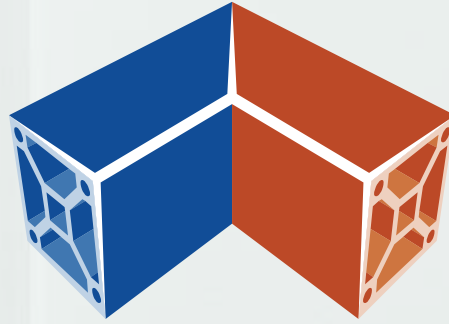




QALEX

الشركة القطرية لسحب الألمنيوم

QATAR ALUMINIUM EXTRUSION CO.

REEM 64 SLIDING-NON THERMAL T-REEM 64 SLIDING-THERMAL

**QALEX SYSTEM
TECHNICAL CATALOGUE**

QATAR ALUMINIUM EXTRUSION COMPANY



QALEX

الشركة القطرية لسحب الألمنيوم

QATAR ALUMINIUM EXTRUSION CO.



**REEM 64(SLIDING-NON THERMAL)
T-REEM 64 (SLIDING-THERMAL)**

P.O. Box: 201698, New Salwa Industrial Area, Doha - QATAR.
Phone: (+974) 44 333 555 / 541 / 540, Fax: (+974) 44 333 500,
Mail: info@qalex.com.qa
www.qalex.com.qa

COMPANY PROFILE



COMPANY PROFILE :

Qatar Aluminium Extrusion Company is the brainchild of QIMC (Qatar industrial Manufacturing company) jointly hosted along with other business tycoons of Qatar, viz. Salam International Investment Ltd, Alutec, Qatar Real Estate Investment Co., Aluminium Gulf Ray, Qatar Oman Investment Co. & Qatar Belgium Aluminium Co.

Multi Million project proudly designed and built with state of art technology plant & equipment majestically located at the pink zone of new industrial area. The plot of 28,000 sq mtrs aesthetically landscaped and engulfing a steel structure of 13,000 sq mtrs which houses modern extrusion production facilities.

CAPABILITIES & FACILITIES:

We are equipped with the following world class equipment.

- Japan origin 2250 MT Extrusion Press with 4S (Stem Shift Short Stroke) technology with an annual capacity of 8,000 MT to 10,000 MT.
- US origin Hot Log Shear which allows to reduce both material inventory and scrap generation because it cuts the billets to correct length as needed targeting maximum yield.
- US Origin log oven with designed capacity of 4,000 Kgs of output per hour.
- US Origin taper quench unit of billets for achieving quality extrusion by maintaining constant extrude temperature and very much essential for aluminium extrusions.
- US Origin Intense run our cooling system for both hard & architectural alloys.
- US Origin Double puller operation for improved productivity & short idle time.
- US Origin Stretcher which deliver precise accurate stretching which enhances profile quality and keeps scrap to a minimum.
- US Origin Precision profile cutting finish saw delivers a highly accurate cut with accuracy, safety and easy to use and with maximum cutting length up to 8,500 mm & extendable further on special cases.



- US Origin Ageing oven are designed to deliver rapid complete ageing of profile in every batch which translates into maximum profile quality.
- Die ovens are engineered for quick and uniform heating resulting in less strain on the press and better quality for extrusion.
- Fluidized Nitriding furnace to enhance the surface quality of the products.

OUR PRODUCTS:

A) MILL FINISH

- Mill Finish.
- Architectural Alloys i.e. 6063.
- Structural Alloys i.e. 6061 & 6082.
- Other 6000 series alloys on availability.
- Minimum cut length 1,500 mm.
- Maximum cut length of 8,500 mm.
- Excess cut length in mill finish can be considered on special request and to a whopping 16m for some sections.
- With different temper like T4, T6 etc.
- Large number of profile forms and shapes can be developed on request.

B) POWDER COATING

- Powder Coating in many RAL colour.
- Maximum profile length of 7,500 mm.
- Equipped laboratory to test coting quality.
- 70 to 80 microns international standard coating thickness.
- Minimum 60 microns confirmed coating thickness.
- Powder for international renowned brand.
- Regionally accepted guarantee period for coating.



QALEX ADVANTAGES FOR QATAR:

- Locally based company with easy & economical accessibility.
- Technical assistance is available at hand reach.
- Immediate response to quality related issues.
- No border hassle for documental procedure.
- No bulk import and naturally no revenue block.
- Less inventory and so reduced storage space and no cash block.
- Quicker supply time which helps for quicker mock up work.
- Everything is in JIT basis (Just in Time).
- Flexible terms and condition on sales / shipment.

QATARI ESSENCE IN QALEX:

- Hosted by Qatar Industrial Manufacturing Company.
- Ably co – hosted and supported by Salam International Investment Limited, Alutec, Aluminium Gulf Ray, Qatar Real Estate Investment Co., Qatar Oman Investment Co., and Qatar Belgium Aluminium Co., (All are Qatar based Company).
- The Products are procured, manufactured & fabricated in QATAR.
- Added value as raw material is produced by QATALUM.
- Powder supplied by KAHRAMAA, a Qatari Government Corp.
- Gas produced by QP & distributed by WOQOD.
- Reduced material wastages, which are totally recycled.



SOURCE OF RAW MATERIAL SUPPLY

ALUMINIUM LOGS:

- Aluminium Logs supplied by QATALUM, A Qatari Government Company.



- Architectural Alloys i.e. 6005 & 6063 ,6060.
- Structural Alloys i.e. 6082 & 6061.
- Other 6000 series alloys on availability.

POWDER COATING:

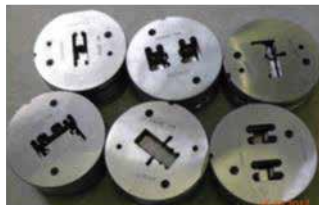
- Powder coating supplied by JOTUN POWDER COATINGS & AKZONOBEL.



- Powder coating available in many RAL colour.

ALUMINIUM EXTRUSION DIE & TOOLINGS HAS BEEN OUT SOURCED FROM MANY SUPPLIERS ACROSS EUROPIEN REGION:

- ALUTOOL, UK.
- EROGA, UK.
- ELITE, UK.
- EKSENAL, TURKEY.
- Many more.



CERTIFICATES



CERTIFICAT

CERTIFICADO

‘ΕΡΤΗΓΡΑΦΗ

証書

CERTIFICATE

ZERTIFIKAT



CERTIFICATE

The Certification Body
of TÜV SÜD Middle East L.L.C.

certifies that



Qatar Aluminium Extrusion Company
P. O. Box: 201698, New Industrial Area
Doha, Qatar

has established and applies
a Quality Management System for

**Manufacturing and Supply of Aluminium Extruded
(Mill Finish & Powder Coated) Profiles**

An audit was performed, Report No. **50343**

Proof has been furnished that the requirements
according to

ISO 9001:2008

are fulfilled.

The certificate is valid from **2017-03-28** until **2018-09-14**

Certificate Registration No. **ME 9K 0095 DAC**

[Signature]

Dubai, 2017-04-04



CB-021

TÜV®

TÜV SÜD Middle East L.L.C. , P.O. Box: 2834, Empire Heights Tower A, Business Bay, Dubai, United Arab Emirates



Quali Middle East Association

MEMBERSHIP CERTIFICATION

This is to certify that

QATAR ALUMINIUM EXTRUSION CO.

P.O BOX 201698, DOHA, QATAR

Membership Ref.: A031

is a member of the Quali Middle East Association and is a signatory to
the policies and procedures related to the membership of the
Association.

Period of validity of the certificate: until 31.12.2017

Dubai, 15 December 2016

QUALI MIDDLE EAST ASSOCIATION

Nasir Fahmeed
General Secretary

Mailing address: QMEA, P.O. Box 23070
Office 1801, 48 Burj Gate, Burj Khalifa Community
Downtown, Sheikh Zayed Road
Dubai, United Arab Emirates

Phone: +971 4 321 2317
Fax: +971 4 321 1986
E-Mail: admin@qualimiddleeast.com
Internet: www.qualimiddleeast.com

QMEA Professional License No: 577213 issued by Dubai Economic Department



QALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



الجمعية الوطنية
للبناء الأخضر
QATAR GREEN
BUILDING COUNCIL
Uniting the industry
to build a better Qatar

REEM - 64
T - REEM



Licence number: 4203



ORGANIZATIONAL



QATAR ALUMINIUM EXTRUSION CO.
MEMBER SINCE JAN 04, 2017

The U.S. Green Building Council is the nation's foremost coalition of leaders working to transform the way buildings and communities are designed, built, and operated, enabling an environmentally and socially responsible, healthy, and prosperous environment that improves the quality of life.

Mahesh Ramaniyam

MAHESH RAMANIYAM
President & CEO



Together,
let's build
a sustainable
tomorrow

Certificate of Membership

This to certify that

Qatar Aluminium Extrusion Co.

is an Organization Member of Qatar Green Building Council
and is committed to promote sustainable building practices

Membership No: O-1116 Membership effective 1st Jan 2017 to 31st Dec 2017


Mesher Mohammed Al-Shamari
Director
Qatar Green Building Council



CERTIFICATE OF QUALITY



This is to certify that

Qatar Aluminium Extrusion Company

fulfills the requirements set by Technoform in the assembly of quality Thermal Break Systems.
The aforementioned company possesses adequate technical know-how, and uses only genuine
polyamide strips made of PA66/GF25, in compliance with Technoform's standards.


Technoform Middle East
Managing Director



Certified till August, 2017

TECHNOFORM MIDDLE EAST



Certificate of Approval

Qatar Aluminium Extrusion Co.

is certified as an Approved Applicator to coat

Jotun Durasol

a product from Jotun Powder Coatings

This company fulfils the requirements set by Jotun Powder Coatings for pre-treatment and application of powder coatings. These include having the necessary equipment, process controls and technical knowledge to comply with Jotun Powder Coatings' standards.

January 01, 2017

(Certificate valid for one year from date above)




Authorised Signatory
Jotun Powder Coatings UAE (LLC)



Certificate of Approval

Qatar Aluminium Extrusion Co.

is certified as an Approved Applicator to coat

Jotun Super Durable

a product from Jotun Powder Coatings

This company fulfils the requirements set by Jotun Powder Coatings for pre-treatment and application of powder coatings. These include having the necessary equipment, process controls and technical knowledge to comply with Jotun Powder Coatings' standards.

January 01, 2017

(Certificate valid for one year from date above)



Authorised Signatory
Jotun Powder Coatings UAE (LLC)



AkzoNobel

Interpon D Approved Applicator

Interpon D1000 Series

Qatar Aluminium Extrusion Company

P.O. Box 201698, New Industrial Area, Doha,
Qatar

Has fulfilled AkzoNobel's tests and inspection regarding the pre-treatment, application, quality management standards and procedures, and complies with the requirements of the Architectural Range Approved Applicator schedule.

This certificate is effective from

6 September 2016 to 5 September 2017

Approved for Aluminium Alloys AA 6061 and AA 6063

Approved for Pre-treatment Type Chrome - free

Esmeralda Maria Malo
Business Development Manager
Middle East and Africa

Date: 18/09/2016

Certification number N° QAT05D1

AkzoNobel U.A.E. Paints L.L.C.



GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



**REEM - 64
T - REEM**



Licence number: 4203



Interpon®
powder coatings
EVERY COLOR IS GREEN

AkzoNobel

Interpon D Approved Applicator



Interpon D2000 Series

Qatar Aluminium Extrusion Company

P.O. Box 201698, New Industrial Area, Doha,
Qatar

Has fulfilled AkzoNobel's tests and inspection regarding the pre-treatment, application, quality management standards and procedures, and complies with the requirements of the Architectural Range Approved Applicator schedule.

This certificate is effective from

6 September 2016 to 5 September 2017

Approved for Aluminium Alloys AA 6061 and AA 6063

Approved for Pre-treatment Type Chrome - free

Esmeralda Maria Malo
Business Development Manager
Middle East and Africa

Date: 18/09/2016

Certification number N° QAT05D2

AkzoNobel U.A.E. Paints L.L.C.

INDEX

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T-REEM 64	33 - 63
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REEM 64 (SLIDING-NON THERMAL)



TECHNICAL DESCRIPTION OF THE SYSTEM:

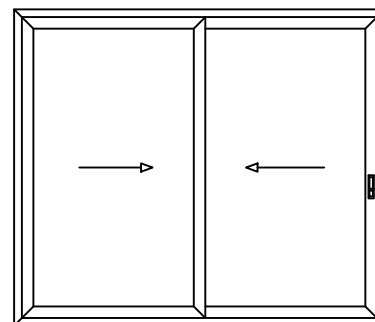
System description:

Aluminum profiles system, hardware and gaskets for the fabrication of Sliding Window & Doors with single and double glass .

Aluminum alloy: EN-AW-6063 (EN 573-3 EN 755-2)

Alloy treatment: T 6

Dimensional tolerances: UNI-EN 12020-2



System features and characteristics:

The Depth of Fixed Frame is 64 mm & Flap Depth is 35 mm, with an overlap in the interlock of 11 mm.

The Bars are able to accept the accessories for the corner connection . The Profile are Softline designed ,with regular or curved beads cut at 45° or 90°, with or without corner finishing pieces. With Glazing Gap range 29.8 - 11 mm.

Mechanical Characteristics:

Elastic Limit : > 16.5 KG/MM

Elongation : 10%

Breaking Strength : 22 KG/MM

T : > 24 N/MM (After Surface Treatment)

System performances:

This system have been tested and classified according to norms the European standards and norms EN 14351 -1:2006 At Mater Lab Italy -Test No:062016INT

Air Leakage : EN 12207

Water Resistance : EN 12208

Wind Load : EN 12210/12211

Sealing Type Air - Water:

The sealing is guaranteed by a central sealing gasket in EPDM-Rubber ASTM Tested. and second barrier, Constituted by a sealing gasket is in the flap by the inside overlap. & Glazing is done with EPDM Sealing Gasket.

System dimensions:

The Dimensional limits of Fabrication are as a direct Consequences of the wind pressure, or the accessories capacities, and the glazing weight.

Field of application:

The system have been created and studied to be apply on private buildings as well on public buildings and high rise towers.

Design features:

The system it is composed of various design solutions including all types of projecting windows and others openings. The external lines are lightly rounded conferring to the profiles a good design and equilibrate sections. The system it is design in order to insure good performances and have at the same time a modern style.

Surface Treatment:

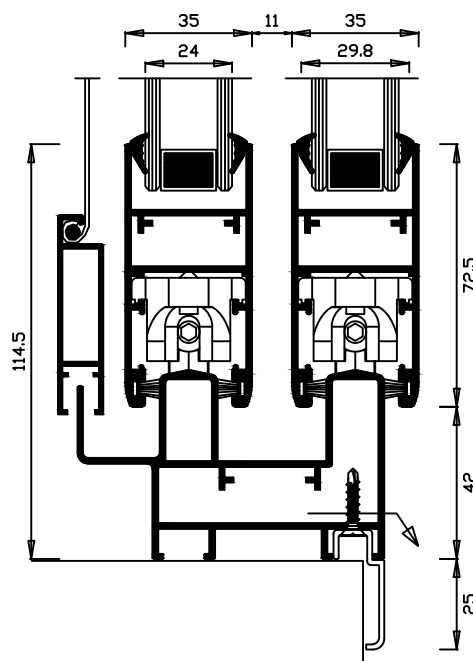
All the surface treatment are conform to the quality labels QUALICOAT for Powder Coating and QUALANOD for anodization.

Anodizing we guarantee the minimum thickness of 15 micron up to 25 microns according to international norms.

The powder coating is done with thermosetting and Polyesters Polymeric powders, the profiles are finished into special coating ovens, where the powders reach the right hardness through a heat treatment.



ALUMINUM PROFILES SYSTEM FOR SLIDING WINDOWS & DOORS	
SYSTEM DIMENSIONS AND DESCRIPTION	
FIXED FRAME DEPTH:	65 mm
SLIDING FRAME DEPTH	35 mm
SEALING:	BY DOUBLE GASKETS
SECTION DIMENSION	115 - 95 MM
ACCESSORIES:	SYSTEM ACCESSORIES
LACHING:	MULTIPOINT LOCK
GLAZING:	MAX 29.8 mm
ALUMINIUM ALLOY	AA 6063 T6



Surface treatment resistance:

The surface treatment done according to QUALANOAD and QUALICOAT Quality labels shall be guarantee against corrosion and surface aging degradation for a period. The surface treatments shall resist to normal and marine exposition without been effected by corrosion or loss of shines. The most relevant factors influencing the surface treatment life lasting are the direct exposure to chemicals. The direct exposure in the front of the sea and/or salty water it may reduce the life lasting of the components. The exposure to heavy polluted environment may cause also problems. A regular cleaning with Ph neutral water and soaps increase the components life.

Safety:

In order to prevent injuries or/an accidents the windows and doors are to be installed as displyed into this catalogue, anchoring the components to the building and using original only accessories. The fixing should be made according to the National norms for security and safety use.

Gaskets:

The gaskets used during assembling and installing the components should be only the ones created for this system and displayed in this product catalogue. The use of other gaskets or/and brushes it may cause functional and design problems. The gaskets used should be conform to the national norms for windows and doors safety applications, do not release toxic smokes in case of fire and insure the performances during all the component life lasting.

Sealing products:

All the sealing products employed during the fabrication of the components and installing the components on the building are to be conform to the specification uses for aluminum profiles and its surface treatments. Sealing products should be PH neutral and specifically studied do not start any chemical or/and corrosive reaction with the windows and doors components, accessories, gaskets and surface treatments.

Accessories:

All the accessories used for the manufacturing, mounting, functioning and installation of this system are specifically studied for this system in order to insure performances and a correct functioning of the models. The use of others accessories different's from the ones displayed in this catalogue it may effect or/and make dangerous the functioning of the component. Only the accessories studied for this system are the ones to be used.



Ricerca – Progettazione e sviluppo industriale - Brevettazione
Attività soggetta a direzione e coordinamento di
Master S.r.l. – Accessori per serramenti – Conversano (Ba)

Test report

Test number: 042016INT

Customer: QALEX (Qatar Aluminium Extrusion CO.)

Test sequence: Air leakage EN12207; Water resistance EN12208; Wind load EN12210/12211

Test parameters: $T_{air} = 25.2\text{ }^{\circ}\text{C}$, $T_{water} = 24.0\text{ }^{\circ}\text{C}$, Rh 52.3%, pressure 999 hPa

Sample type: Sliding window, 2 sash (QALEX Reem 64)

Sample dimension: Frame W=1447 mm; H=1650 mm

Test bench

Model: ACS 3030

Max dimension test: 3000 x 3000 mm

Fan: inverter driven system with continuous check of pressure in test chamber, and continuous measurement of flow rate

Hydraulic pump: valve adjustment and continuous measurement of flow rate with infrared flow meter

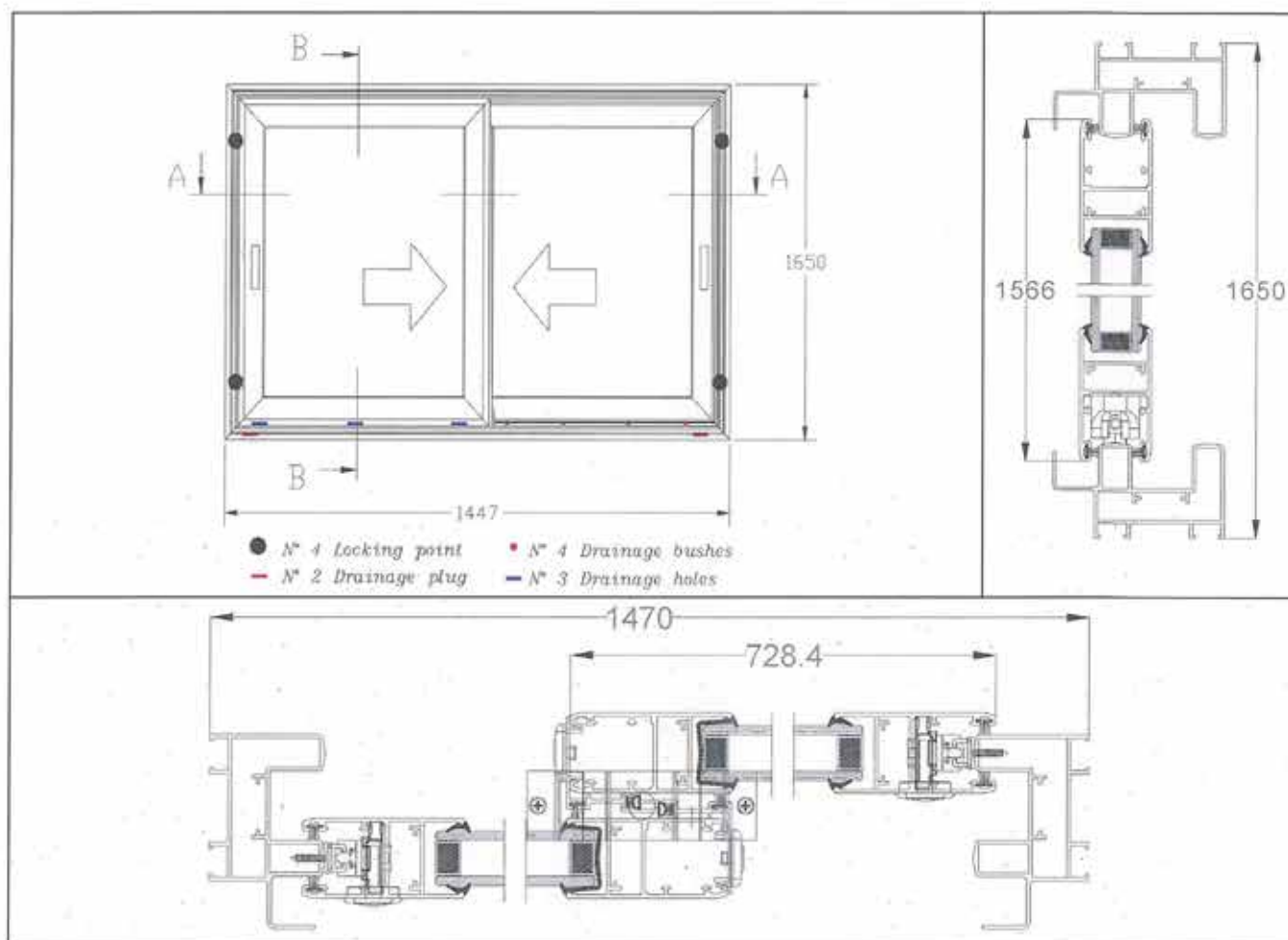
Auxiliary equipment: fog machine





THINK | CREATE | INNOVATE | INSPIRE
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Frontal view and sections:



Hardware list:

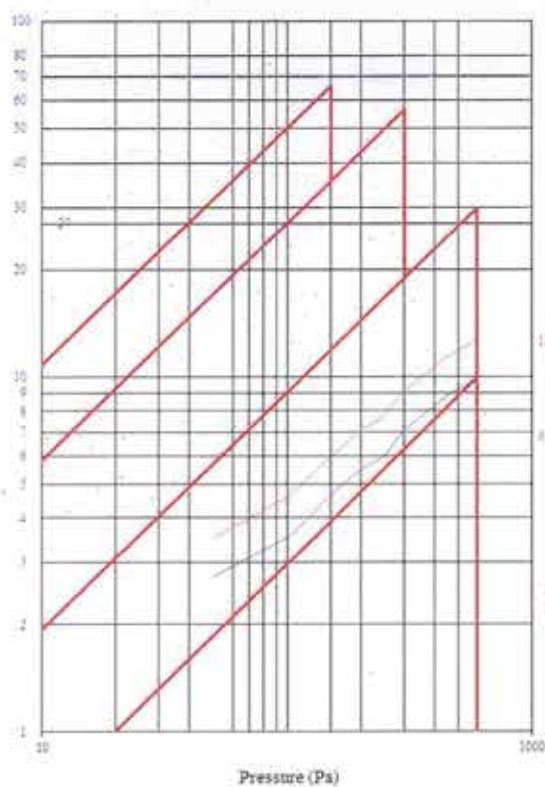
Cod.	Description	Qty
0368	Die cast aluminium corner joint 24x10.5	16
2183	Alignment corner joint	16
6392A	"FAST LOCK" Stainless steel multipoint lock - L 1000mm - 2 locking point - backset 7.5mm	2
6392A.20	"FAST LOCK" Kit for 6394 and 6394A	2
6397.1	"FAST LOCK" Embedded handle	2
6675.15	"PENDOLINO TOP" Balanced adjustable double handle - Load 90Kg (180Kg for sash)	4
6601Y.88	"TOPKIT" Assembly kit - weight sash 180 kg (standard rail)	1
G1527	Brush with three fins 6.9x7mm	



Ricerca – Progettazione e sviluppo industriale - Brevetazione
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Air leakage:



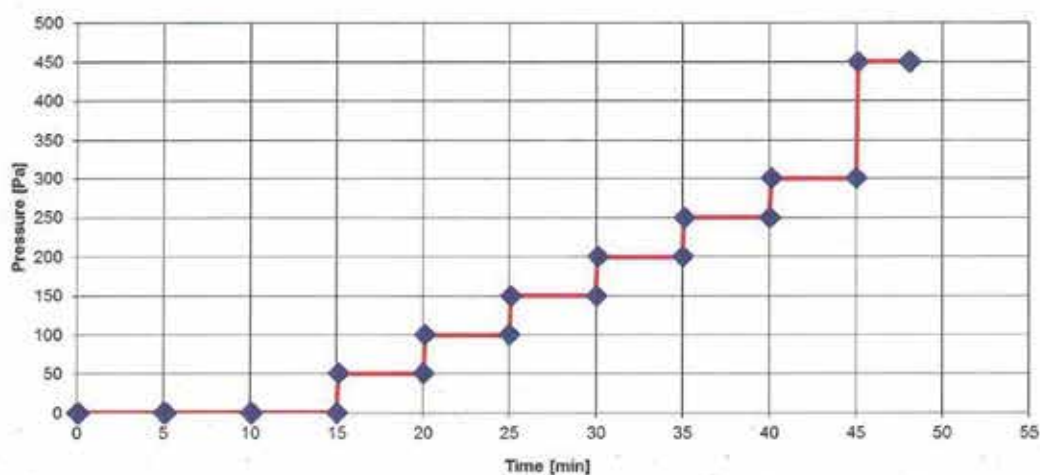
Classification: grade 3



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Water resistance:

Test sequence



Water leaks at 450 Pa

Classification: grade 7A

Picture:





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Wind load:



test pressure: ± 2000 Pa

deflection: $< 1/200$

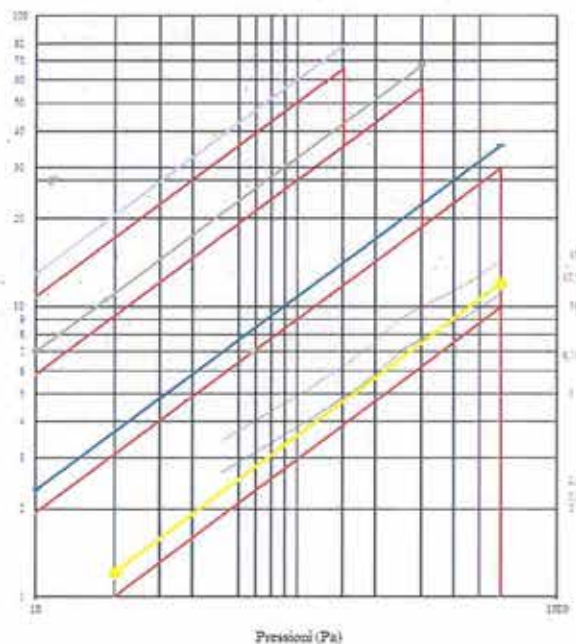
test pressure: ± 1600

deflection: $< 1/300$

safety pressure: ± 3000 Pa

classification: B5/C4

Air leakage check:



result: passed



Ricerca – Progettazione e sviluppo industriale - Brevettazione
Attività soggetta a direzione e coordinamento di
Master S.r.l. – Accessori per serramenti – Conversano (Ba)

Test results

Air leakage	Water resistance	Wind load
3	7A	B5/C4

May 31st, 2016

Lab assistant
Nicola Antonio Dentamaro

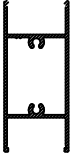
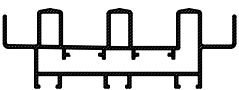
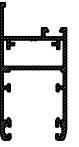
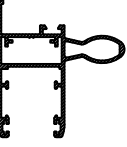
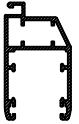
MasterLAB s.r.l.
Unipersonale

S.P. 37 Conversano-Castiglione Km. 0,700
70014 CONVERSANO (BA)
C.F./P. IVA 06835770725



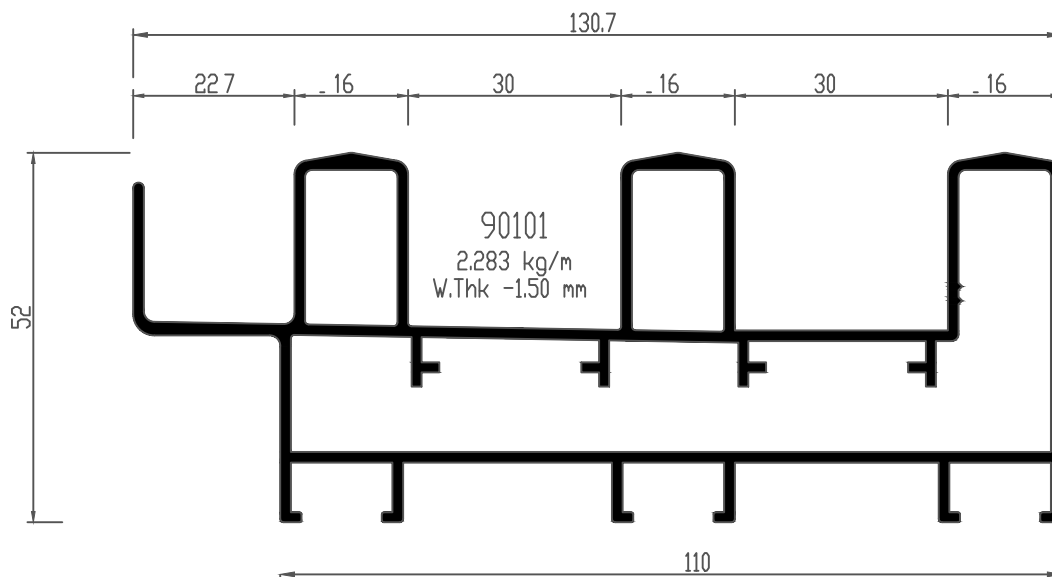
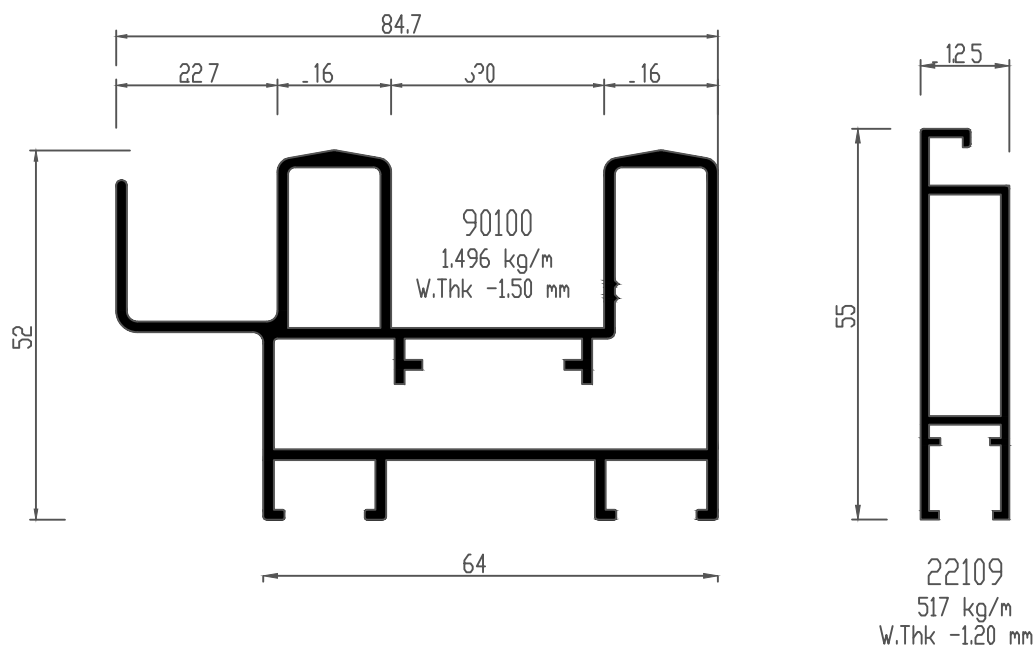
CODE	Y DRAWING X	DESCRIPTION	Weight Kg/m	Surface □x mm	I _x cm ⁴	I _y cm ⁴
90100		Frame 2 Rail with Fly screen	1.496	287.5	12.25	36.54
90101		Frame 2 Rail with Fly screen	2.283	380	18.89	129.42
90110		open frame 2 rails With Fly screen	1.547	272	11.47	37.63
90111		open frame 2 rails With Fly screen	2.357	364.5	17.33	133.52
90114		Frame 2 rails	1.331	209.5	11.96	24.78
90112		frame 2 rails with Double fly screen	1.666	370.5	12.99	53.33
90102		Double glass Shotter	1.088	159	15.89	8.56
90103		Single glass Shotter	1.179	179	19.66	8.86
90104		Reinforced double glass Shotter	1.366	229	16.99	19.29
90105		Reinforced single glass Shotter	1.455	249	20.37	19.72

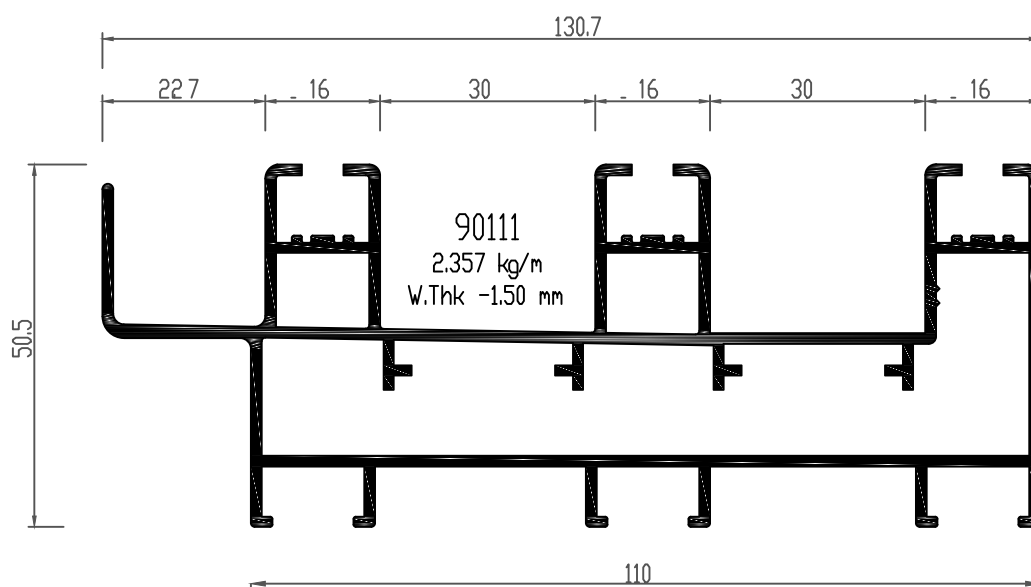
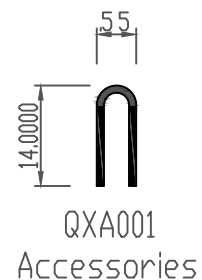
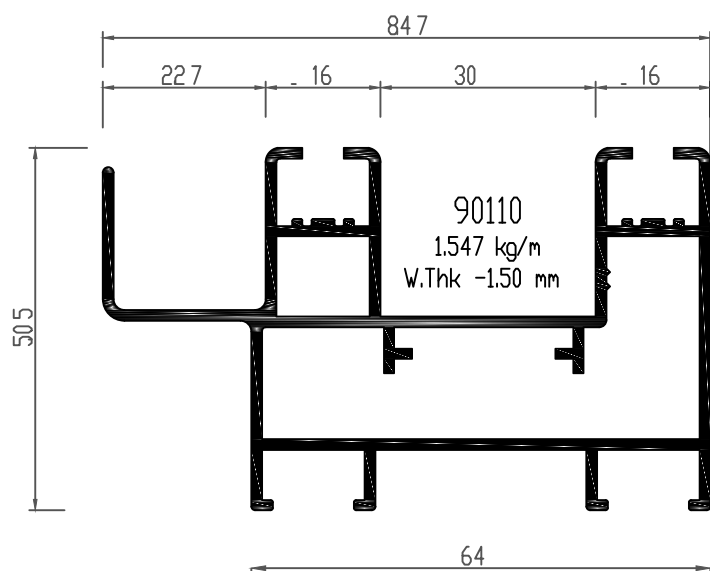


