

TECHNICAL CATALOGUE

SLIDING SYSTEM FOR WINDOWS AND DOORS WITH THERMAL BREAK





E3000

SLIDING SYSTEM FOR WINDOWS AND DOORS WITH THERMAL BREAK

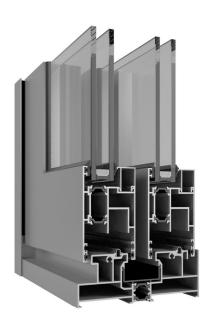


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ETEM HISTORY

ETEM is a leading aluminium extrusion company. It was founded in 1971 as a part of the largest metal manufacturing holding in the Balkans. With over 40 years of experience ETEM is a fully integrated designer and producer of architectural systems and aluminium profiles for industrial applications.

Our mission is to listen and promptly respond to our customers' requests and design and manufacture aluminium products and systems taking into consideration technical and aesthetic requirements.

ETEM focuses on sustainable development and has proven its concern about the protection of the natural environment by making considerable investments in anti-pollution measures and by optimi ing production processes following the applicable standards of the European Union.

SERVICES WE PROVIDE

ETEM supports you with the following:

□ design of conventional and bespoke architectural system solutions

 innovative engineering in the field of curtain walls, ventilated facades, doors, windows

> professional consultation and adequate technical advices ensured by our engineering team with wide experience in the field of profile extrusion as well as architectural systems' engineering ▷ reliable customer care constant support trainings technical support and audits on site

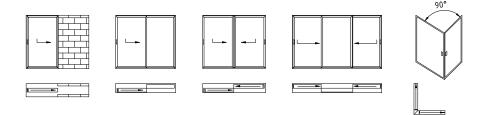
▷ high quality engineering which guarantees offering the best solution according to the specific features of every single project

 □ managing the process of certification in accordance with the applicable European standards in Notified Bodies

 □ production of non-standard length profiles and non-standard processing high quality powder coating

TABLES

TYPOLOGIES / LIST OF PROFILES / CHARACTERISTICS



E3000 sliding system with thermal break weight weight lenght lenght code code profile profile moment of inertia moment of inertia special condition special condition 3384 g/m 635.6 g/m L=6.01 m L=6.01 m E3010 E3012 |x=35.24 cm⁴ Ix=6.58 cm⁴ ly=233.79 cm4 ly=25.18 cm⁴ special condition 4835 g/m L=6.01 m 2260 g/m L=6.01 m 72.4 E3003 E5388 Ix=146.47 cm⁴ Iy=188.83 cm⁴ |x=7.04 cm4 ly=179.85 cm⁴ special condition 5443 g/m L=6.01 m 2226 g/m L=6.01 m 72.4 E5387 E54200 |x=41.83 cm⁴ Ix=171.79 cm⁴ y=40.89 cm⁴ ly=298.33 cm⁴ RG KG special condition special condition 375.6 g/m L=6.01 m 2467 g/m L=6.01 m E5313 E54550 |x=0.16 cm4 Ix=62.8 cm4 ly=4.72 cm4 ly=39.4 cm⁴ special condition 748 g/m L=6.01 m 254 g/m L=6.01 m E5396 E54555 |x=21.04 cm⁴ ly=10.39 cm4 special condition 597 g/m L=6.01 m 1917.4 g/m L=6.01 m E3011 E70640 1x=6.31 cm4

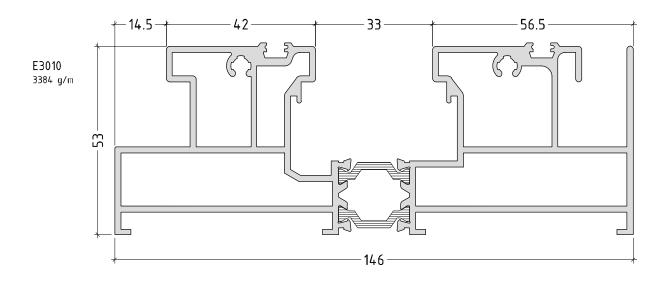
ly=38.3 cm⁴

special condition

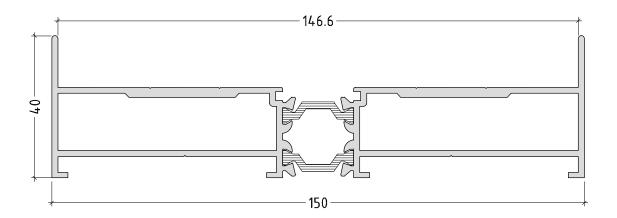
E3000 sliding system with thermal break weight lenght moment of inertia special condition weight lenght moment of inertia special condition code profile code profile 130 g/m L=6.01 m E19641 857 g/m L=6.01 m E22214 |x=16.3 cm⁴ |y=2.7 cm⁴ 590 g/m L=6.01 m E22215 |x=6.93 cm⁴ |y=0.93 cm⁴

