HORIZONTAL LINE T3917-18-19-20 TOOLINGS COVER CAPS E3204



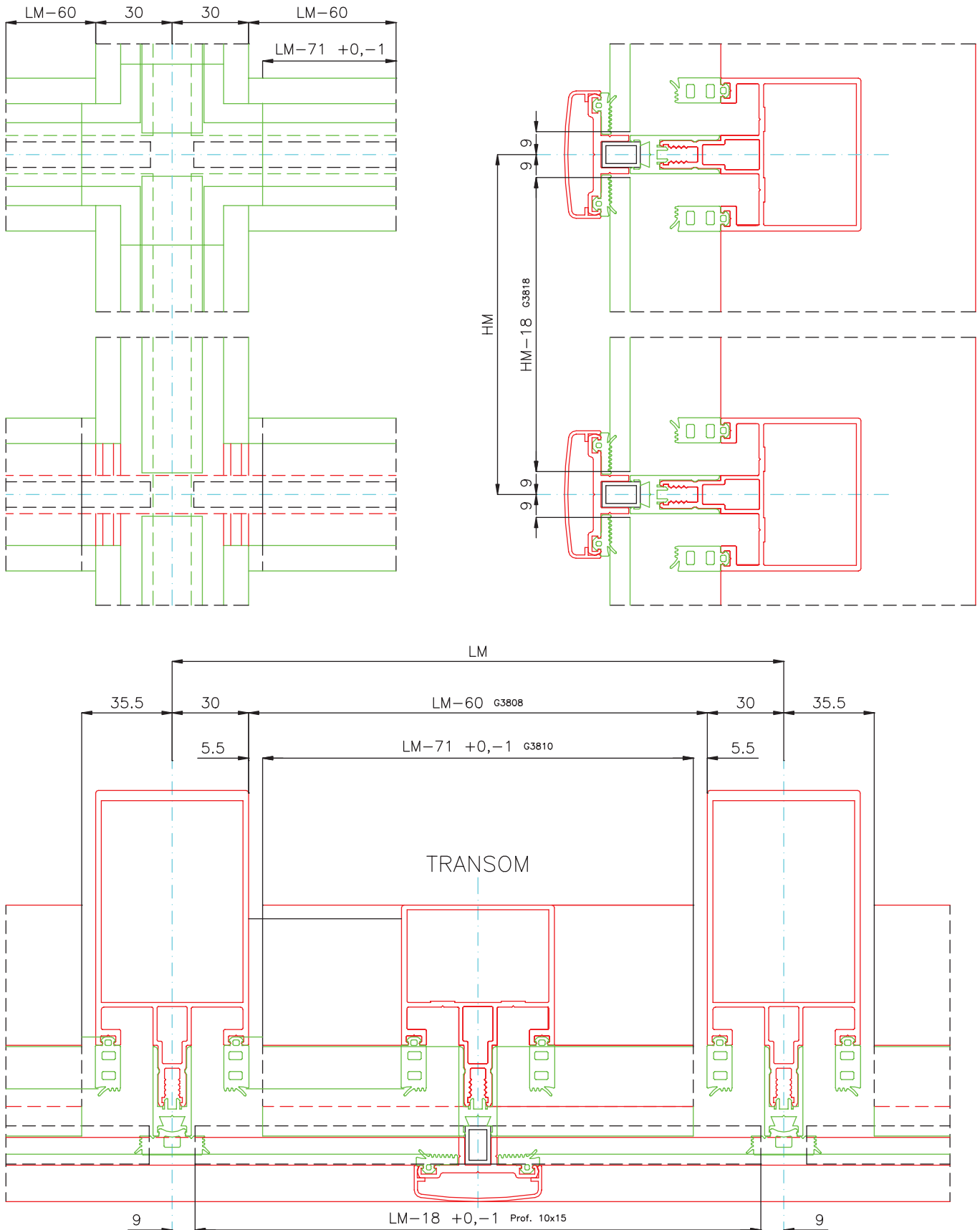
## HORIZONTAL LINE SCHEME MOUNTING



## HORIZONTAL LINE PREPARATION OF WINDOW

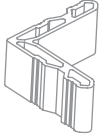


## HORIZONTAL LINE PREPARATION OF GASKETS

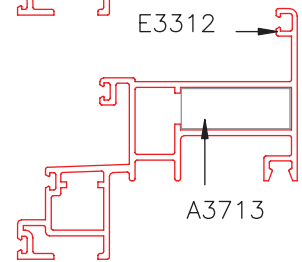
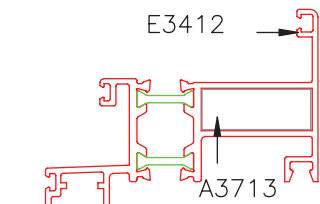
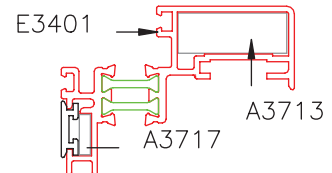
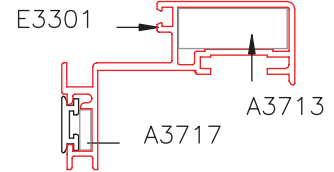
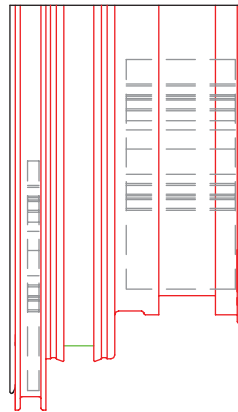
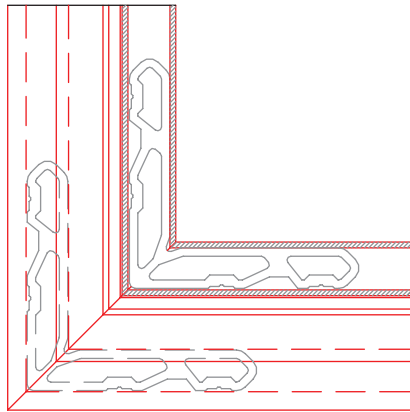


## HORIZONTAL LINE TOOL CORNER

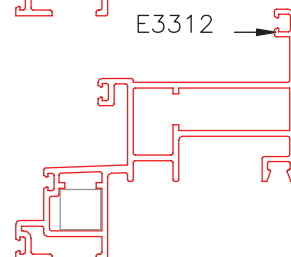
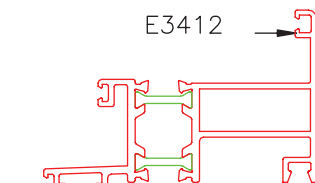
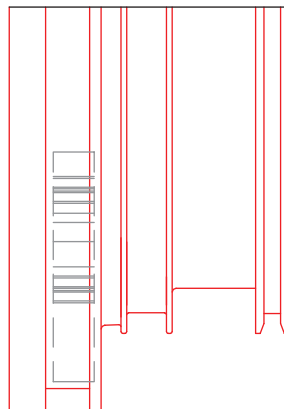
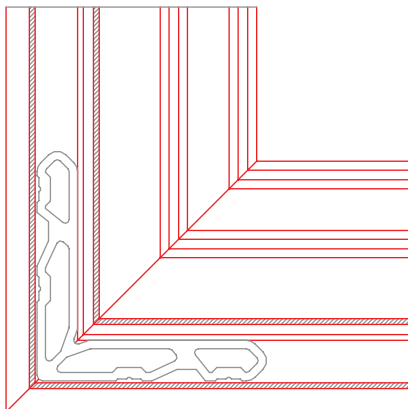
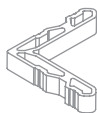
A3713



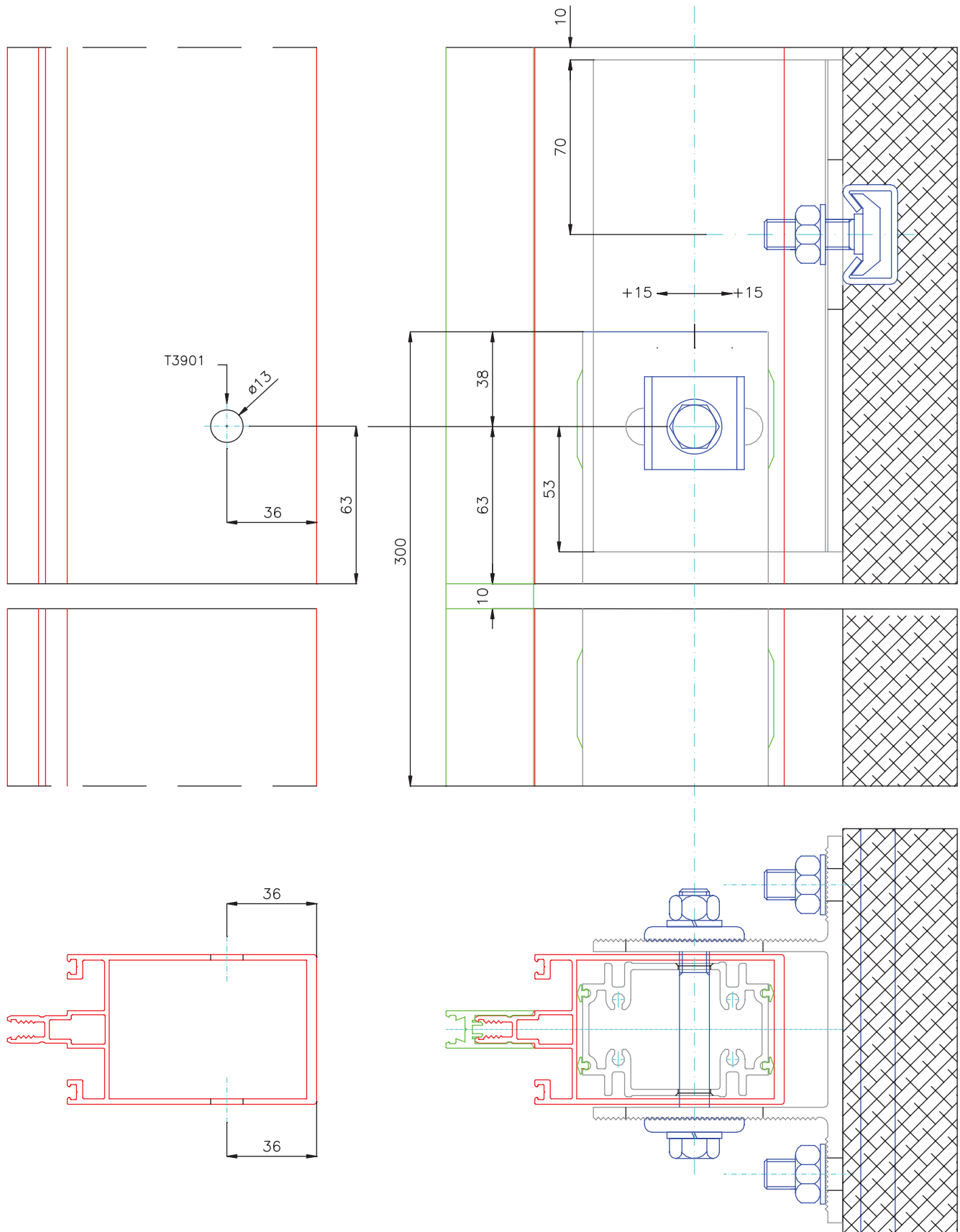
A3717



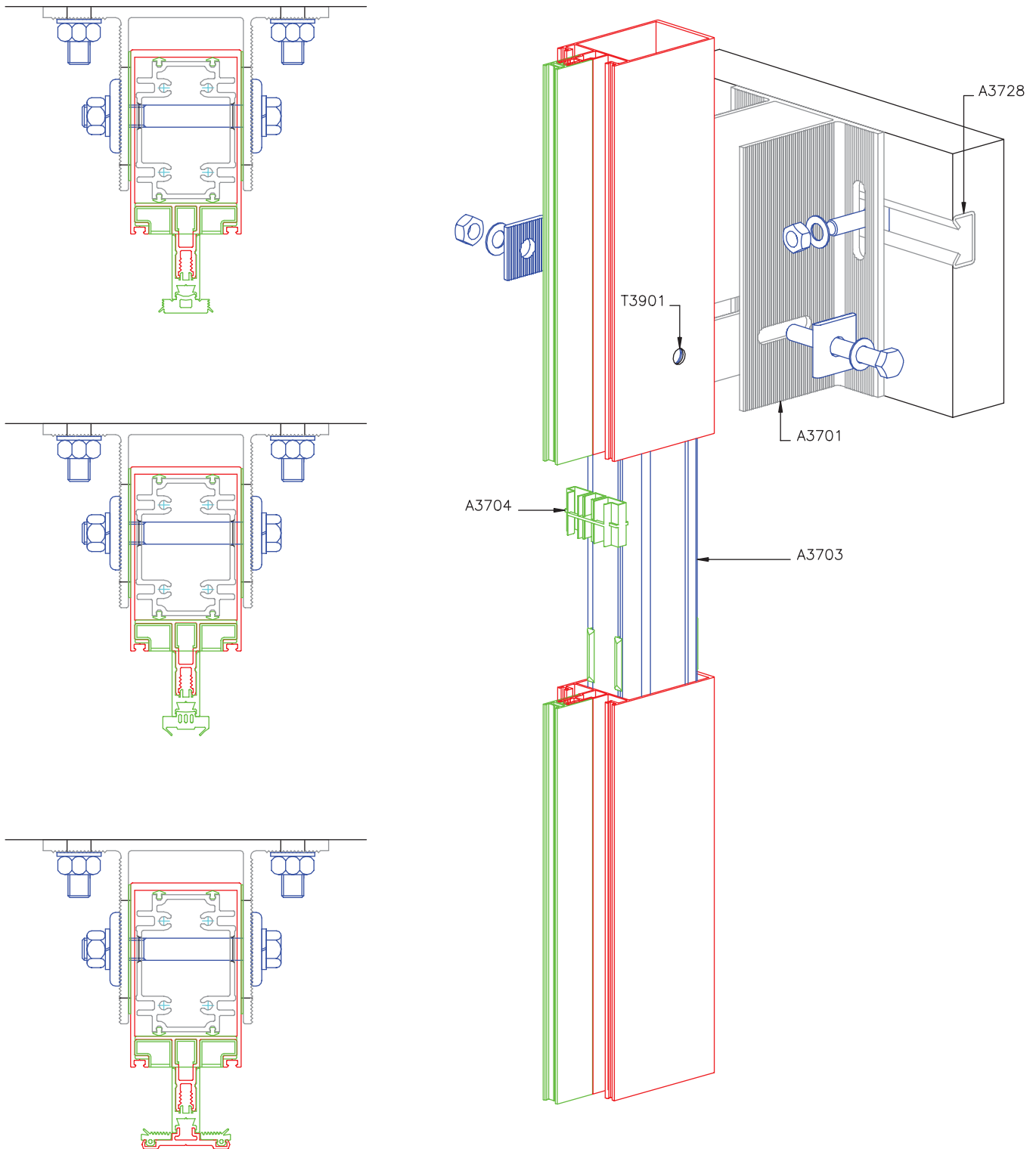
A3715



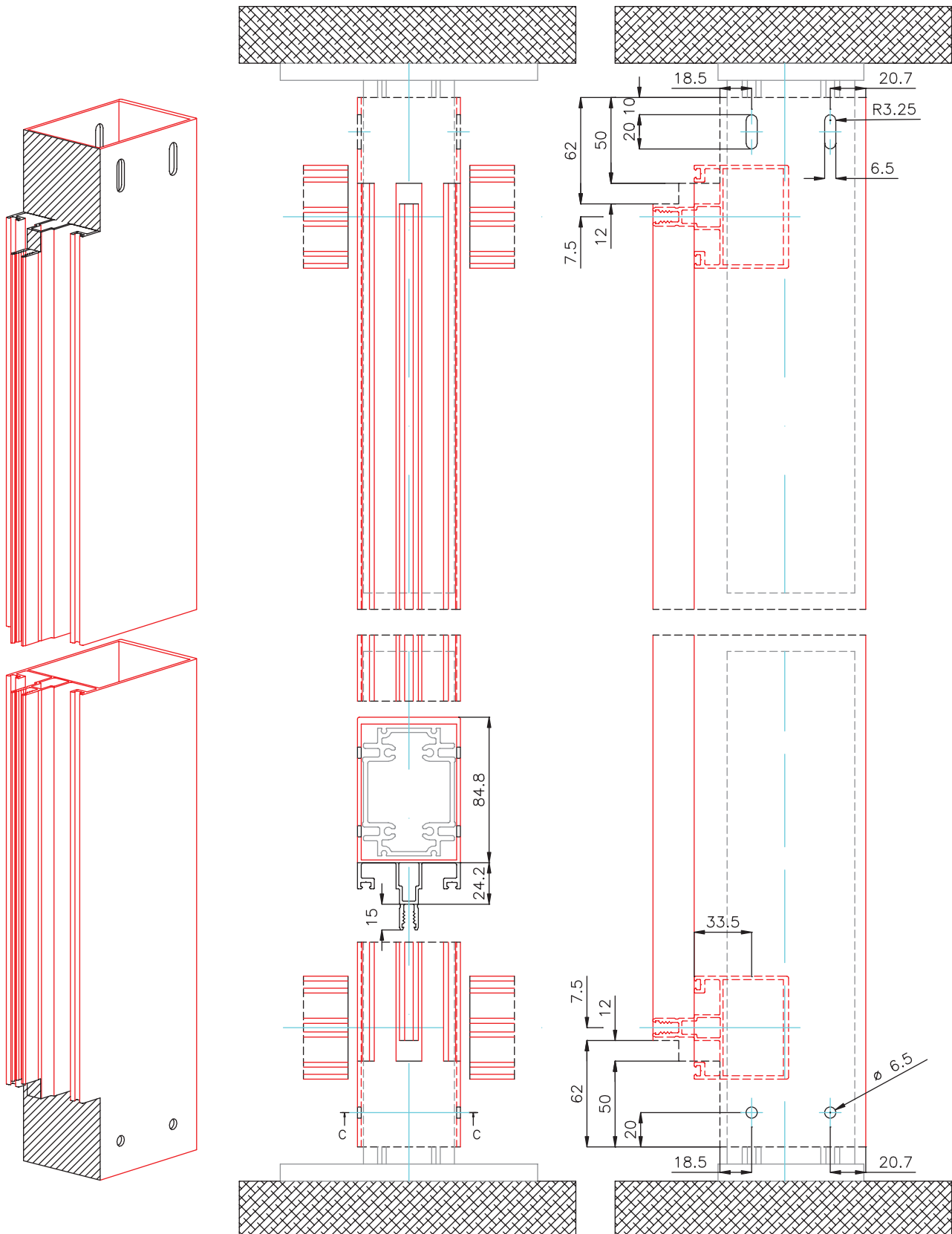
## TOOL MOUNTING ACCESSORIES COMMON T3901 FIX BRACKET