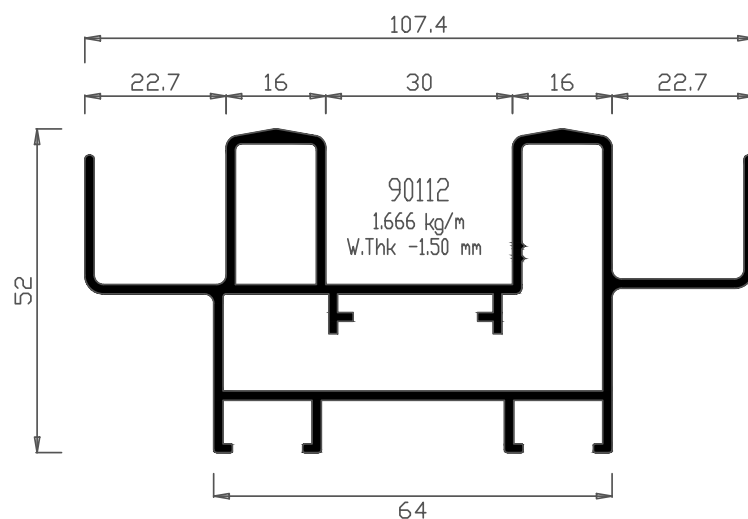
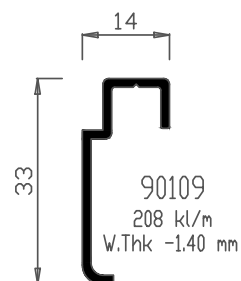
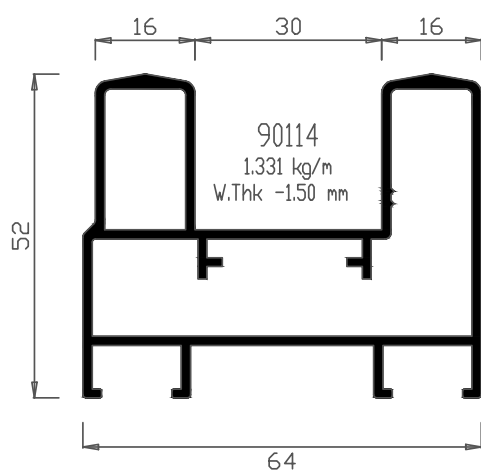
CODE	DRAWING 	DESCRIPTION	Weight Kg/m	Surface □x mm	Ix cm ⁴	Iy cm ⁴
90106		Transom	1.047	168	19.19	7.21
90108		Interlock	410	41	2.49	2.27
90115		Fix profile	540	56	1.18	6.05
90113		Guide	211	-	-	-
90107		Four wings profile	397	48	0.86	0.88
90109		Over lap profile	208	28	0.88	0.16
90116*		frame 3 rails wit Double fly screen	2.565	462	20.21	170.74
90117*		Shotter with Glazing bead	1.064	143	14.39	8.04
90118*		Reinforced Shotter with Glazing bead	1.339	163	15.65	19.09
90119		Shotter for fly screen	958	153	11.42	6.62

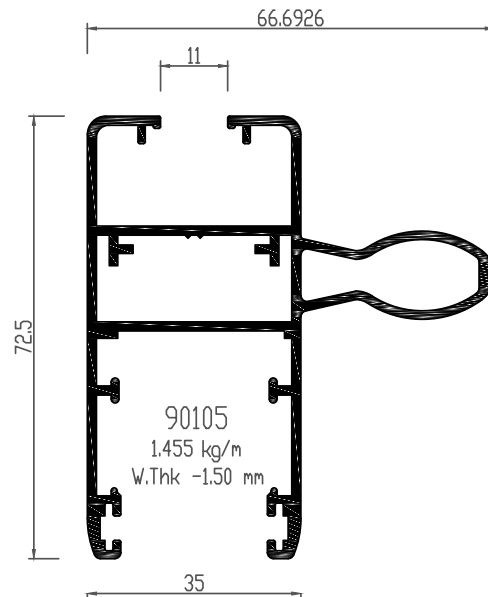
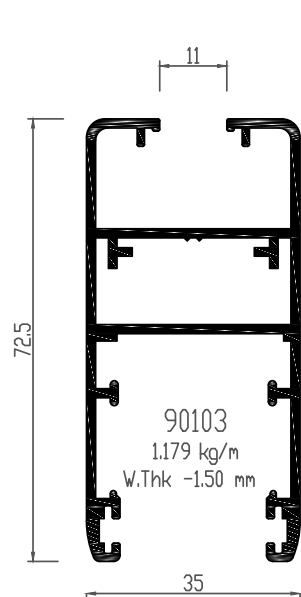
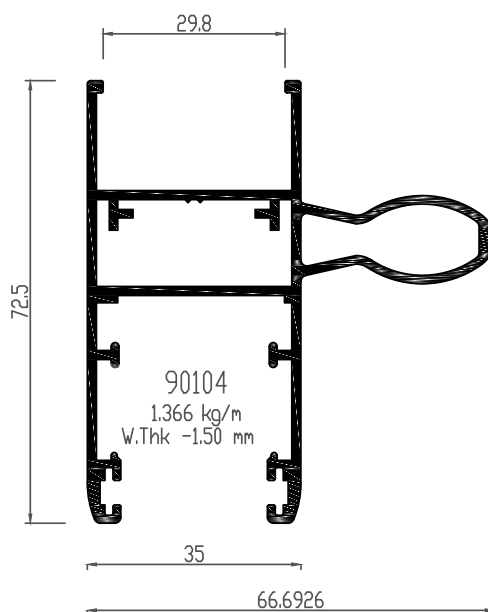
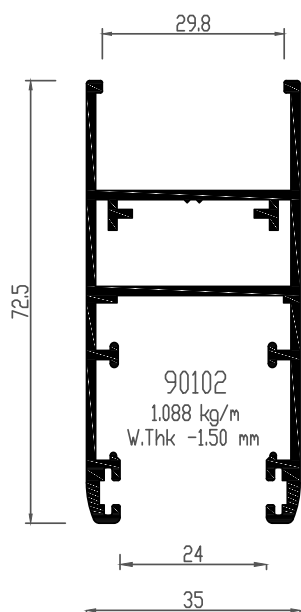


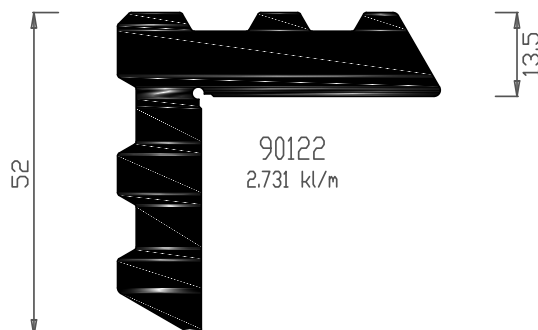
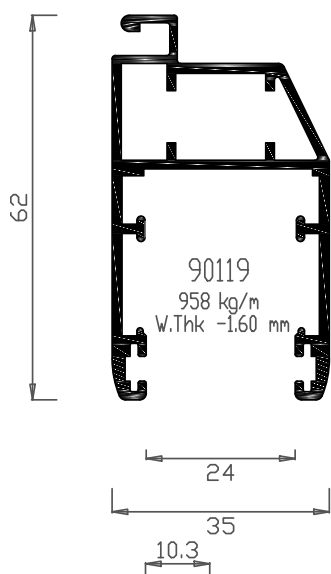
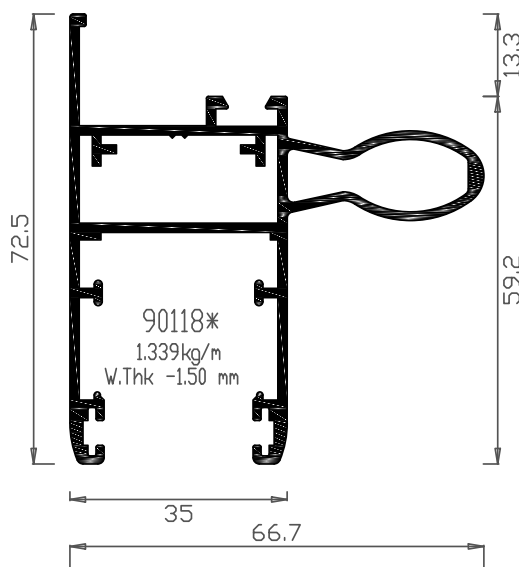
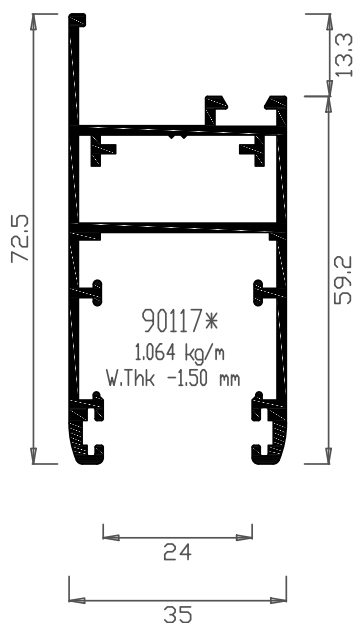
CODE	Y DRAWING X	DESCRIPTION	Weight Kg/m	Surface □x mm	Ix cm ⁴	Iy cm ⁴
90120*		Glazing bead	111	16	-	-
90121		Clipping corner joint	2.222	-	-	-
90122		Clipping corner joint	2.731	-	-	-
QXA001		Stainless steel rail	-	-	-	-
22109		Fly screen	517	110	4.37	0.43

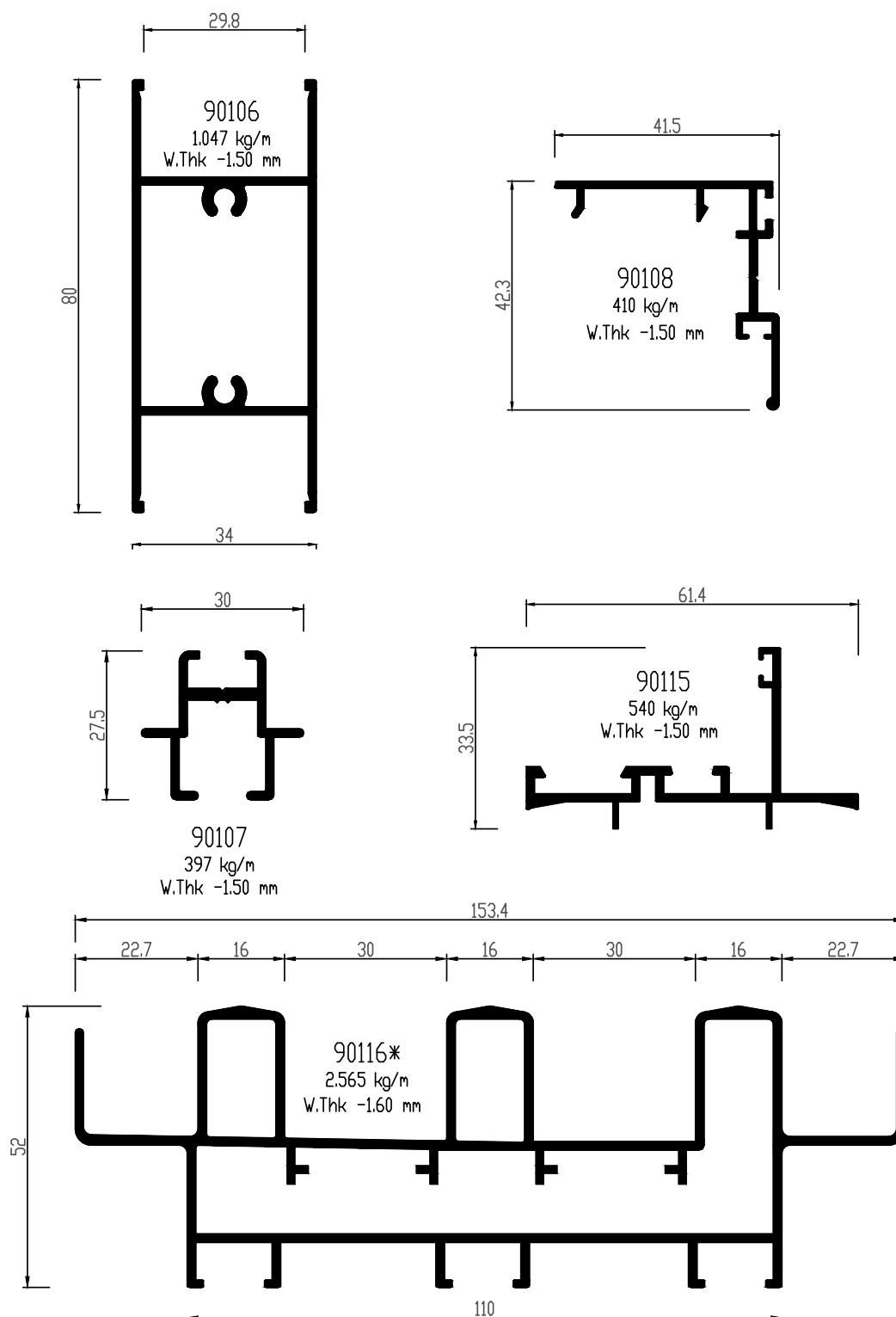


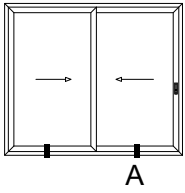




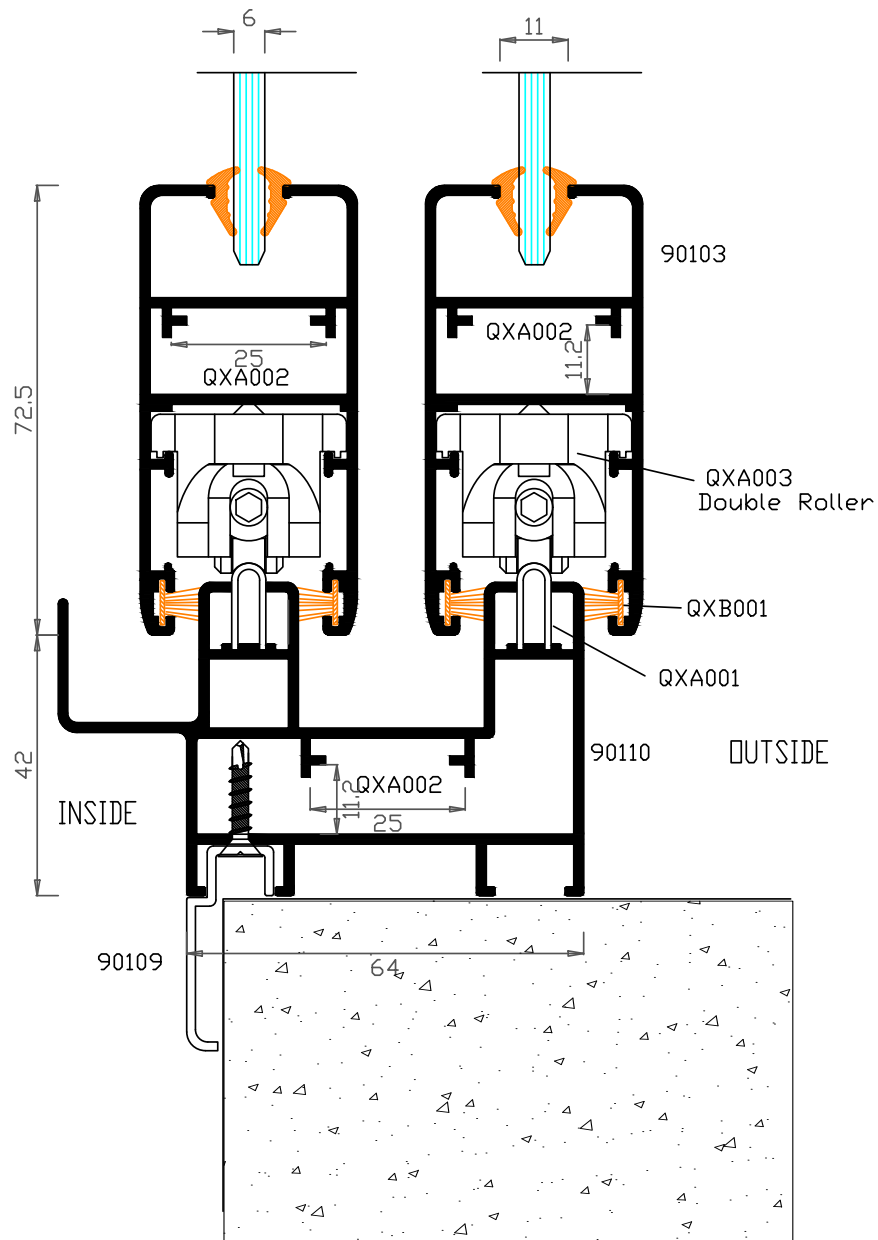


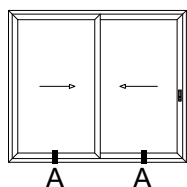




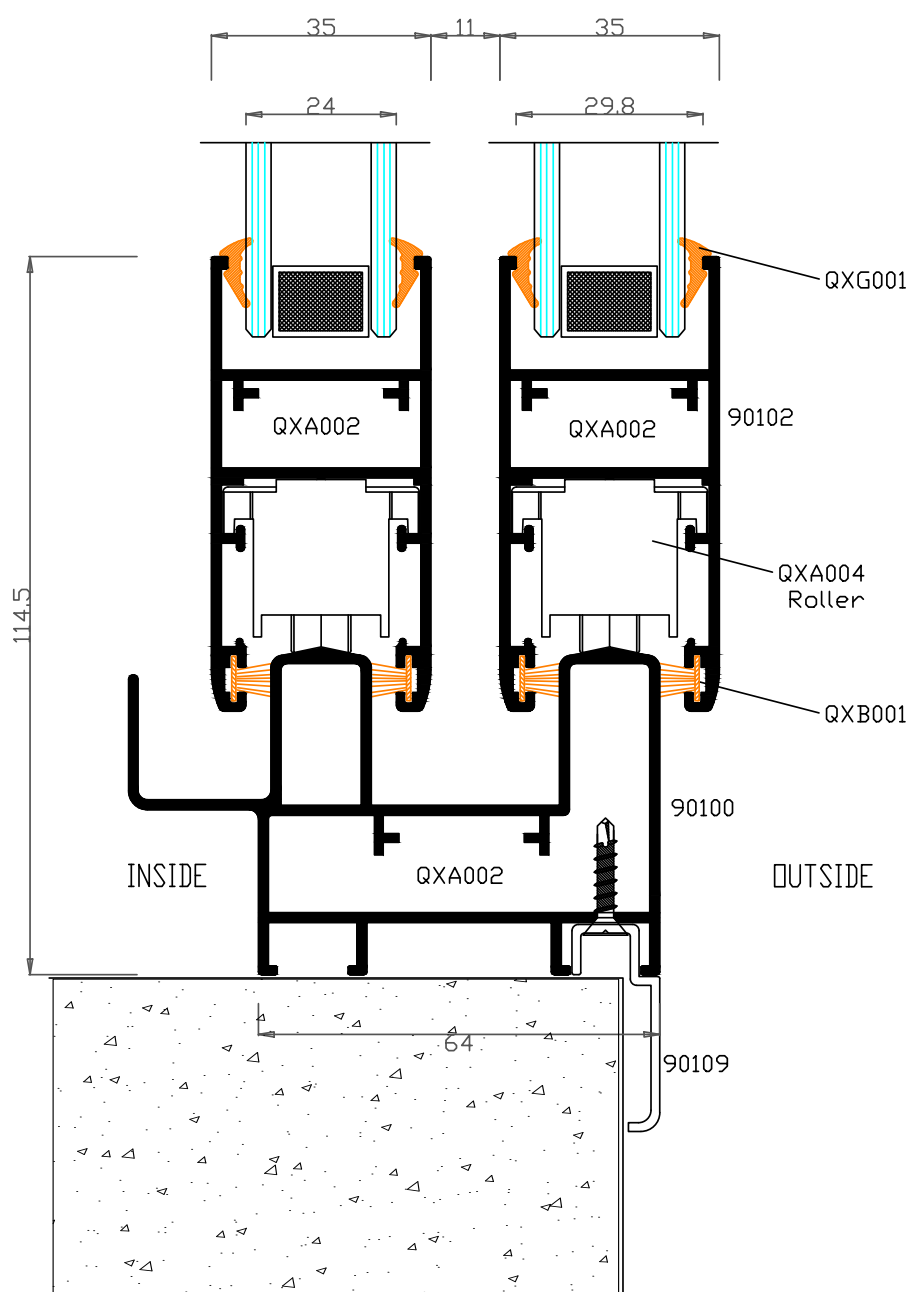


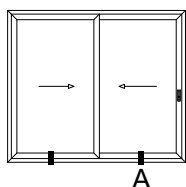
Two Sash Sliding Window Assembly with Single glass



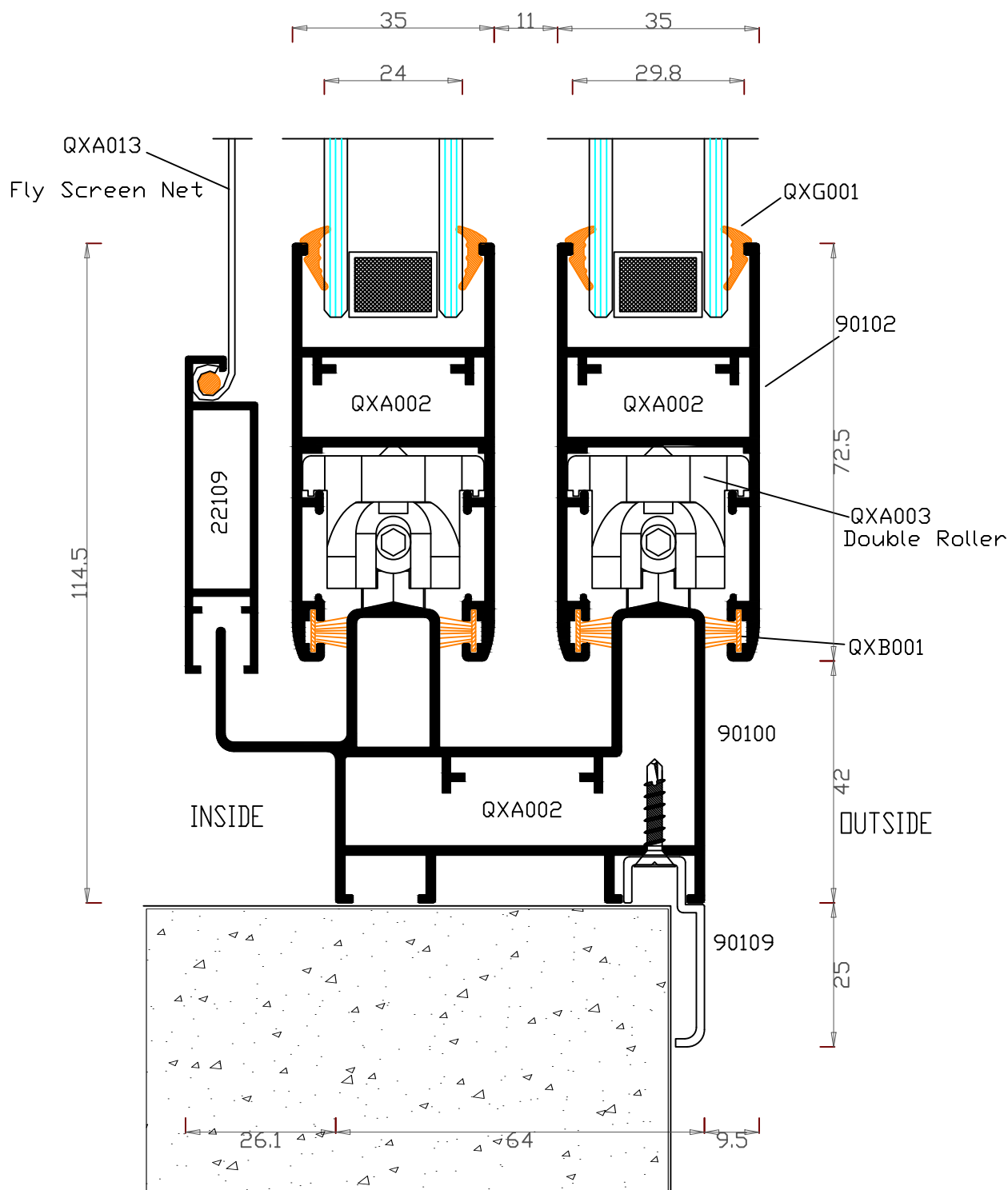


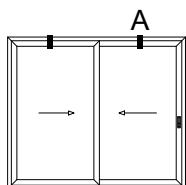
Two Sash Sliding window assembly with Double glass



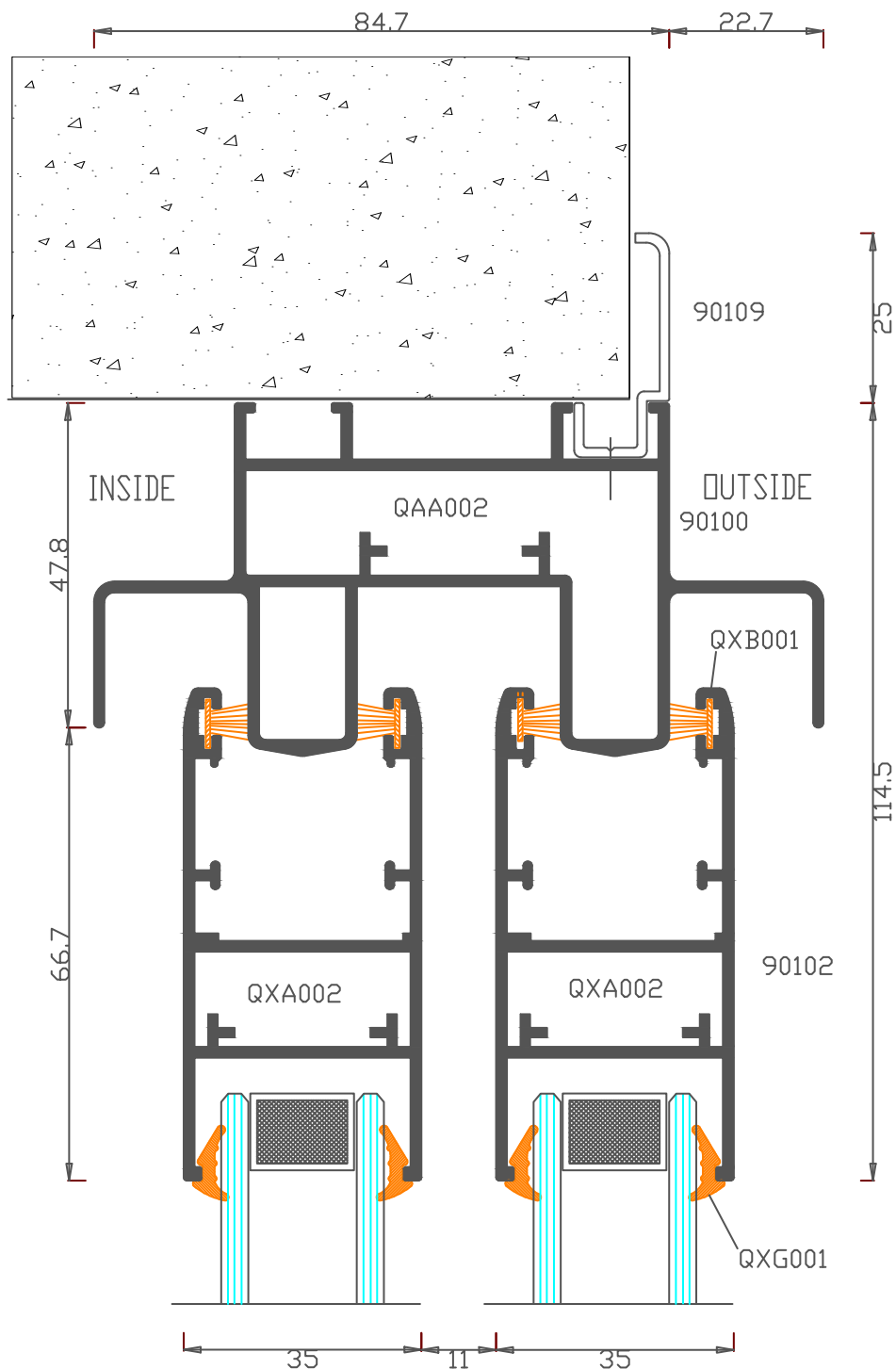


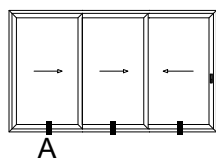
Two Sash Sliding window assembly with Flyscreen Double glass



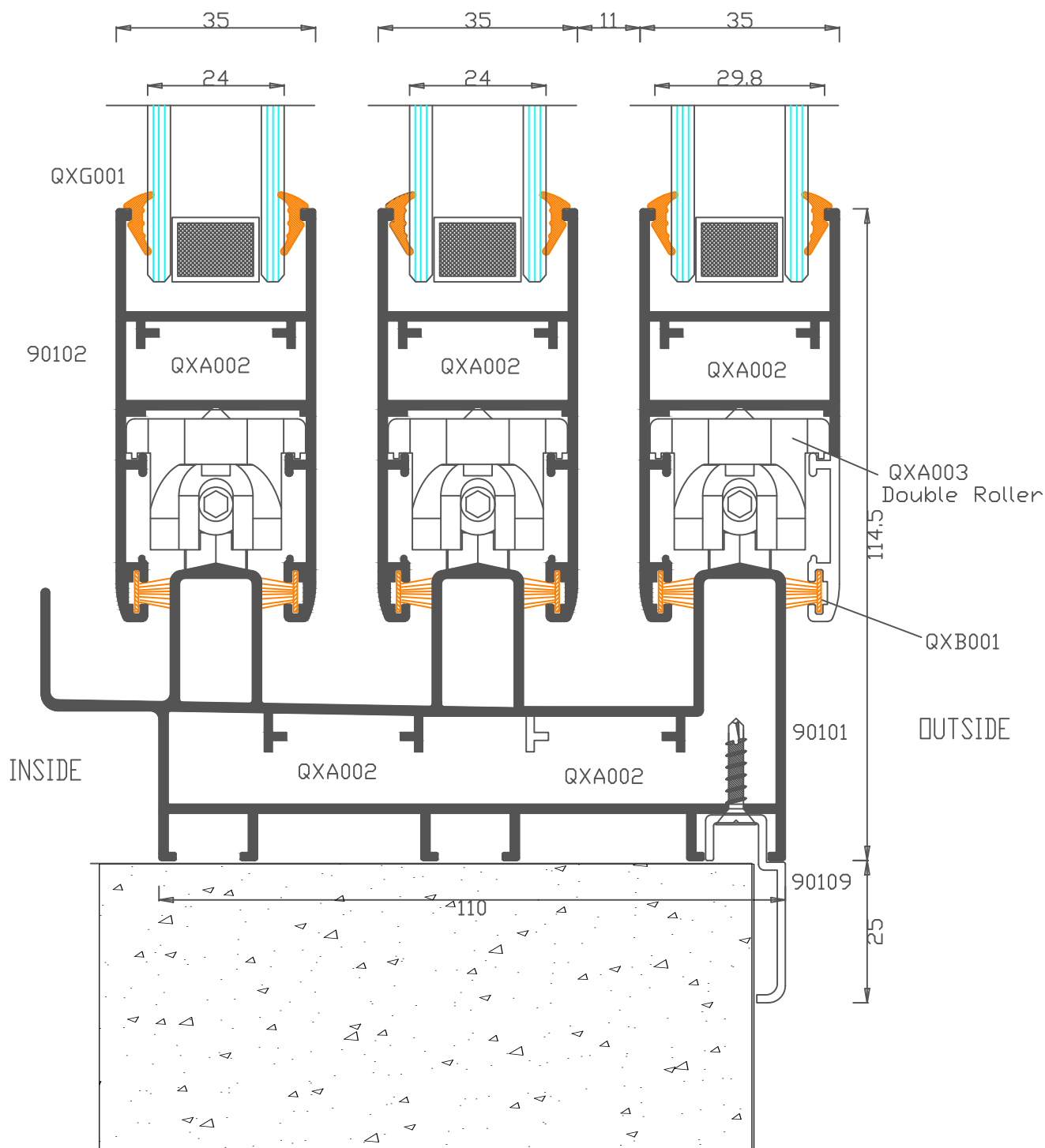


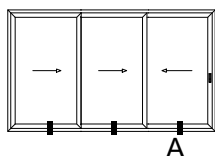
Two Sash Sliding window assembly with Flyscreen Both Side Double glass