PROFILES

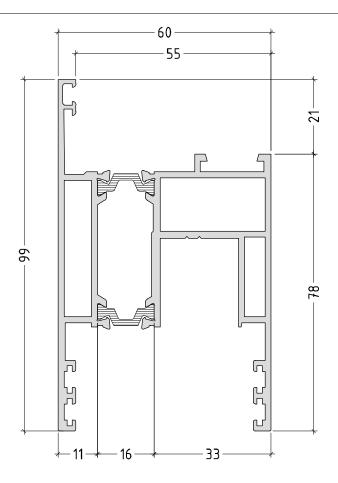
DRAWINGS / SCALE 1:1



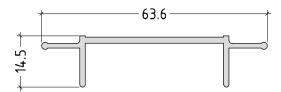
E3003 2260 g/m

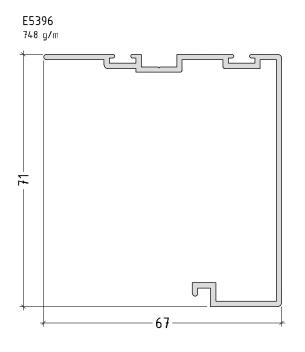


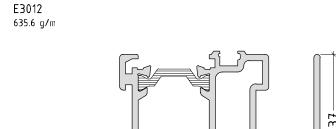
E54200 2226 g/m



E5313 375.6 g/m

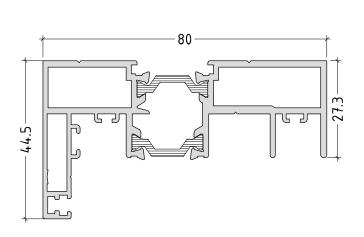


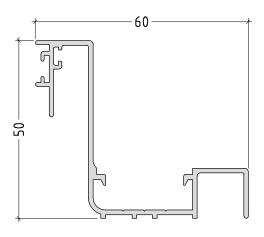




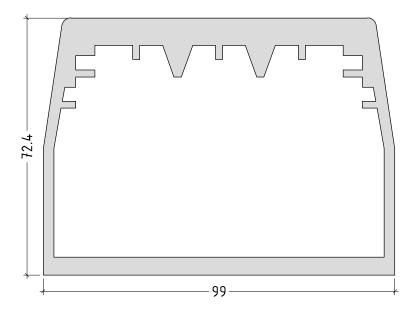
80

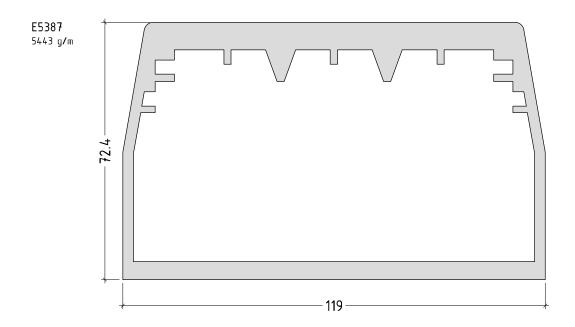
E3011 1917.4 g/m E70640 597 g/m

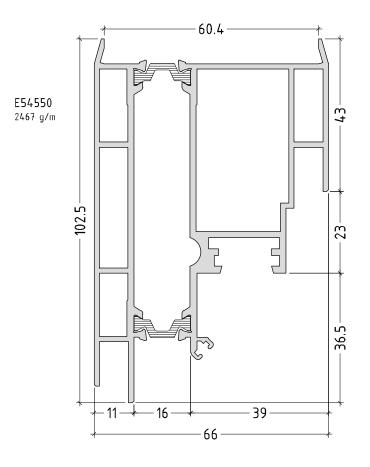


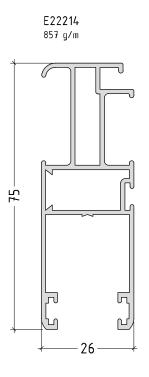


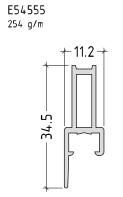
E5388 4835 g/m

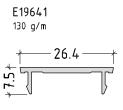


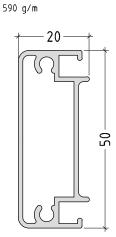






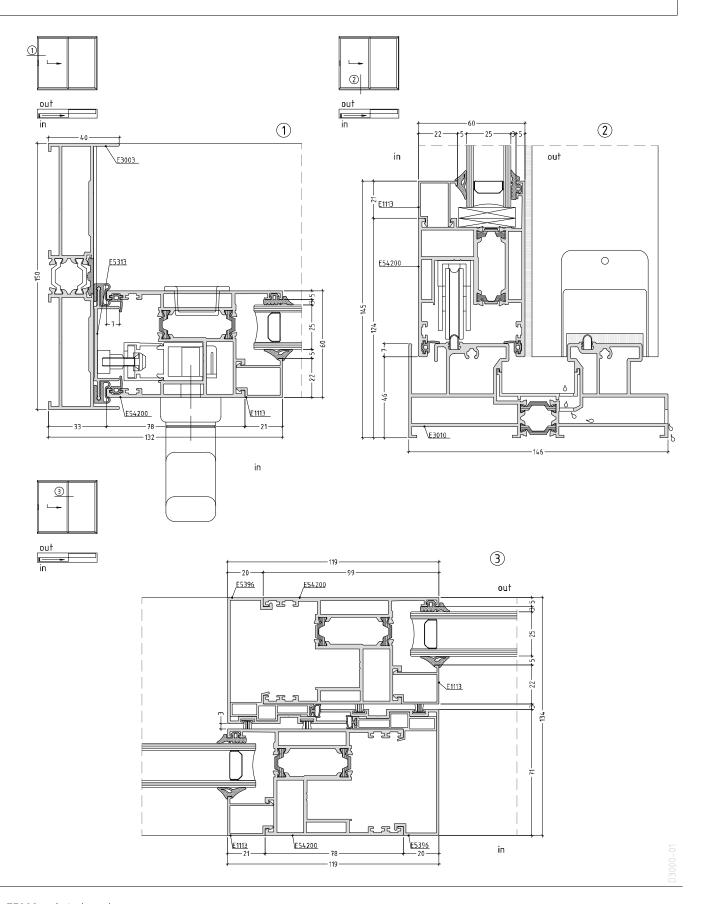




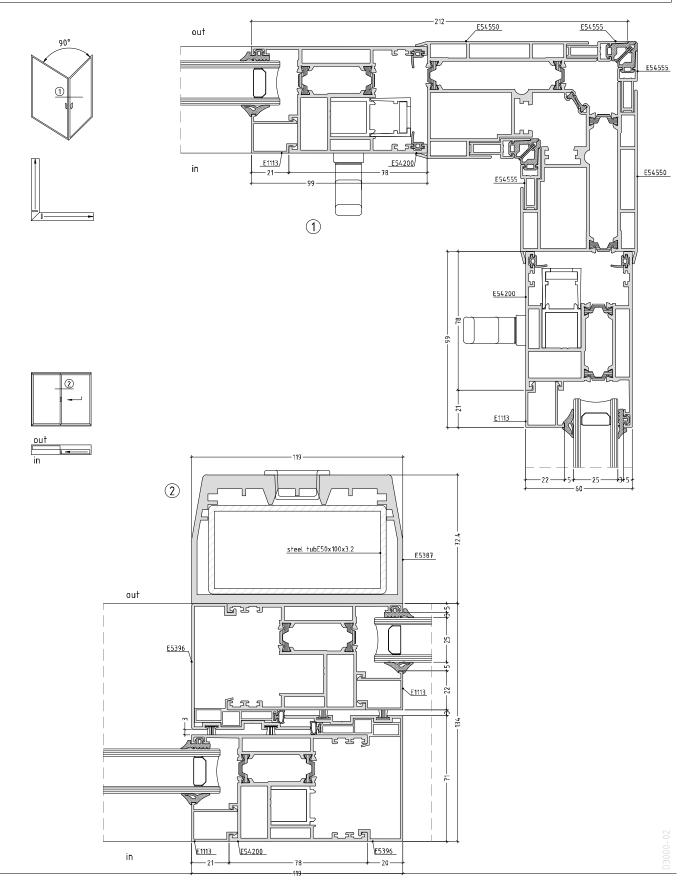


SECTIONS

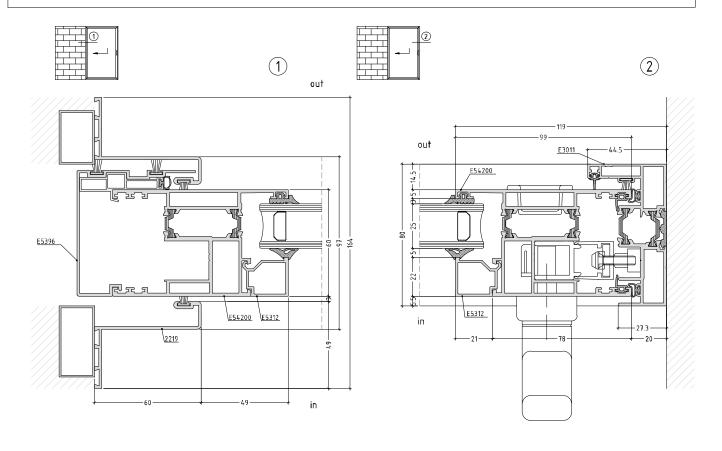
SECTIONS / DETAILS



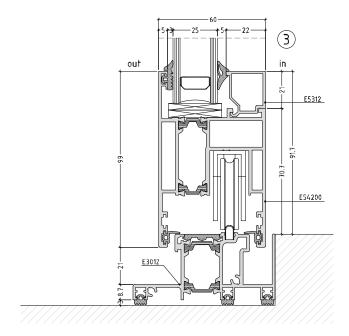
sliding system with thermal break

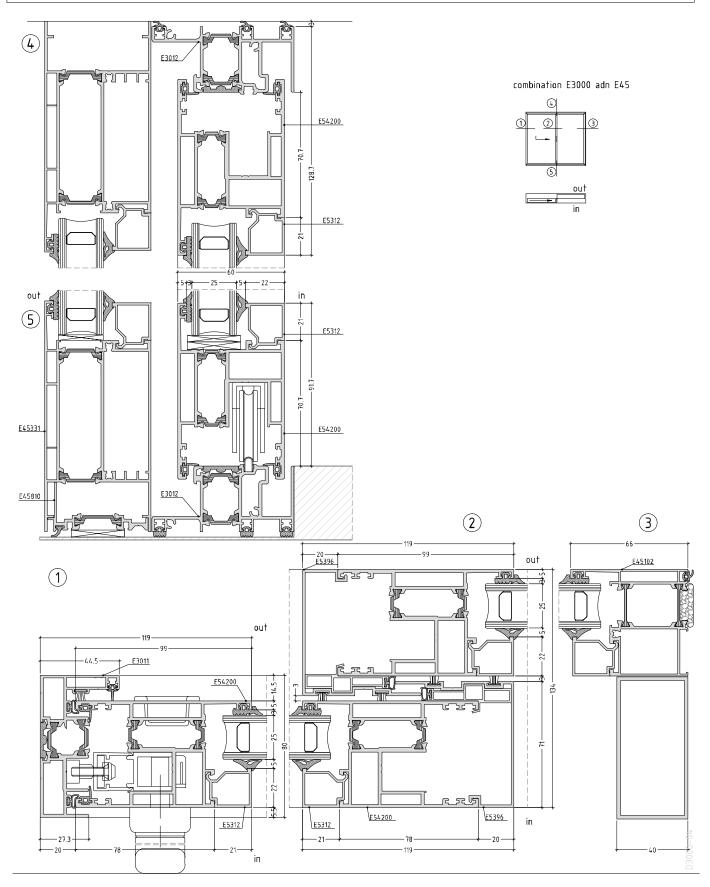