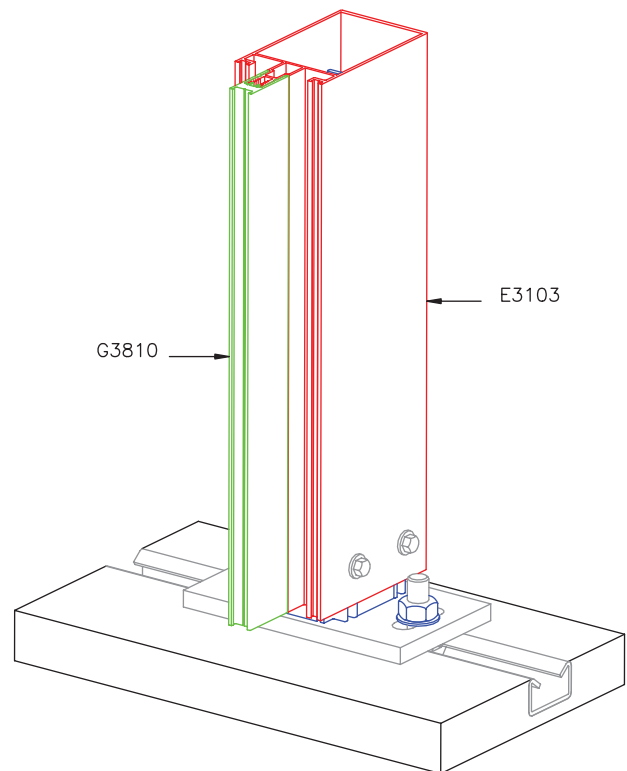
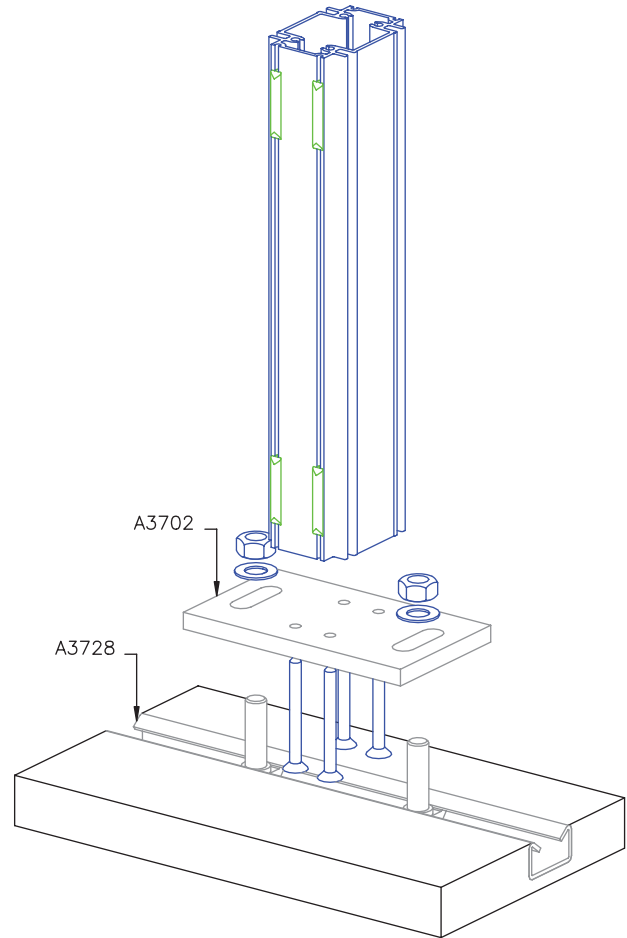
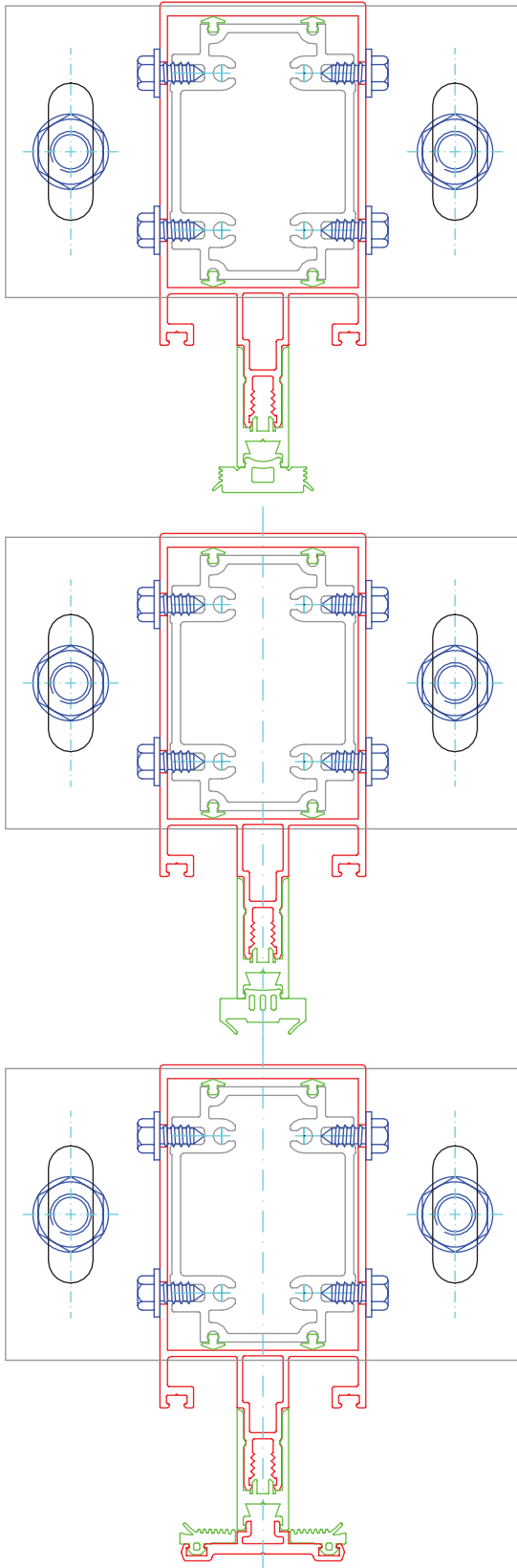
## TOOL MOUNTING ACCESSORIES COMMON BRACKET ON MULLION AND ALUMINIUM - NYLON CONNECT



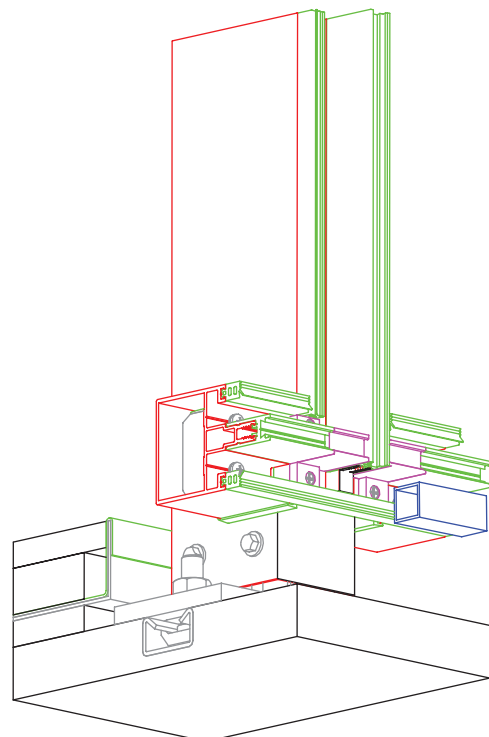
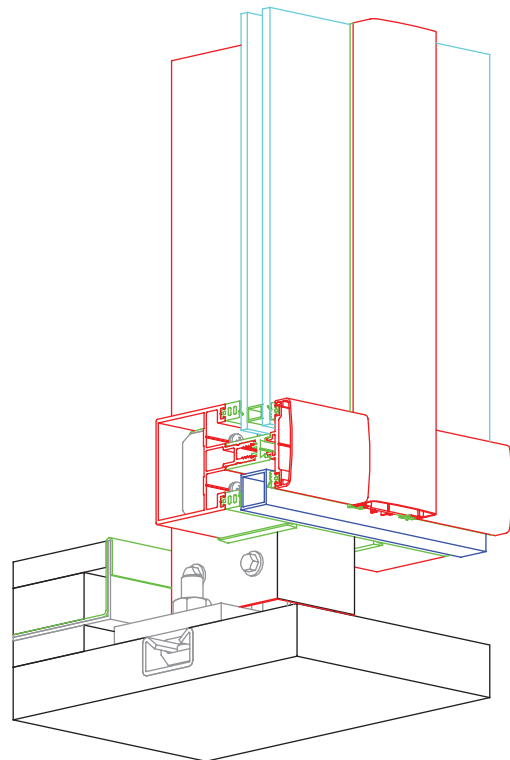
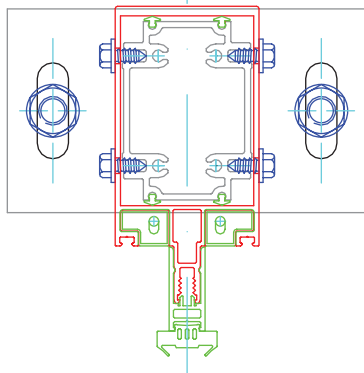
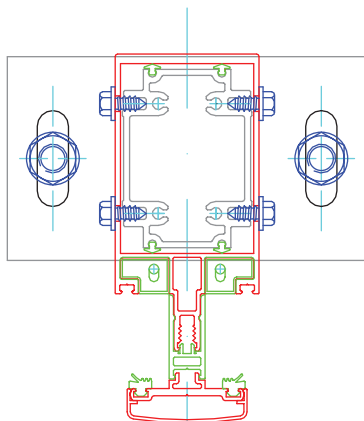
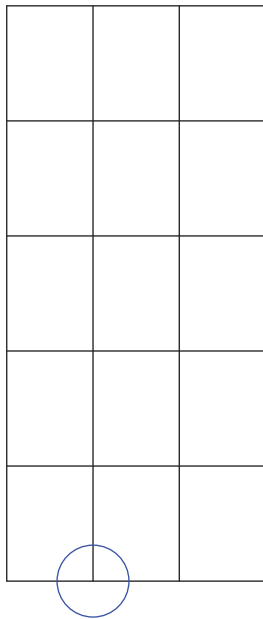
## TOOL MOUNTING ACCESSORIES COMMON T3902 MULLION FIX ON WALL LOWER AND UPPER PART



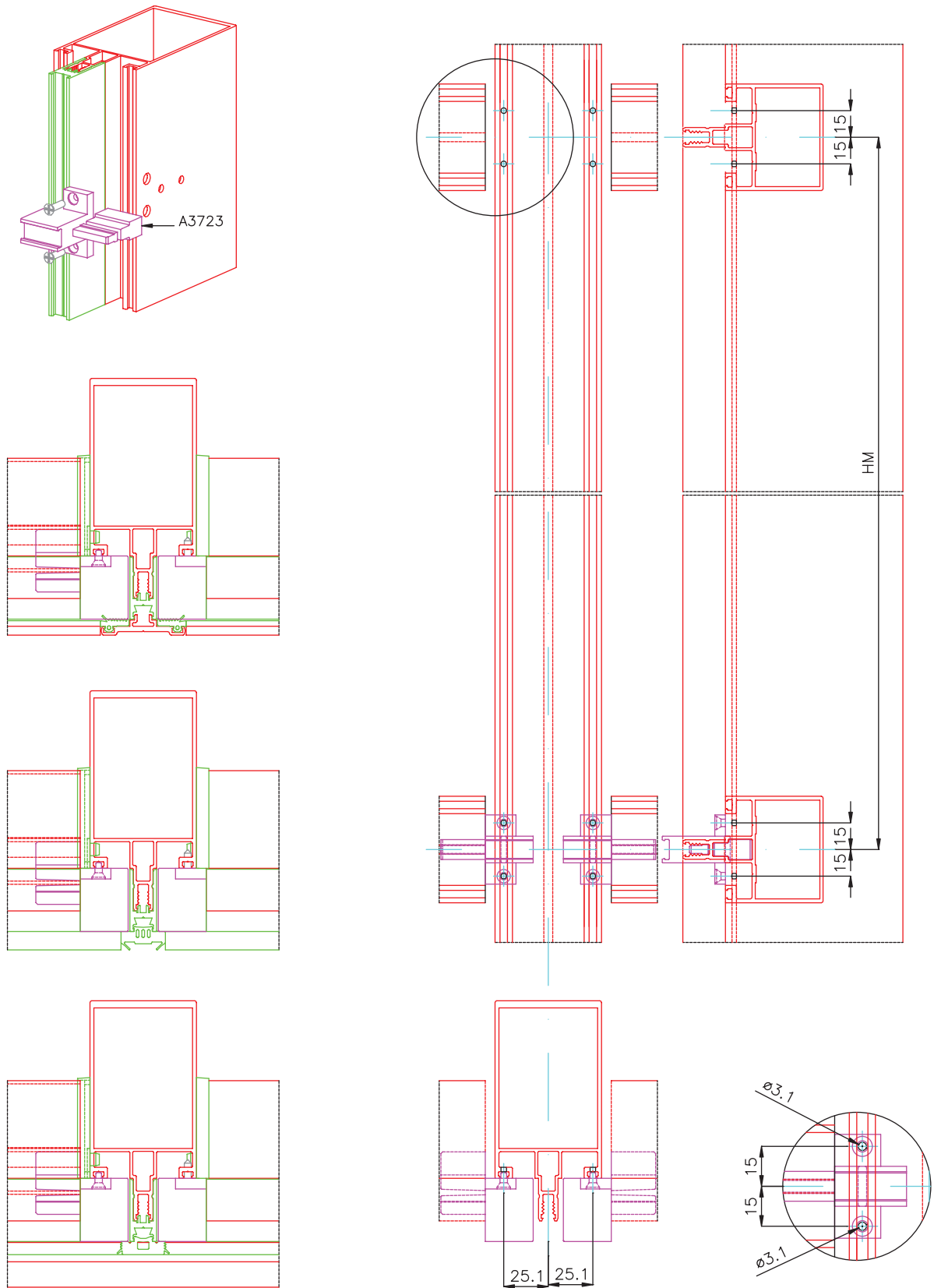
## TOOL MOUNTING ACCESSORIES COMMON FIX MULLION



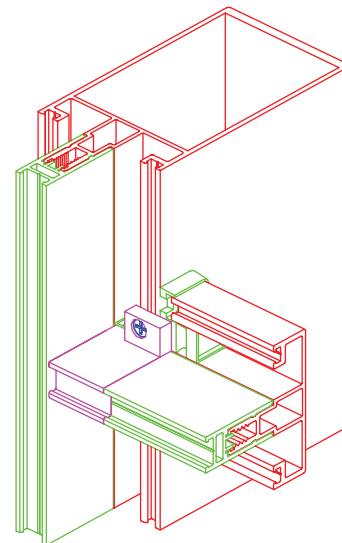
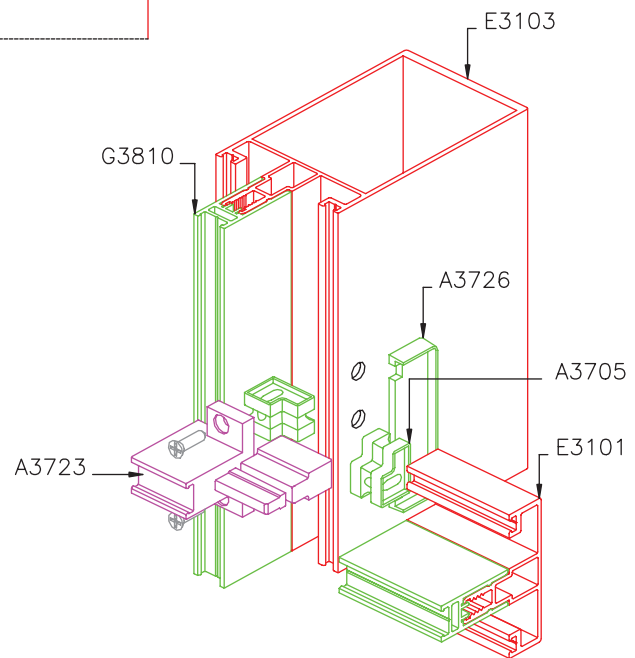
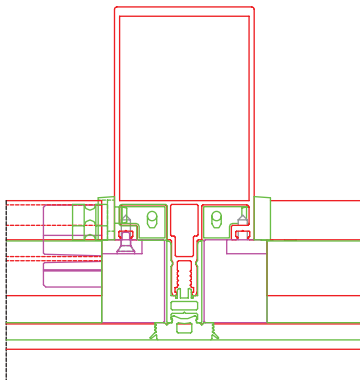
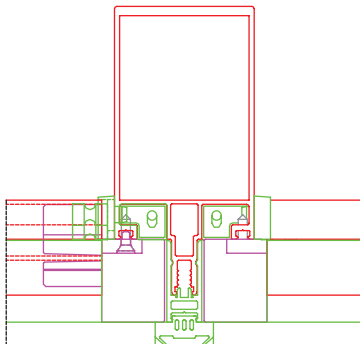
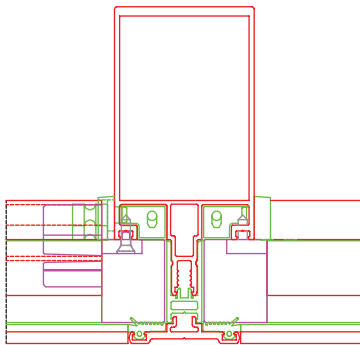
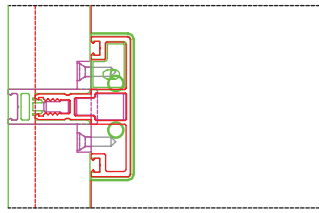
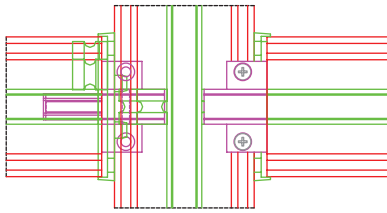
## TOOL MOUNTING ACCESSORIES COMMON SCHEME BRACKET