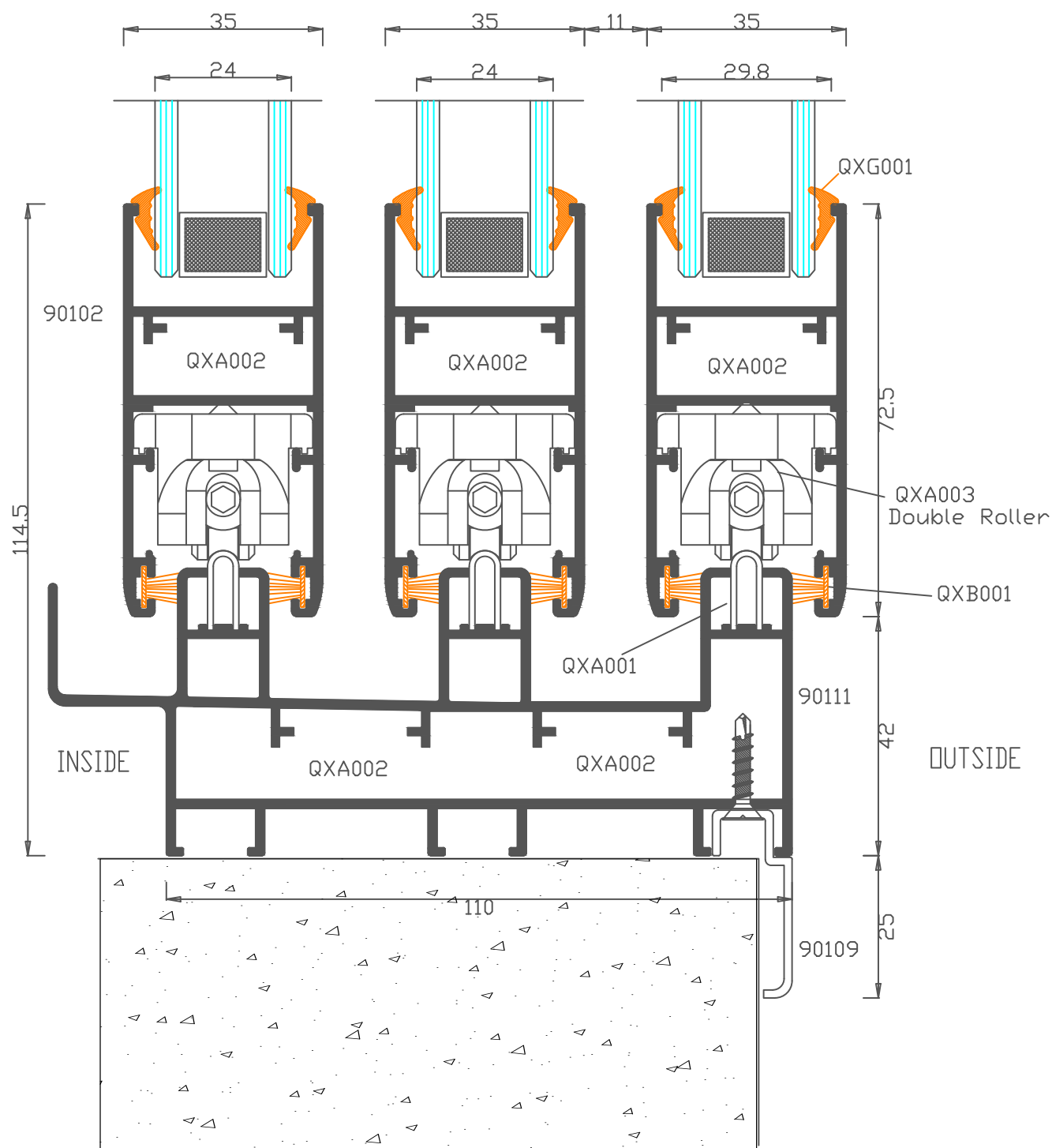


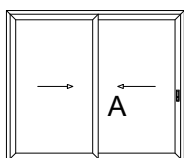
Three Sash Sliding window assembly with Flyscreen Double glass



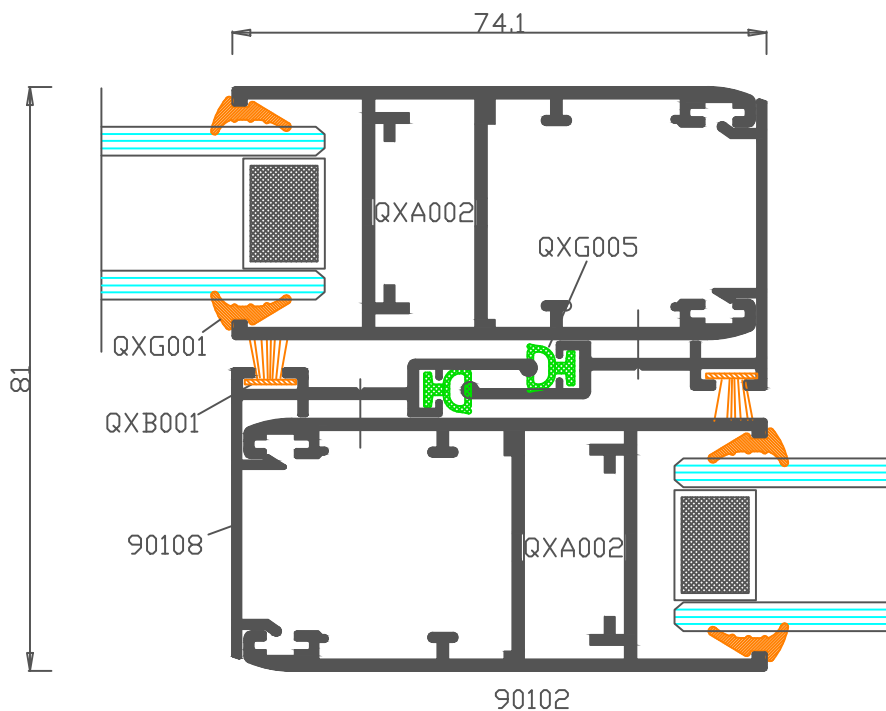


Three Sash Sliding window assembly with Flyscreen and Double glass

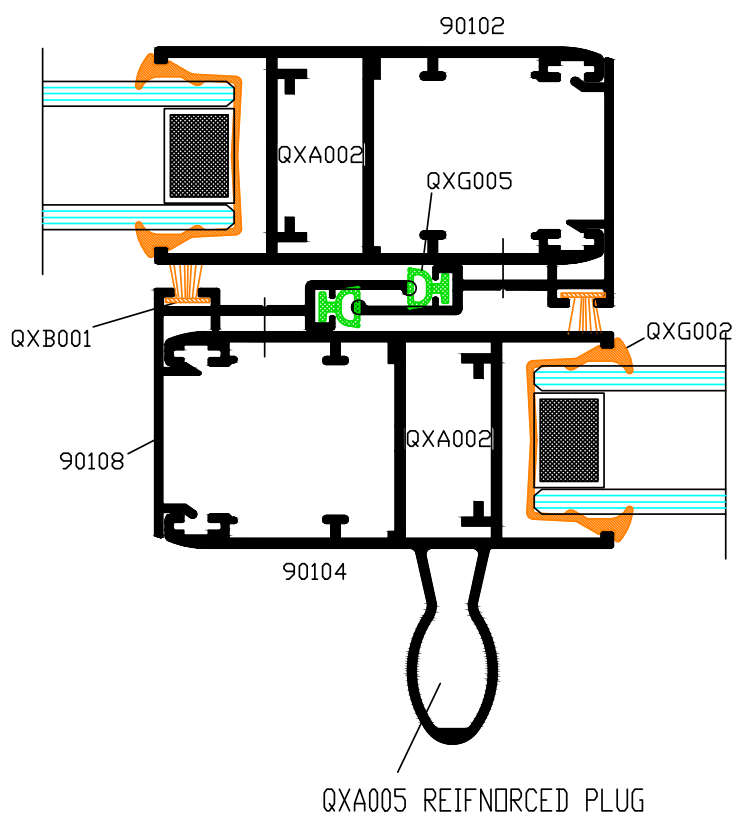


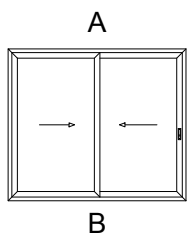


Inter lock assembly with reinforced sash.

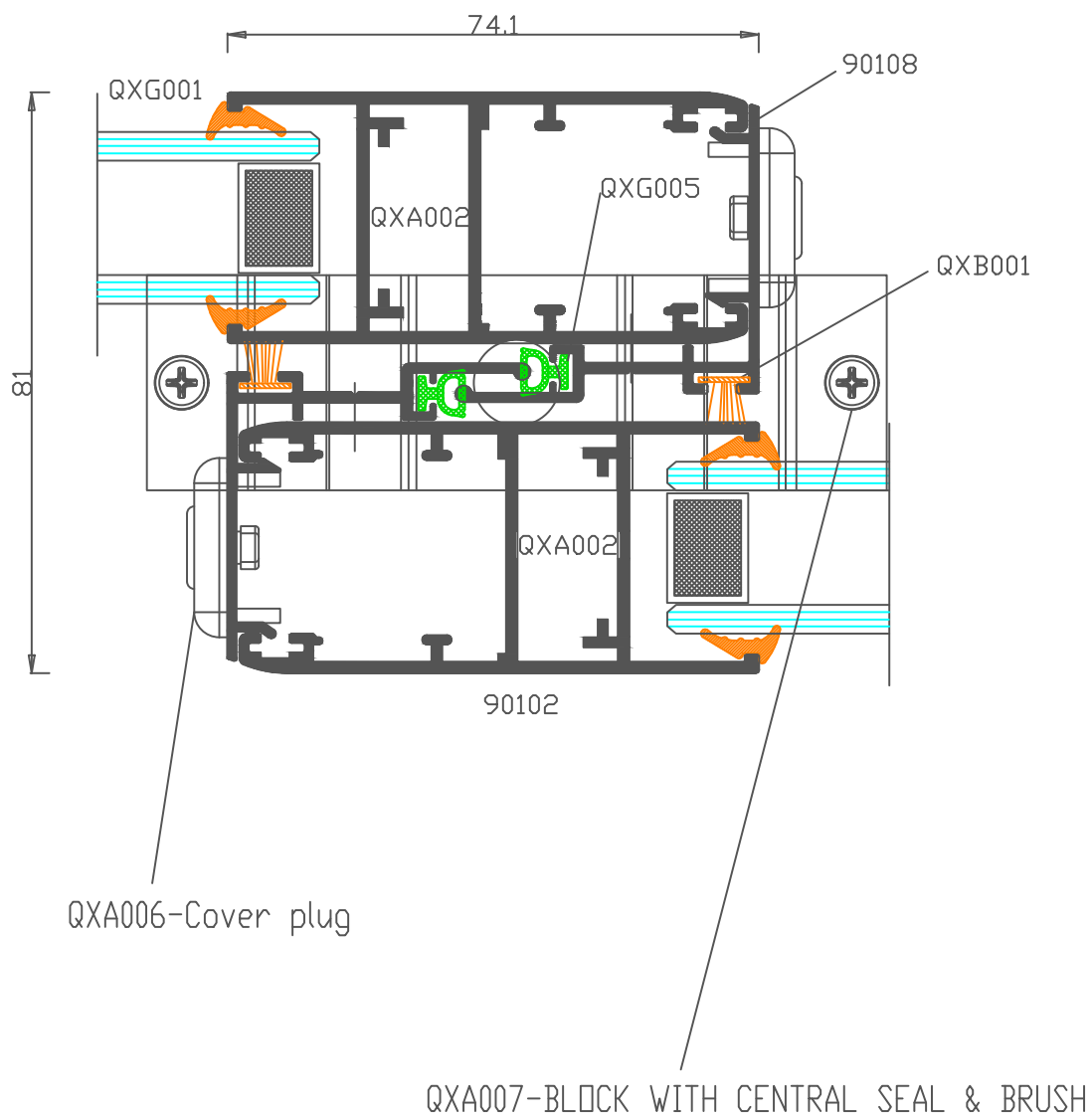


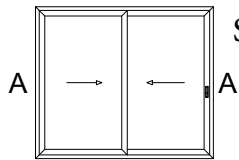
Inter lock assembly with U gasket reinforced sash.



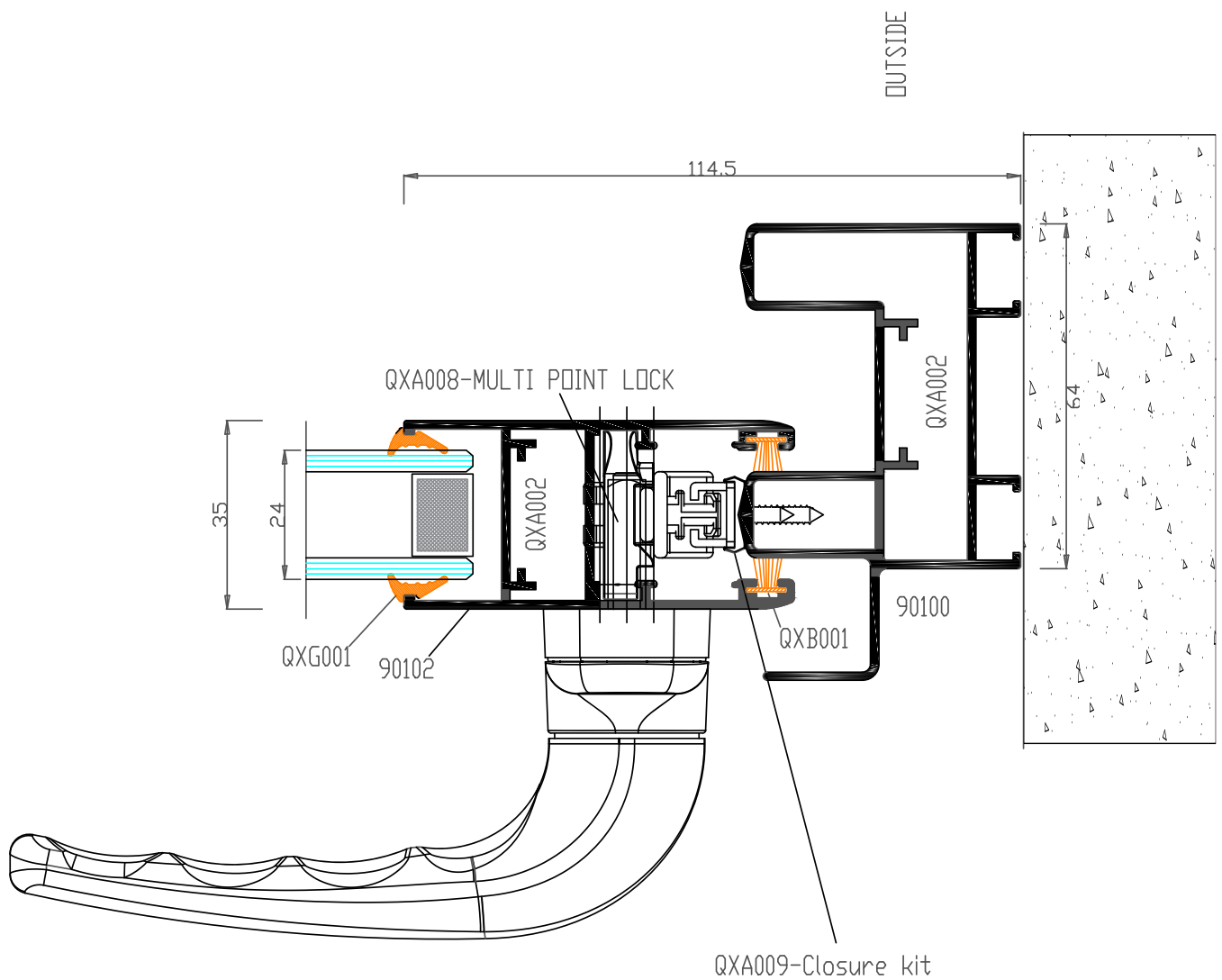


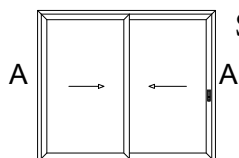
Inter lock assembly with Dust Brush and cover plug assembly



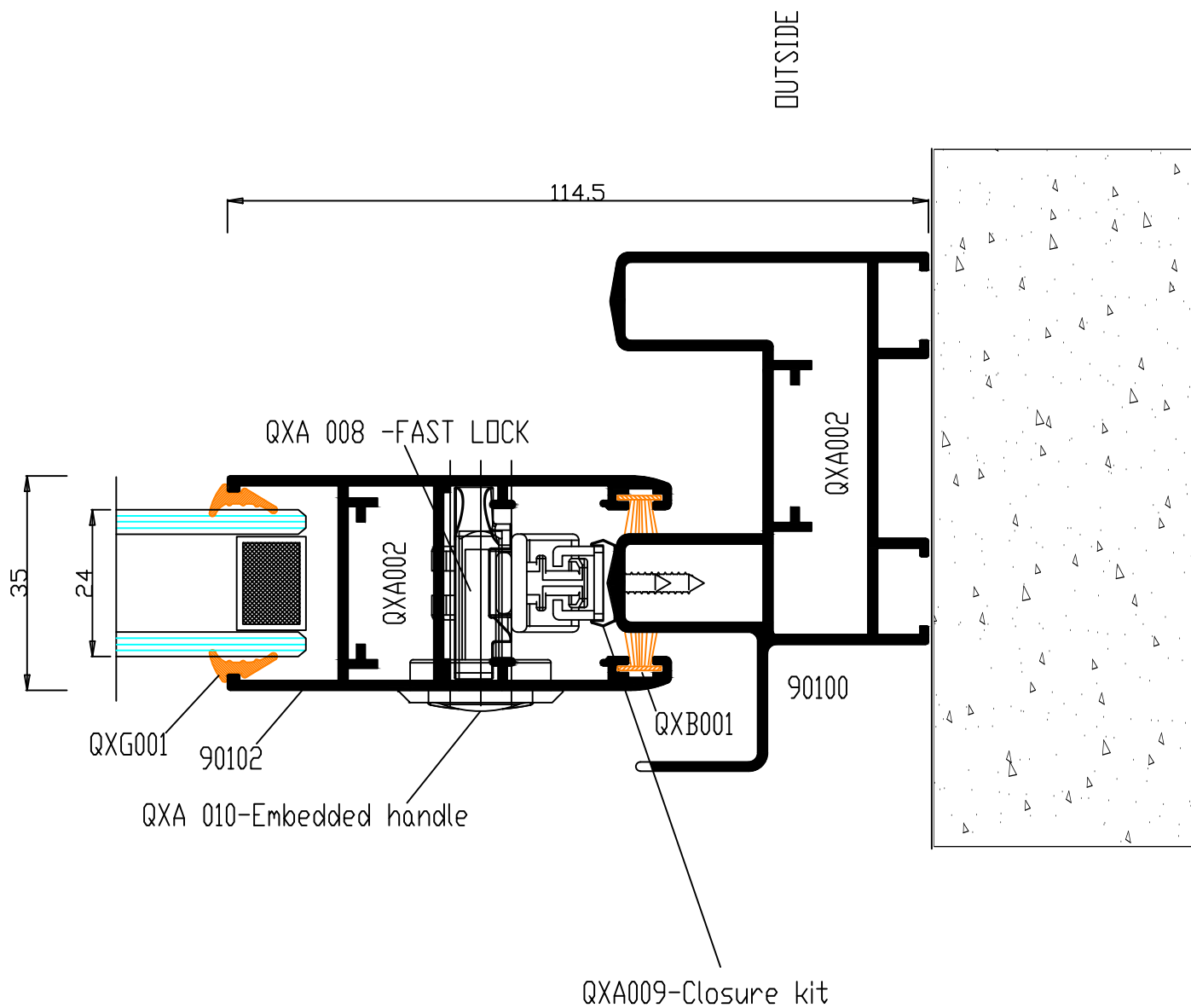


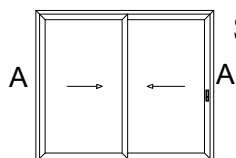
Sliding Locking Assembly



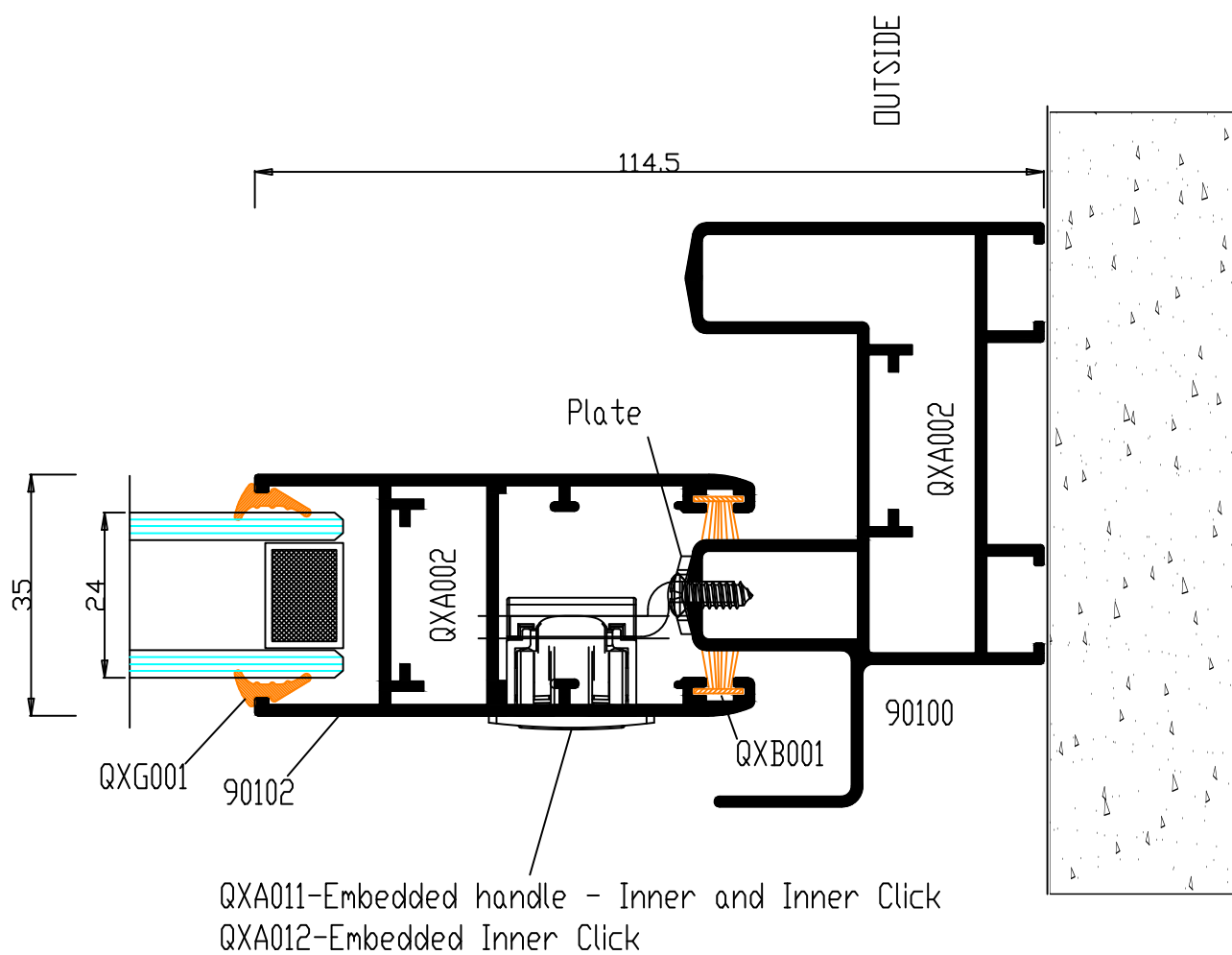


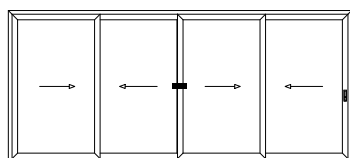
Sliding Locking Assembly



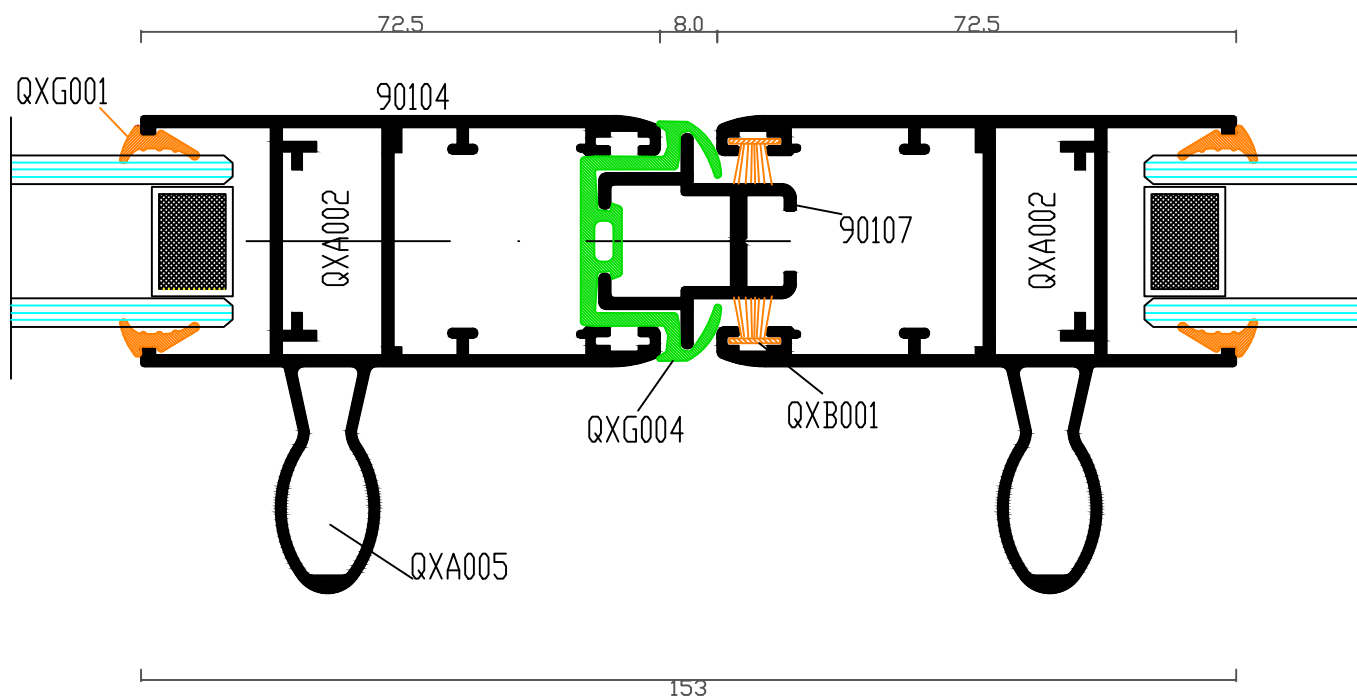


Sliding Locking Assembly

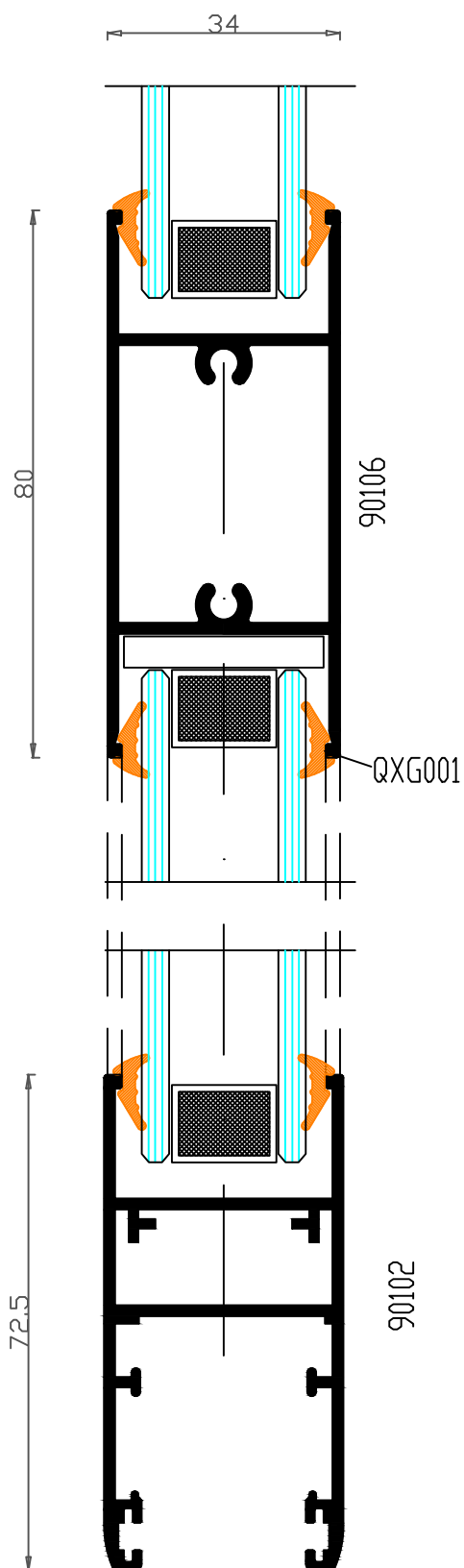




Door Four Sash assembly with reinforced Sash

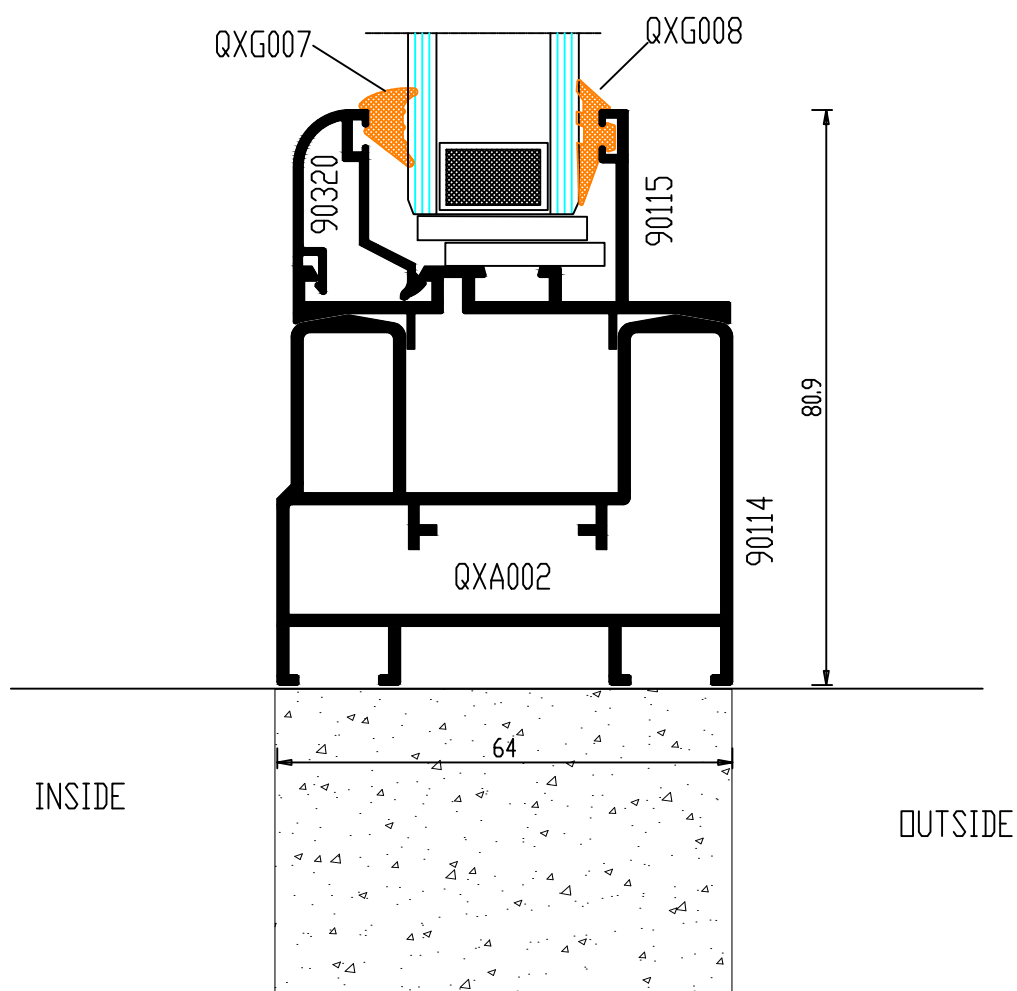


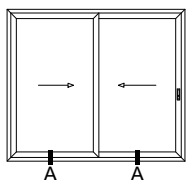
Transom Assembly



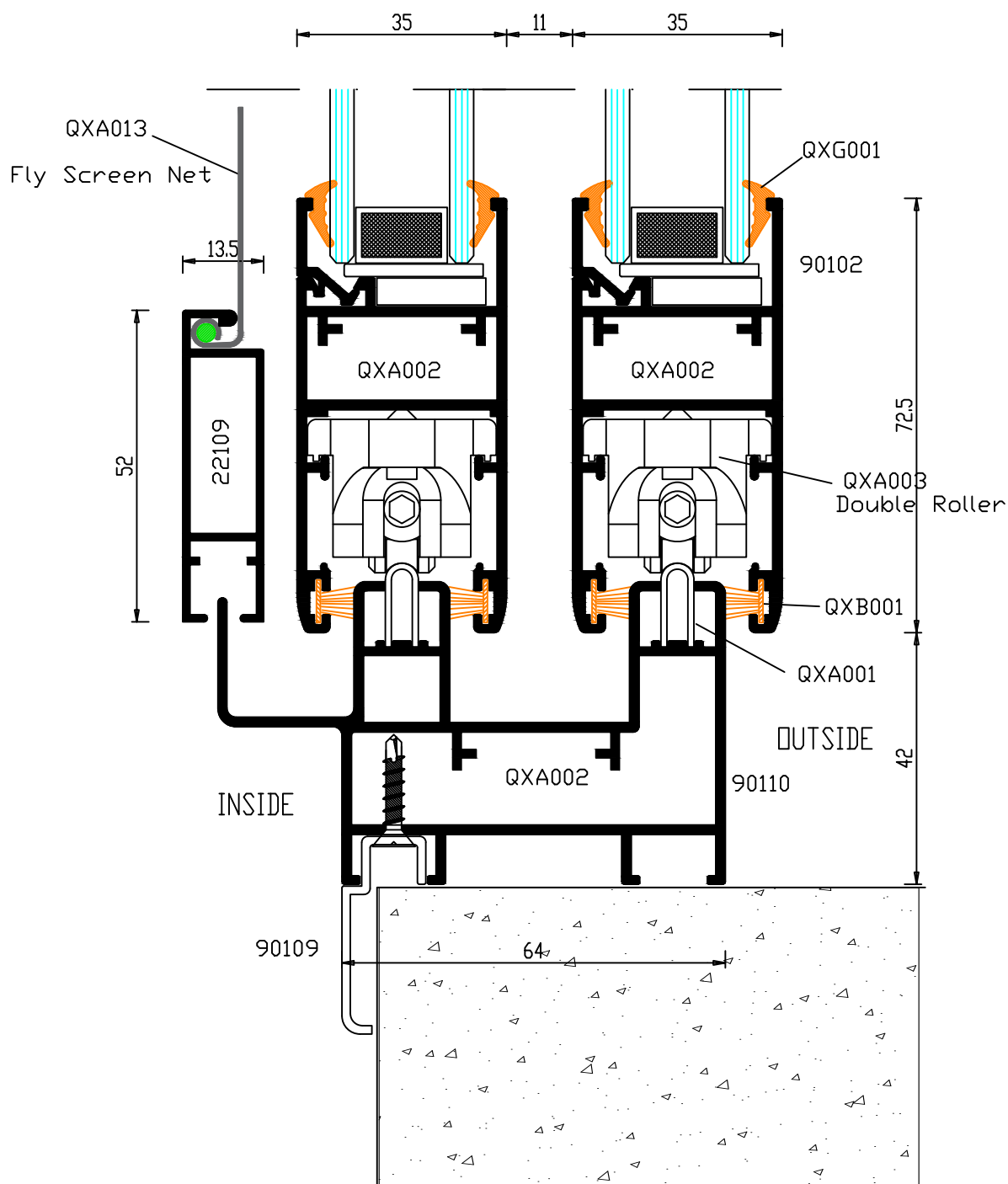


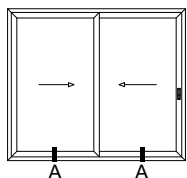
Fixed window assembly with Sliding window