sliding system with thermal break









GLAZING OPTIONS

SECTIONS / DETAILS

sliding system with thermal break

| external | | INTE | RNAL GASI | | ING OPTIO | NS | GLAZING BEAD | ıs | |
|------------------|----------------|----------------|----------------|----------------|-----------------|------------------|-------------------|-------|-------|
| gaskets | O? | 5 - 6 mm | | 7 – 8 mm | | | 55 t | | |
| 3 mm 130411 | Ø | 130176 | 97 | 130177 | | | | | |
| ¶ 130402 | 5 mm 990619 | 6 mm 130207 | 7 mm 130207 | 8 mm 130208 | 10 mm 994412 | | | | |
| | | | | | | | | | |
| 4 mm 4 130153 | u | - | X mm | | | 1 | 2 | | 3 |
| 130411 130402 | 40 | 39 | 38 | 37 | 35 | † 7 † | †71 | | |
| 130153 | 39 | 38 | 37 | 36 | 34 | E1144 | E1114 | | |
| 130411 130402 | 37 | 36 | 35 | 34 | 32 | | †10- | | ±10+ |
| 130153 | 36 | 35 | 34 | 33 | 31 | | E60110 | E1130 | |
| 130411 130402 | 33 | 32 | 31 | 30 | 28 | -14 - | | | |
| 130153 | 32 | 31 | 30 | 29 | 27 | E5324 | | | |
| 130411 130402 | 30 | 29 | 28 | 27 | 25 | | 17- | | |