## TOOL MOUNTING ACCESSORIES COMMON T3914 FIX TRANSOM SEALANT A3723

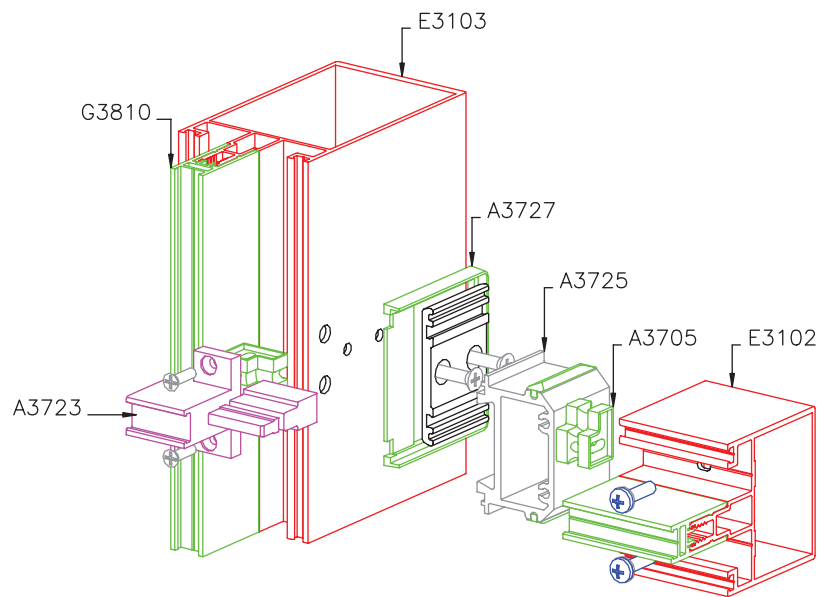
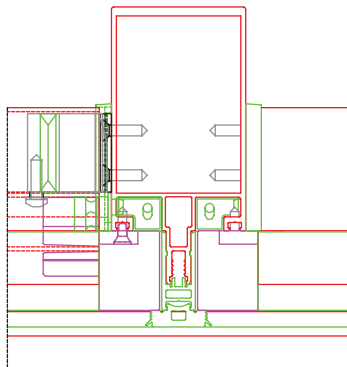
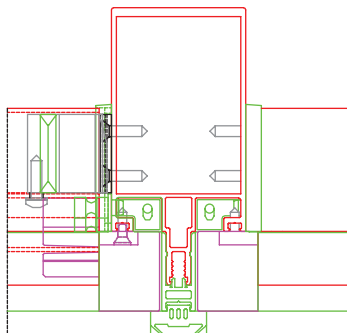
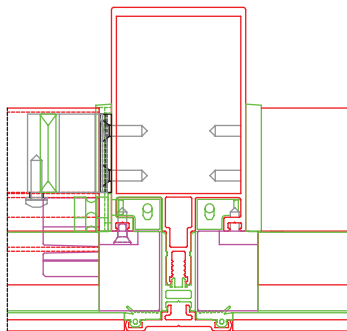
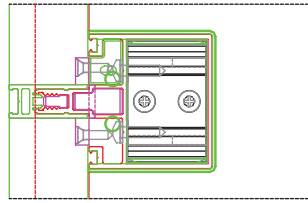
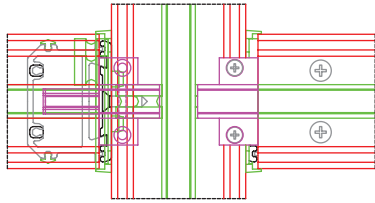


## TOOL MOUNTING ACCESSORIES COMMON INSERT HORIZONTAL TRANSOM E3101

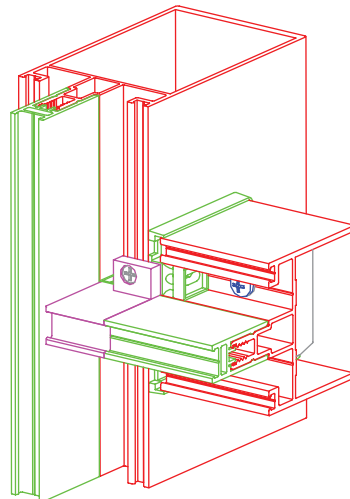


SCALE 1:3

## TOOL MOUNTING ACCESSORIES COMMON INSERT HORIZONTAL TRANSOM E3102

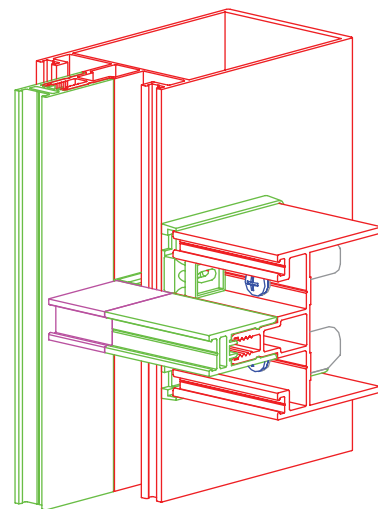
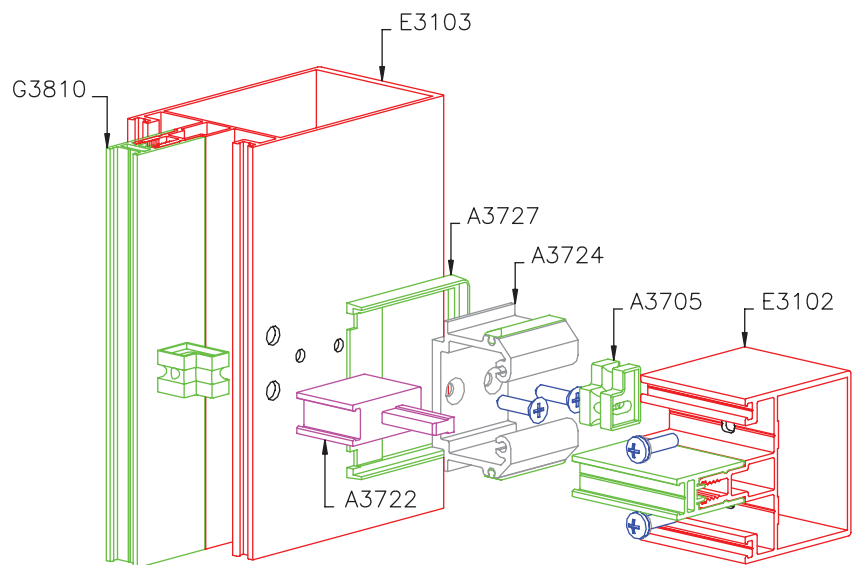
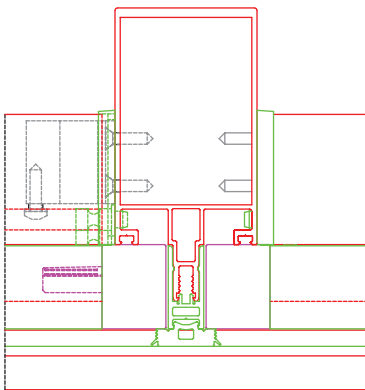
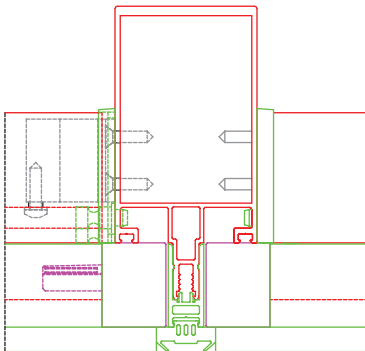
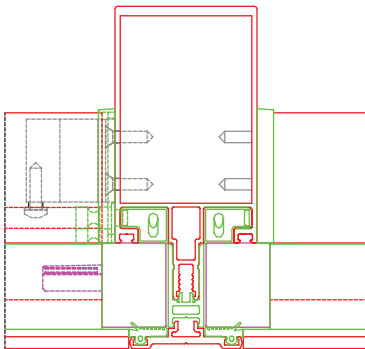
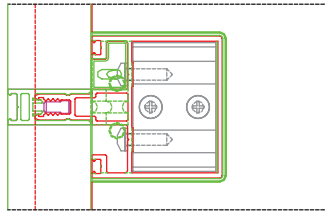
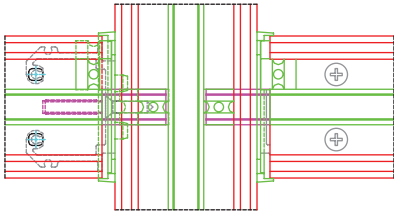


KIT ACCESSORIES  
FOR INSERT MULLION HORIZONTAL



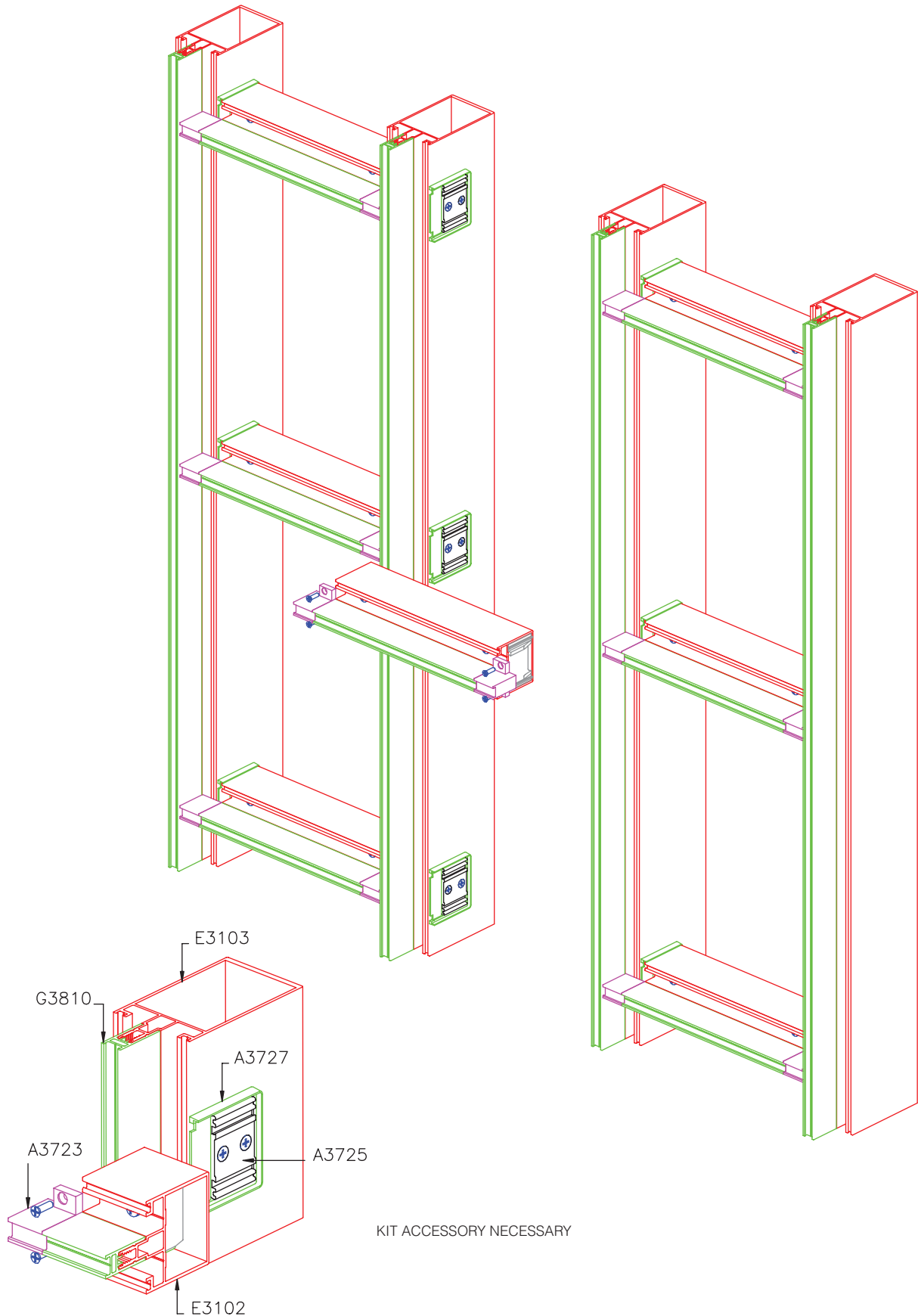
SCALE 1:3

## TOOL MOUNTING ACCESSORIES COMMON TRANSOM E3102

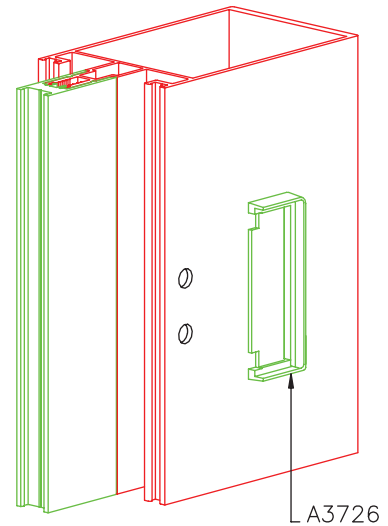
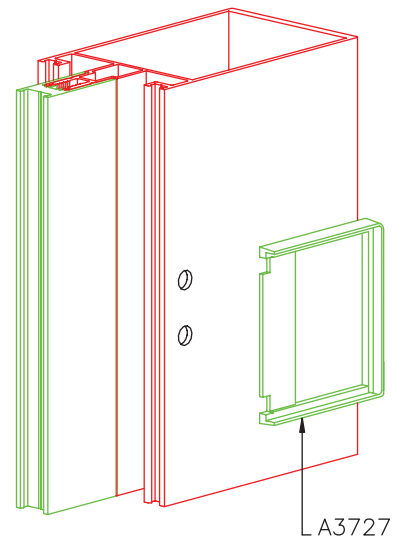
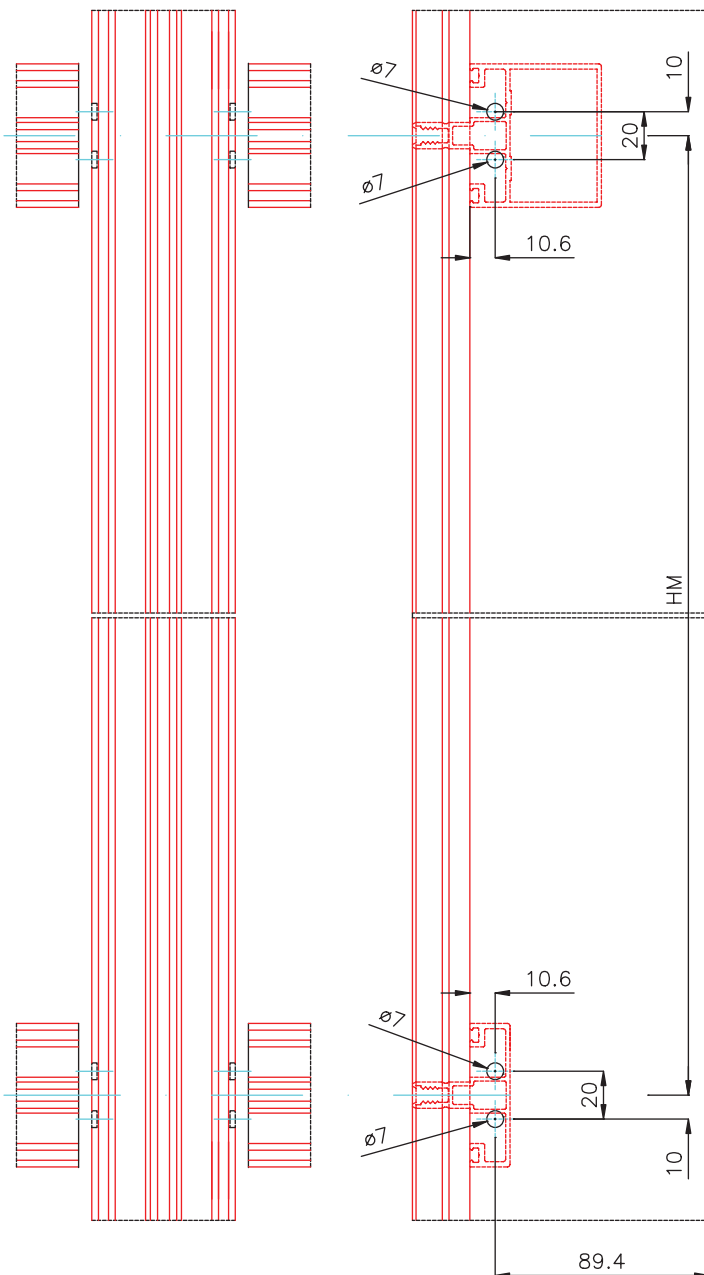
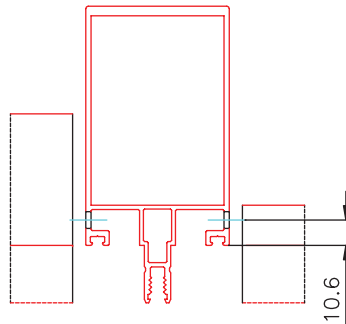