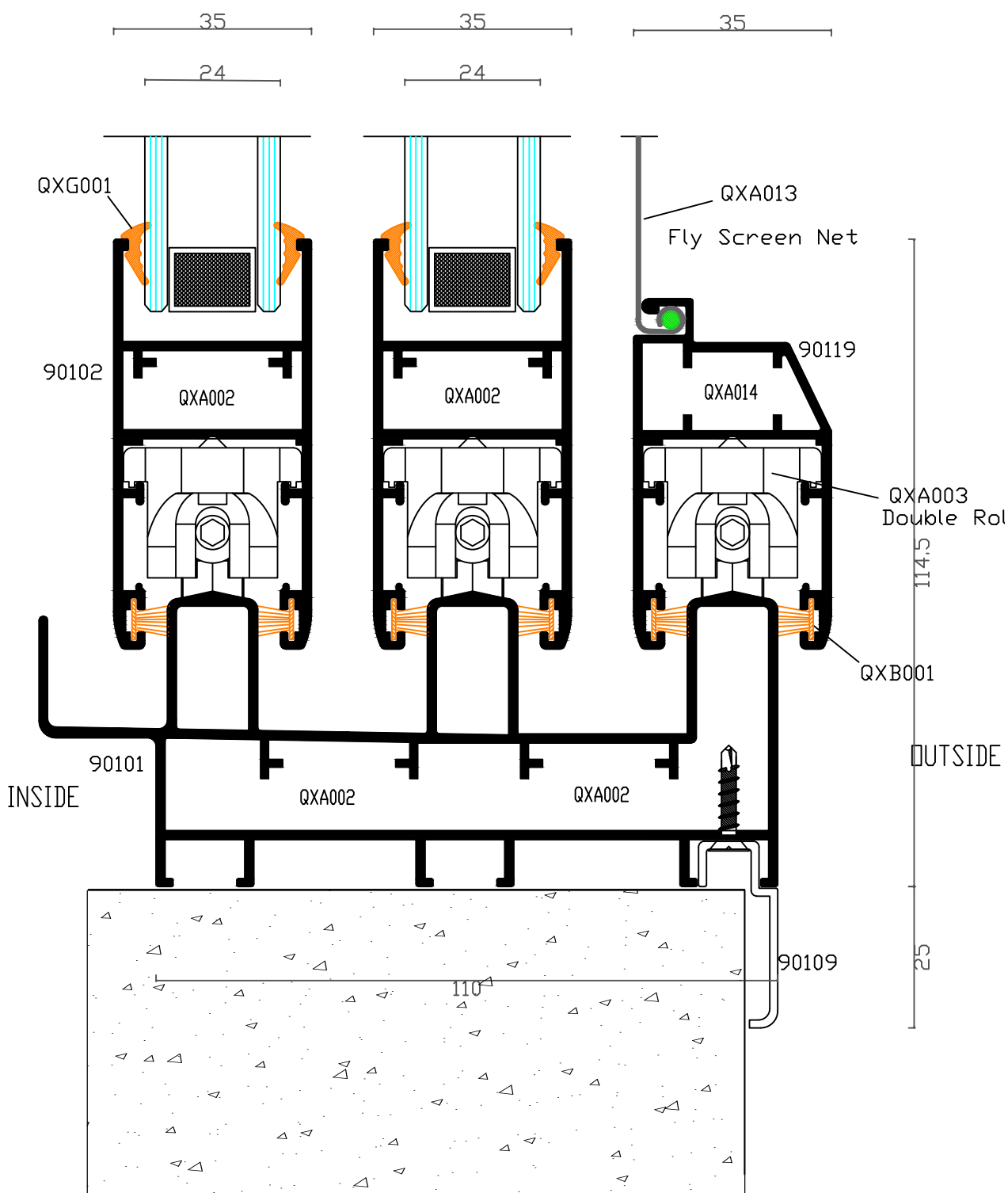


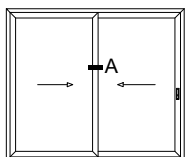
Two Sash Sliding window with Glazing bead shutter Assembly



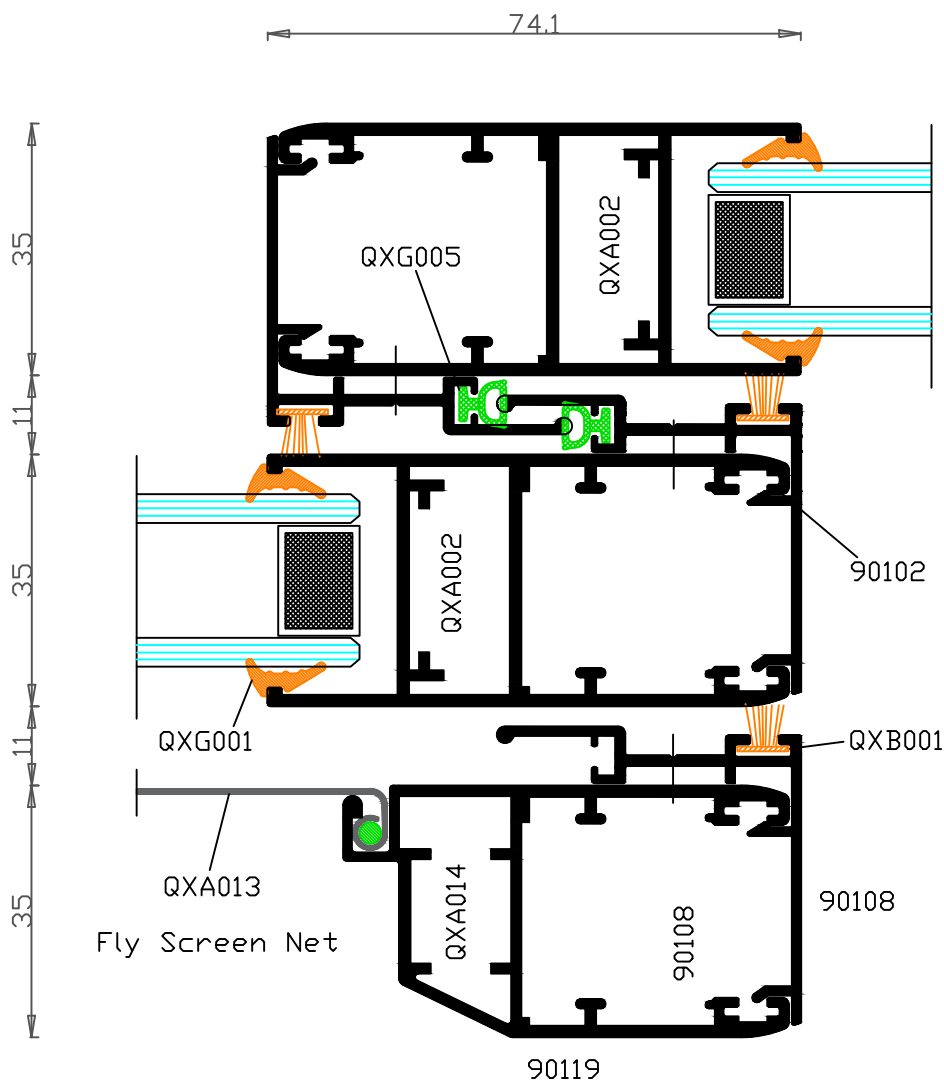


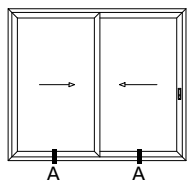
Two Sash Sliding window Assembly with flyscreen shutter



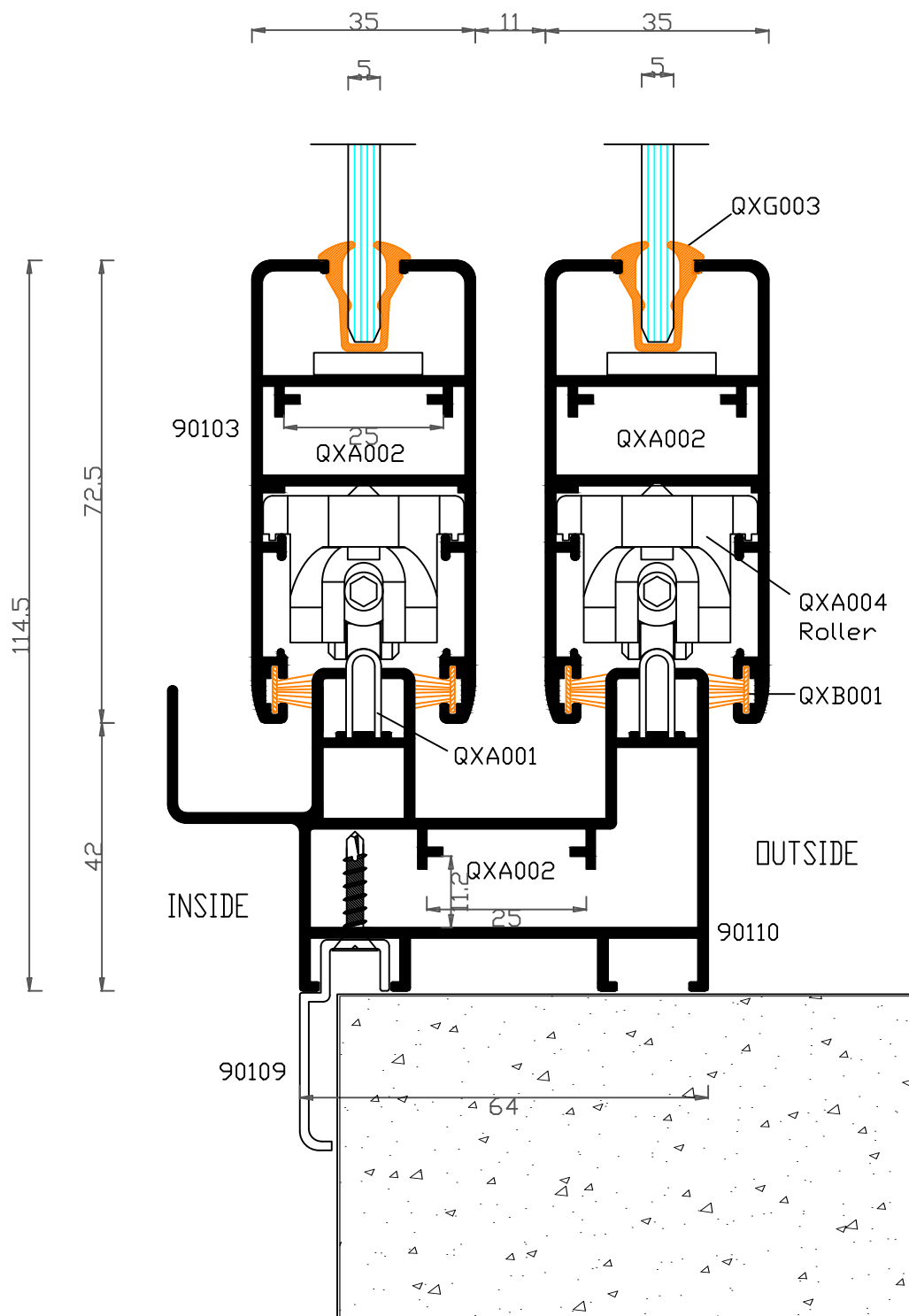


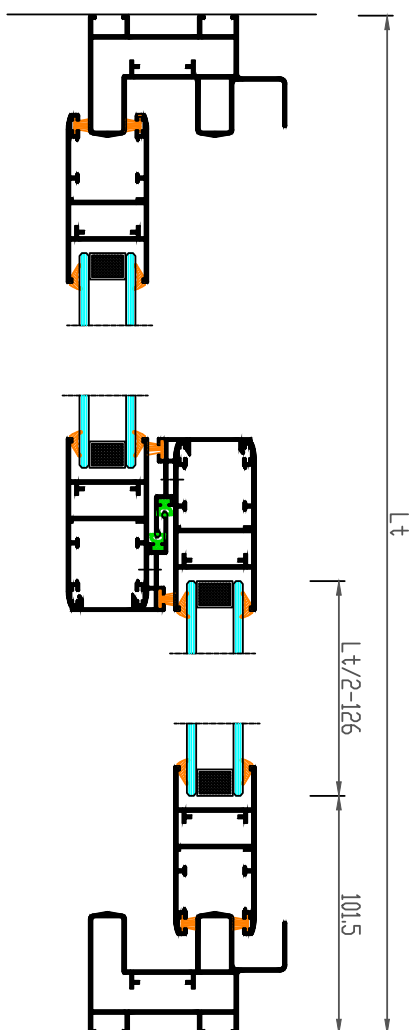
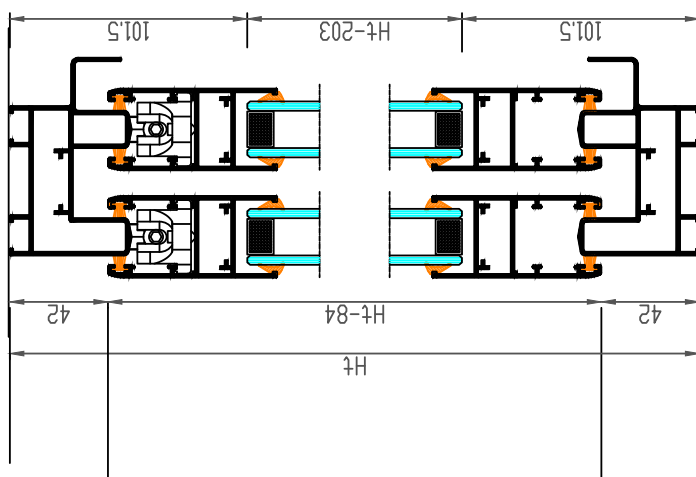
Inter lock Assembly with Flyscreen shutter





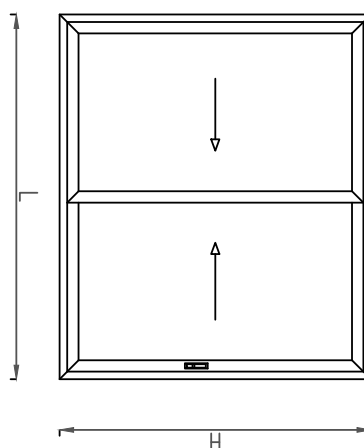
Two Sash Sliding window Assembly with U gasket single glass



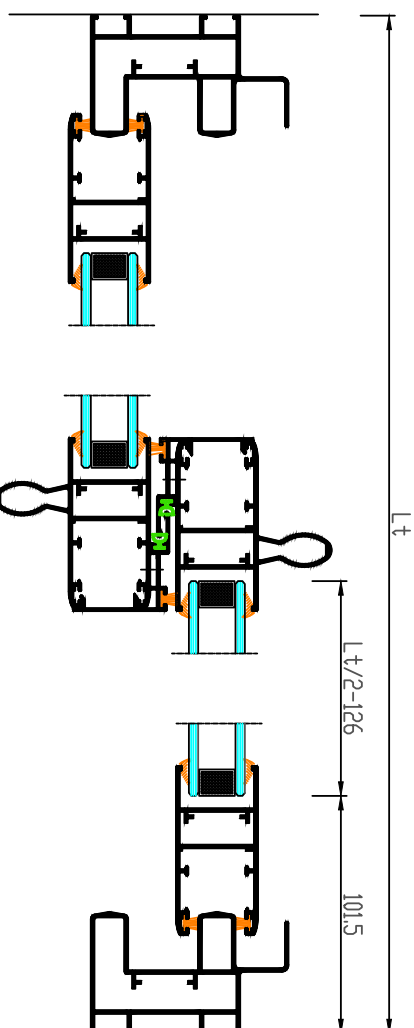
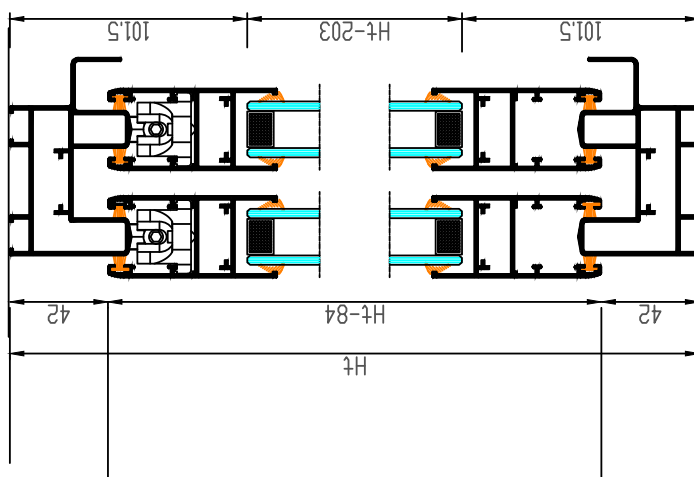


TWO WINGS WINDOW			
CODE	DESCRIPTION	SIZE	Q.TY
90100	TOP E BOTTOM FRAME	Lt	2
90100	SIDE FRAME	Ht	2
90102	TOP E BOTTOM SHUTTER	Lt/2-6.5	4
90102	SIDE SHUTTER	Ht-84	4
90108	INTERLOCK	Ht-84	2

ACCESSORIES		
CODE	DESCRIPTION	Q.TY
QXA002	FRAME/SHUTTER CORNER JOINT	12
QXB001	BRUSH	4L+6H
QXG005	INTERLOCK GASKET	2H
QXG001	INSIDE GLASS GASKET	4L+8H

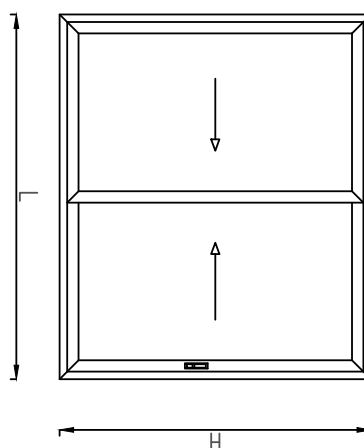


GLASS SIZE	
Lt/2-126	Ht-203

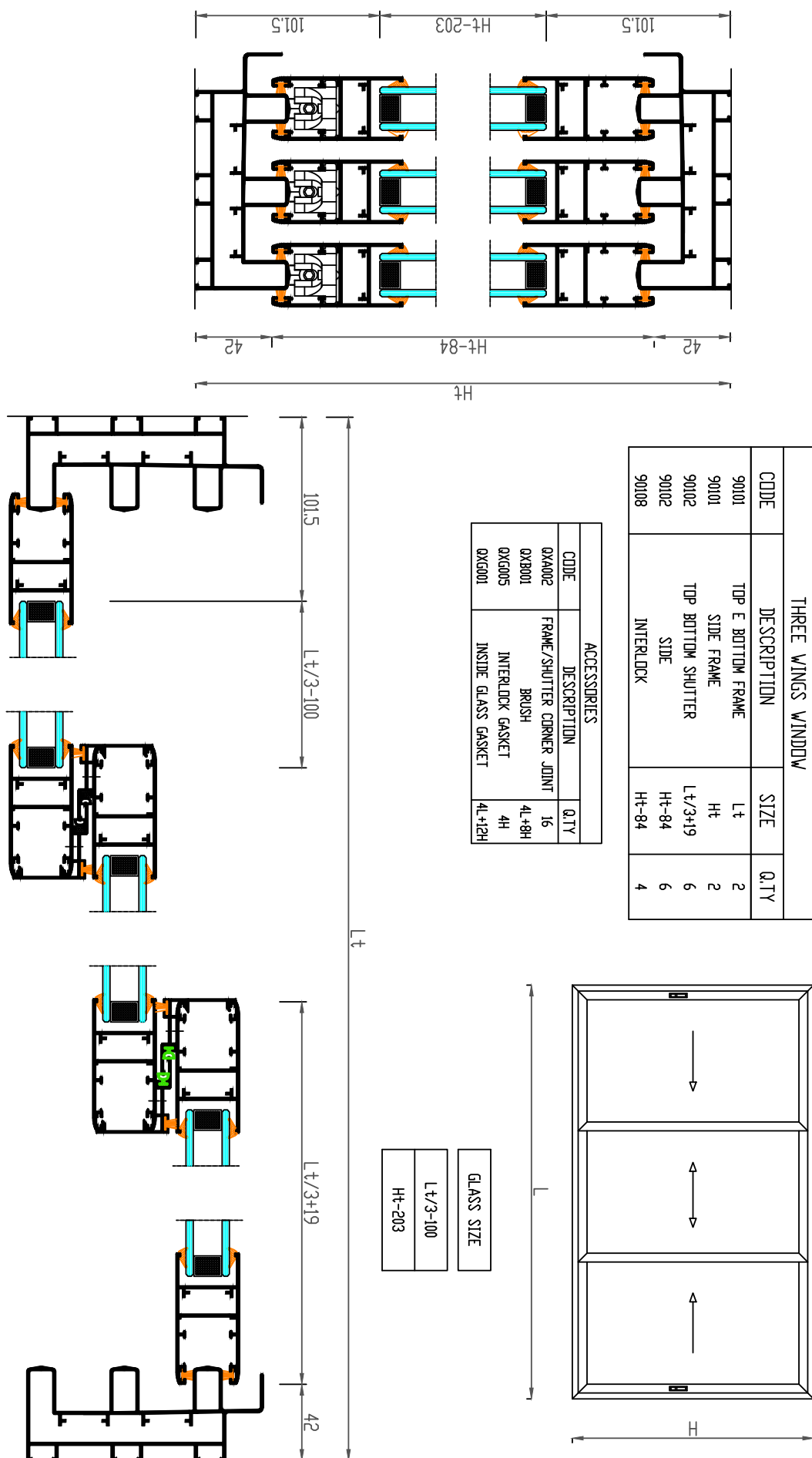


TWO WINGS WINDOW WITH REINFORCED WING			
CODE	DESCRIPTION	SIZE	Q.TY
90100	TOP E BOTTOM FRAME	Lt	2
90100	SIDE FRAME	Ht	2
90102	TOP E BOTTOM SHUTTER	Lt/2-6.5	4
90102	SIDE SHUTTER	Ht-84	2
90103	REINFORCED VERTICAL SHUTTER	Ht-84	2
90108	INTERLOCK	Ht-84	2

ACCESSORIES		
CODE	DESCRIPTION	Q.TY
QXA002	FRAME/SHUTTER CORNER JOINT	12
QXB001	SHUTTER	4L+6H
QXA005	PLUG FOR REINFORCED SHUTTER	4
QXG005	INTERLOCK GASKET	2H
QXG001	INSIDE GLASS GASKET	4L+8H

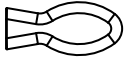


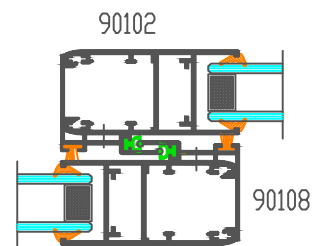
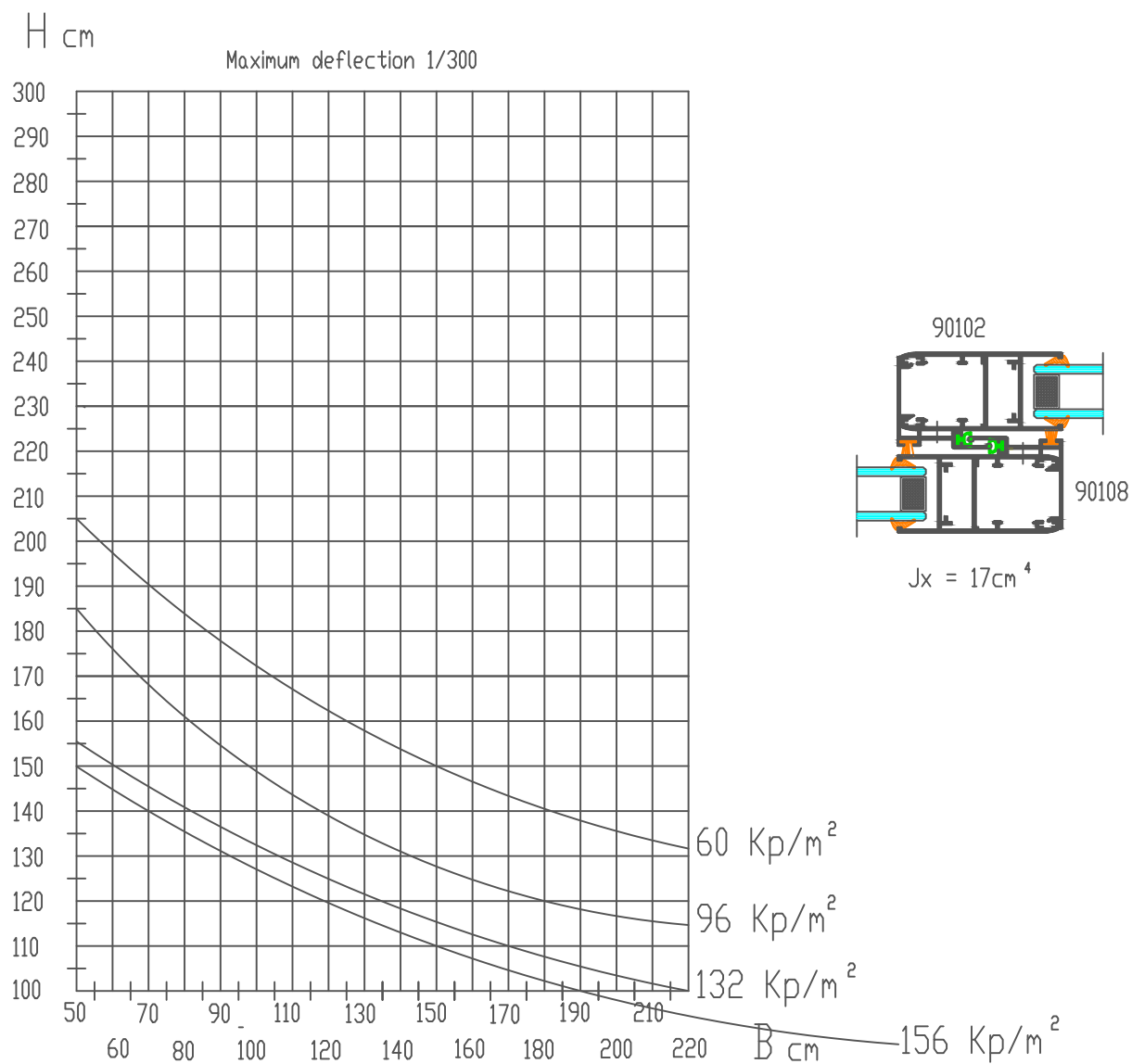
GLASS SIZE
Lt/2-126
Ht-203



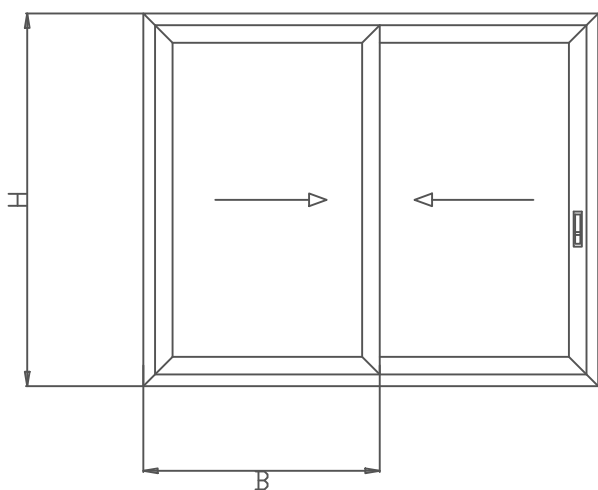


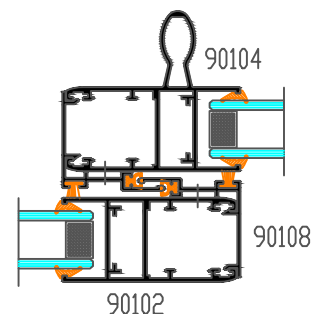
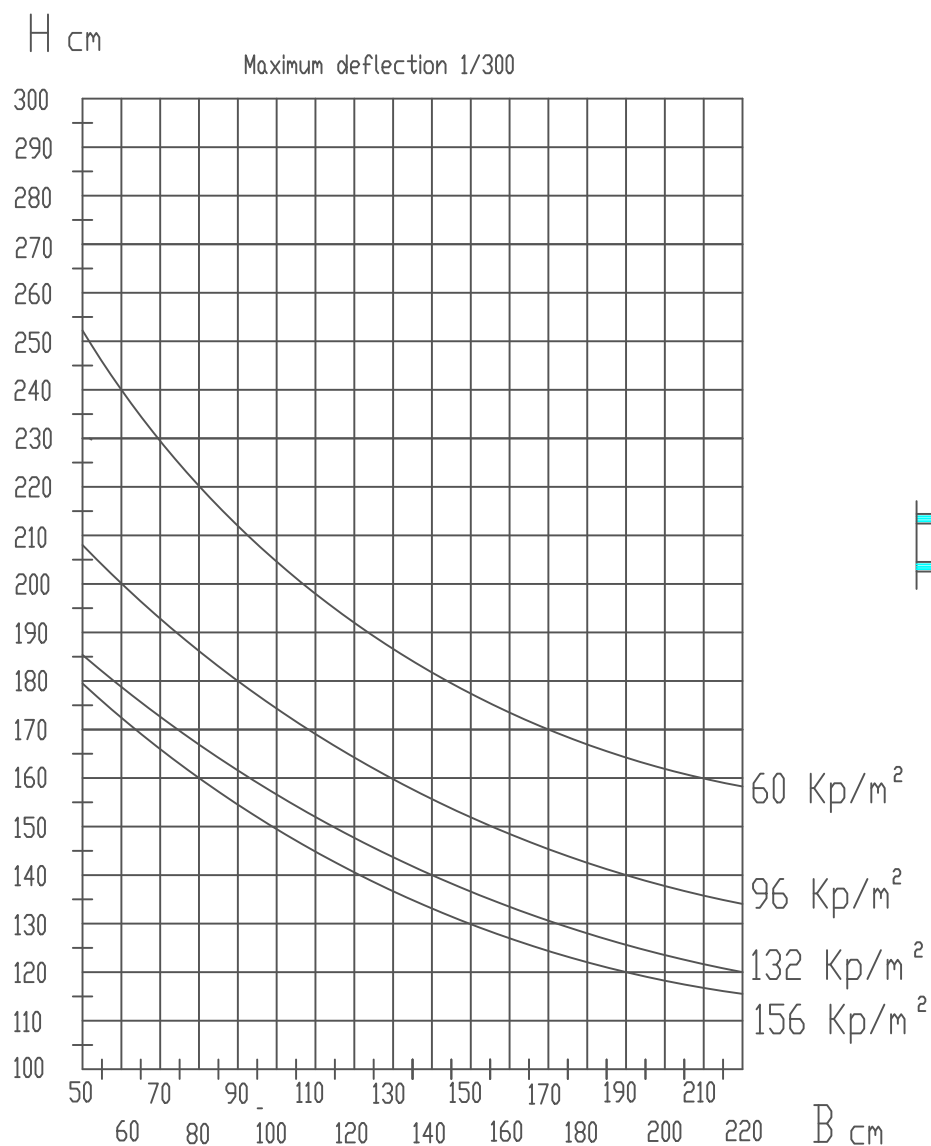
Gasket EPDM

DRAWING	DESCRIPTION	CODE	DRAWING	DESCRIPTION	CODE
	Glass gasket	QXG001		U glass gasket for double glass	QXG002
	Brush	QXB001 6,9x7		U glass gasket for single glass	QXG003
	Four Shotter profile gasket	QXG004		Interlock gasket	QXG005
	Plug for reinforced Shotter	QXA005			

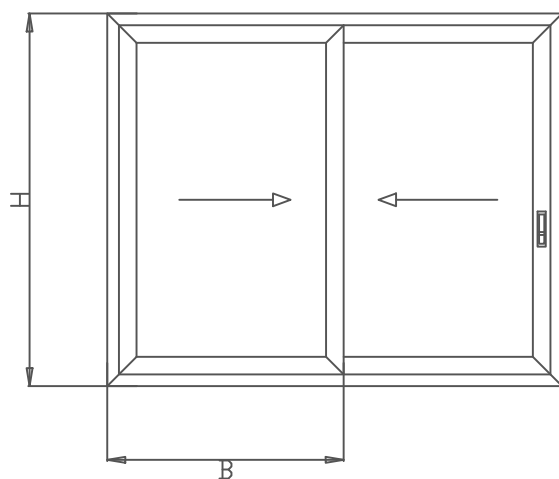


$$J_x = 17 \text{ cm}^4$$





$$J_x = 28 \text{ cm}^4$$





T-REEM 64 (SLIDING-THERMAL)



TECHNICAL DESCRIPTION OF THE SYSTEM:

System description:

Aluminum profiles system, hardware and gaskets for the fabrication of Sliding Window & Doors with single and double glass .

Aluminum alloy: EN-AW-6063 (EN 573-3 EN 755-2)

Alloy treatment: T 6

Dimensional tolerances: UNI-EN 12020-2

System features and characteristics:

The Depth of Fixed Frame is 64 mm & Flap Depth is 35 mm, with an overlap in the interlock of 11 mm.

The Bars are able to accept the accessories for the corner connection . The Profile are Softline designed with regular or curved beads cut at 45 ° or 90 ° with or without corner finishing pieces. With Glazing Gap range 24-11 mm.

Mechanical Characteristics:

Elastic Limit : > 16.5 KG/MM

Elongation : 10%

Breaking Strength : 22 KG/MM

T : > 24 N/MM (After Surface Treatment)

System performances:

This system have been tested and classified according to norms the European standards and norms EN 14351 -1:2006 At Mater Lab Italy -Test No:032016INT

Air Leakage : EN 12207

Water Resistance : EN 12208

Wind Load : EN 12210/12211

Thermal Break Characteristics:

Thermal Break Characteristics:

The polyamide strips in our thermal break systems are manufactured by Technoform in Europe. They are reinforced with 25 % Glass-Fiber and resist powder coating and anodizing temperatures upto 200 deg. C. These Strips absorb less than 2% of water at a chamber temperature of 23 deg. C and a level of 50% Humidity. The Window Frame thermal Coefficient U-Value = 4.85 W/SQM K. The assembly between the 14mm wide Polyamide insulating strips and the aluminum extrusions is done using our dedicated equipment imported from Switzerland.

Sealing Type Air - Water:

The sealing is guaranteed by a central sealing gasket in EPDM-Rubber ASTM Tested. and second barrier, Constituted by a sealing gasket is in the flap by the inside overlap. & Glazing is done with EPDM Sealing Gasket.

System dimensions:

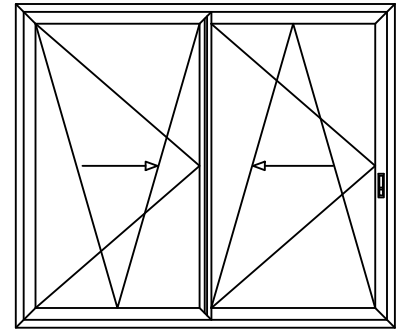
The Dimensional limits of Fabrication are as a direct Consequences of the wind pressure, or the accessories capacities, and the glazing weight.

Field of application:

The system have been created and studied to be apply on private buildings as well on public buildings and high rise towers.