| 130153 | 29 | 28 | 27 | 26 | 24 | | E5311 | | |
| 130411 130402 | 28 | 27 | 26 | 25 | 23 | †-18.5 † | - 18.5 | | 18.5 |
| 130153 | 27 | 26 | 25 | 24 | 22 | E5304 4 | E5314 | E5394 | |
| 130411 130402 | 25 | 24 | 23 | 22 | 20 | 22 | 22 | | |
| 130153 | 24 | 23 | 22 | 21 | 19 | E1113 | E5312 | | |
| 130411 130402 | 22 | 21 | 20 | 19 | 17 | 25 | 25 | | 25 |
| 130153 | 21 | 20 | 19 | 18 | 16 | E5307 | E5316 | E5308 | |
| 130411 130402 | 20 | 19 | 18 | 17 | 1 5 | | 27 | | |
| 130153 | 19 | 18 | 17 | 16 | 14 | | E5325 | | |
| 130411 130402 | 18 | 17 | 16 | 1 5 | 13 | 28.5 | | | |
| 130153 | 17 | 16 | 15 | 14 | 12 | E5397 | | | |
| 130411 130402 | 16 | 15 | 14 | 13 | 11 | 30.5 | | ţ | 30.5 |
| 130153 | 15 | 14 | 13 | 12 | 10 | E5380 | | E5393 | |
| 130411 130402 | 15 | 14 | 13 | 12 | 10 | 32 | | | - |
| 130153 | 14 | 13 | 12 | 11 | 9 | E60132 | | | |
| 130411 130402 | 12 | 11 | 10 | 9 | 7 | 34.5 | | F | -34.5 |
| 130153 | 11 | 10 | 9 | 8 | 6 | E5305 | | E5309 | |