SCALE 1:3

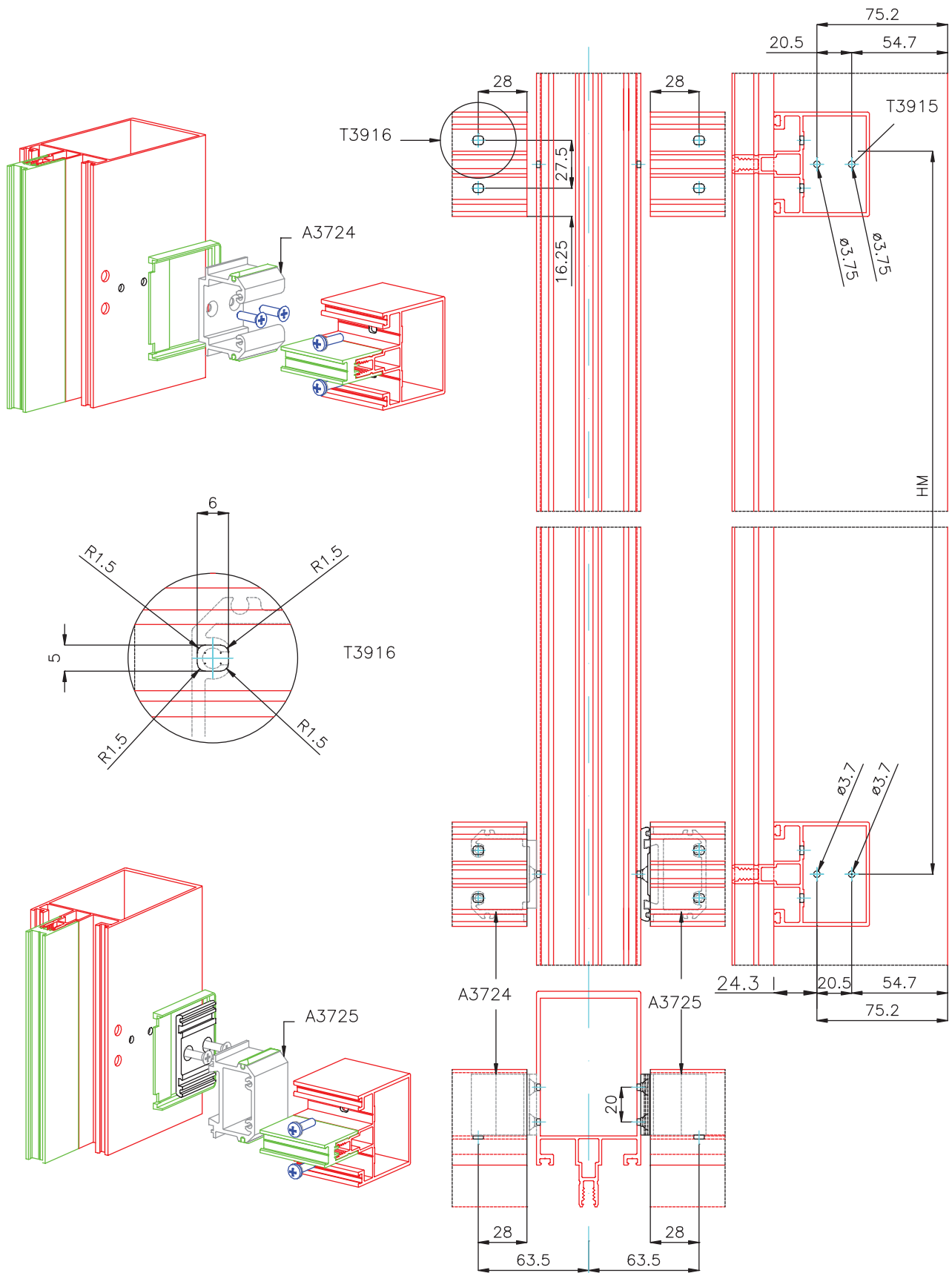
## TOOL MOUNTING ACCESSORIES COMMON HORIZONTAL INSERT WITH GUIDE



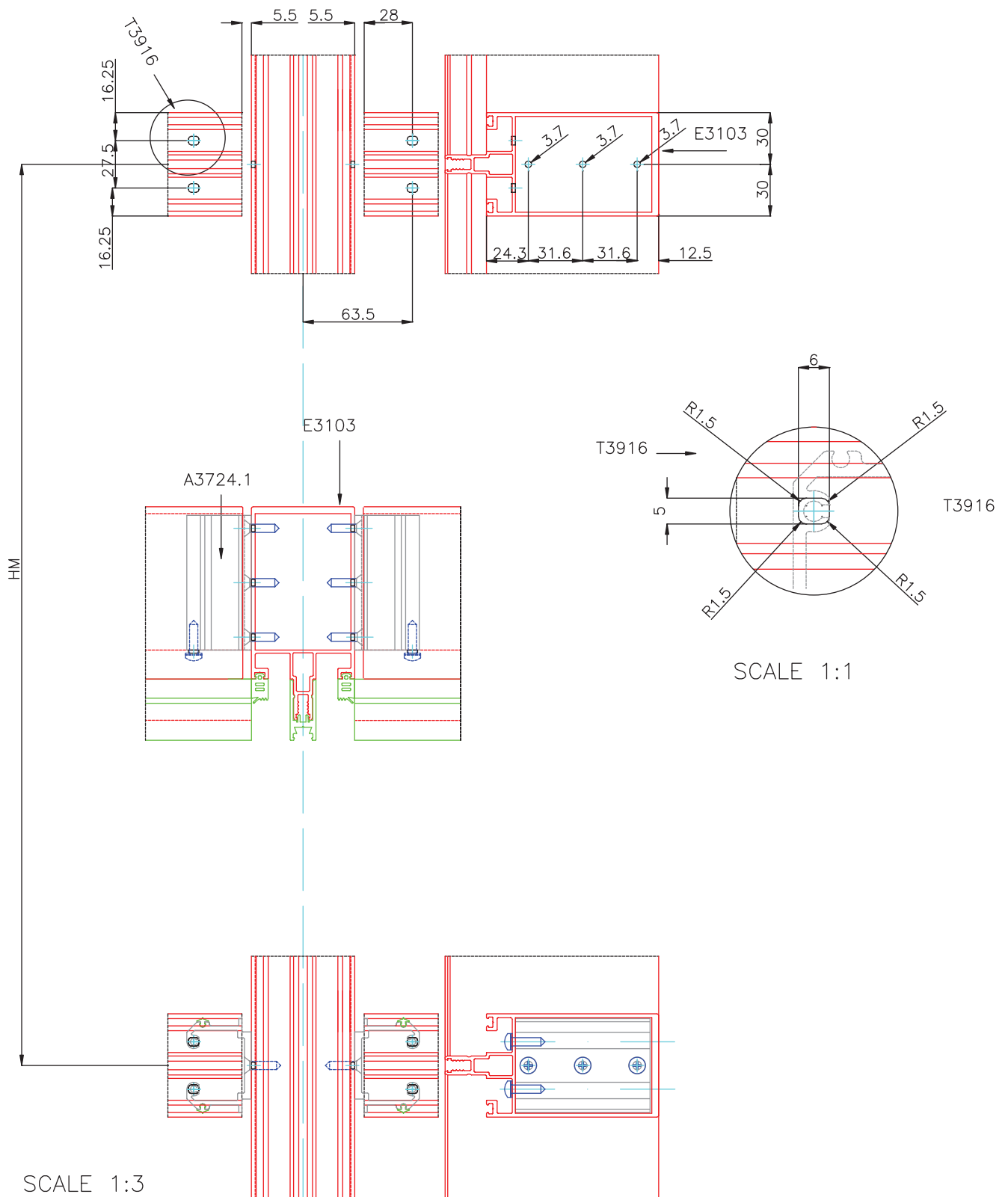
## TOOL MOUNTING ACCESSORIES COMMON T3913 COVER OPENING TRANSOM MEDIUM OR SMALLER



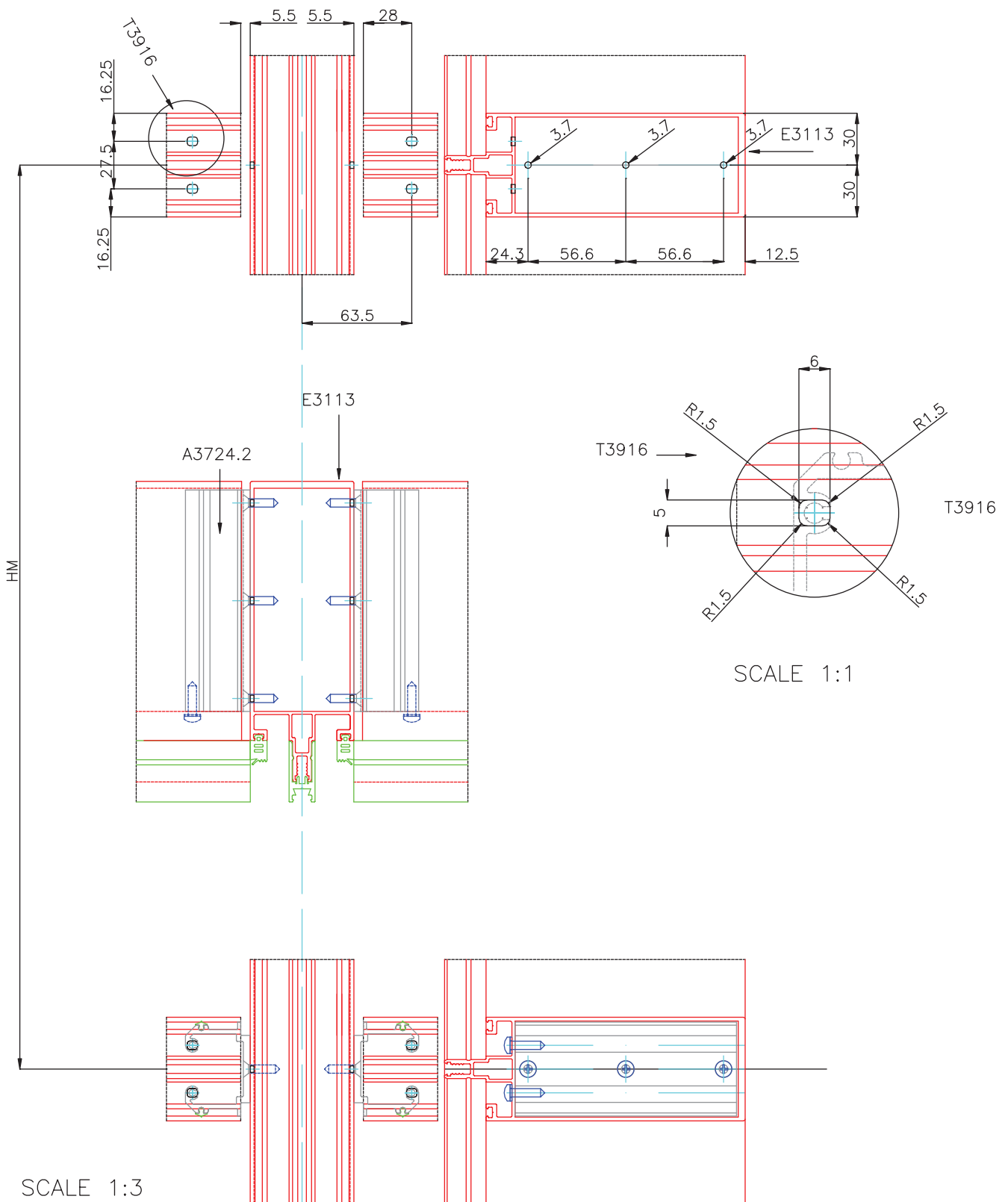
## TOOL MOUNTING ACCESSORIES COMMON T3915-16 A3724-25



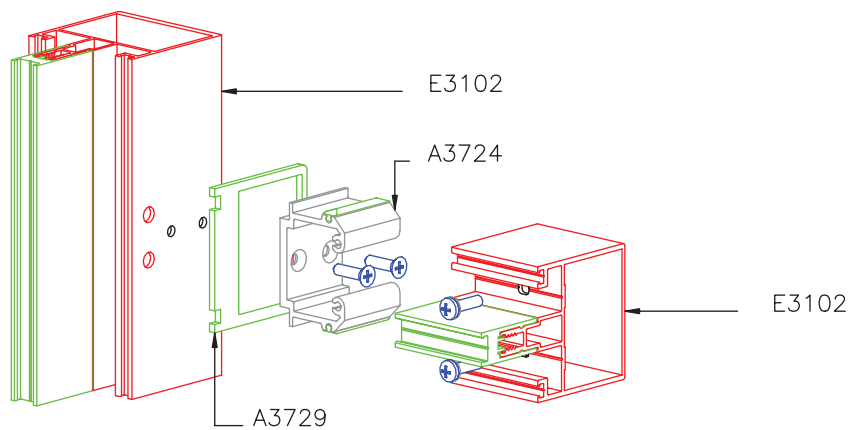
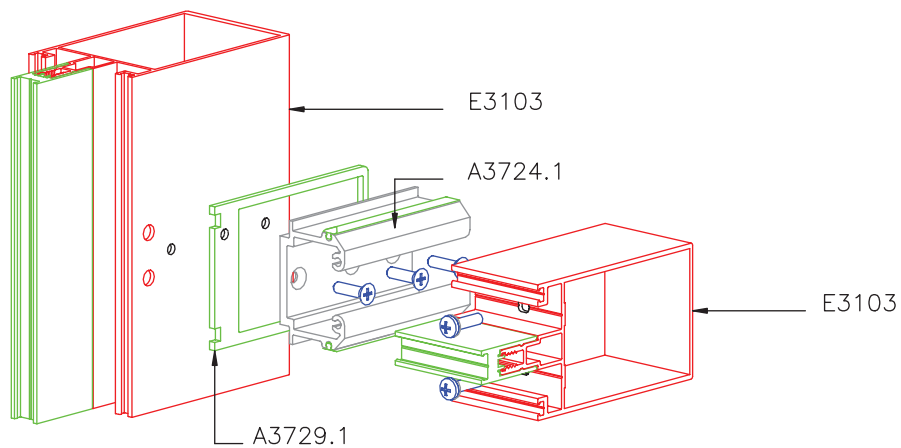
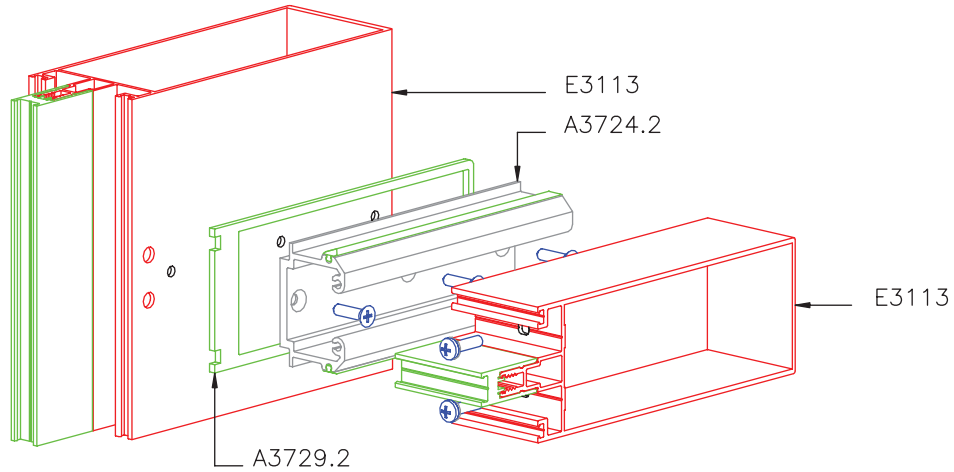
## TOOL MOUNTING ACCESSORIES COMMON T3915-16 A3724.1



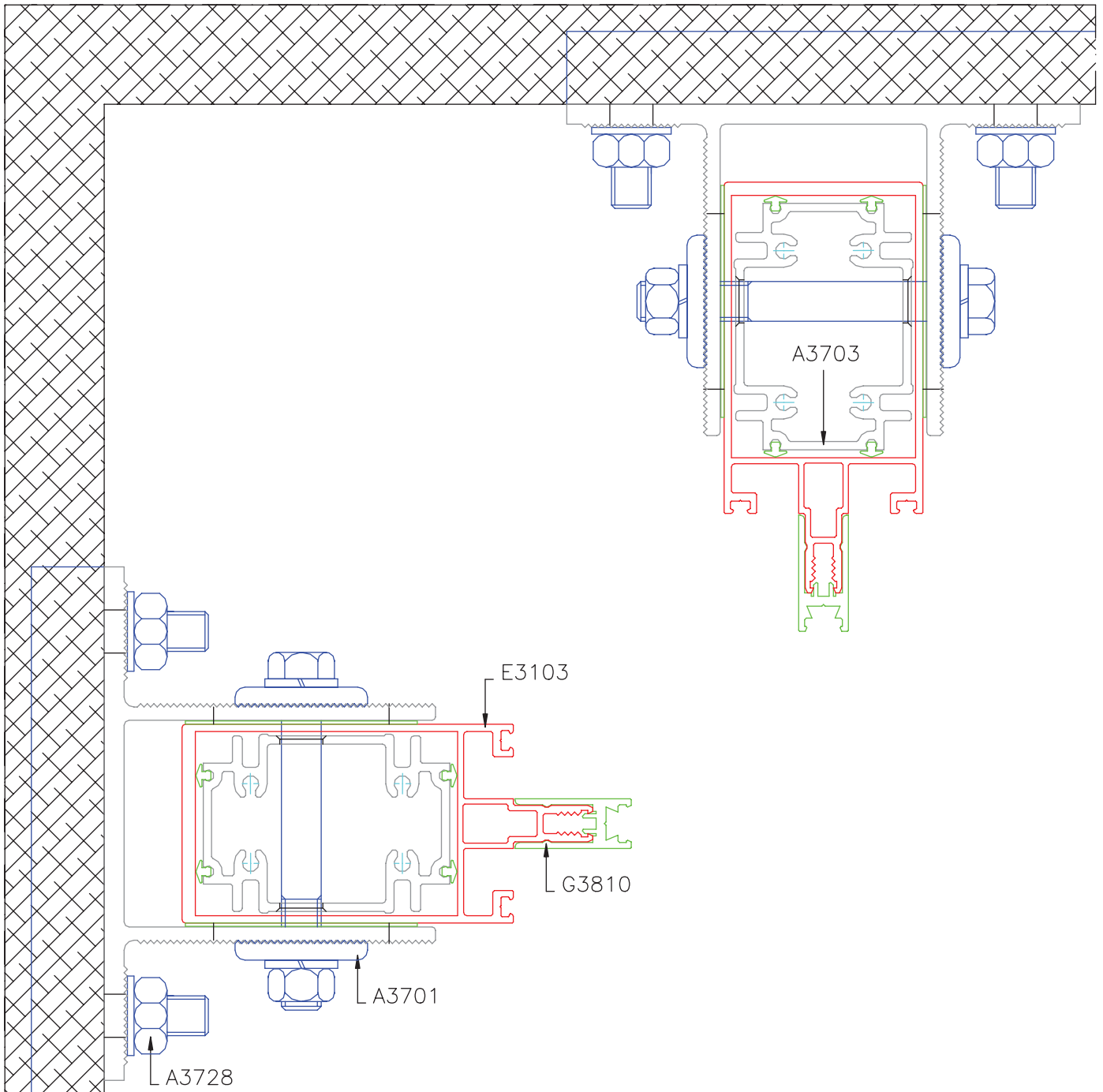
## TOOL MOUNTING ACCESSORIES COMMON T3915-16 A3724.2