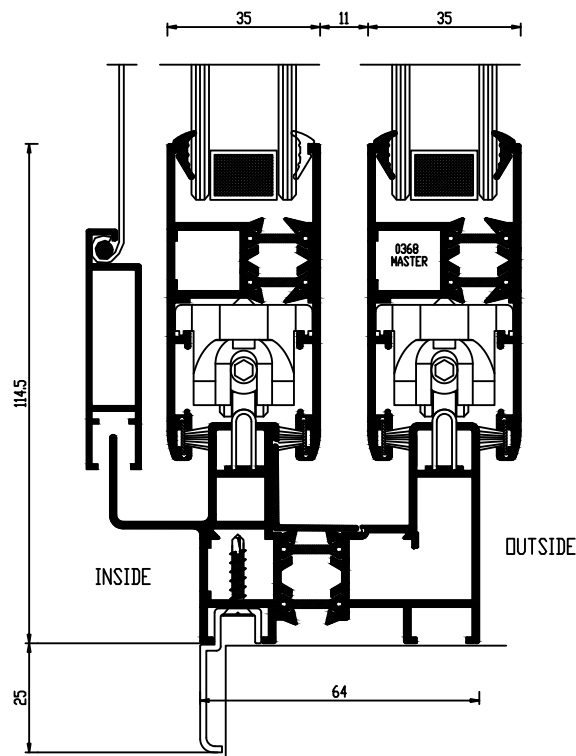
Design features:

The system it is composed of various design solutions including all types of projecting windows and others openings. The external lines are lightly rounded conferring to the profiles a good design and equilibrate sections. The system it is design in order to insure good performances and have at the same time a modern style.





ALUMINUM PROFILES SYSTEM FOR SLIDING WINDOWS & DOORS - THERMAL BREAK	
SYSTEM DIMENSIONS AND DESCRIPTION	
FIXED FRAME DEPTH:	64 mm
OPENING FRAME DEPTH	35 mm
SEALING:	BY DOUBLE GASKETS
THERMAL BREAK	14 mm Technoform Strip
ACCESSORIES:	SYSTEM ACCESSORIES
GLAZING:	24 mm
ALUMINIUM ALLOY	AA 6063 T6



Surface Treatment:

All the surface treatment are conform to the quality labels QUALICOAT for Powder Coating and QUALANOD for anodization.

Anodizing we guarantee the minimum thickness of 15 micron up to 25 microns according to international norms.

The powder coating is done with thermosetting and Polyesters Polymeric powders, the profiles are finished into special coating ovens, where the powders reach the right hardness through a heat treatment.

Surface treatment resistance:

The surface treatment done according to QUALANOD and QUALICOAT Quality labels shall be guarantee against corrosion and surface aging degradation for a period. The surface treatments shall resist to normal and marine exposition without been effected by corrosion or loss of shines. The most relevant factors influencing the surface treatment life lasting are the direct exposure to chemicals. The direct exposure in the front of the sea and/or salty water it may reduce the life lasting of the components. The exposure to heavy polluted environment may cause also problems. A regular cleaning with Ph neutral water and soaps increase the components life.

Safety:

In order to prevent injuries or/an accidents the windows and doors are to be installed as displayed into this catalogue, anchoring the components to the building and using original only accessories. The fixing should be made according to the National norms for security and safety use.

Gaskets:

The gaskets used during assembling and installing the components should be only the ones created for this system and displayed in this product catalogue. The use of other gaskets or/and brushes it may cause functional and design problems. The gaskets used should be conform to the national norms for windows and doors safety applications, do not release toxic smokes in case of fire and insure the performances during all the component life lasting.

Sealing products:

All the sealing products employed during the fabrication of the components and installing the components on the building are to be conform to the specification uses for aluminum profiles and its surface treatments. Sealing products should be PH neutral and specifically studied do not start any chemical or/and corrosive reaction with the windows and doors components, accessories, gaskets and surface treatments.

Accessories:

All the accessories used for the manufacturing, mounting, functioning and installation of this system are specifically studied for this system in order to insure performances and a correct functioning of the models. The use of others accessories different's from the ones displayed in this catalogue it may effect or/and make dangerous the functioning of the component. Only the accessories studied for this system are the ones to be used.



Ricerca – Progettazione e sviluppo industriale - Brevettazione
Attività soggetta a direzione e coordinamento di
Master S.r.l. – Accessori per serramenti – Conversano (Ba)

Test report

Test number: 032016INT

Customer: QALEX (Qatar Aluminium Extrusion CO.)

Test sequence: Air leakage EN12207; Water resistance EN12208; Wind load EN12210/12211

Test parameters: $T_{air} = 24.4\text{ }^{\circ}\text{C}$, $T_{water} = 23.0\text{ }^{\circ}\text{C}$, Rh 48.3%, pressure 998 hPa

Sample type: Sliding window, 2 sash (QALEX T-Reem 64)

Sample dimension: Frame W=1447 mm; H=1650 mm

Test bench

Model: ACS 3030

Max dimension test: 3000 x 3000 mm

Fan: inverter driven system with continuous check of pressure in test chamber, and continuous measurement of flow rate

Hydraulic pump: valve adjustment and continuous measurement of flow rate with infrared flow meter

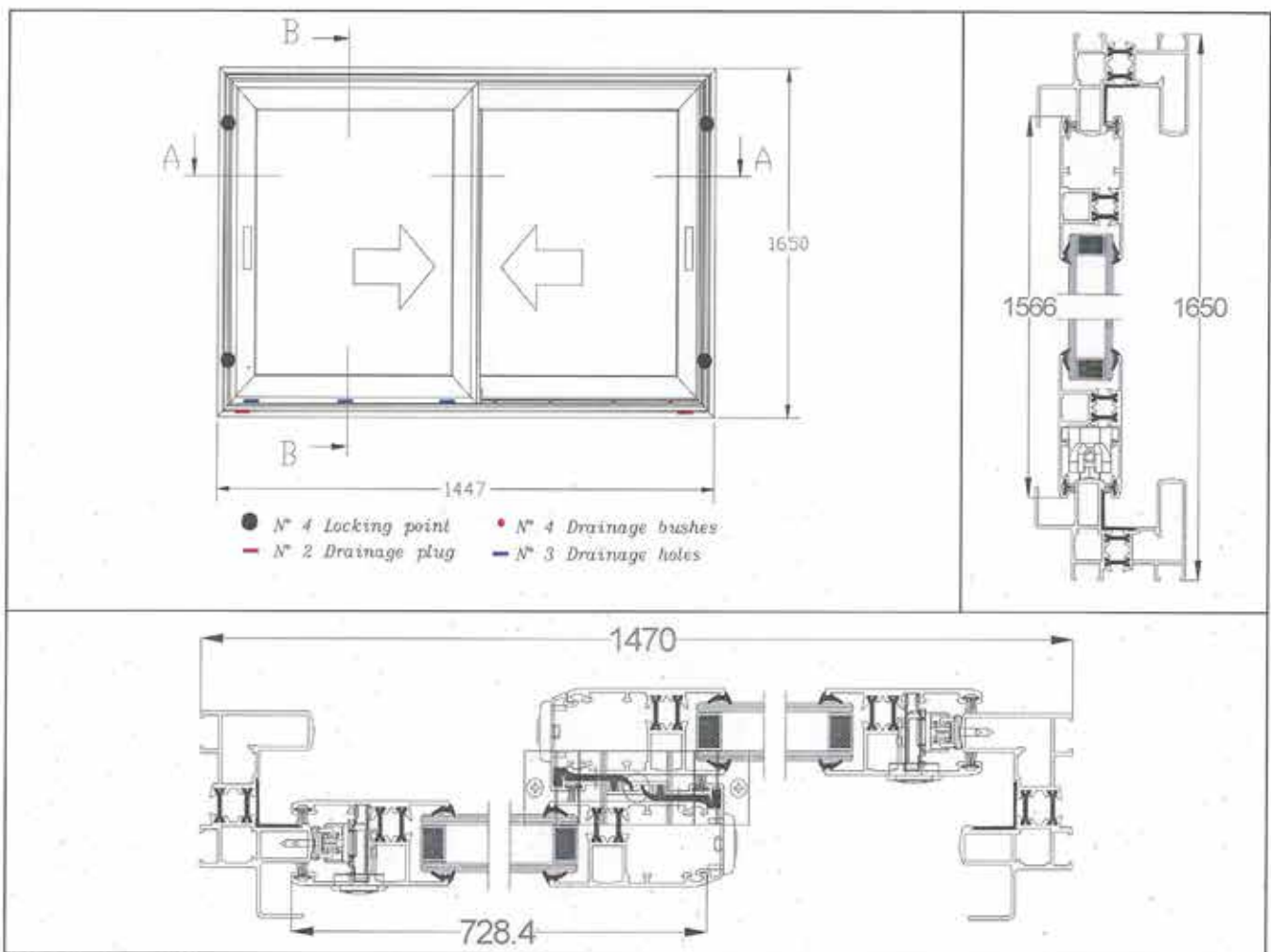
Auxiliary equipment: fog machine





THINK | CREATE | INNOVATE | INSPIRE
Ricerca - Progettazione e sviluppo industriale - Brevetazione
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Frontal view and sections:



Hardware list:

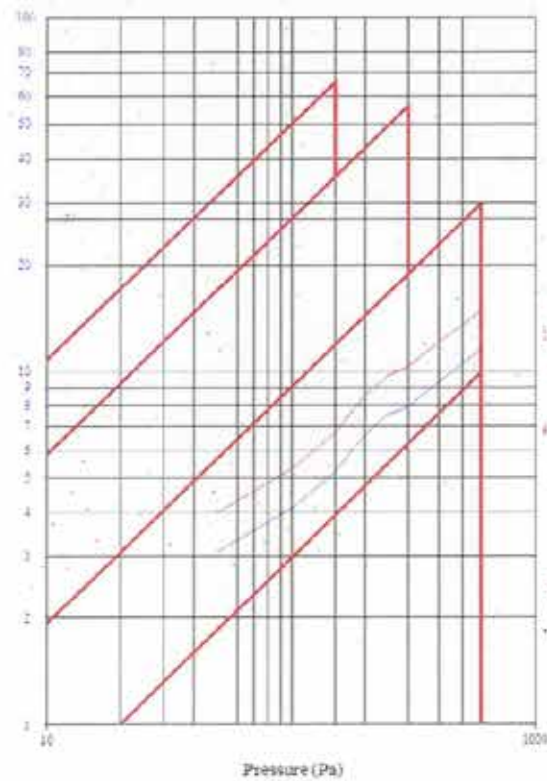
Cod.	Description	Qty
0368	Die cast aluminium corner joint 24x10.5	16
2183	Alignment corner joint	16
6392A	"FAST LOCK" Stainless steel multipoint lock - L 1000mm - 2 locking point - backset 7.5mm	2
6392A.20	"FAST LOCK" Kit for 6394 and 6394A	2
6397.1	"FAST LOCK" Embedded handle	2
6675.15	"PENDOLINO TOP" Balanced adjustable double handle - Load 90Kg (180Kg for sash)	4
6601Y.88	"TOPKIT" Assembly kit - weight sash 180 kg (standard rail)	1
G1527	Brush with three fins 6.9x7mm	



Ricerca - Progettazione e sviluppo industriale - Brevetazione
Attività soggetta a direzione e coordinamento di
Master S.r.l. - Accessori per serramenti - Conversano (Ba)



Air leakage:



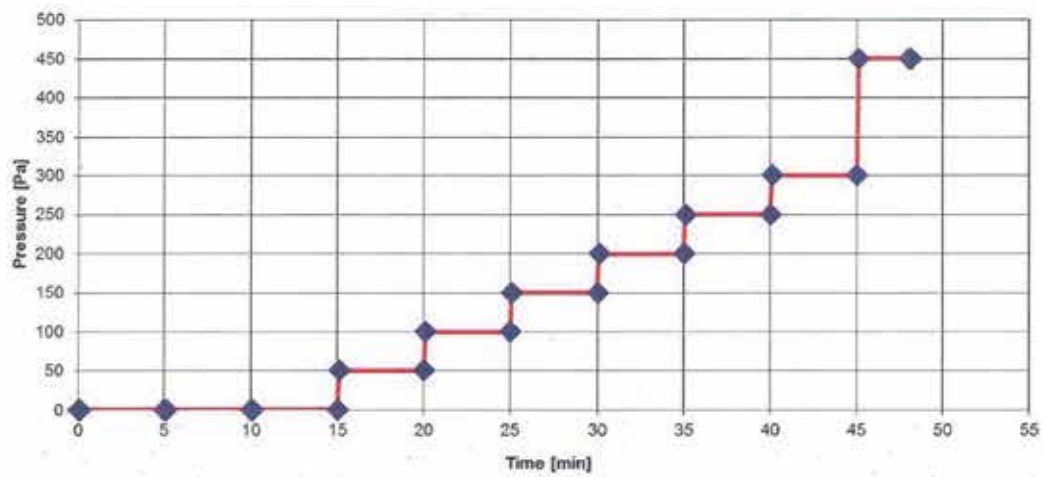
Classification: grade 3



Ricerca – Progettazione e sviluppo industriale - Brevettazione
Attività soggetta a direzione e coordinamento di
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Water resistance:

Test sequence



Water leaks at 450 Pa

Classification: grade 7A

Picture:





Ricerca – Progettazione e sviluppo Industriale - Brevettazione
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Wind load:



test pressure: ± 2000 Pa

deflection: $< 1/200$

test pressure: ± 1600

deflection: $< 1/300$

safety pressure: ± 3000 Pa

classification: B5/C4

Air leakage check:



result: passed



Ricerca – Progettazione e sviluppo industriale - Brevetazione
Attività soggetta a direzione e coordinamento di
Master S.r.l. – Accessori per serramenti – Conversano (Ba)

Test results

Air leakage	Water resistance	Wind load
3	7A	B5/C4

May 31st, 2016

Lab assistant
Nicola Antonio Dentamaro

MasterLAB s.r.l.
Unipersonale
S.P. 37 Conversano-Castiglione Km. 0,700
70014 CONVERSANO (BA)
C.F./P. IVA 06835770725

MasterLAB - S.r.l. Unipersonale - SP 37 Conversano-Castiglione Km.0,700 - 70014 CONVERSANO (BA) - Tel. +39 080 4955957 -
Fax +39 080 4090385

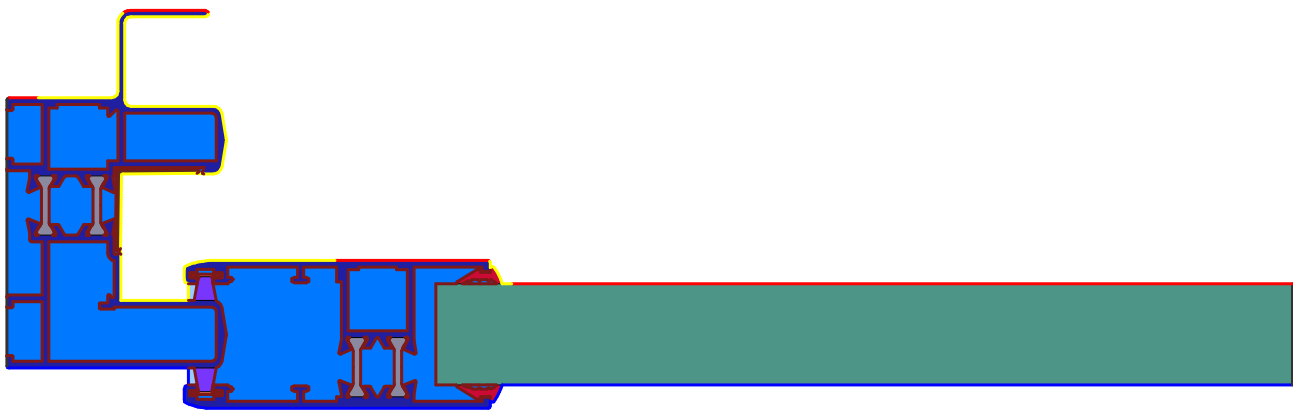
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06835770725



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TECHNOFORM BAUTEC



Material	$\lambda[W/(m \cdot K)]$	ϵ	Boundary Condition	$q[W/m^2]$	$\theta[^\circ C]$	$R[(m^2 \cdot K)/W]$	ϵ
Aluminium (Si Alloys)	160.000	0.900	Epsilon 0.9				0.900
EPDM (ethylene propylene diene monomer)	0.250	0.900	Exterior, frame		0.000	0.040	
Mohair (polyester) sweep	0.140	0.900	Interior, frame, normal		20.000	0.130	
PVC (polyvinylchloride), rigid	0.170	0.900	Interior, frame, reduced		20.000	0.200	
PVC, flexible (PVC-P) 40% softener	0.140	0.900	Symmetry/Model section	0.000			
Panel	0.035	0.900					
Polyamid 6.6 with 25% glass fibre	0.300	0.900					
Slightly ventilated air cavity		anisotropic					
Unventilated air cavity		anisotropic					



GALEX
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QATAR ALUMINIUM EXTRUSION CO.



الجمعية القطرية
للبناء الأخضر
QATAR GREEN
BUILDING COUNCIL
Joint Promoters, sponsors,
Members of Qatar Foundation

T-REEM 64



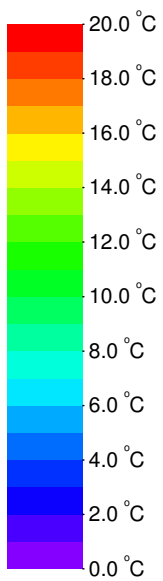
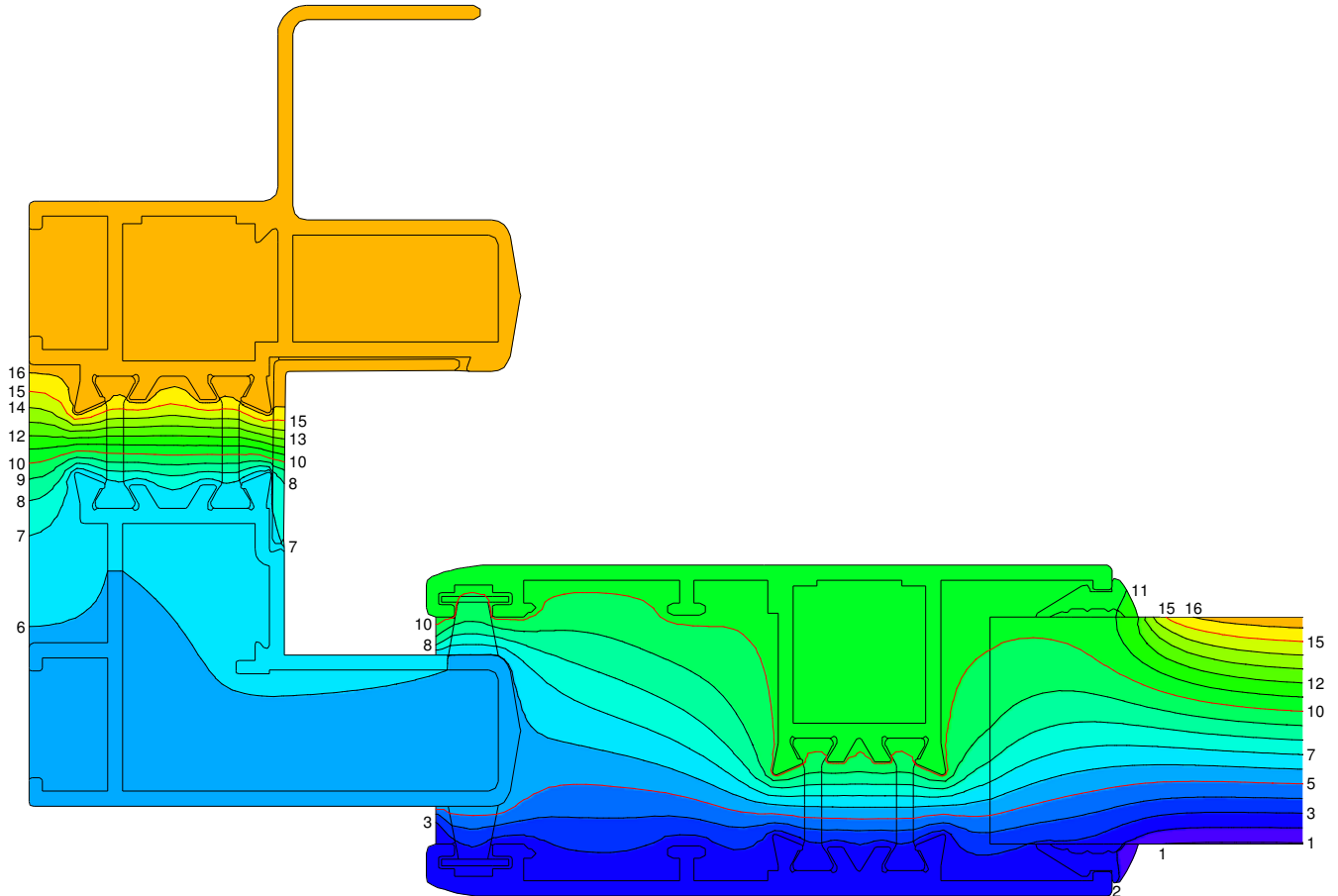
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TECHNOFORM BAUTEC

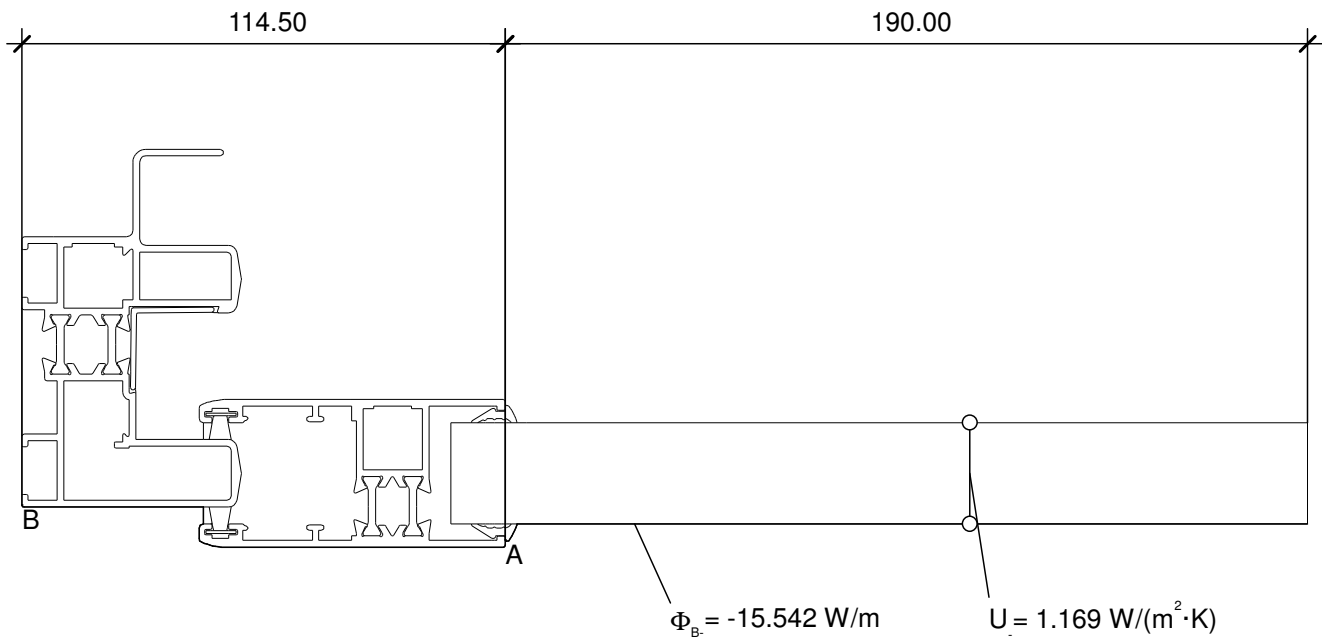




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$$U_{f,A,B} = \frac{\frac{\Phi}{\Delta T} - U_p \cdot b_p}{b_f} = \frac{\frac{15.542}{20.000} - 1.169 \cdot 0.190}{0.115} = 4.85 \text{ W/(m}^2 \cdot \text{K)}$$



GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



الجمعية القطرية
للبناء الأخضر
QATAR GREEN
BUILDING COUNCIL
Joint of Promoting, Supporting,
Benefits of Green Buildings

T-REEM 64



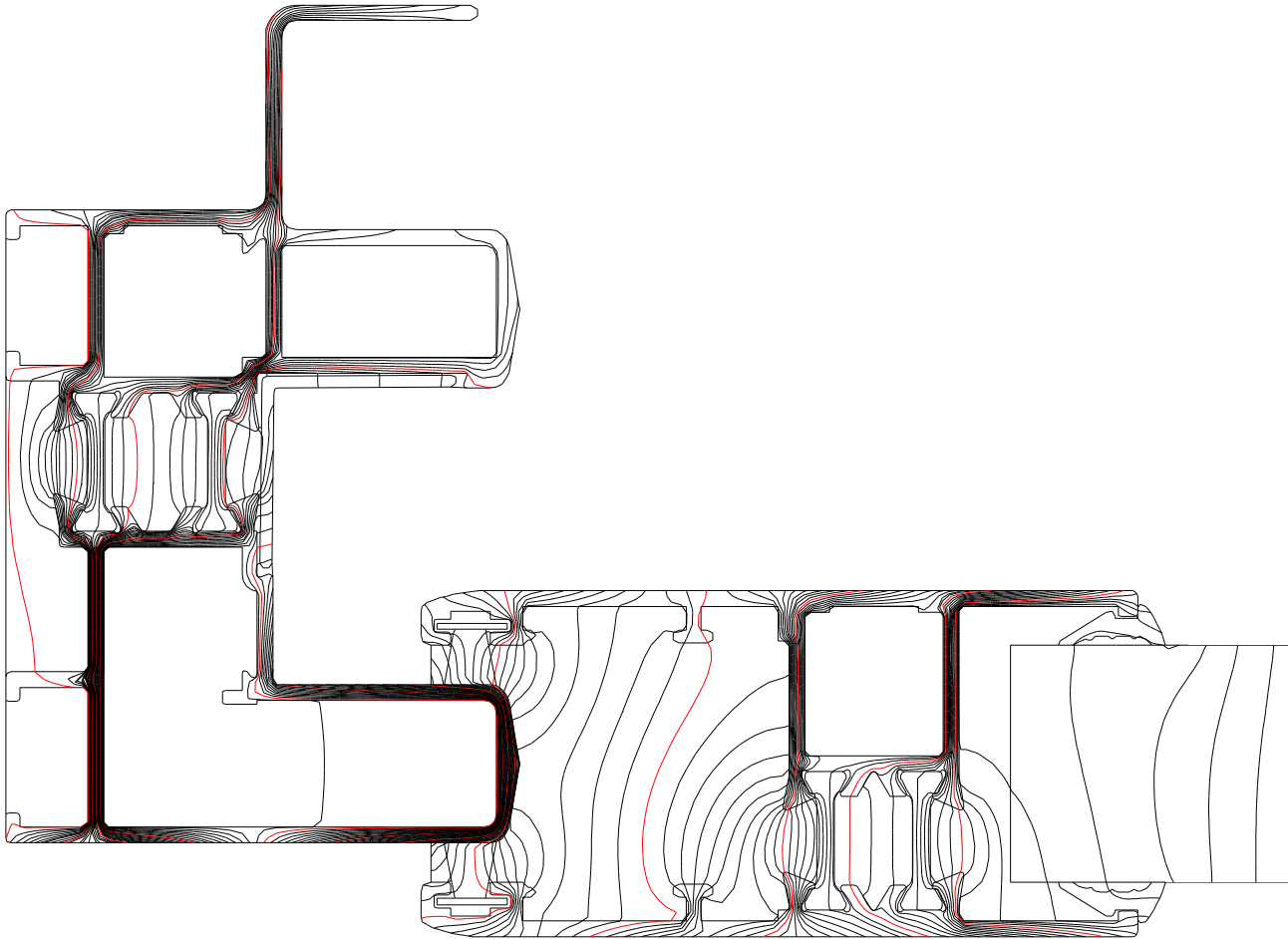
Licence number: 4203



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POLYAMIDE STRIPS- DATA SHEET

MATERIAL DATA SHEET Insulating Strips of PA 66 GF 25 Dry Impact Resistant

POWERED BY



No.	Characteristic	Refrence Standard	Unit	Samples Prepared From Insulating Strips		Extruded	Inject-Moulded Samples
				Dry ¹	Humidity Equilibrium ²		Dry ¹
1	Melting Tempreture	DIN EN ISO 11357-3	°C	Min.250	Min.250		Min.250
2	Density	DIN EN ISO 1183-1 or -3	g/cm ³	1.3 ± 0.05	1.3 ± 0.05		1.3 ± 0.05
3	Annealing Residue (Glass Fibre Content)	DIN EN ISO 1172	%	25 ± 2.5	25 ± 2.5		25 ± 2.5
4	Shore Hardness D	DIN EN ISO 868		82 ± 4	78 ± 4		84 ± 2
5	Impact Strength	DIN EN ISO 179-1 ³ DIN 53453 ⁴	kJ/m ²	Min.30 or without break	Min.40 or without break		Min.35
6	Tensile Strength	DIN EN ISO 527-2 and -4	N/mm ²	Min.80	Min.50		Min.110
7	Young's Module	DIN EN ISO 527-2 and -4	N/mm ²	Min.4500	Min.2000		Min.6000
8	Elongation at Break	DIN EN ISO 527-2 and -4	%	Min.3	Min.7		Min.3

¹ Sample Water Content Less then 0.2 % by weight

² Fast Conditioning (EN ISO 1110)

³ Methord 1fU

⁴ Standard small Specimen (50 mm x 6 mm x wallthickness)

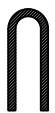


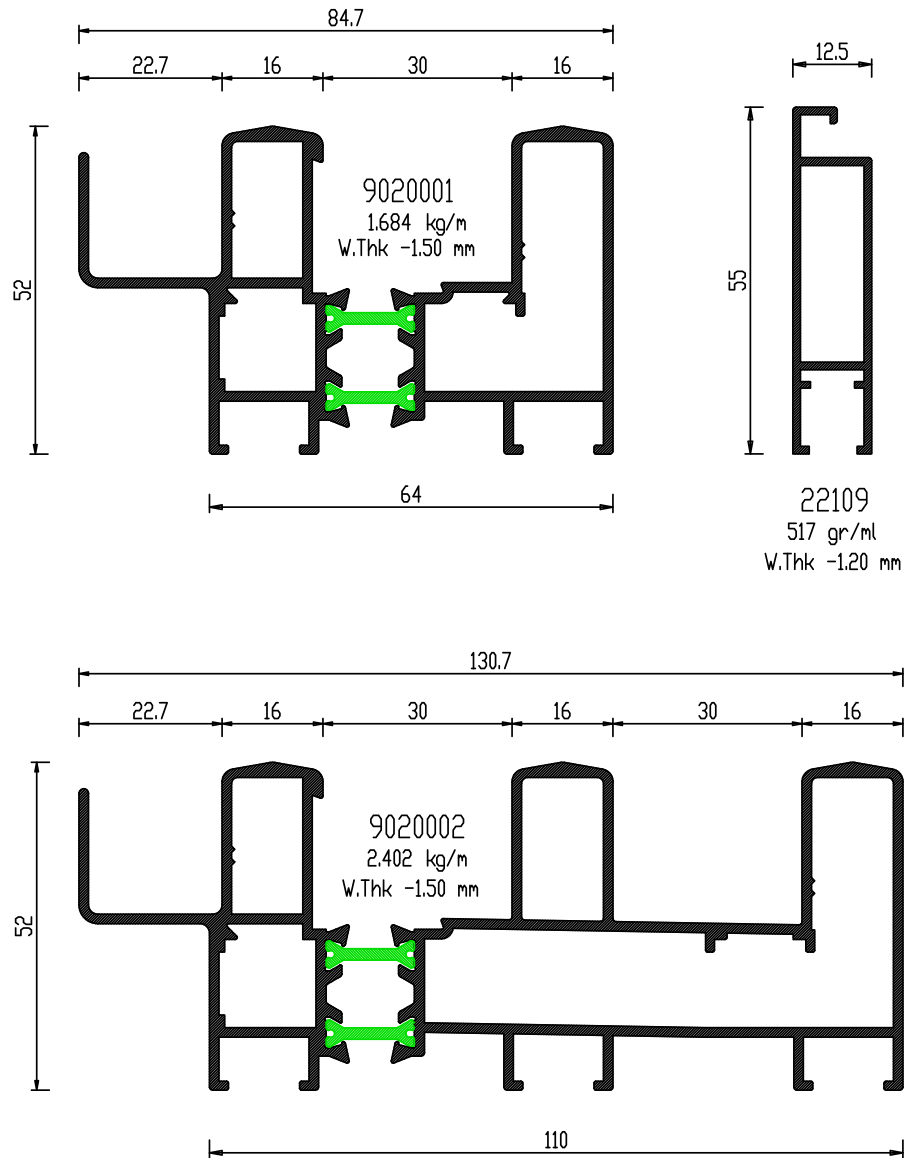
CODE	Y DRAWING X	DESCRIPTION	Weight Kg/m	Surface Dx mm	Ix cm ⁴	Iy cm ⁴
9020001		frame 2 rails With Fly screen	1.684	245.5	11.62	30.08
9020002		frame 3 rails With Fly screen	2.402	338	16.63	105.16
9020809		open frame 2 rails With Fly screen	1.778	230	10.67	30.94
9020810		open frame 3 rails With Fly screen	2.531	322.5	15.29	111.55
9020304		Double glass Shotter	1.258	209.5	13.36	7.48
9020405		Renforced double glass Shotter	1.536	370.5	14.04	17.06
9020606		Transon	1.548	168	17.87	6.89
90207		Interlock	419	45	2.53	3.05
9020811 11*		open frame 2 rails With Double fly screen	2.013	314	11.59	46.22
9020012		frame 2 rails With Double fly screen	1.967	329.5	12.46	45.42

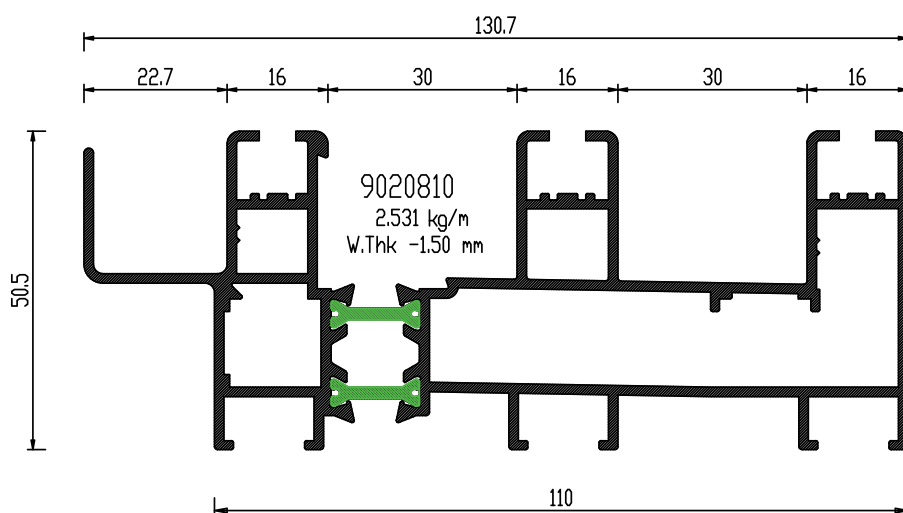
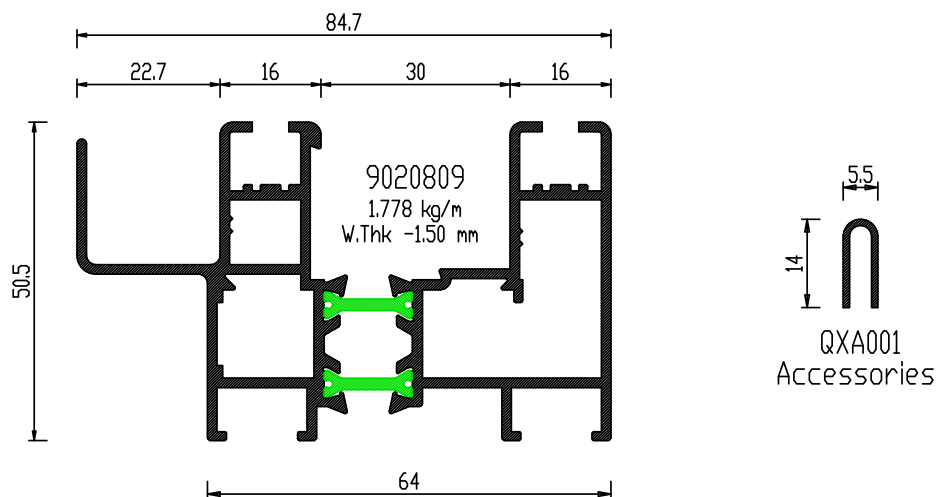