Note:

TolerancEin dimension chain $\pm 0.5 \text{mm}$

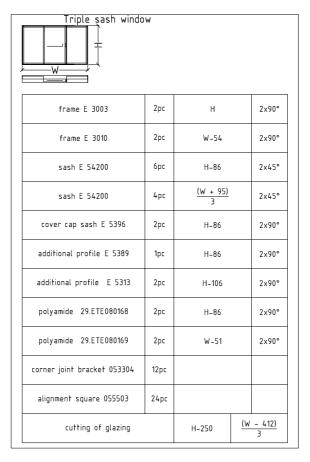
MACHINING

SECTIONS / DETAILS

sliding system with thermal break

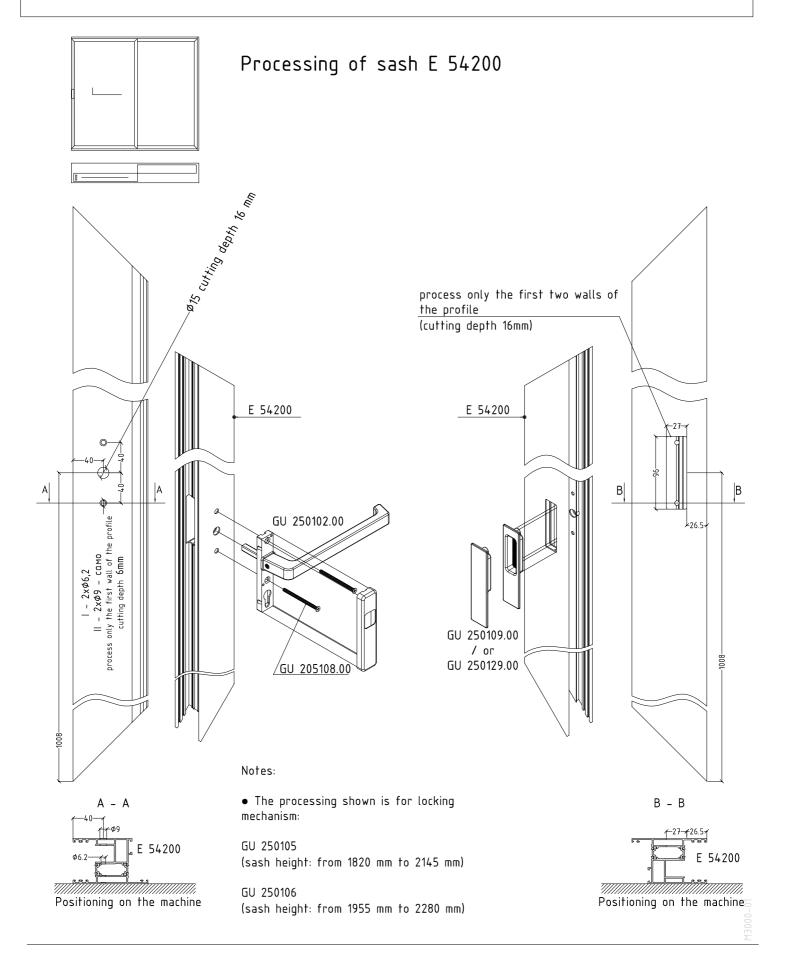
E 3000

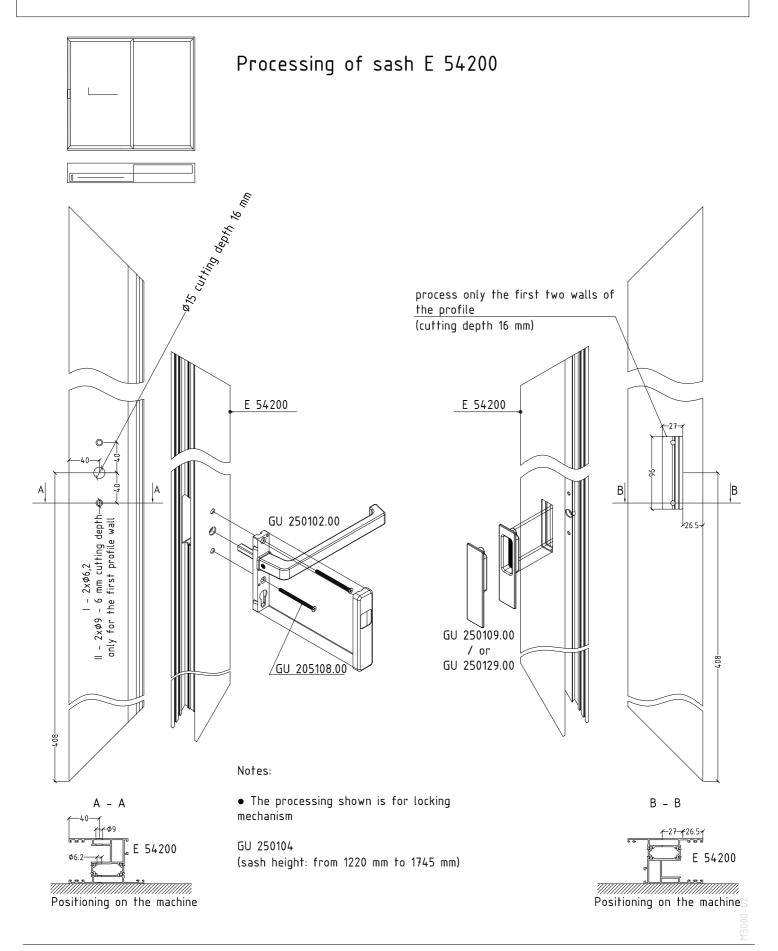
| Double sash window | | | | |
|-----------------------------|------|---------------|----------------|-------|
| frame E 3003 | 2рс | Н | | 2×90° |
| frame E 3010 | 2рс | W-54 | 2×90° | |
| sash E 54200 | 4рс | H-86 | | 2×45° |
| sash E 54200 | 4рс | (W + 13) 2 | | 2×45° |
| cover cap sash E 5396 | 2рс | H-86 | | 2×90° |