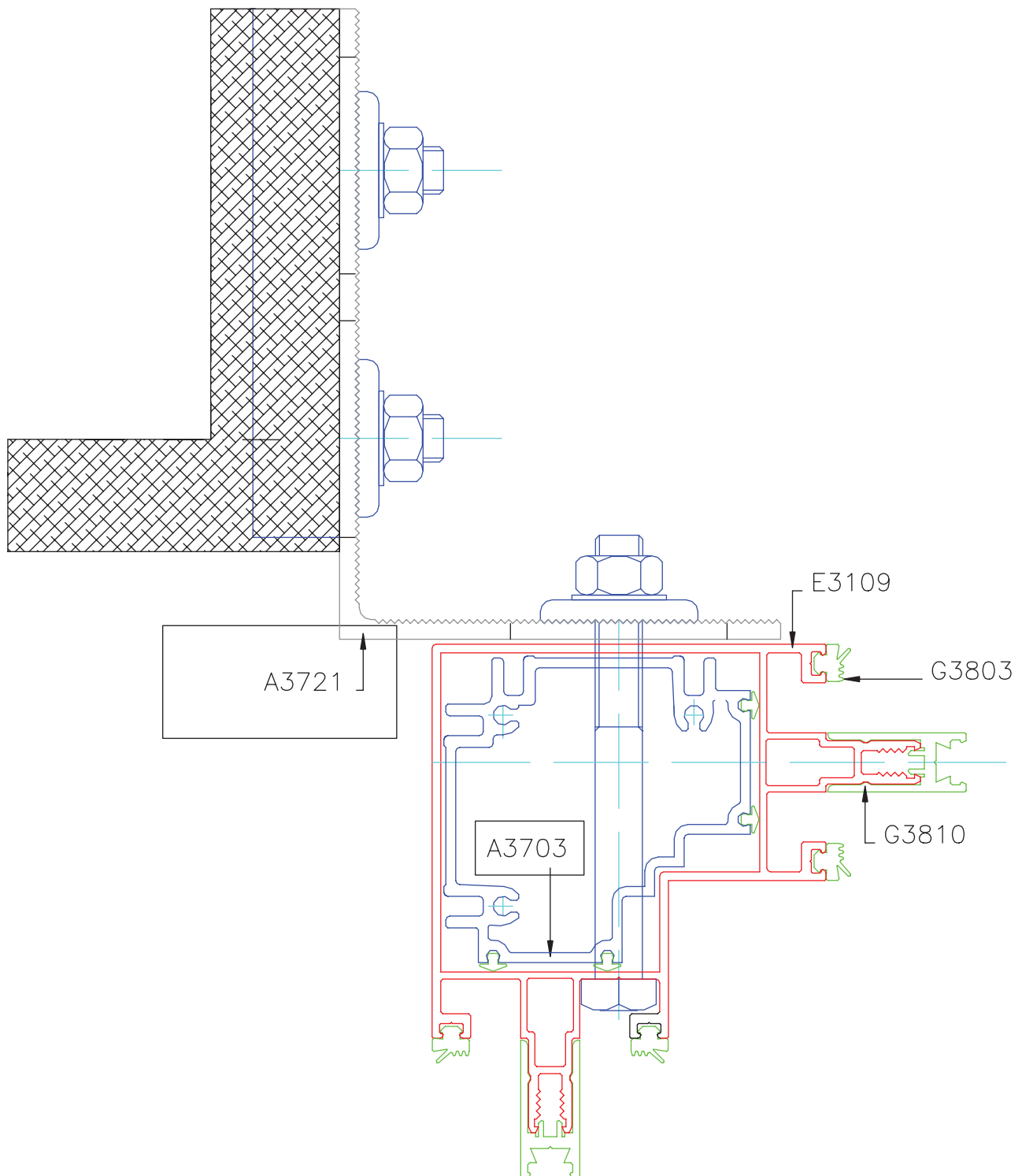
## TOOL MOUNTING ACCESSORIES COMMON A3729-A3729.1-A3729.2 AND 3724-A3724.1-A3724.2



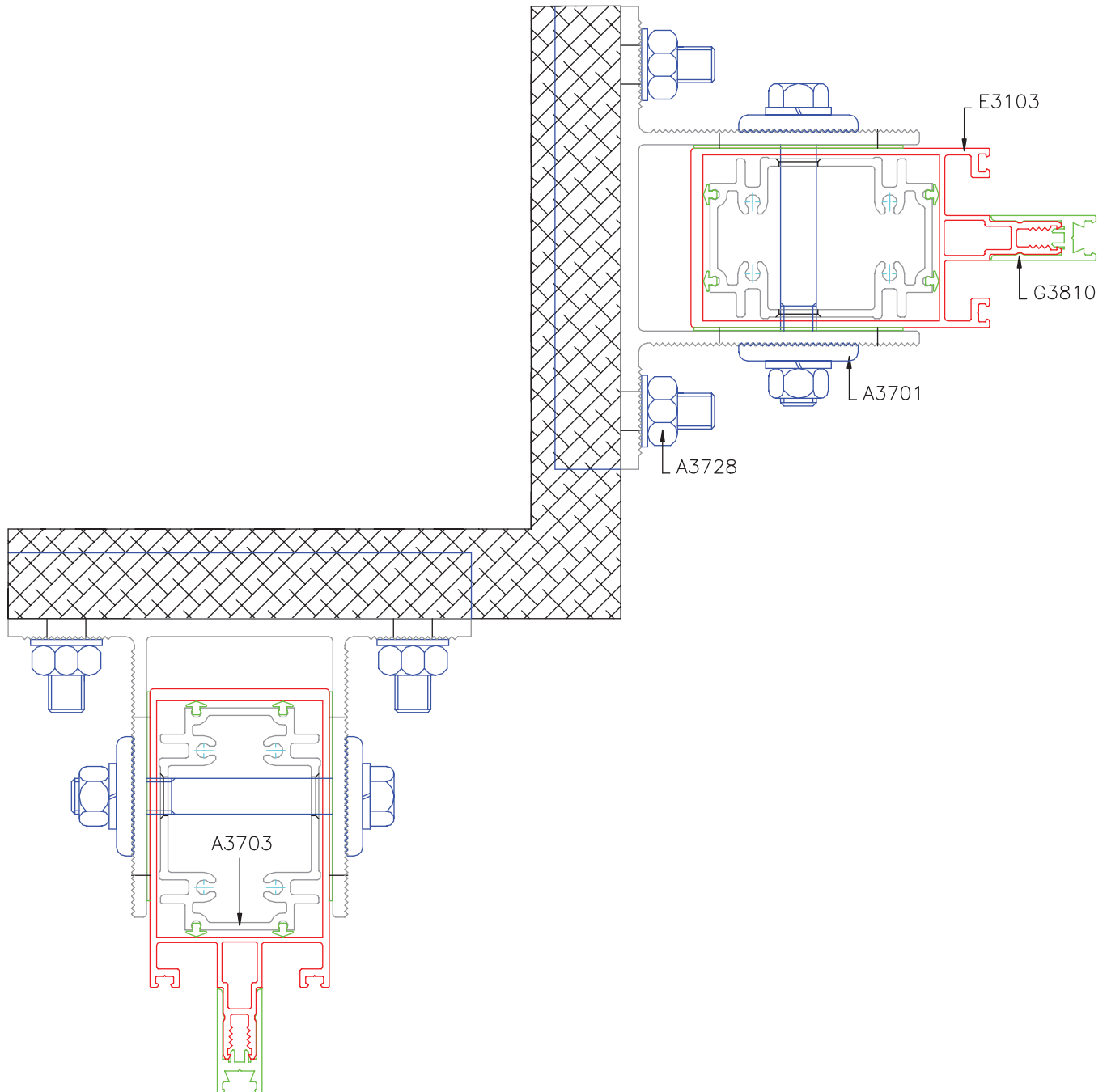
## TOOL MOUNTING ACCESSORIES COMMON INTERNAL CORNER



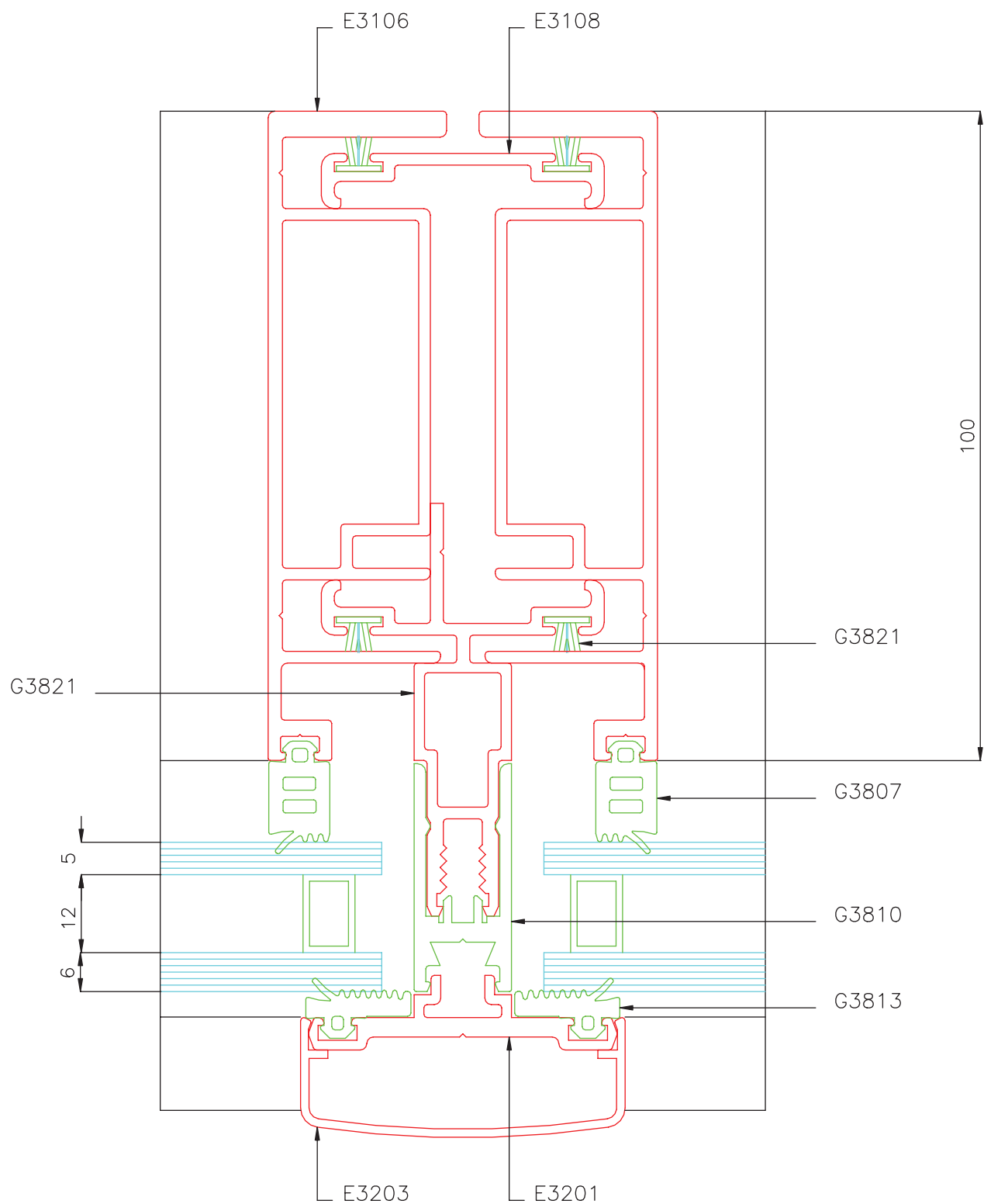
## TOOL MOUNTING ACCESSORIES COMMON EXTERNAL CORNER BRACKET SINGLE PROFILE



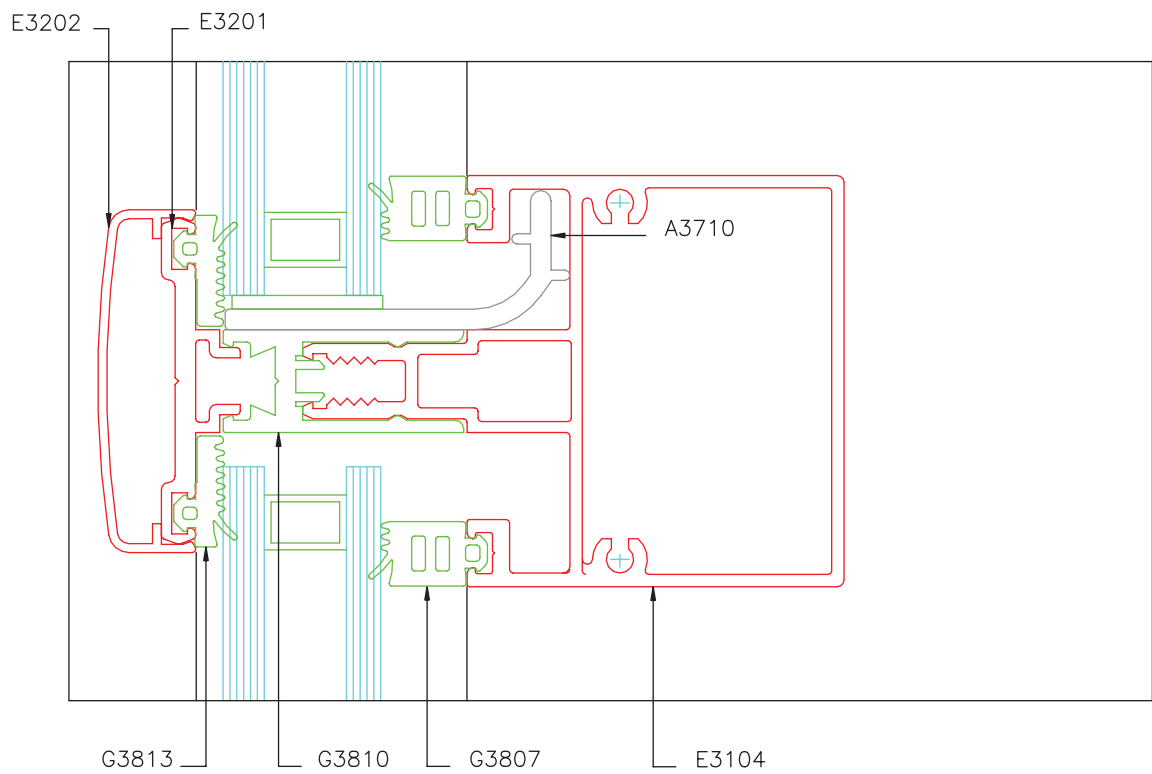
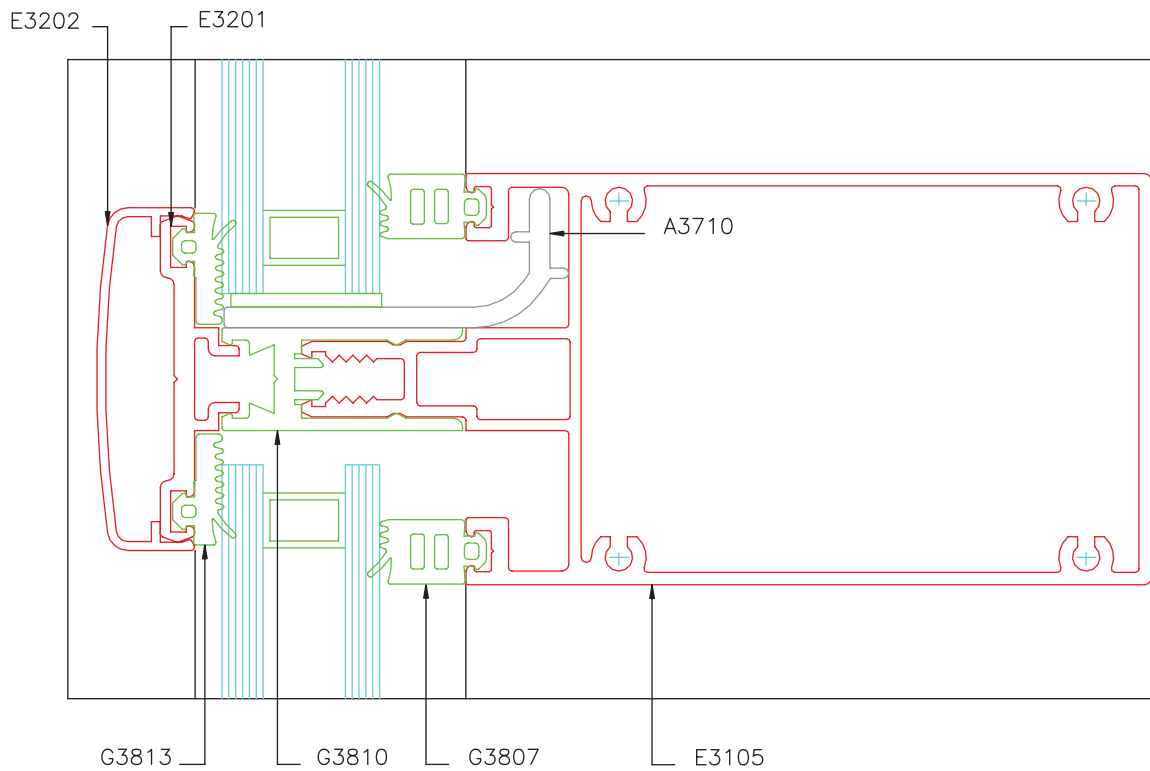
## TOOL MOUNTING ACCESSORIES COMMON EXTERNAL CORNER BRACKET