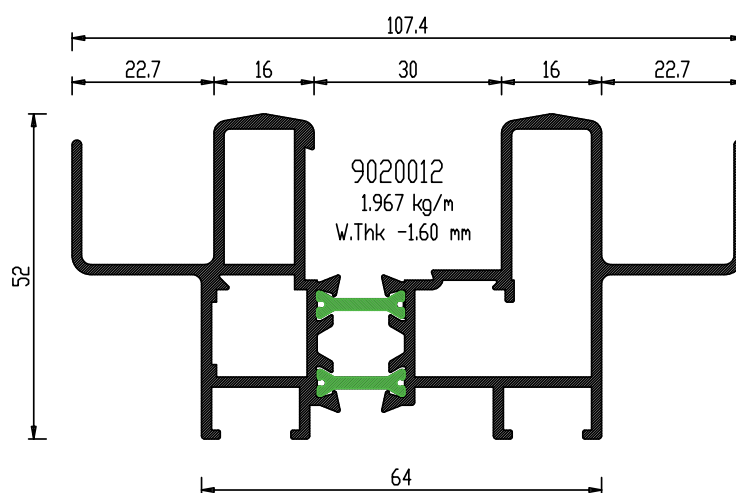
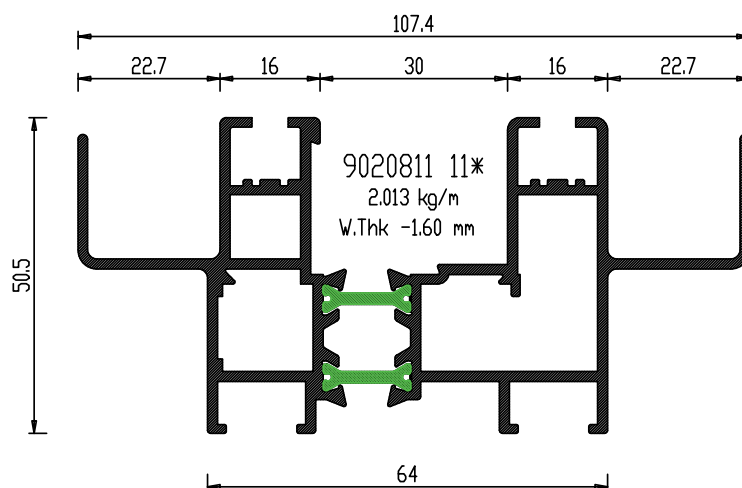
CODE	Y DRAWING X	DESCRIPTION	Weight Kg/m	Surface □x mm	Ix cm ⁴	Iy cm ⁴
9020013 13*		frame 3 rails With Double fly screen	2.731	422	17.74	143.78
90214401		Fix profile	1.264	88	4.85	12.18
9020415 15*		Shutter with glass stop	1.230	143	4.85	12.18
9020416 16*		Reinforced Shutter with Glazing Board	1.508	163	4.85	12.18
90113		Guide	211	-	-	-
90107		Four wings profile	397	48	0.86	0.88
90109		Over lap profile	208	28	0.88	0.16
90119		Shutter for fly screen	958	153	11.42	6.62
90120*		Glassing Board	111	16	-	-
90121		Clipping corner joint	2.222	-	-	-

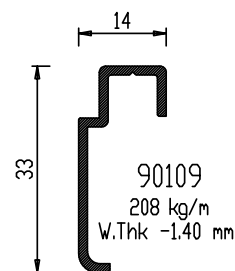
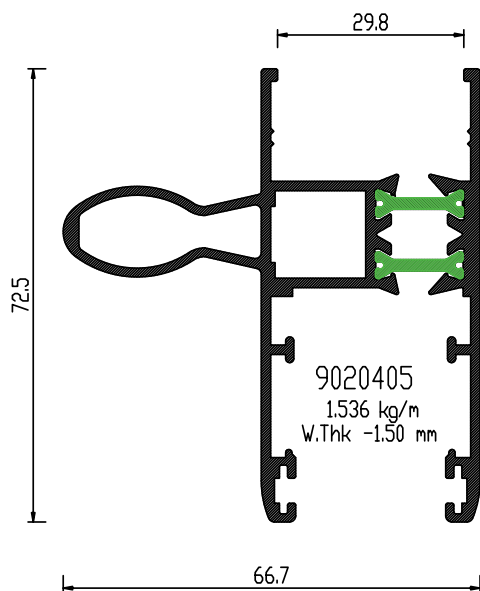
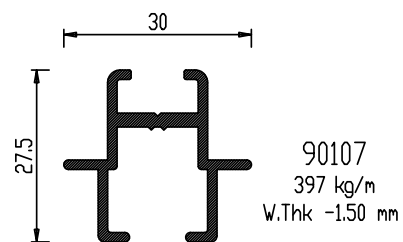
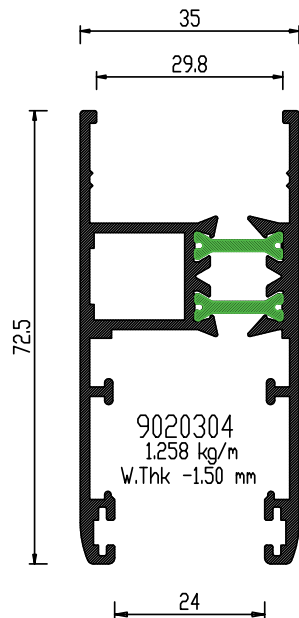


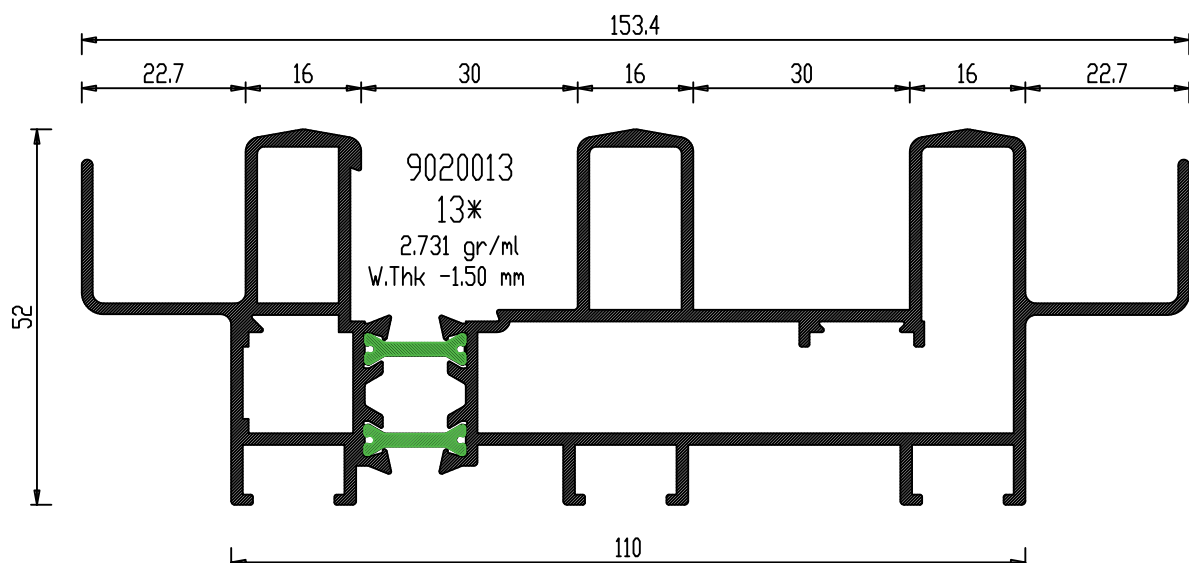
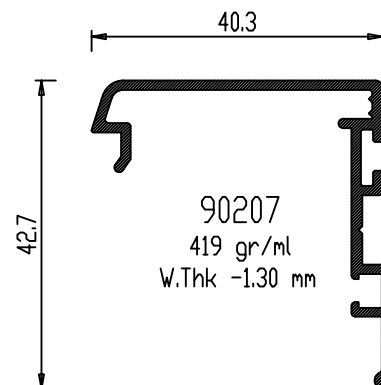
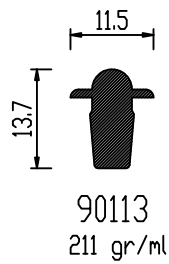
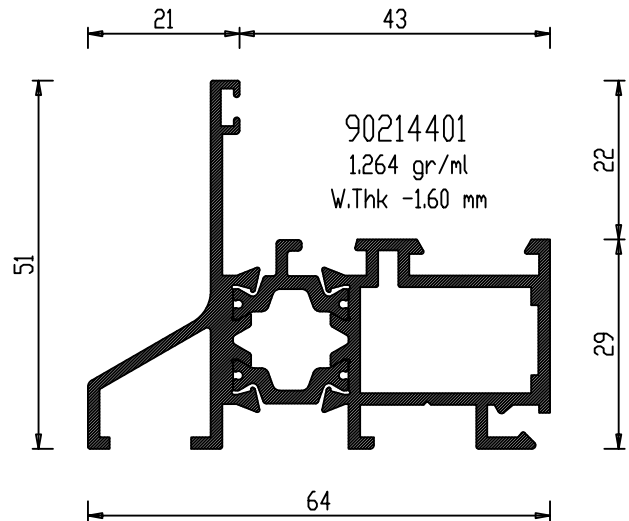
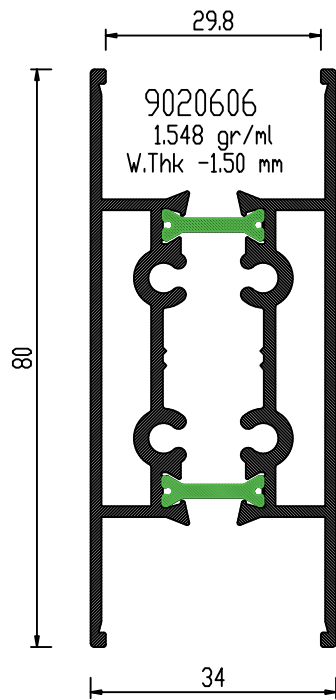
CODE	Y DRAWING X	DESCRIPTION	Weight Kg/m	Surface □x mm	Ix cm ⁴	Iy cm ⁴
90122		Clipping corner joint	2.731	-	-	-
QXA001		Stainless steel rail	-	-	-	-
22109		Fly screen	517	110	4.37	0.43

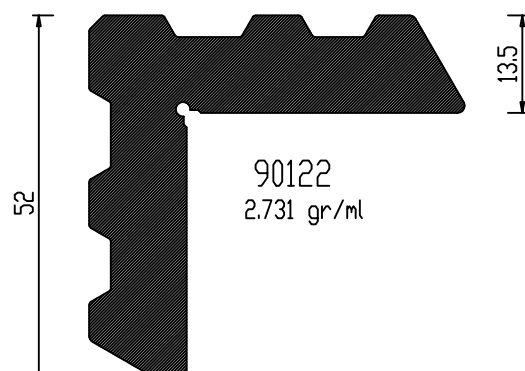
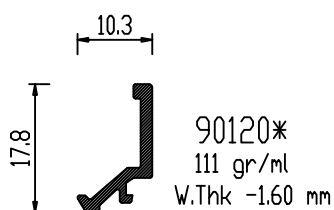
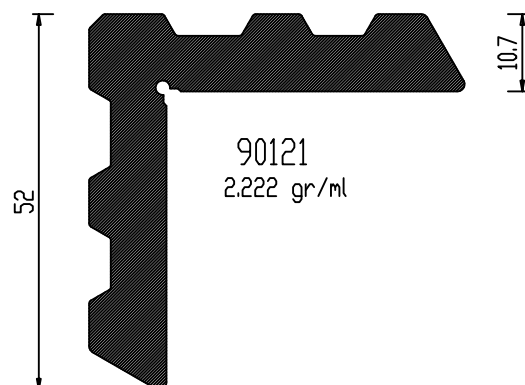
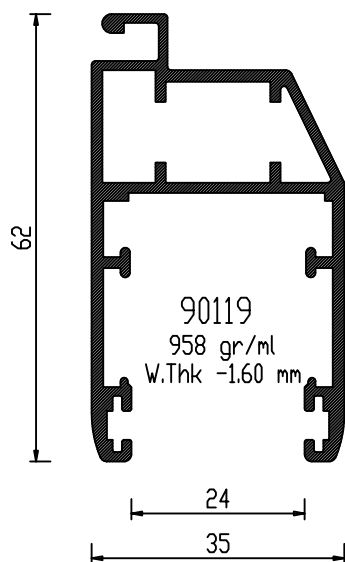
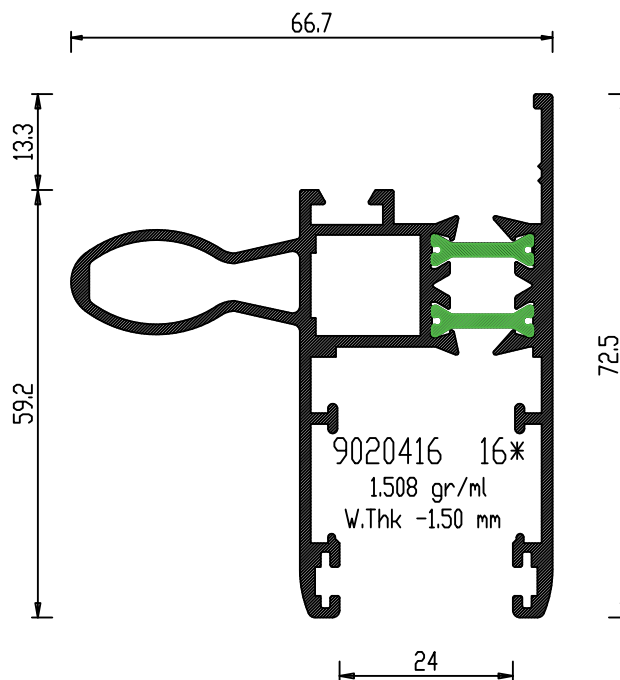
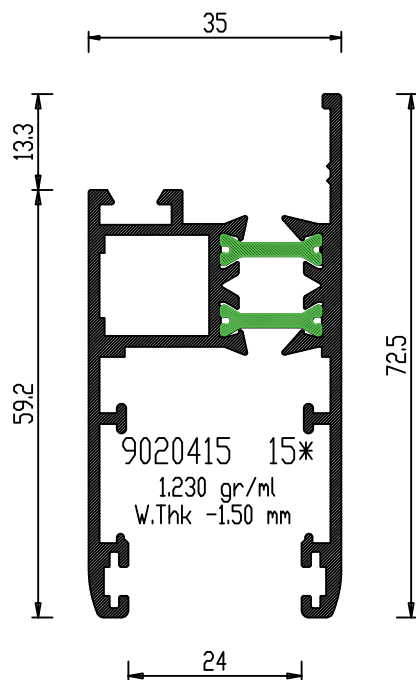


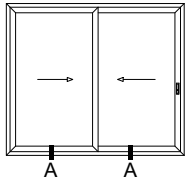




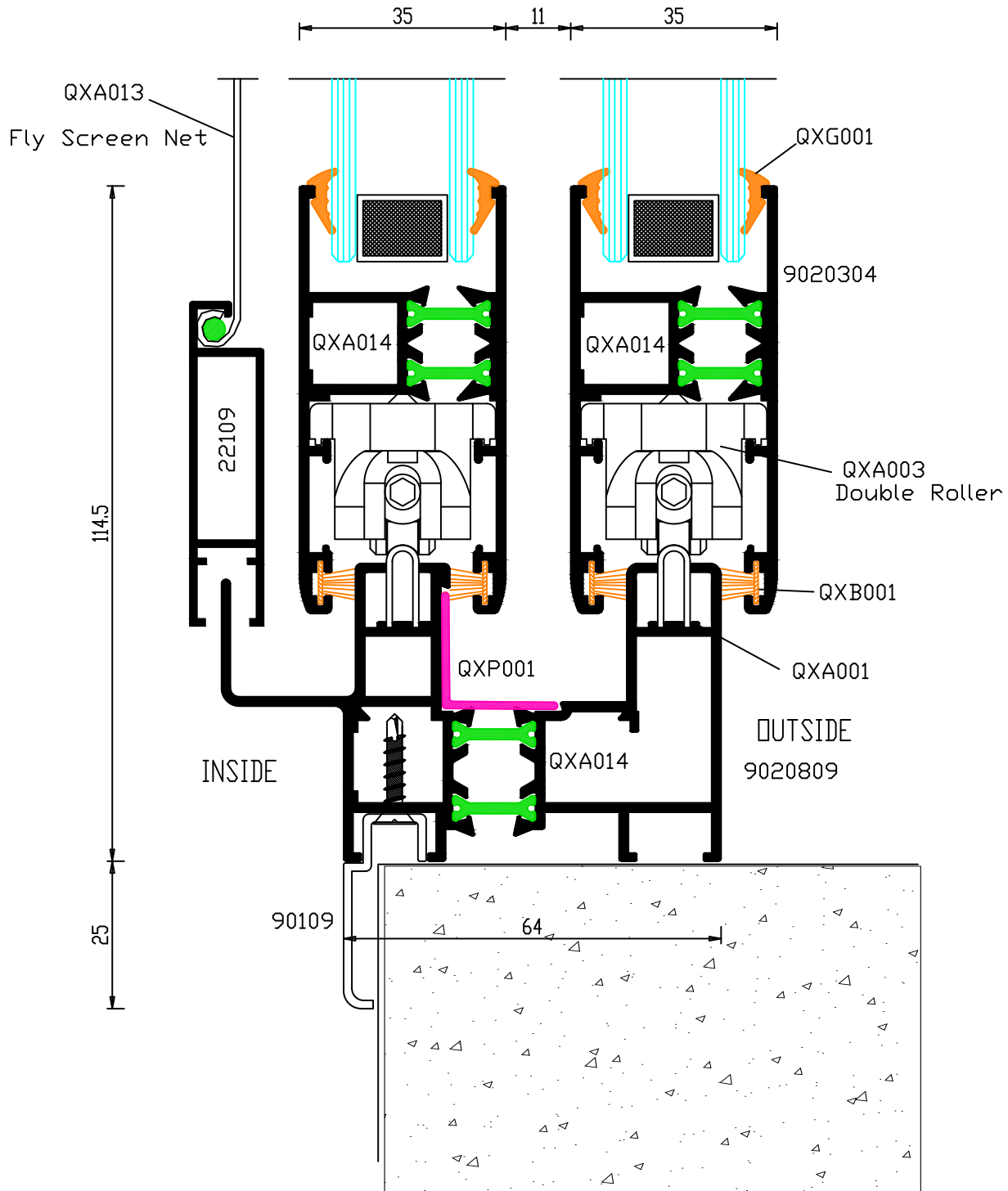


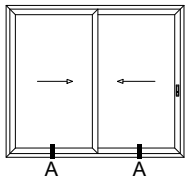




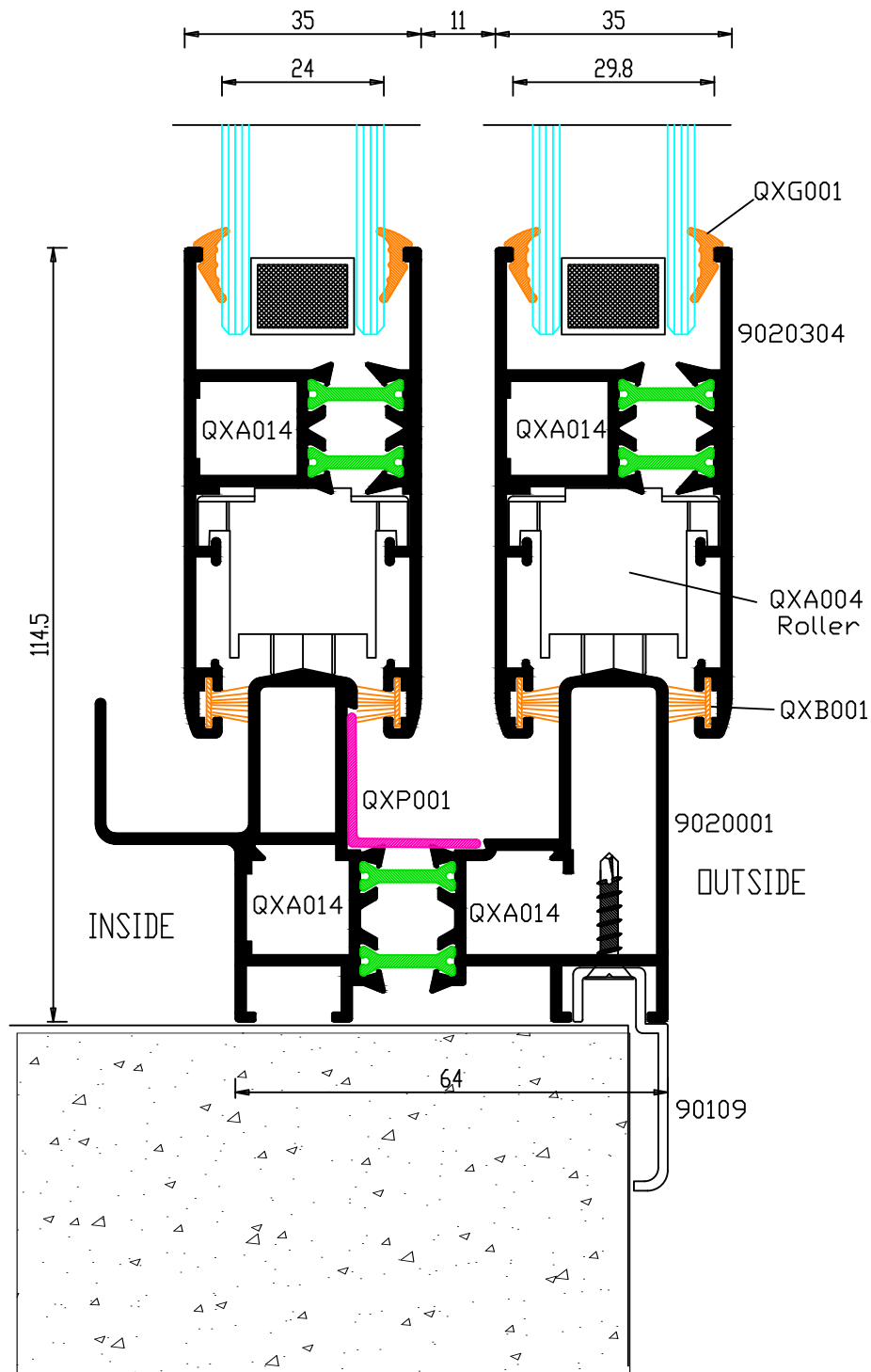


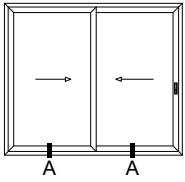
Two Sash Thermal Sliding assembly with Double glass Fly Screen



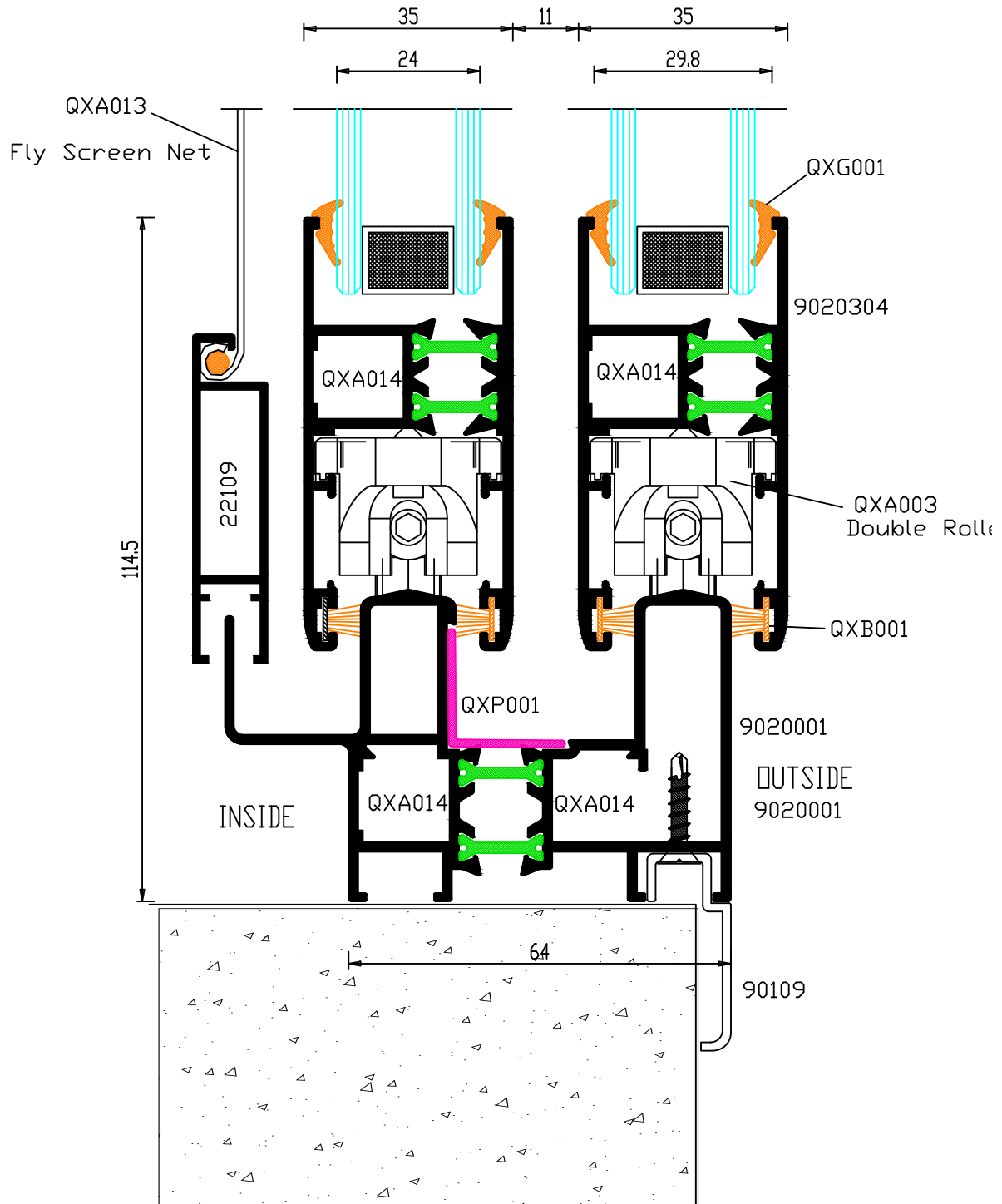


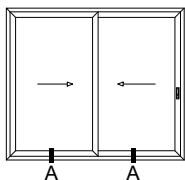
Two Sash Thermal Sliding assembly with Double glass



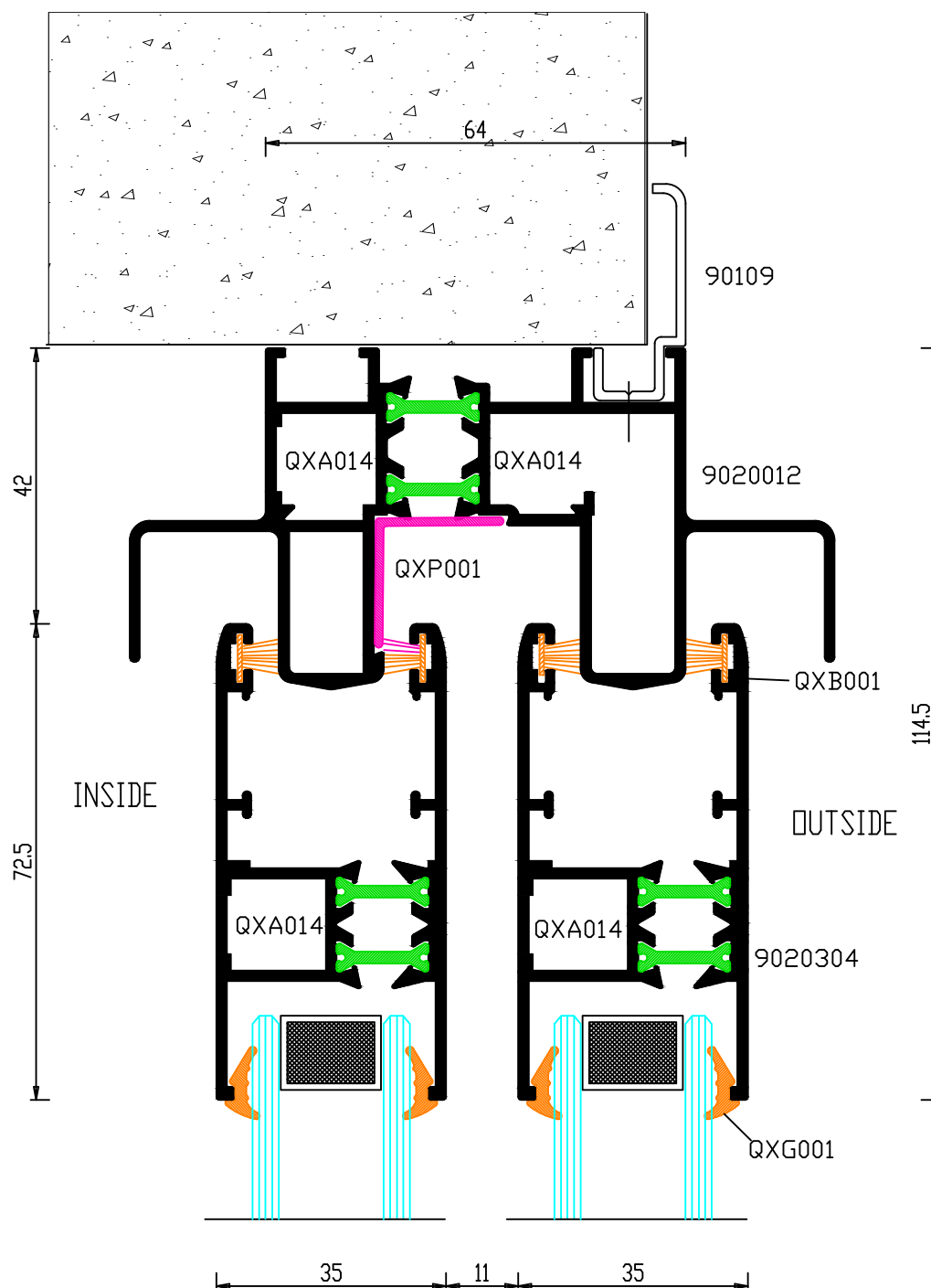


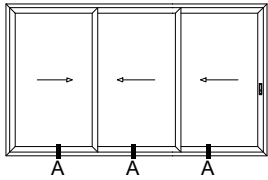
Thermal Two Sash Sliding Assembly with Double Glass



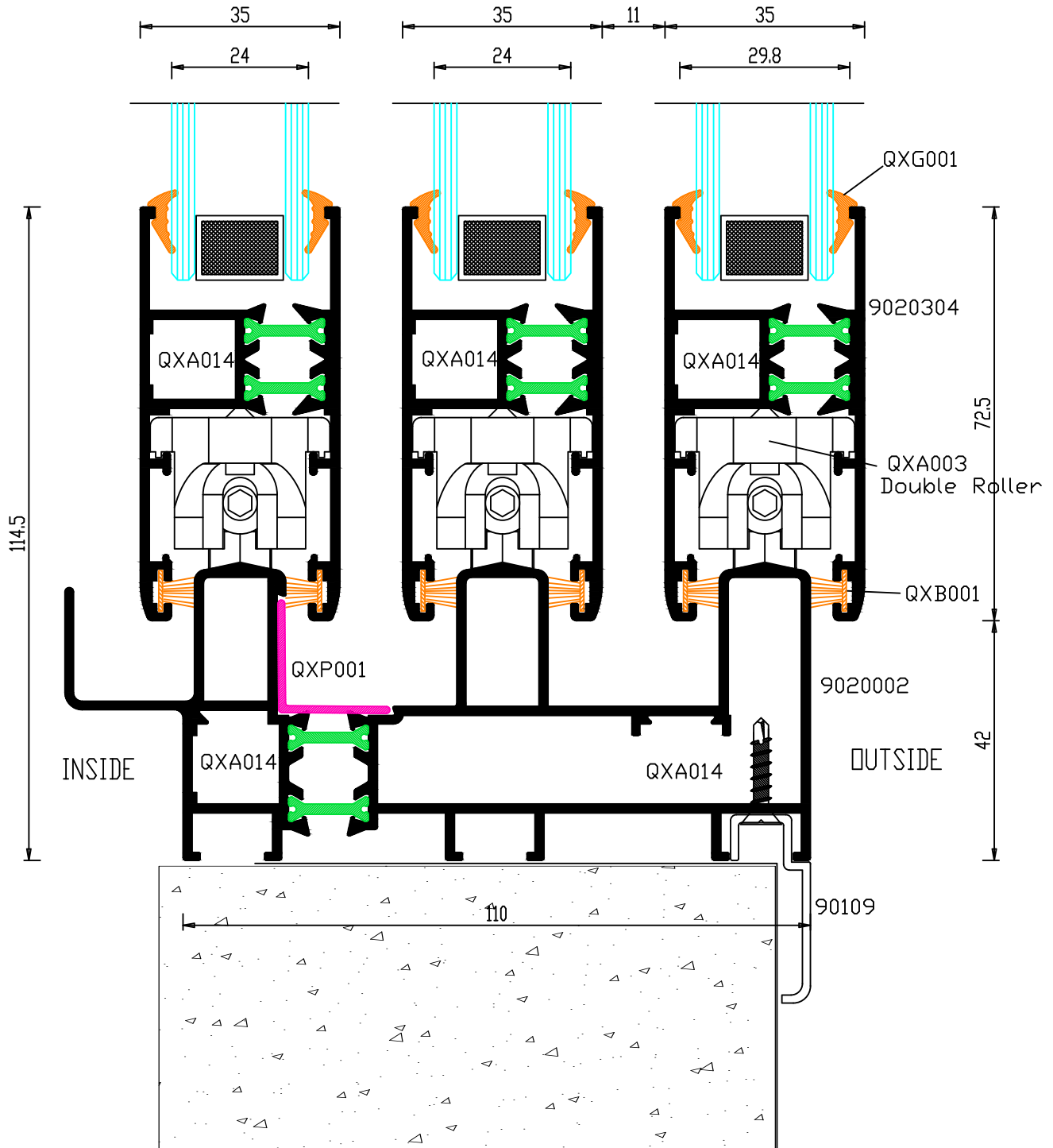


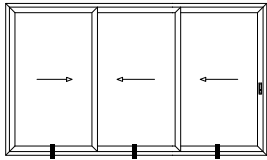
Thermal Two Sash Sliding Assembly with Double Glass