| additional profile E 5313 | 2рс | H-106 | | 2×90° |
| polyamide 29.ETE080168 | 2рс | H-86 | | 2x90° |
| polyamide 29.ETE080169 | 2рс | W-51 | | 2x90° |
| corner joint bracket 053304 | 8рс | | | |
| alignment square 055503 | 16рс | | | |
| cutting of glazing | | H-250 | (W - 320) 2 | |



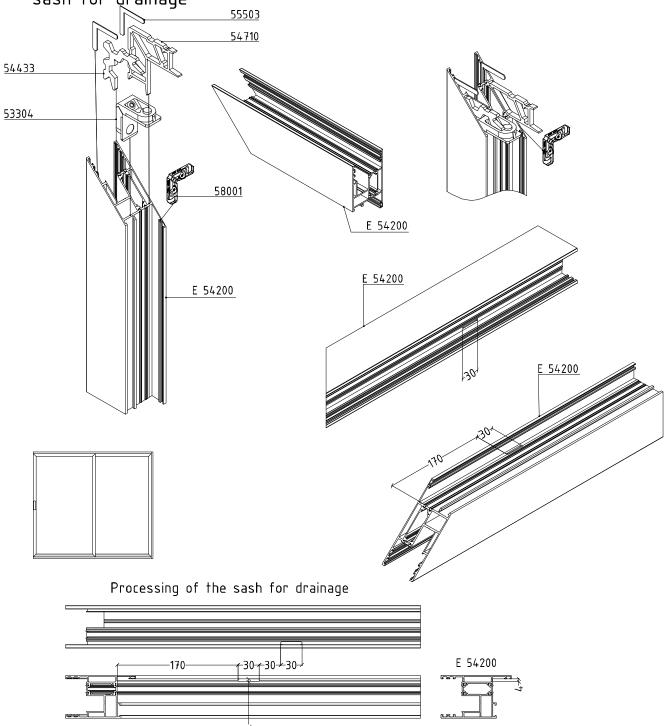
Notes:

Accessory 240702 is prescribed according to the type of opening scheme used.



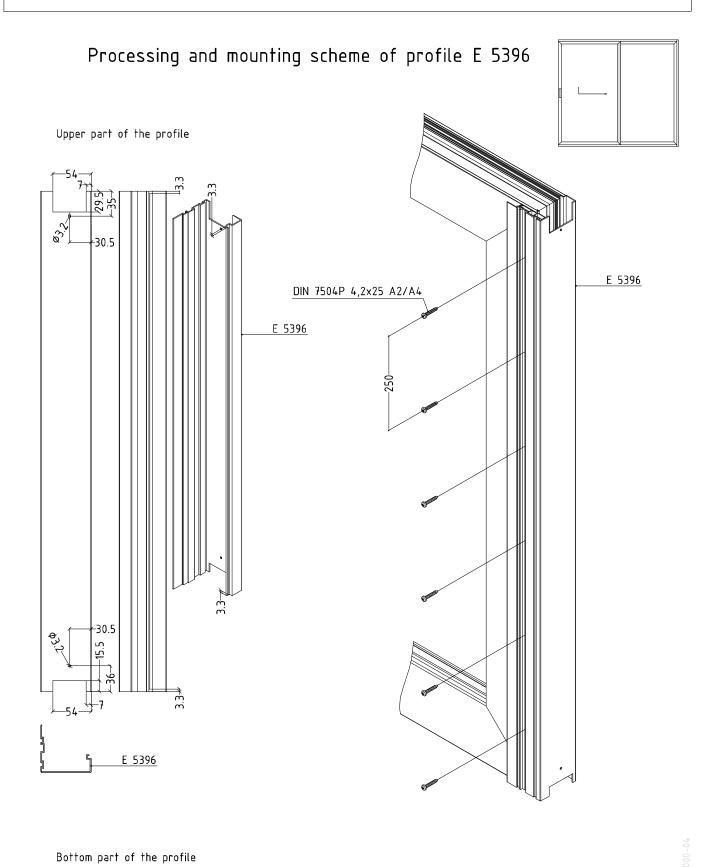


Scheme for placing the corner joint brackets and processing of the sash for drainage