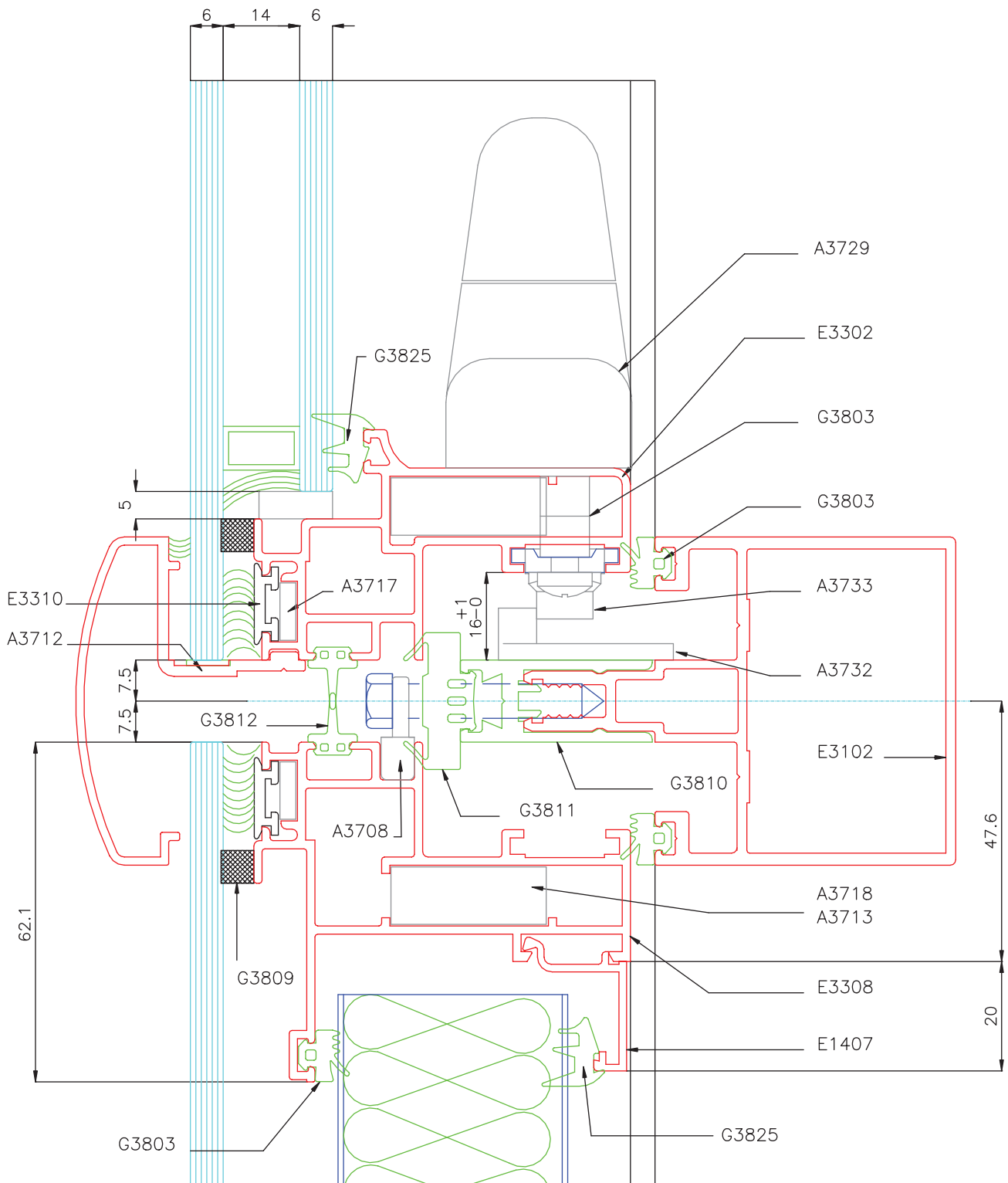
CONVENTIONAL  
JOINT DILATION



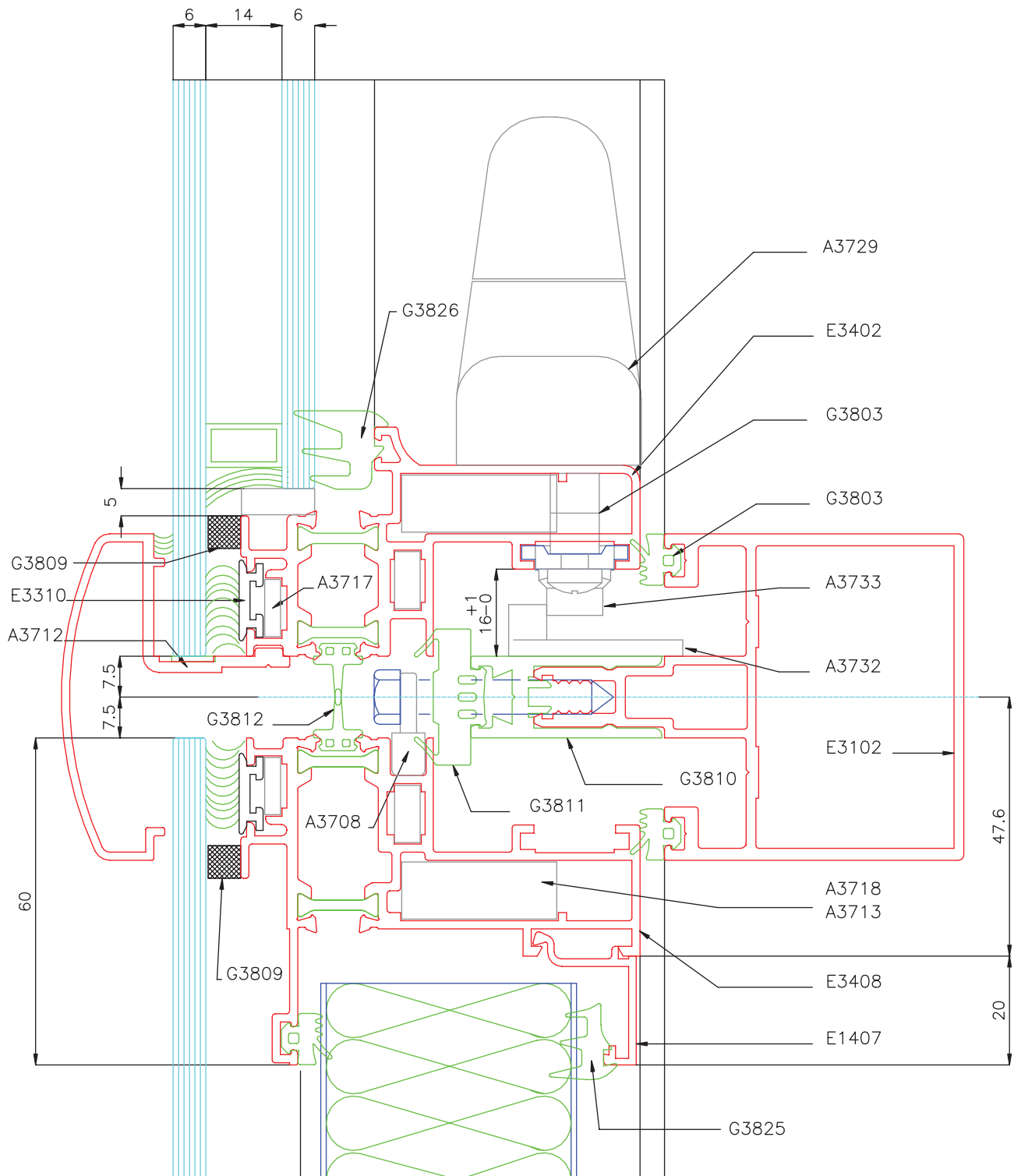
## CONVENTIONAL VERTICAL SECTION



## STRUCTURAL GLAZING VERTICAL ORNAMENTAL SECTION THERMAL BREAK



## STRUCTURAL GLAZING VERTICAL ORNAMENTAL SECTION

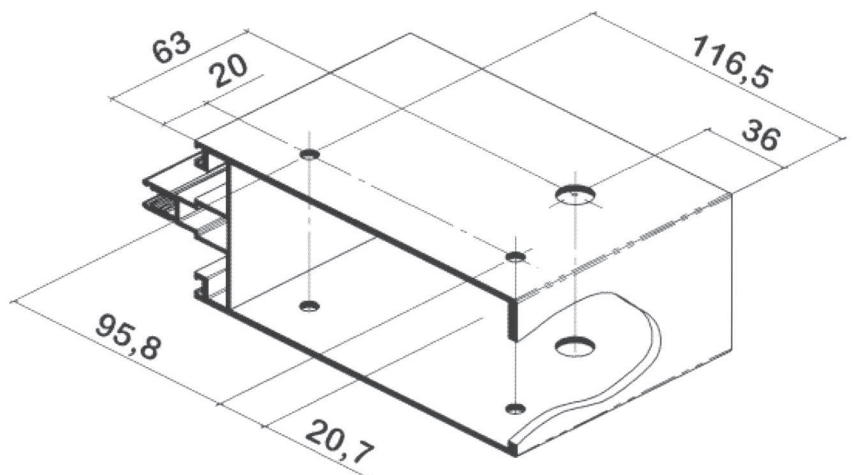
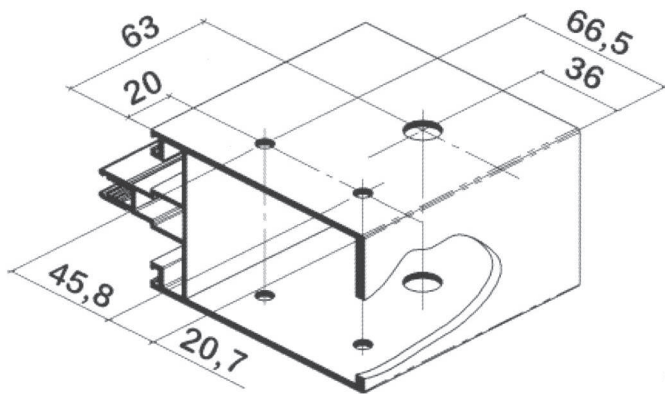
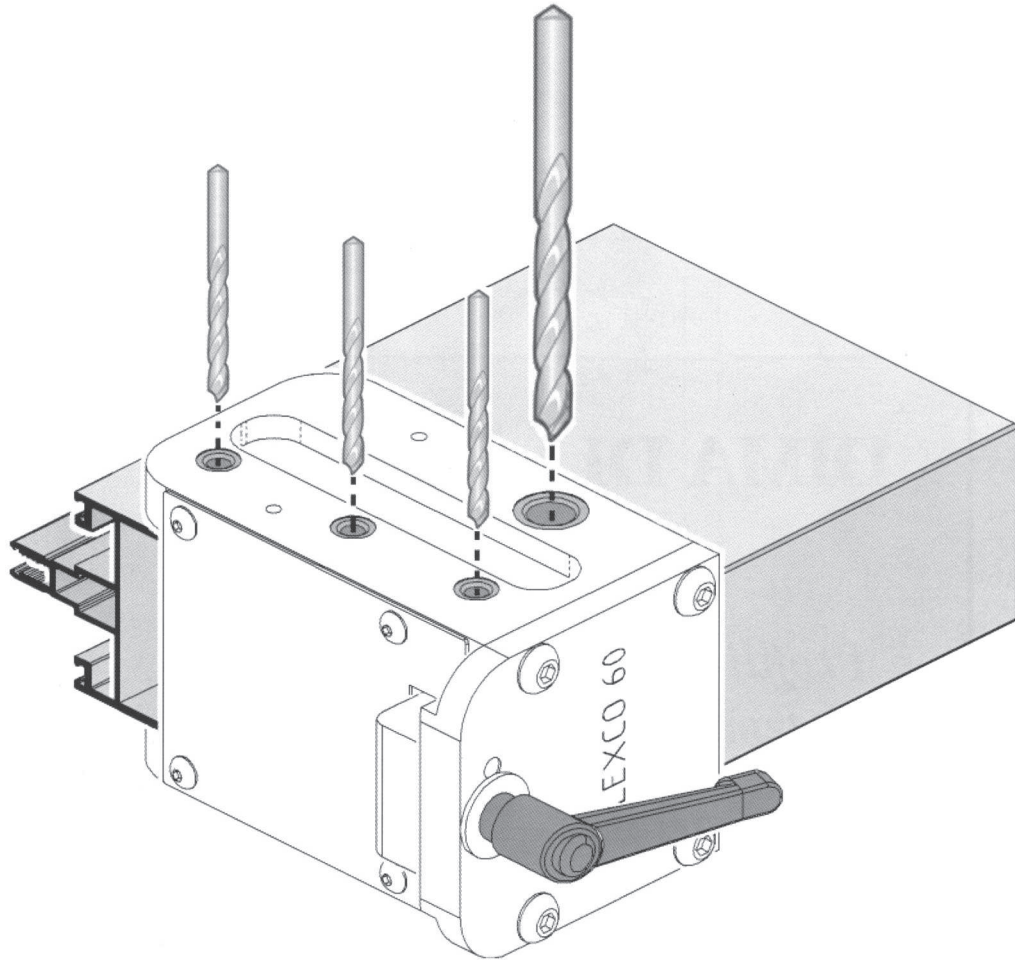