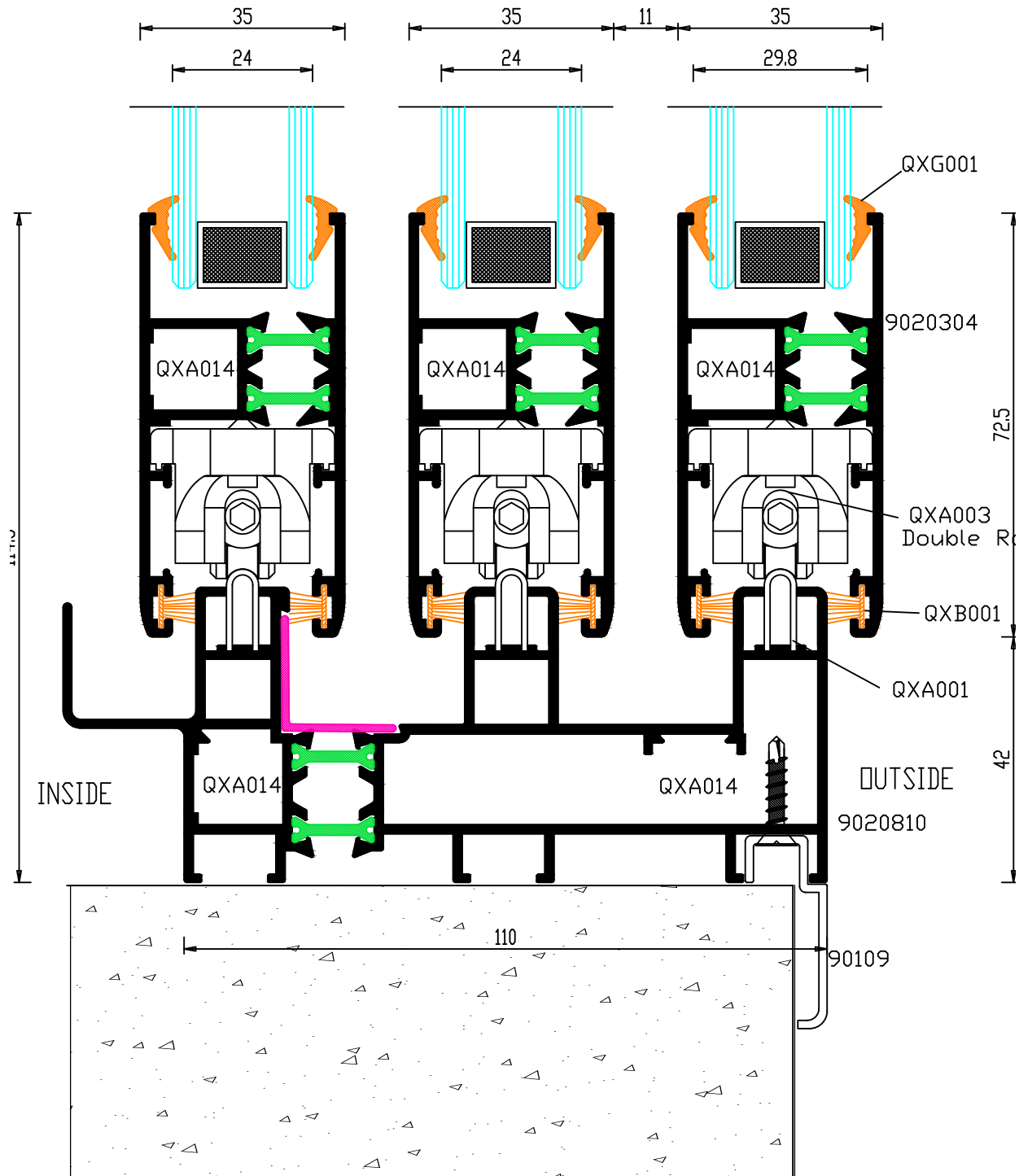


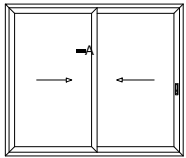
Thermal Three Sash Sliding Assembly with Double Glass



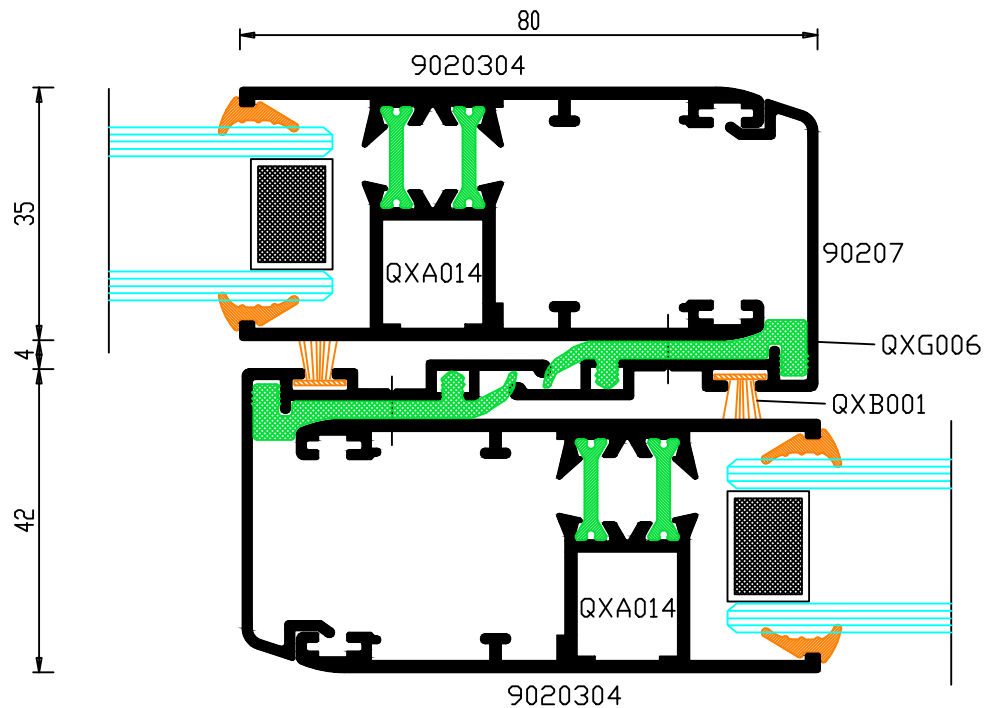


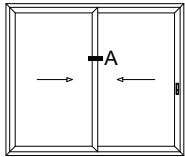
Thermal Three Sash Sliding Assembly with Double Glass



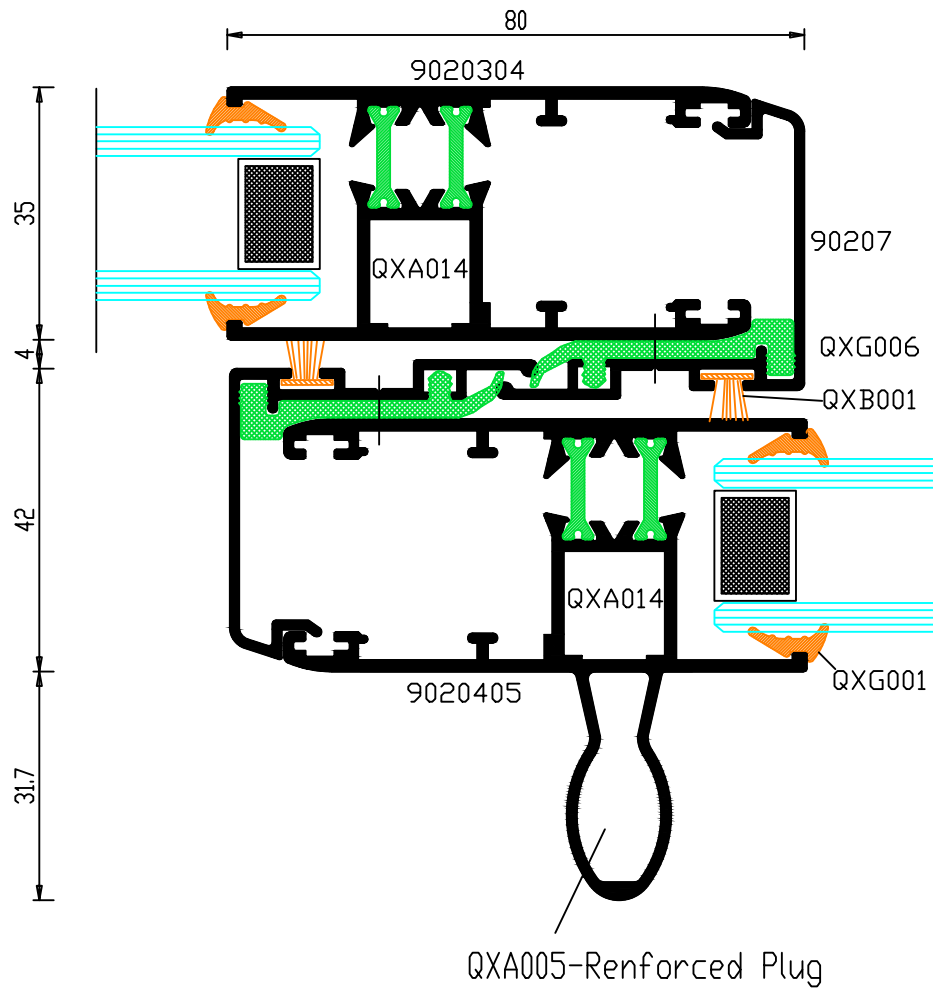


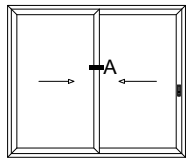
Interlock Assembly



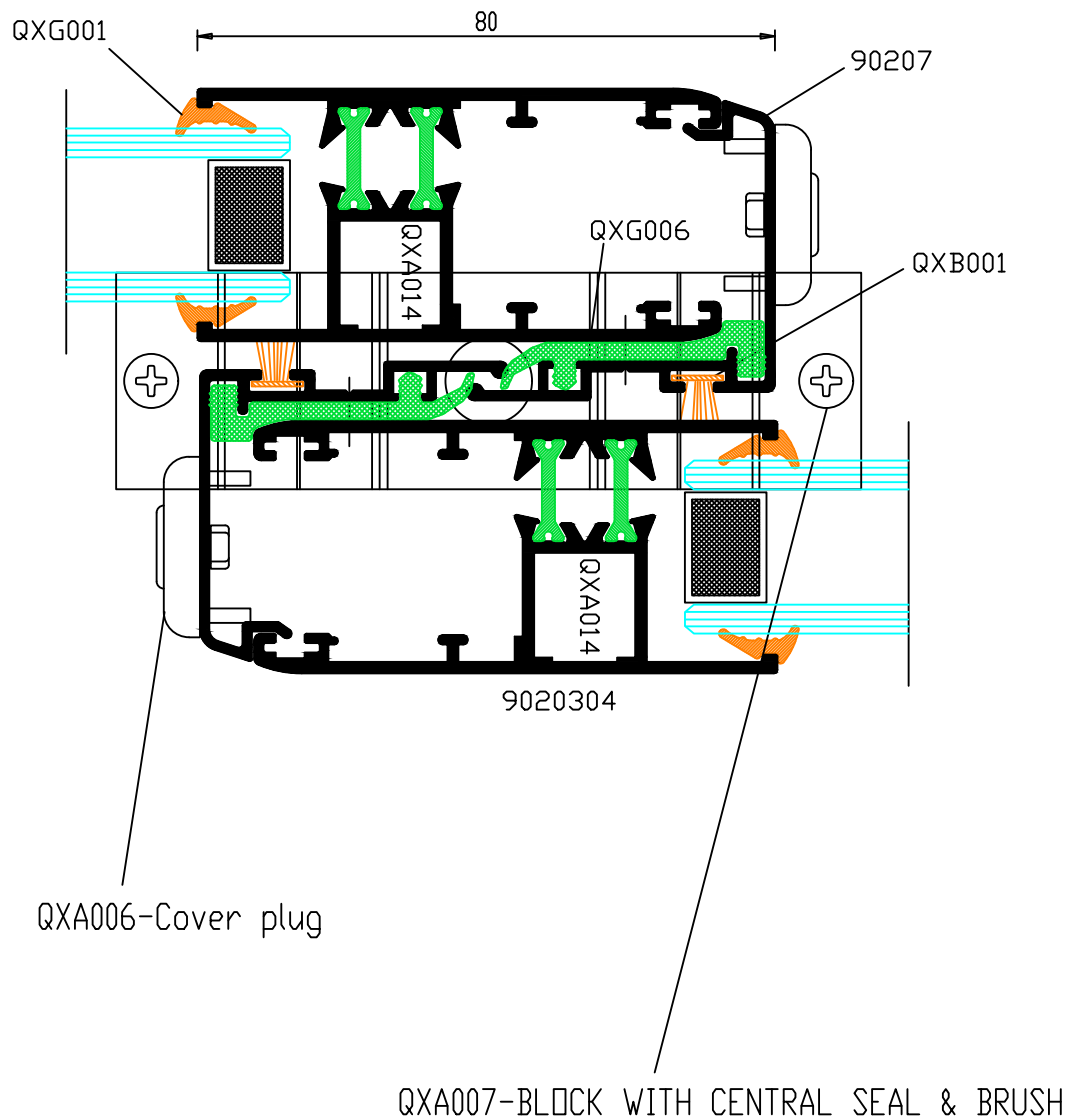


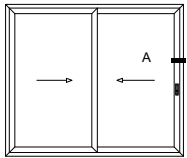
Interlock with Reinforced Shutter



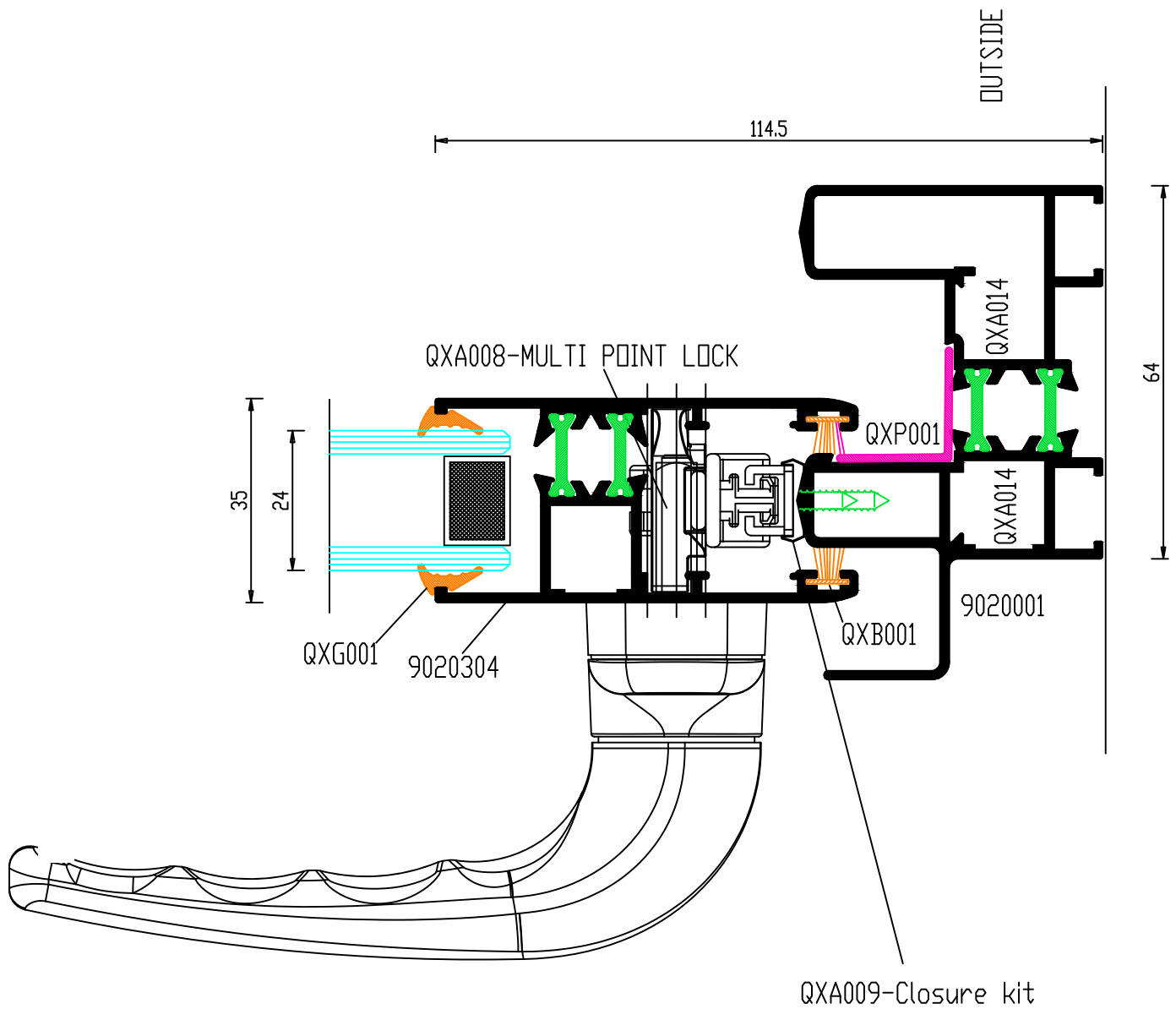


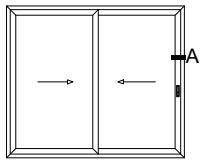
Interlock assembly with Dust Brush and Cover plug.



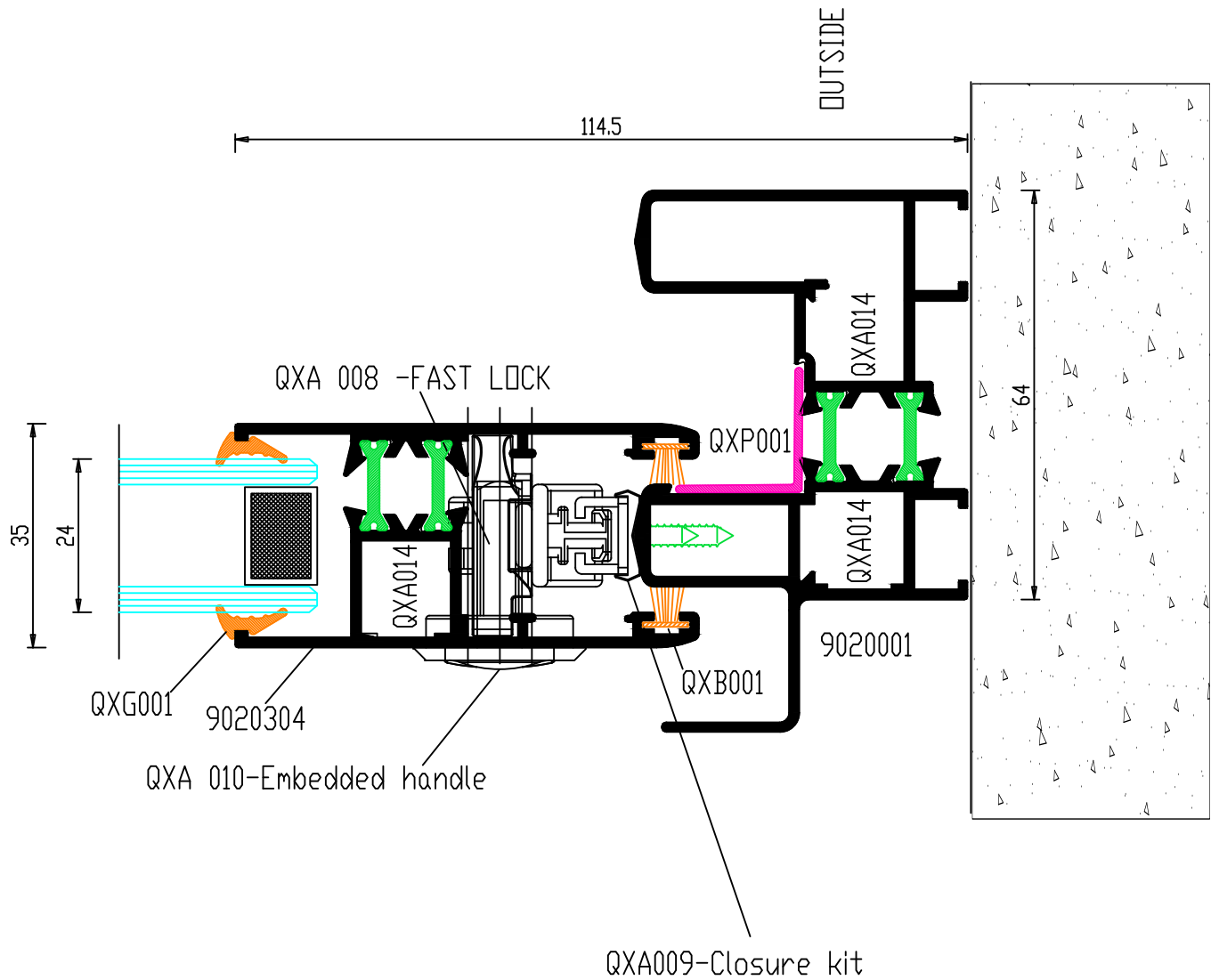


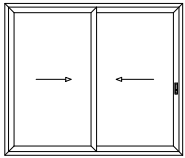
Thermal Sliding Locking Assembly



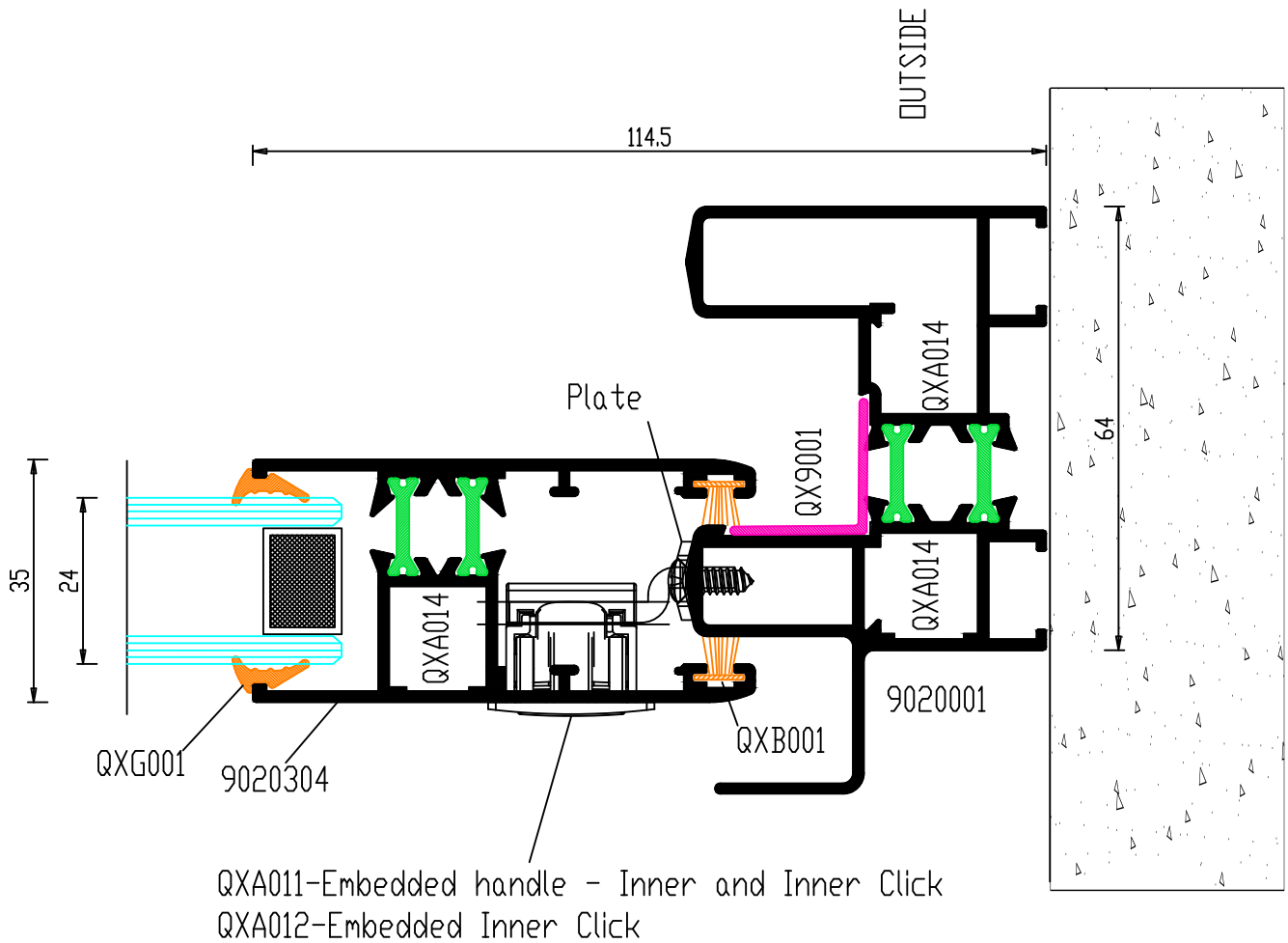


Thermal Sliding Locking Assembly



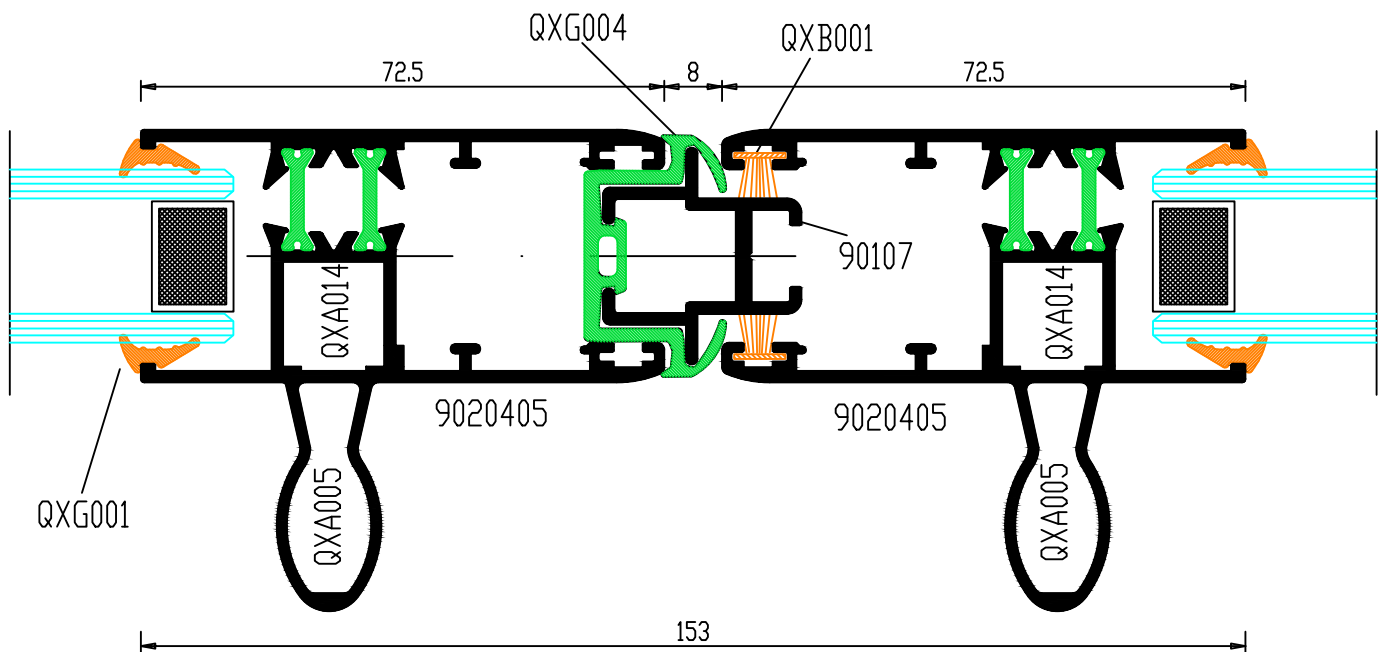


Thermal Sliding Locking Assembly



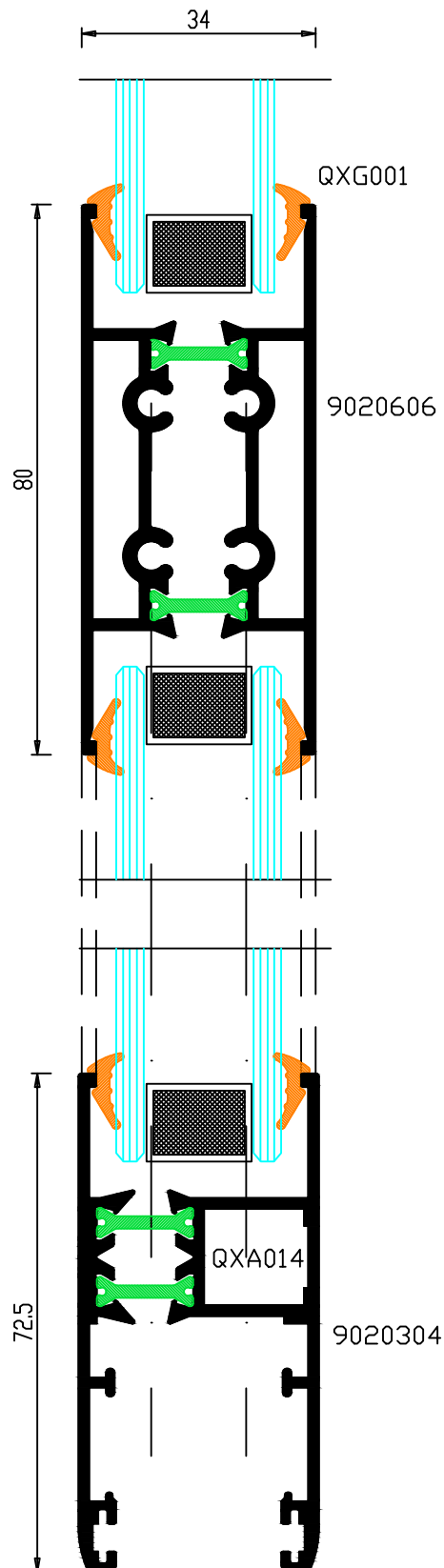


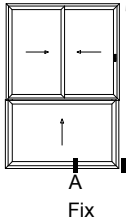
Thermal Door Four Sash Assembly with Reinforced Sash