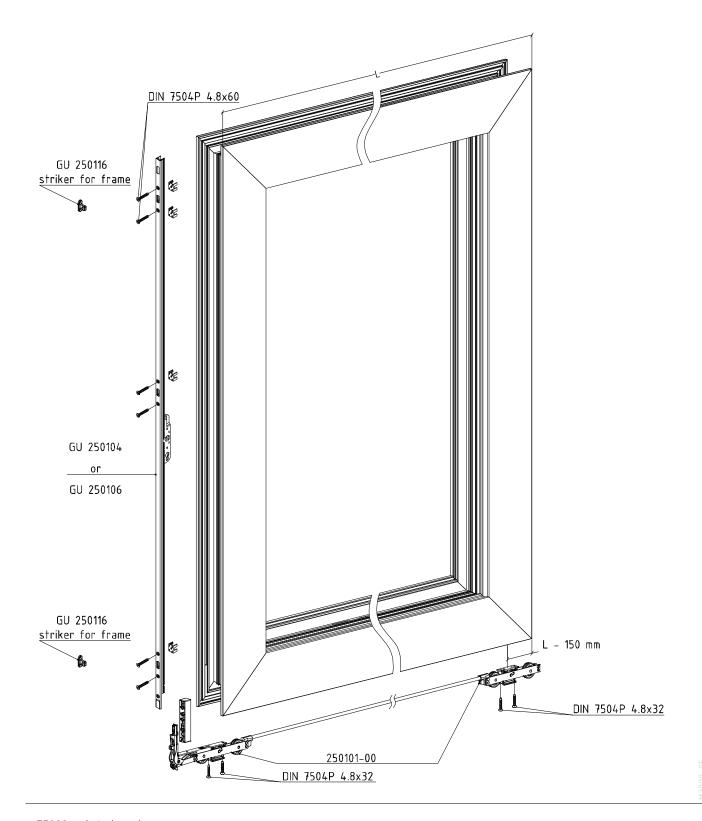


Notes:

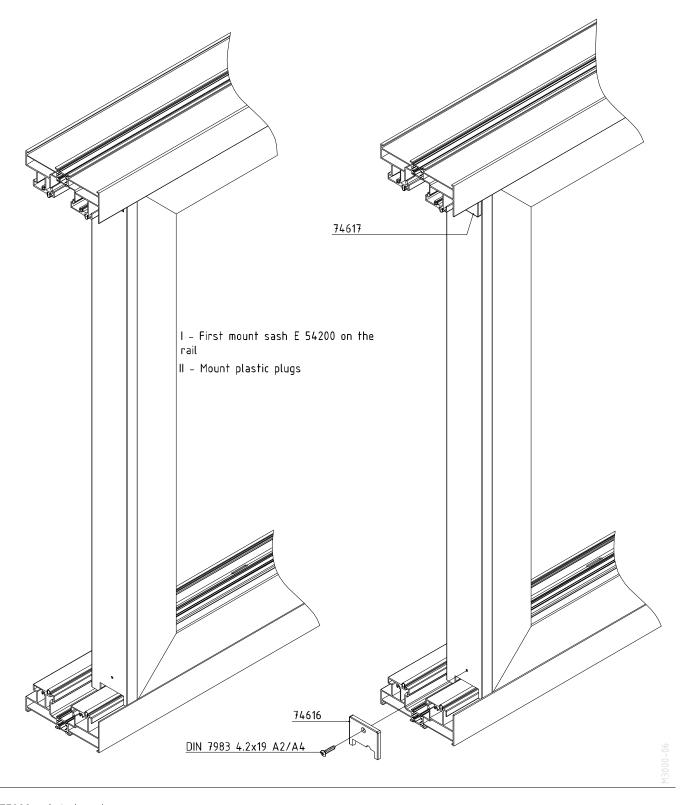
- The openings have to be made as per the scheme above
- Observe the distances shown when making the drainage openings