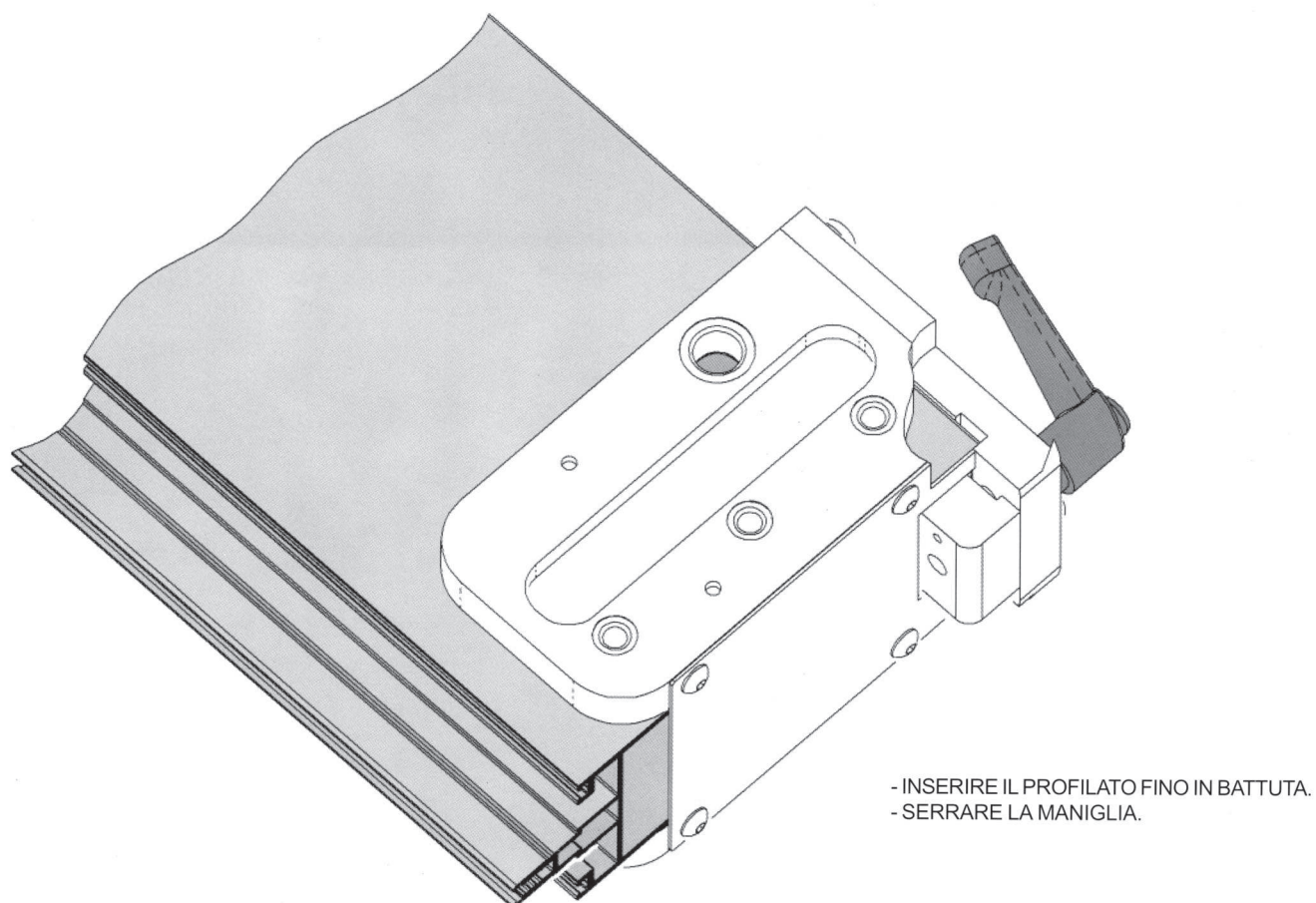
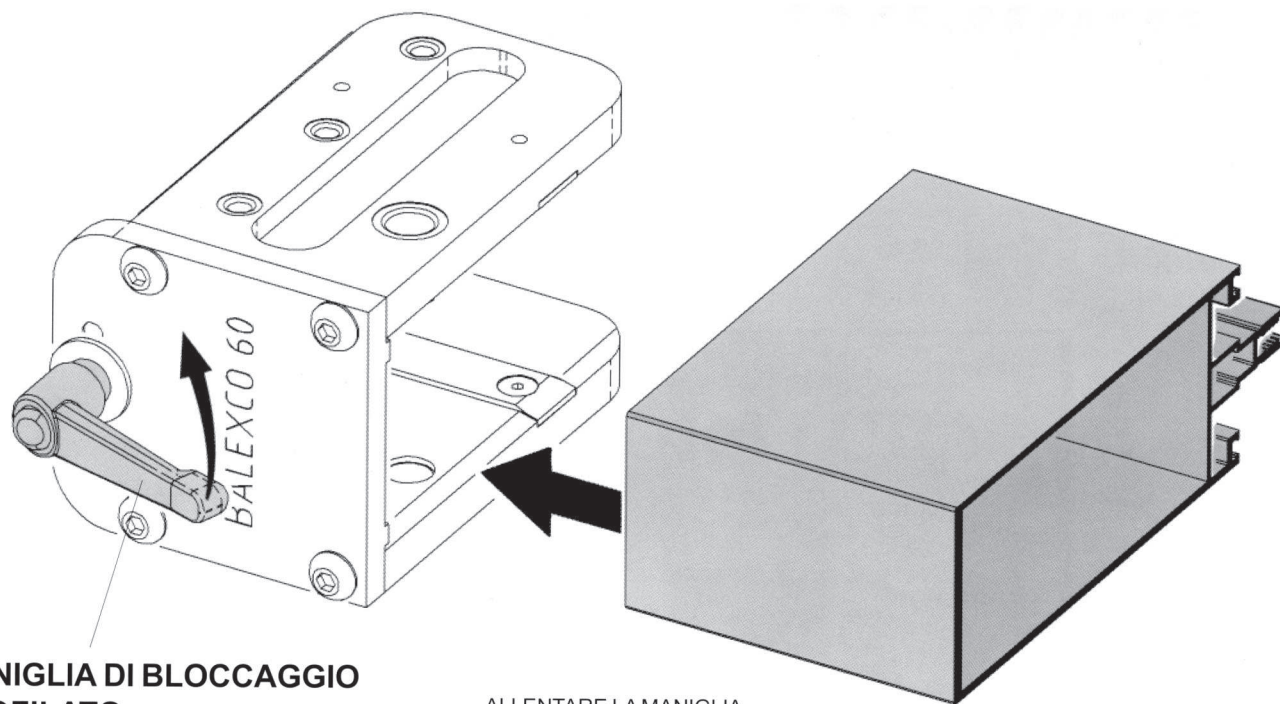