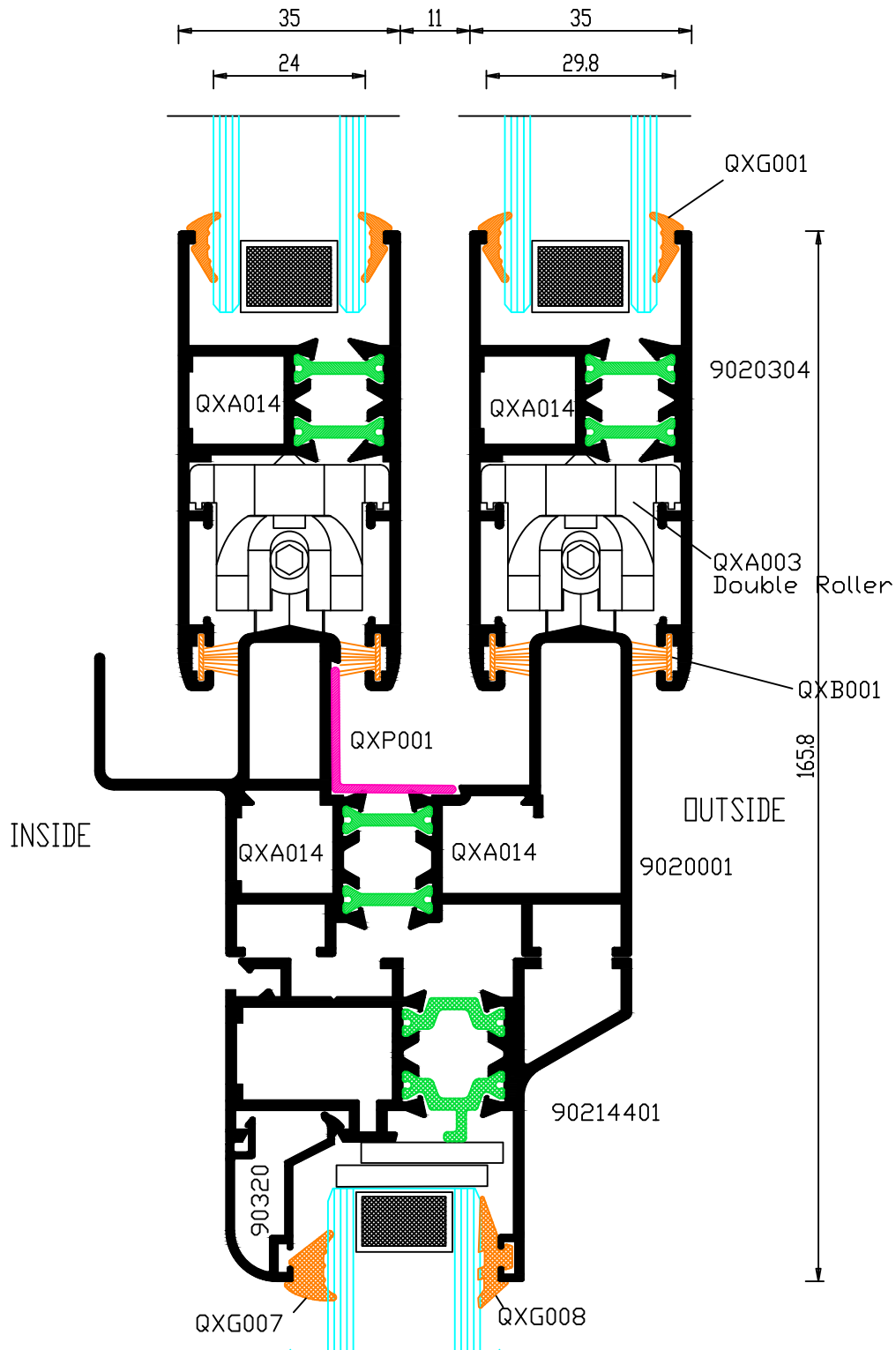


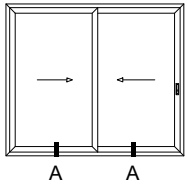
Transom Assembly



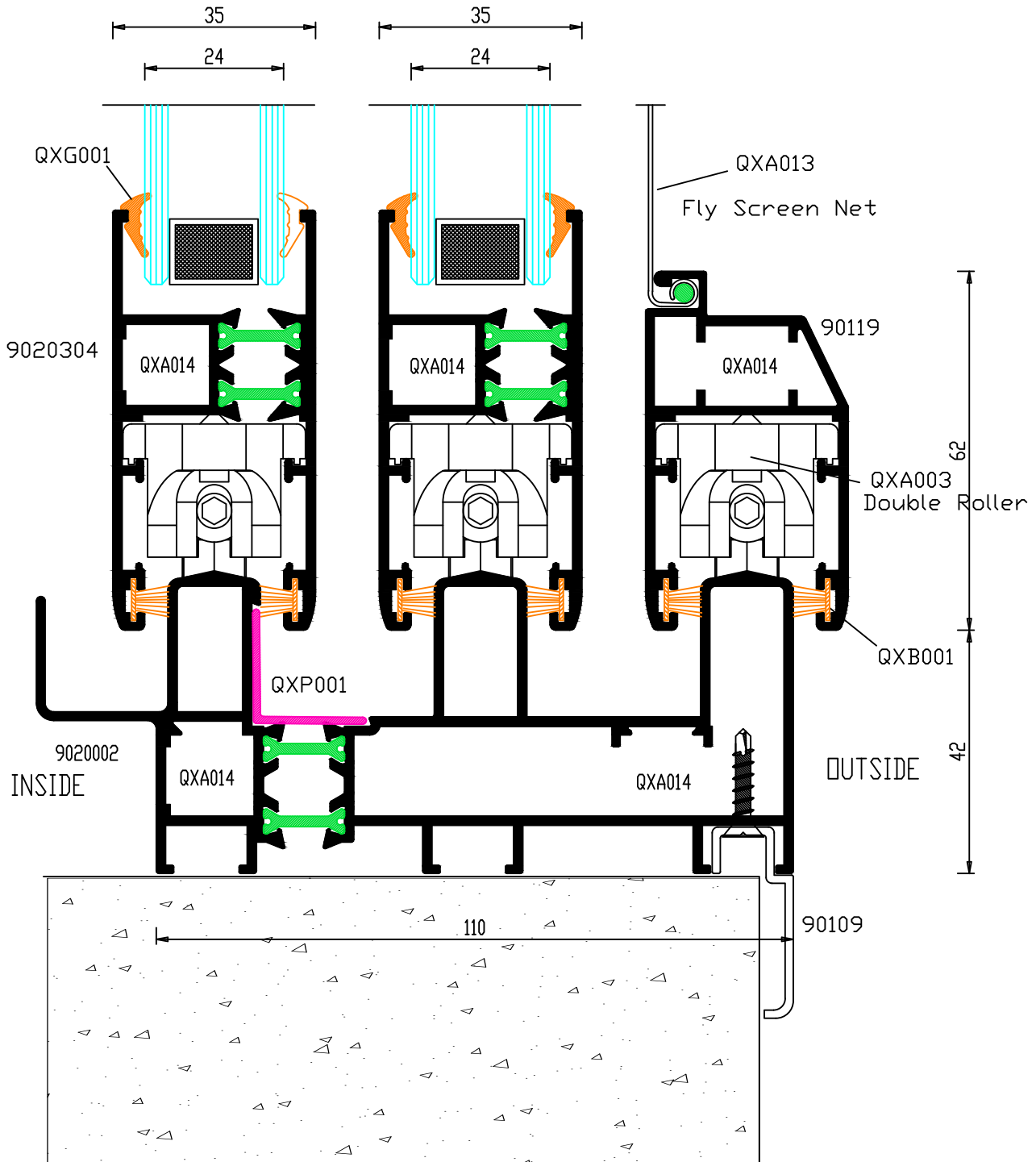


Thermal Fix window with Sliding Assembly



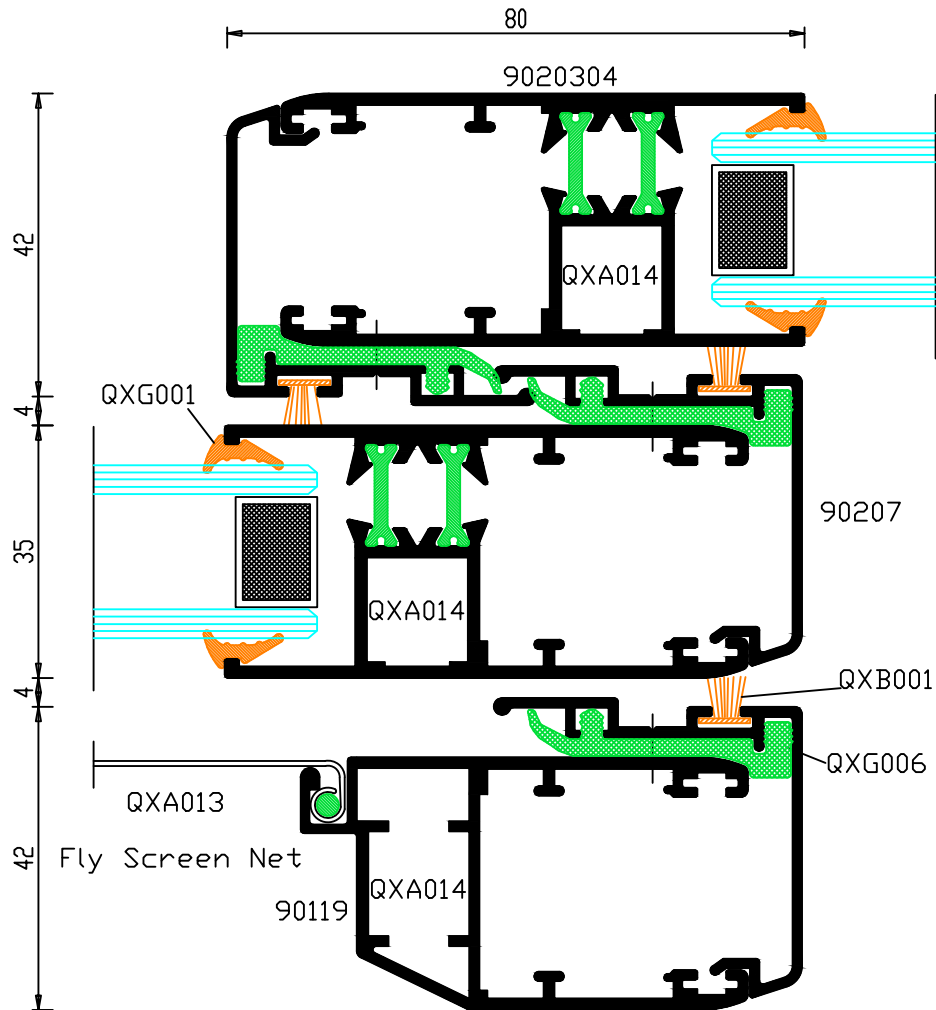


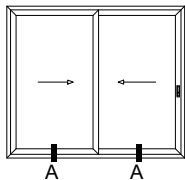
Thermal Two Sash Sliding window Assembly with Fly screen Shutter



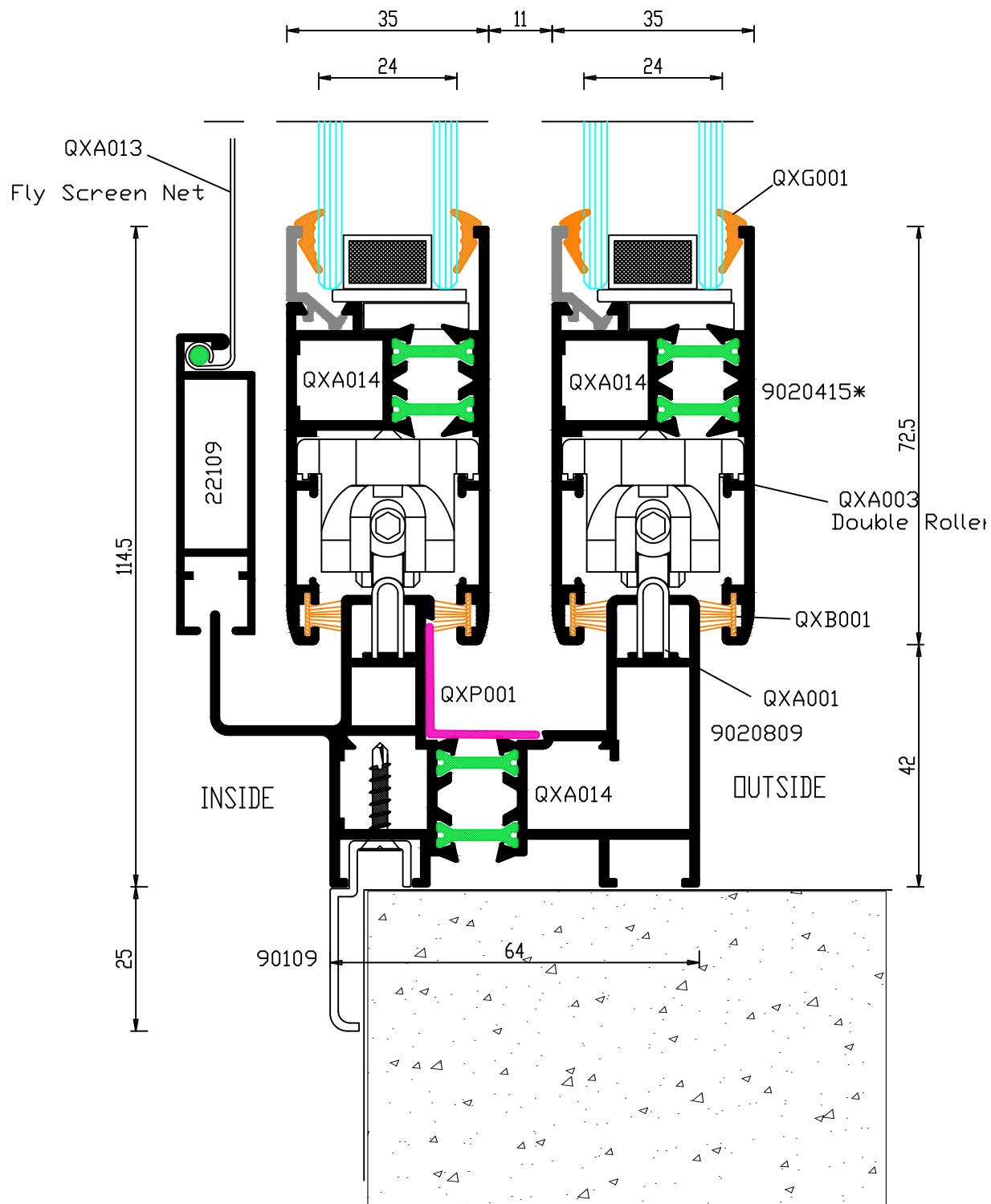


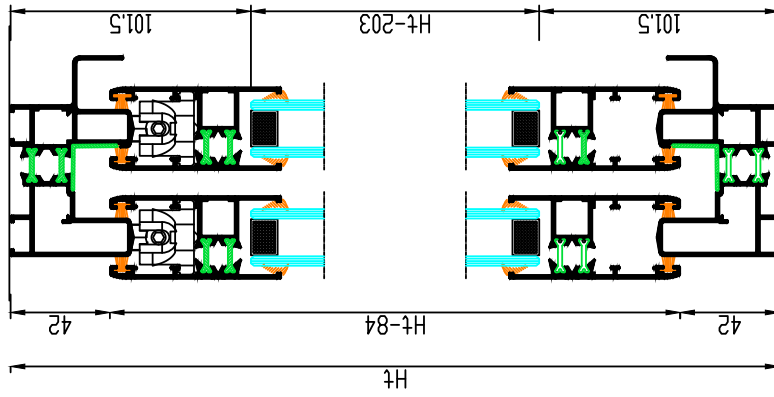
Thermal Inter lock Assembly with Flyscreen Shutter





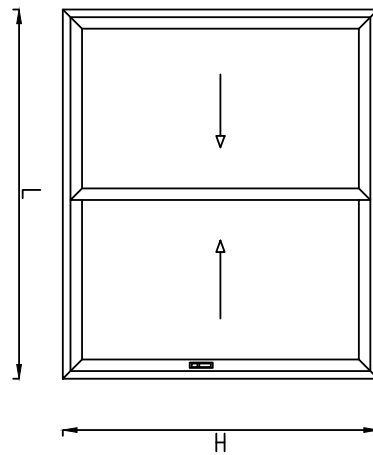
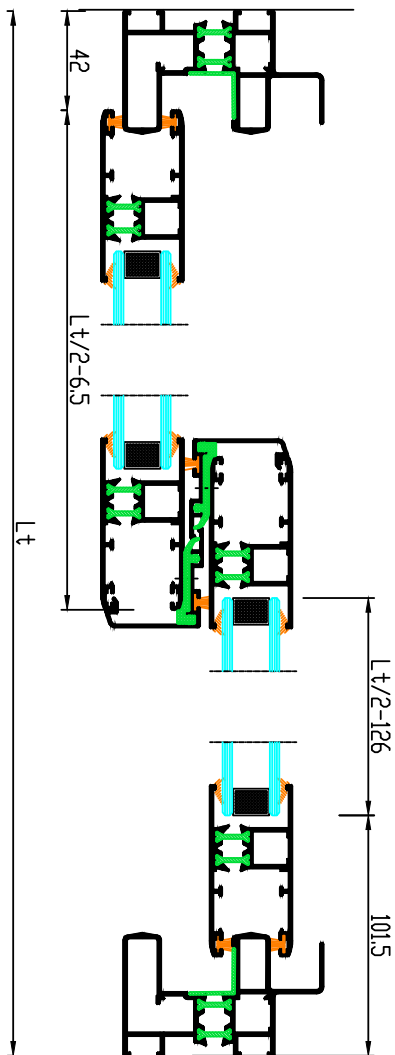
Thermal Two Sash Sliding window with Glazing bead Shutter Assembly



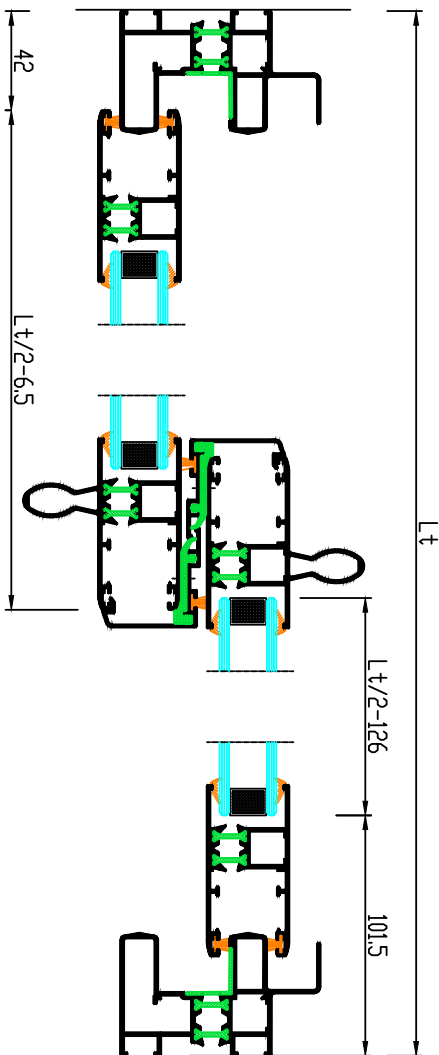
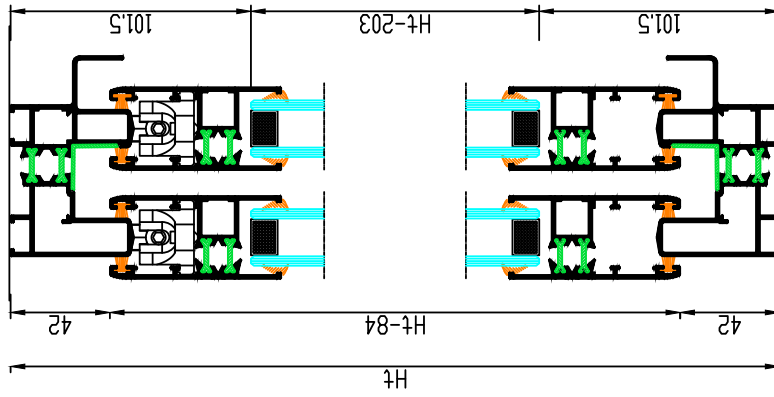


TWO WINGS WINDOW			
CODE	DESCRIPTION	SIZE	Q.TY
9020001	TOP BOTTOM FRAME	Lt	2
9020001	SIDE FRAME	Ht	2
9020304	TOP BOTTOM SHUTTER	Lt/2-6.5	4
9020304	SIDE SHUTTER	Ht-84	4
90207	INTERLOCK	Ht-84	2

ACCESSORIES		
CODE	DESCRIPTION	Q.TY
QXA014	FRAME/SHUTTER CORNER JOINT	16
QXB001	BRUSH	4L+6H
QXP001	PROFILE PLASTIC POLYAMIDE	2L+2H
QXG006	INTERLOCK GASKET	2H
QXG001	INSIDE GLASS GASKET	4L+8H

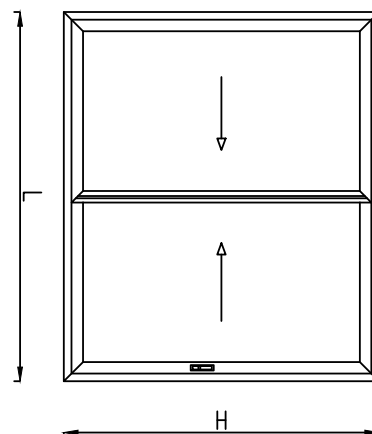


GLASS SIZE
Lt/2-126
Ht-203

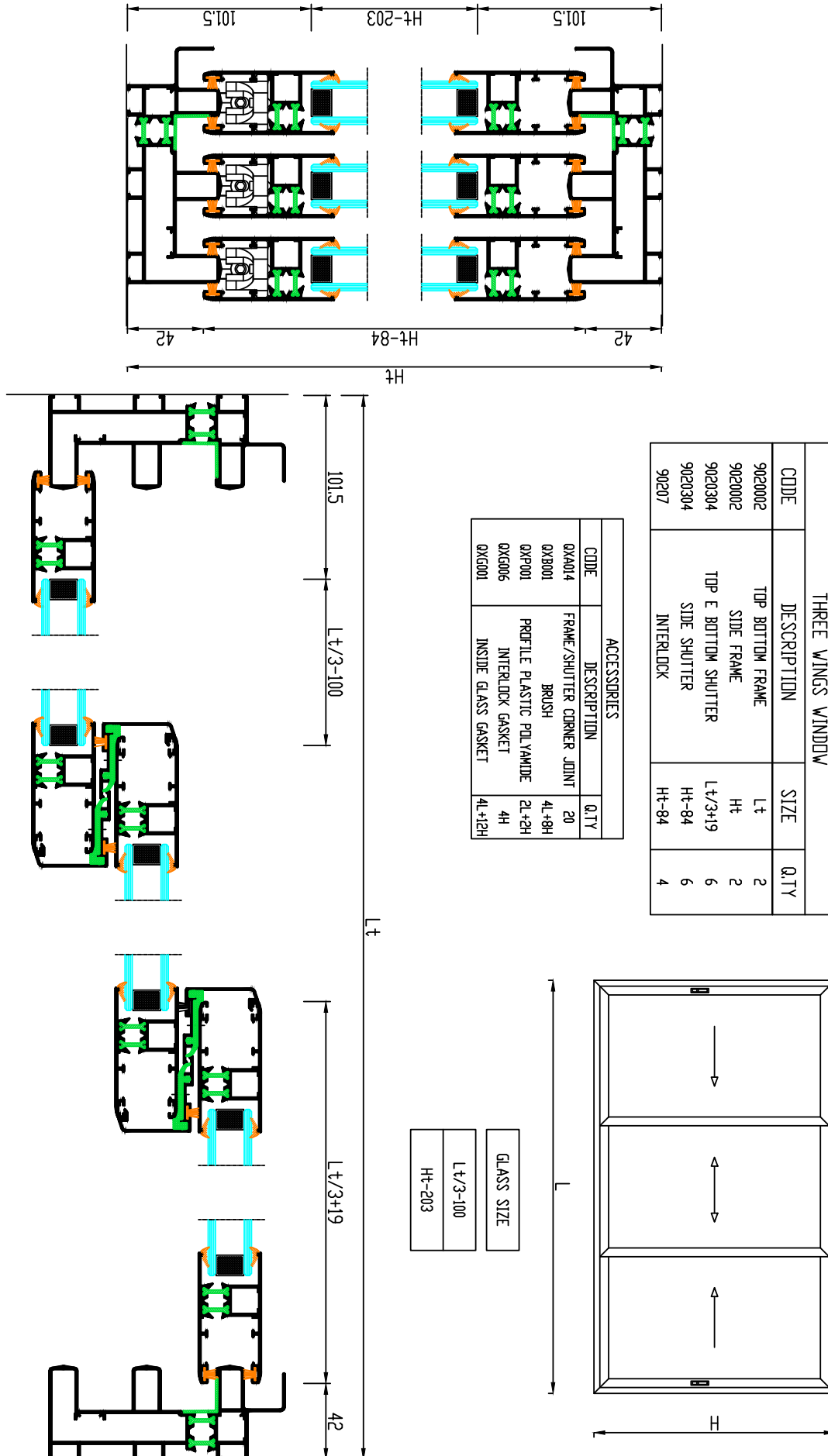


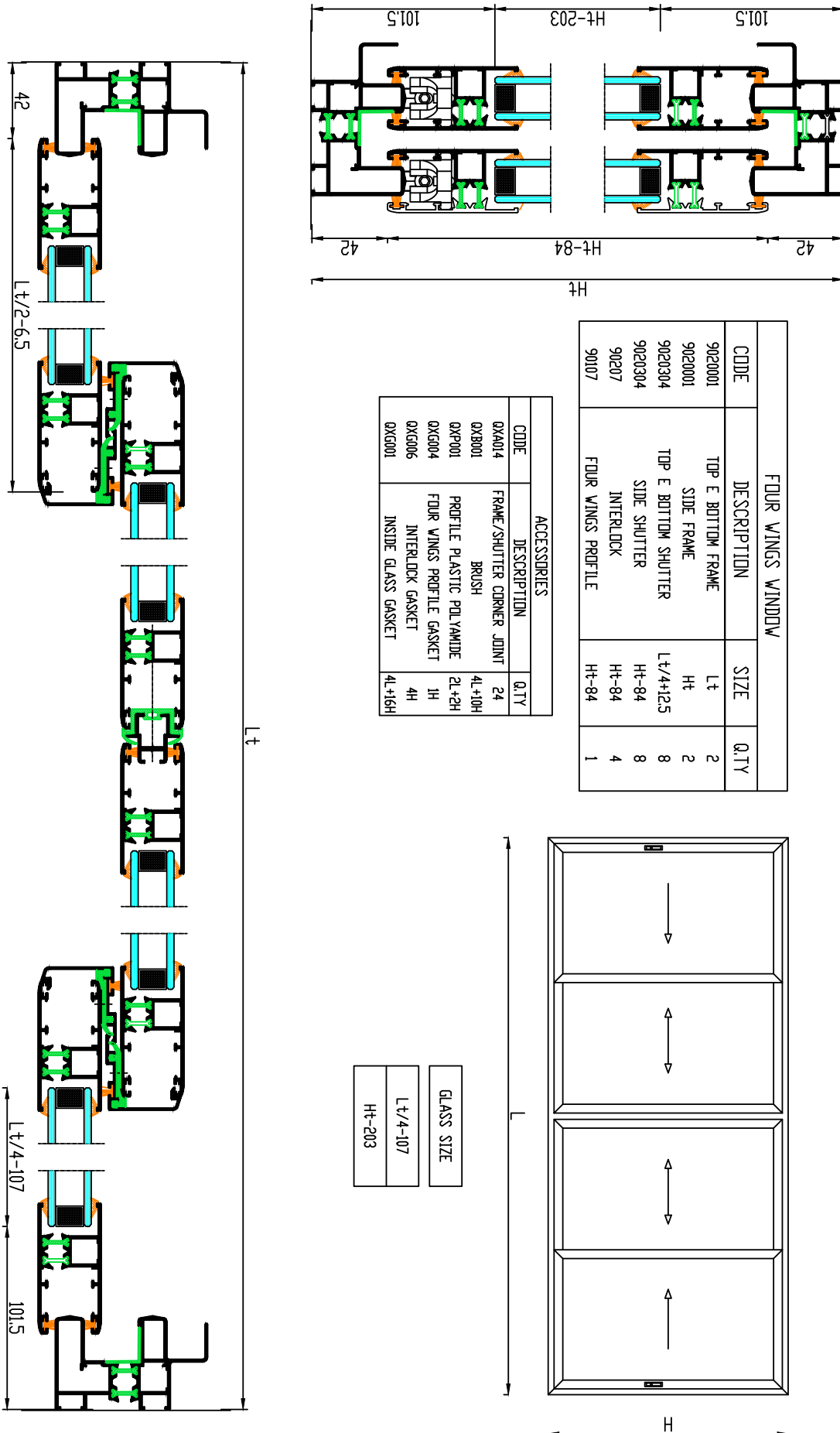
TWO WINGS WINDOW WITH REINFORCED WING			
CODE	DESCRIPTION	SIZE	Q.TY
9020001	TOP BOTTOM FRAME	Lt	2
9020001	SIDE FRAME	Ht	2
9020304	TOP BOTTOM SHUTTER	Lt/2-6.5	4
9020304	SIDE SHUTTER	Ht-84	2
9020405	REINFORCED VERTICAL SHUTTER	Ht-84	2
90207	INTERLOCK	Ht-84	2

ACCESSORIES		
CODE	DESCRIPTION	Q.TY
0XA014	FRAME/SHUTTER CORNER JOINT	16
0XB001	BRUSH	4L+6H
0XA005	PLUG FOR REINFORCED WING	4
0XP001	PROFILE PLASTIC POLYAMIDE	2L+2H
0XG006	INTERLOCK GASKET	2H
0XG001	INSIDE GLASS GASKET	4L+8H



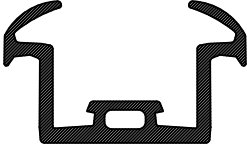
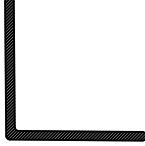
GLASS SIZE
Lt/2-126
Ht-203

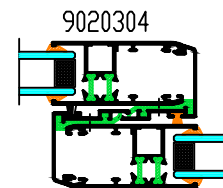
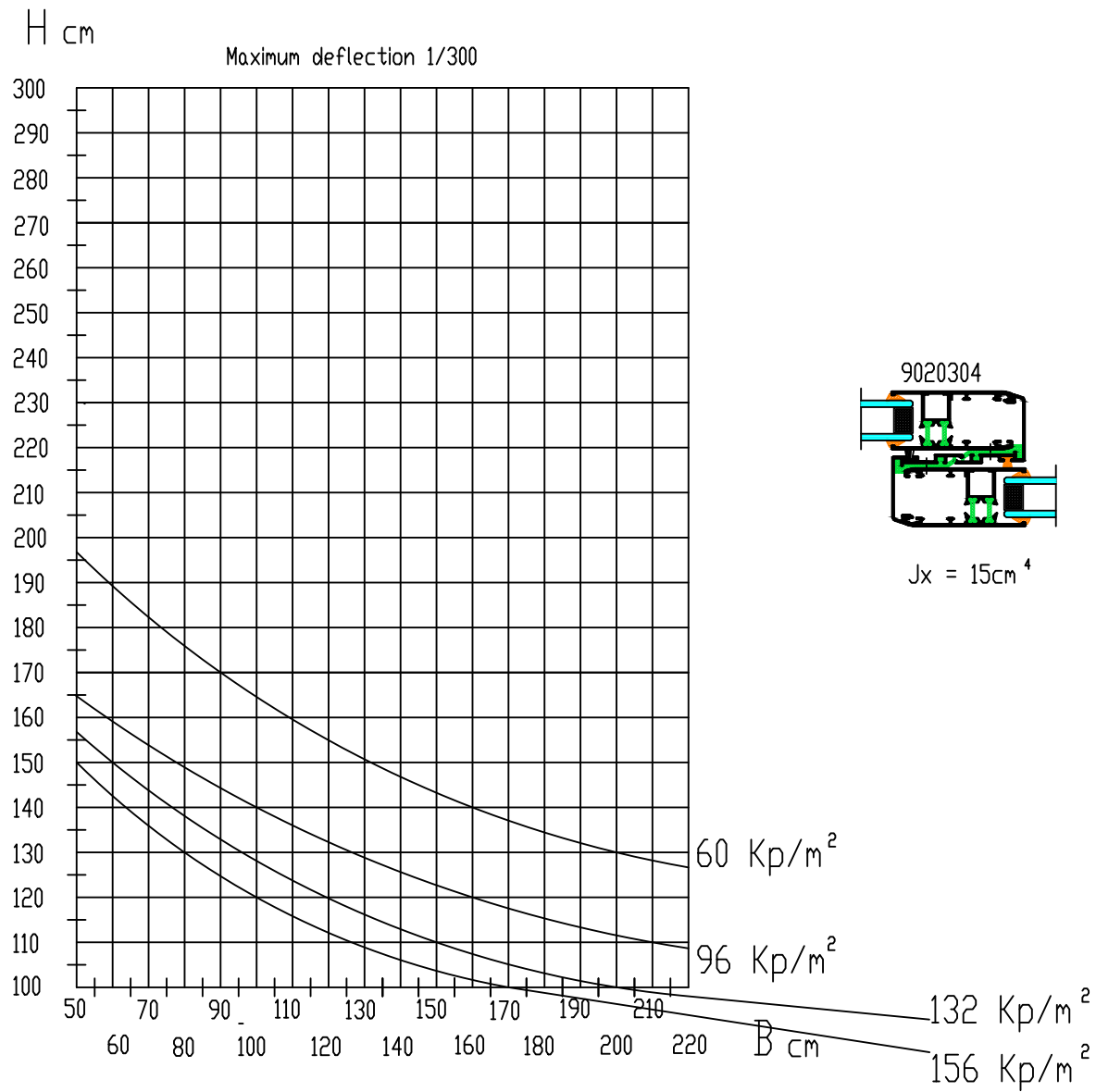




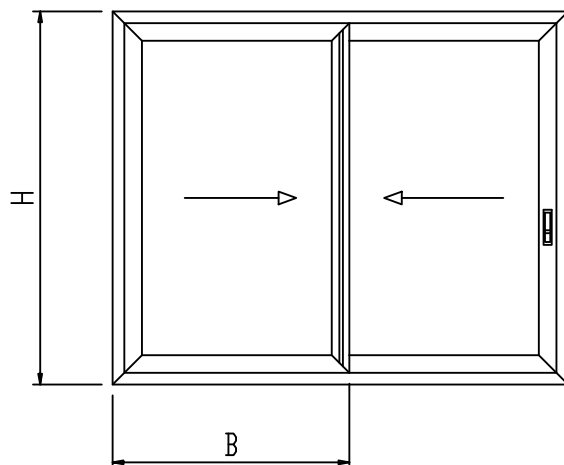


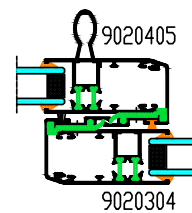
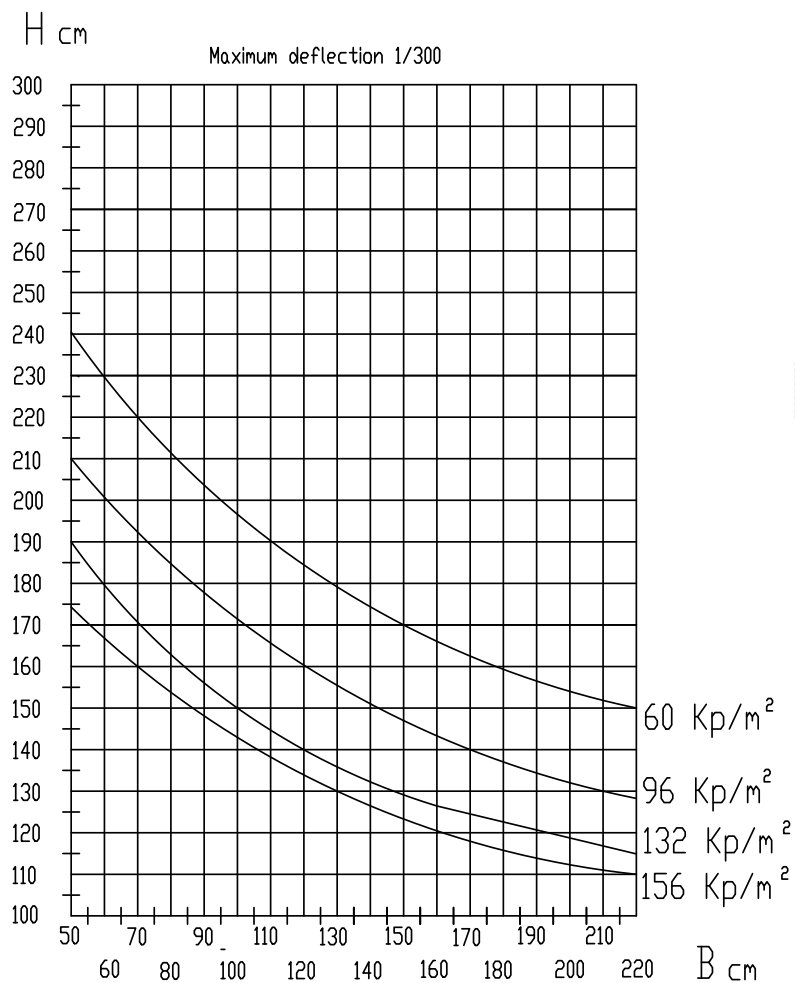
Gasket

DRAWING	DESCRIPTION	CODE	DRAWING	DESCRIPTION	CODE
	Glass gasket	QXG001		U glass gasket for double glass	QXG002
	Brush	QXB001 6,9x7		Interlock gasket	QXG006
	Four wings profile gasket	QXG004		Profile plastic polyamide	QXP001
	Plug for reinforced wing	QXA005			

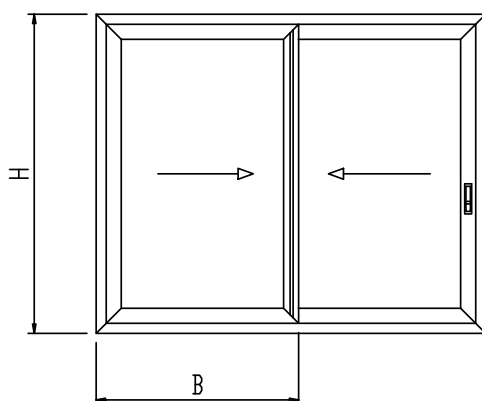


$$J_x = 15\text{cm}^4$$





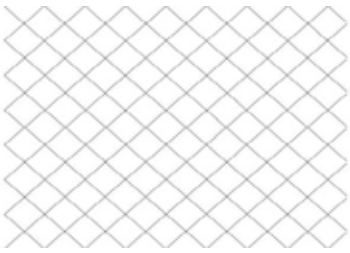
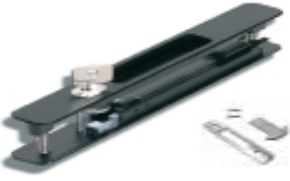
$$J_x = 25\text{cm}^4$$



ACCESSORIES SLIDING WITH SIDEDOOR

code	Item Description	code	Item Description
QXA002	 Corner Joint For Sliding Non Thermal	QXA004	 1-Bearing nylon roller
QXA003	 PENDOLINO TOP Balanced adjustable double Roller	QXA011	 INNER CLICK Fast mounting embedded handle 187x20 with Kit
QXA012	 INNER Embedded handle 187x20 with Kit	QXA006	 Cover Plug
QXA007	 Center Block With Brush & Center Seal	QXA008	 FAST LOCK Fast Mounting Multi-Point closure for sliding units
QXA009	 Closure Kit for Fast Lock	QXA010	 Embedded Handle for Fast Lock



code	Item Description	code	Item Description
QXA013	 Fly Screen Net	QXA014	 Corner Joint for Sliding Thermal
QXA032	 Fly Screen Roller	QXA033	 Drainage plug with valve
QXA036	 INNER Double Embedded Handle with Key (Inside) + Kit	QXA037	 INNER Double Embedded Handle + Kit
QXA038	 MULTICOMFORT Shell Handle with control (for inside)	QXA039	 MULTICOMFORT Lock Body