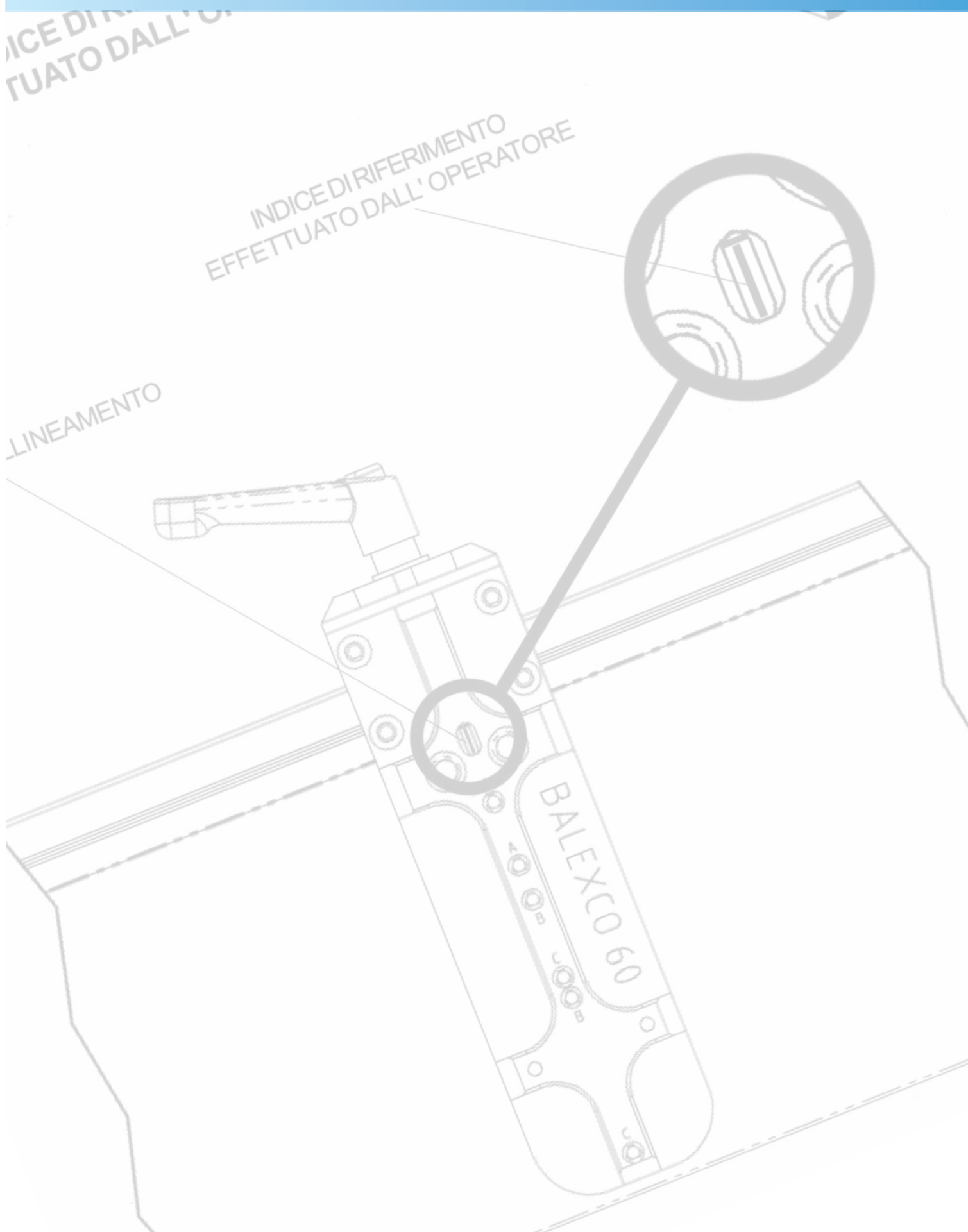
## DIMA DI FORATURA

Profili : BALEXCO  
Sistema : CW 60  
Accessori : BALEXCO  
CODICE : 400.01.55

*Schema Di Utilizzo*





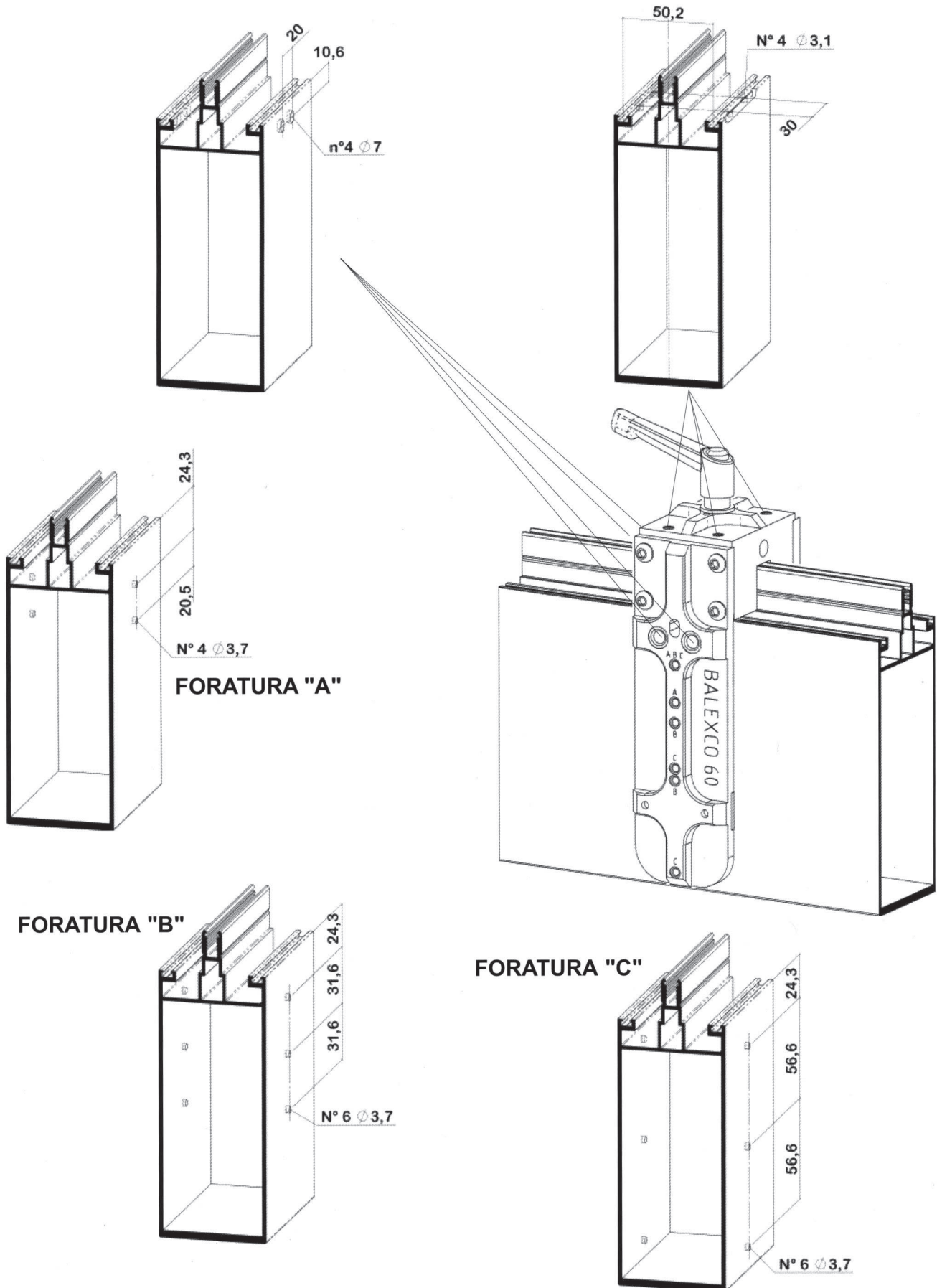


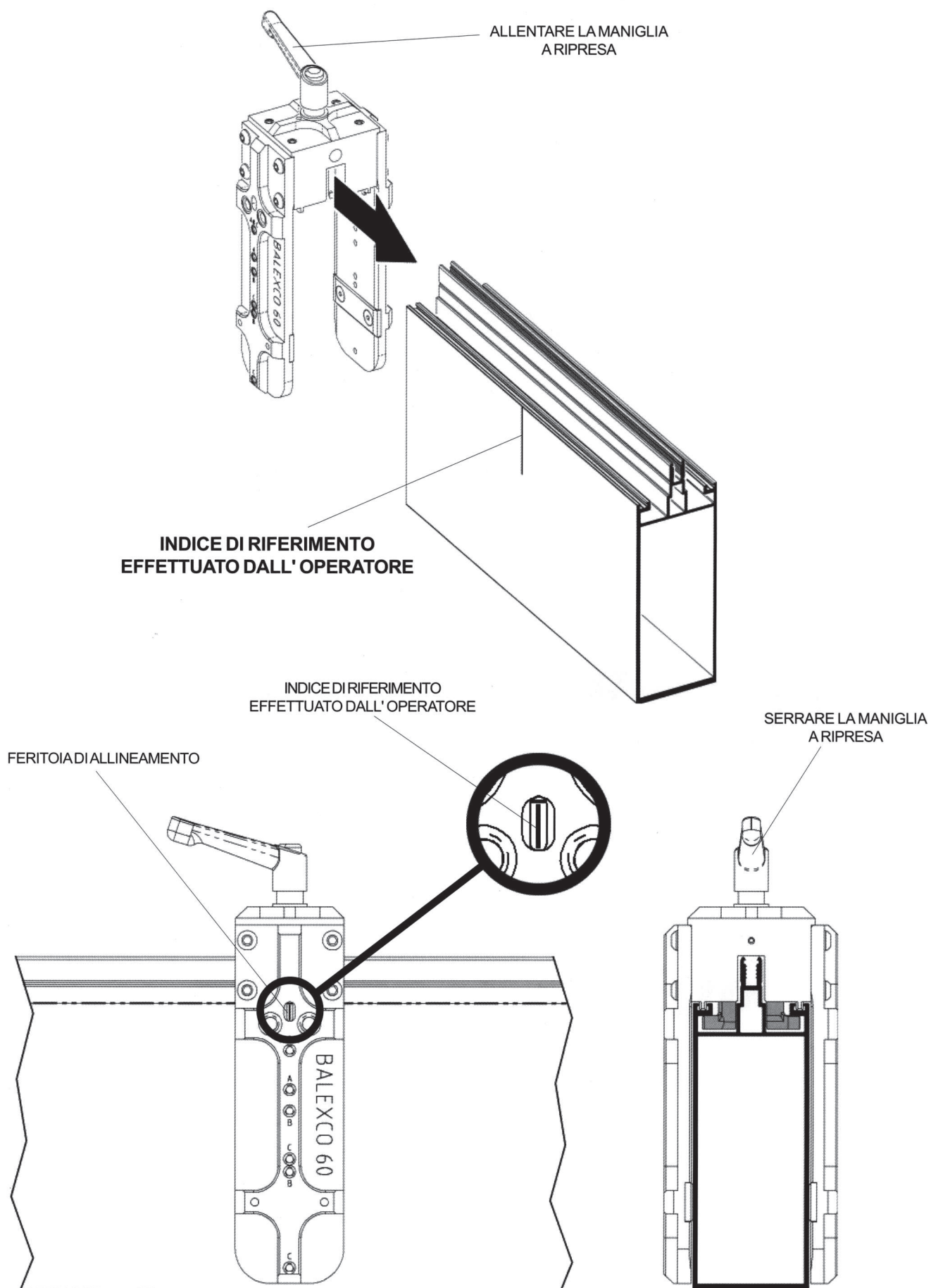


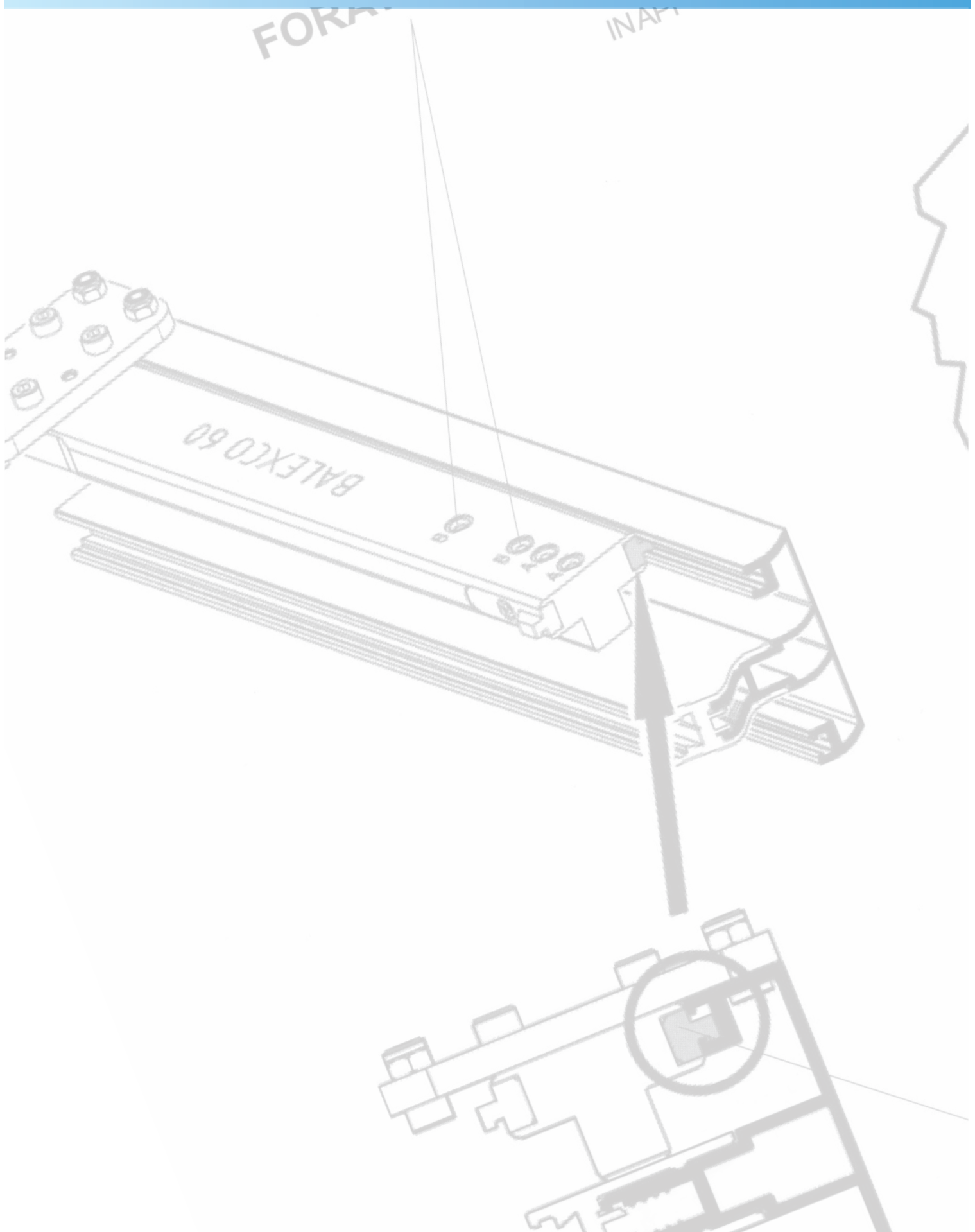
## DIMA DI FORATURA

Profili : BALEXCO  
Sistema : CW 60  
Accessori : BALEXCO  
CODICE : 400.01.56

*Schema Di Utilizzo*





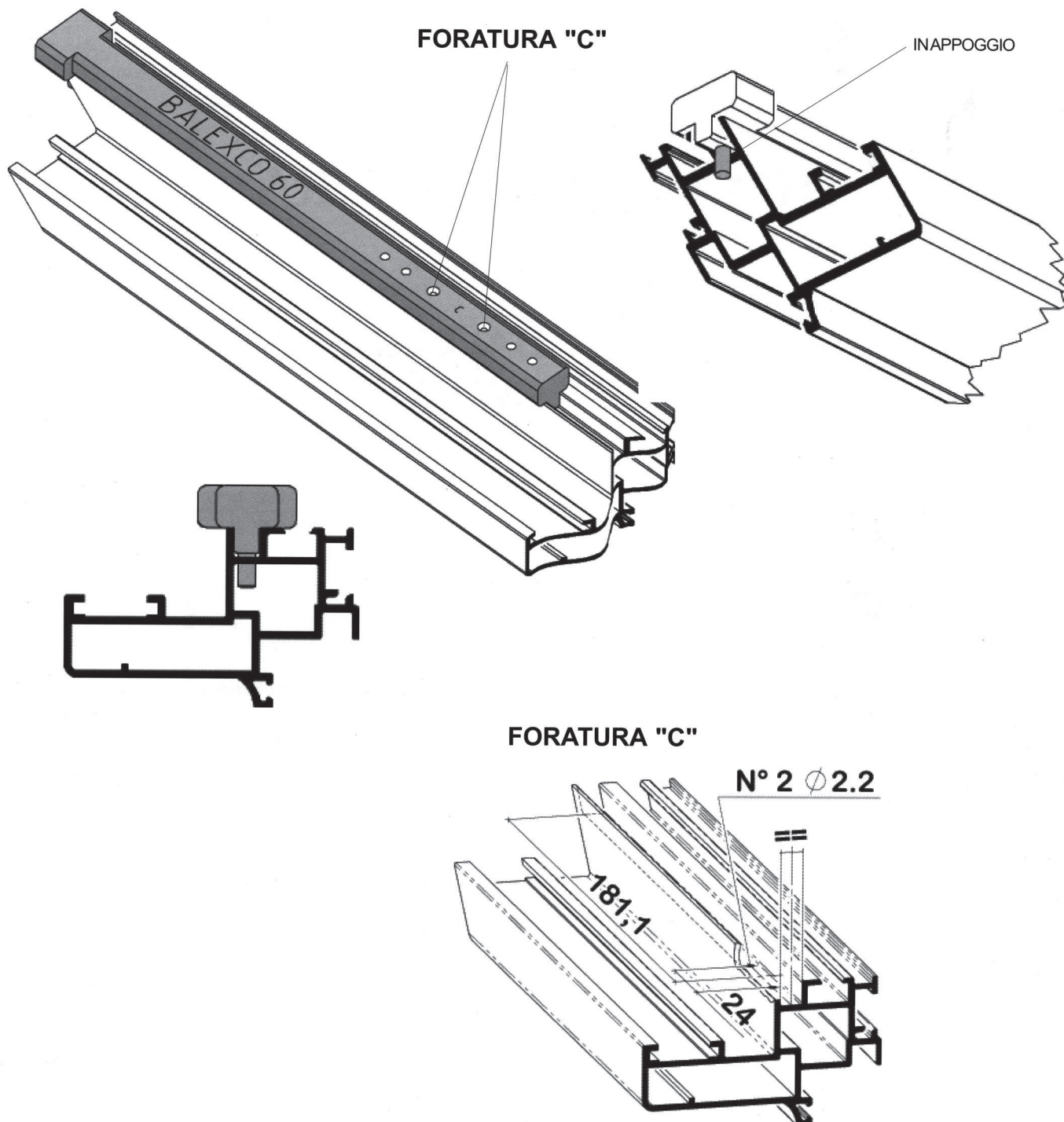


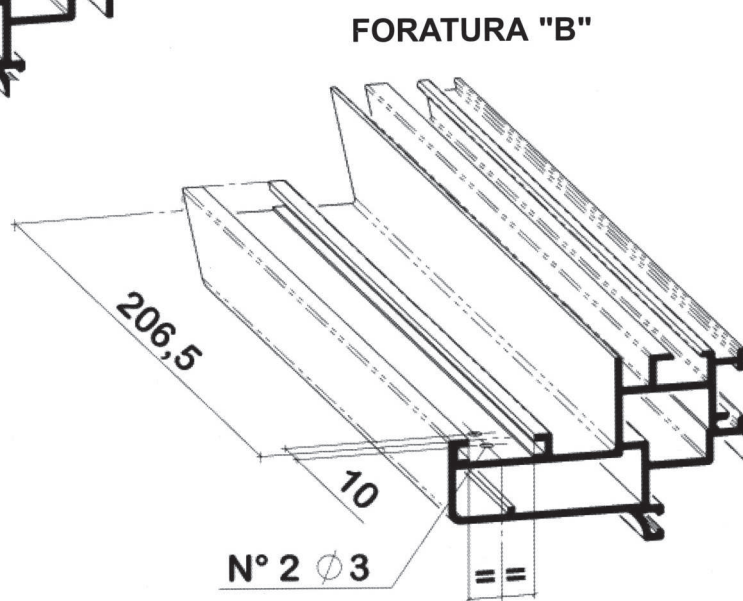
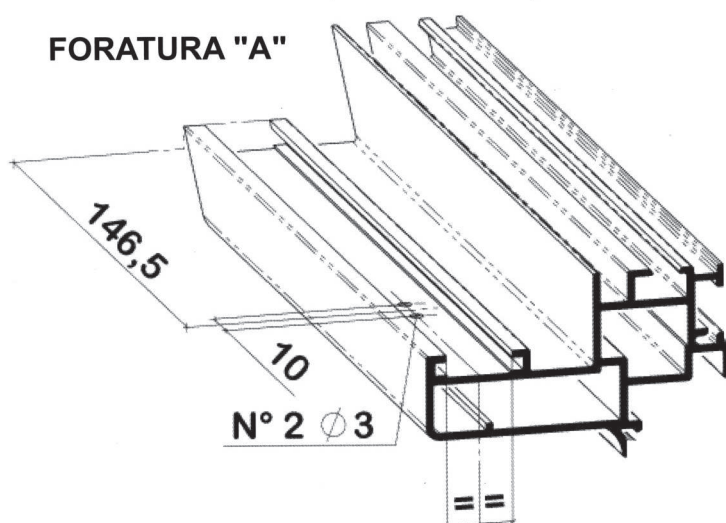
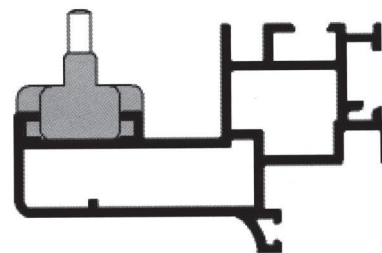
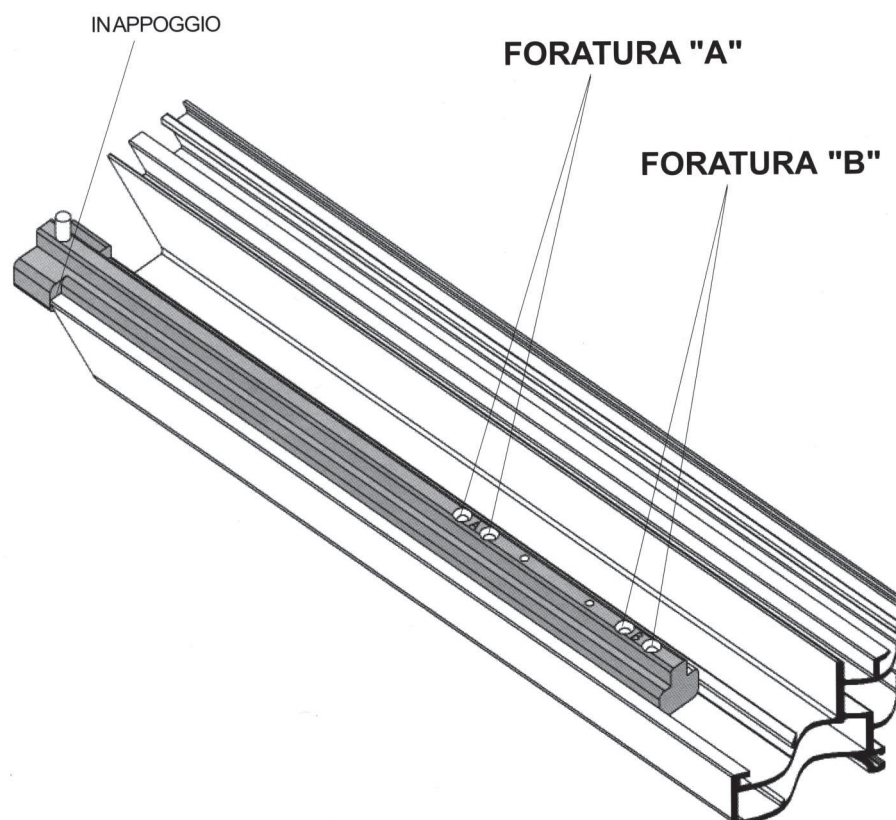


## DIMA DI FORATURA

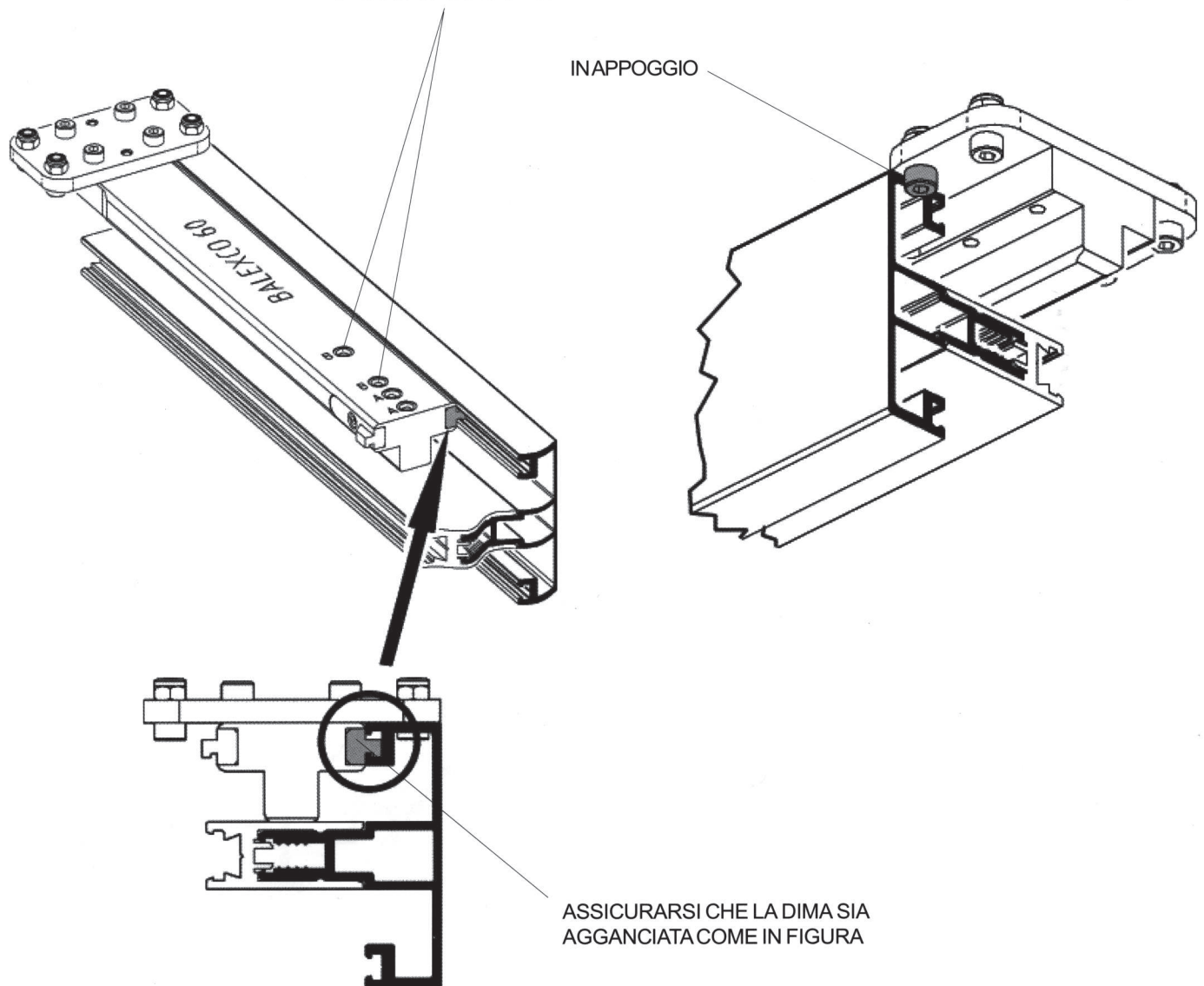
Profili : BALEXCO  
Sistema : CW 60  
Accessori : BALEXCO  
CODICE : 400.01.57

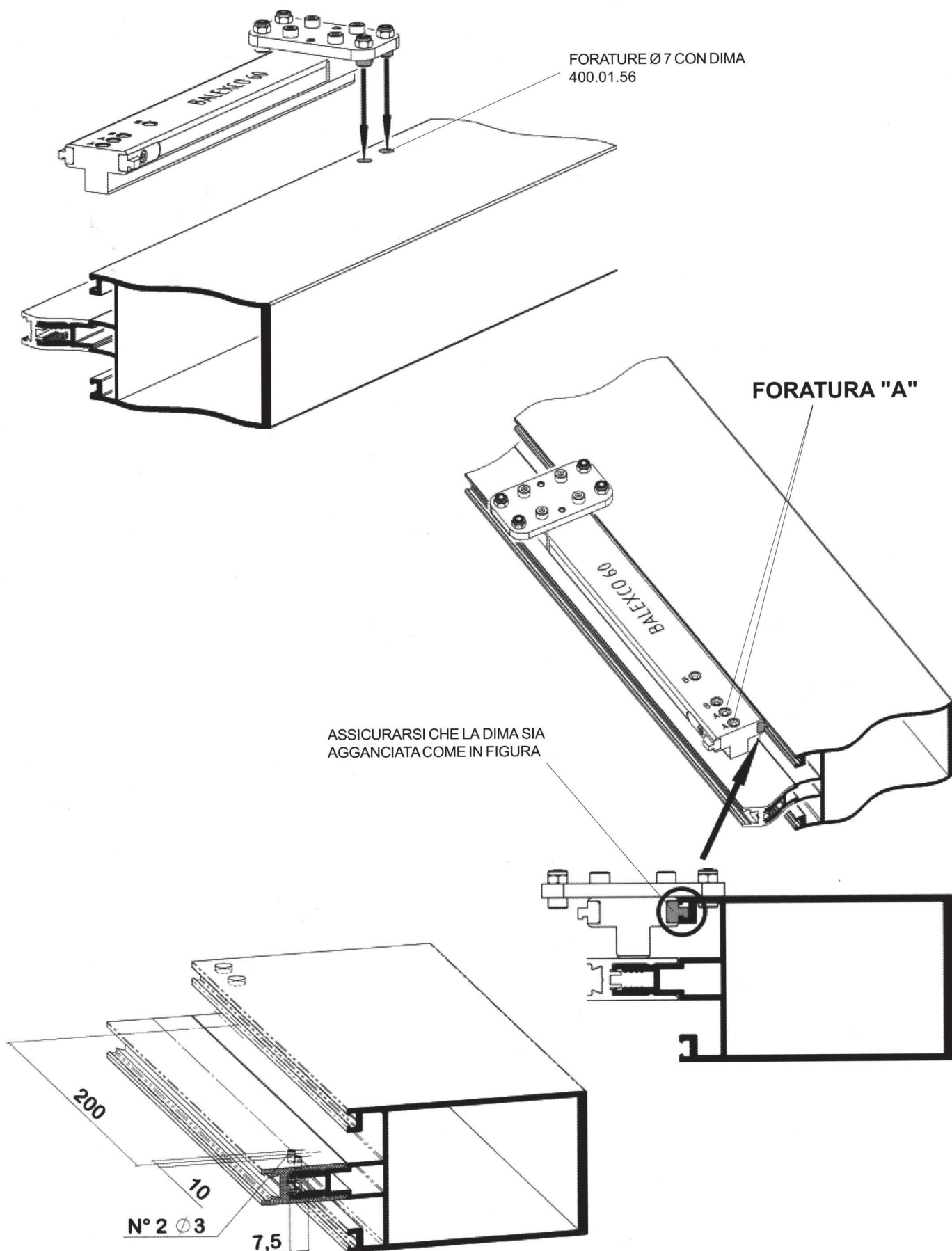
*Schema Di Utilizzo*





## FORATURA "B"





**The system described is in 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.**