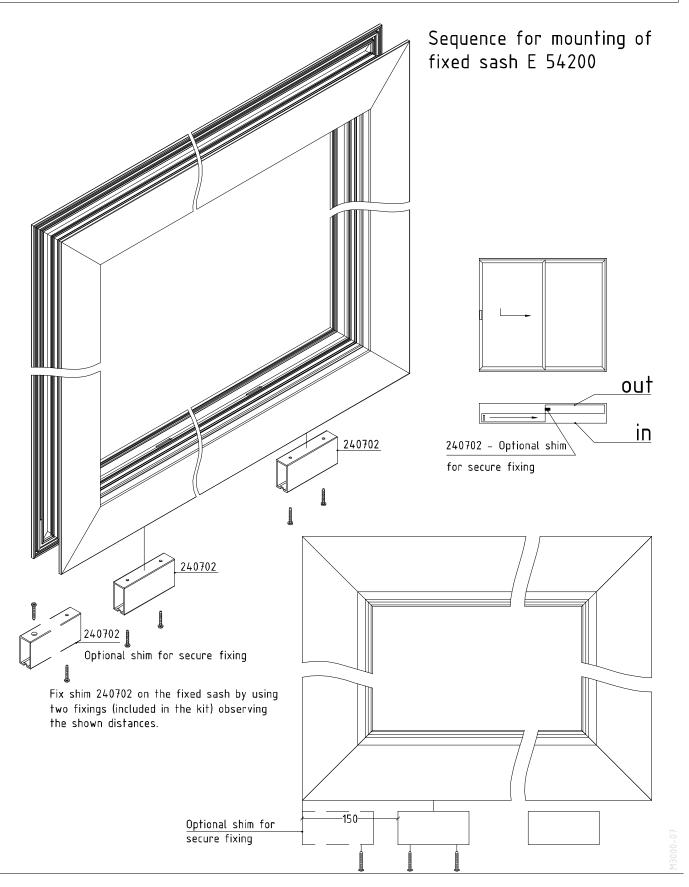


Hardware mounting scheme

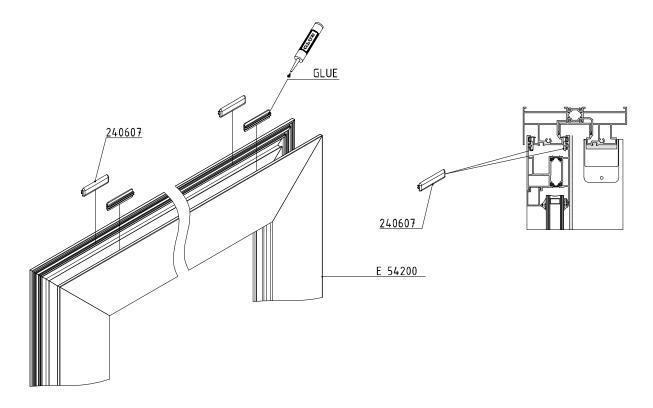


Sequence for mounting of sash E 54200 and plastic plugs

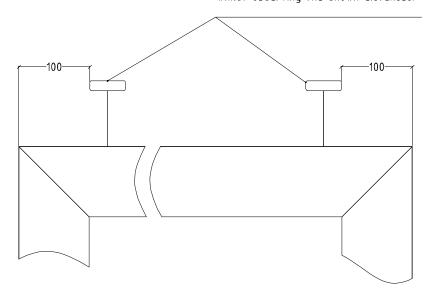




Mounting scheme of anti-vibration buffers 240607



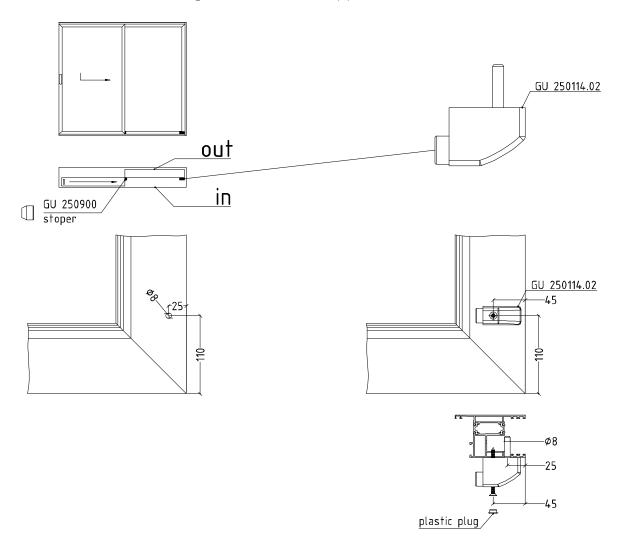
Mount 4 pieces per sash from buffer 240607 whilst observing the shown distances.



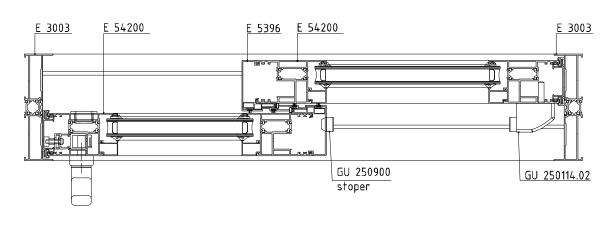
Notes:

• Mount anti-vibration buffers 240607 on every sash.

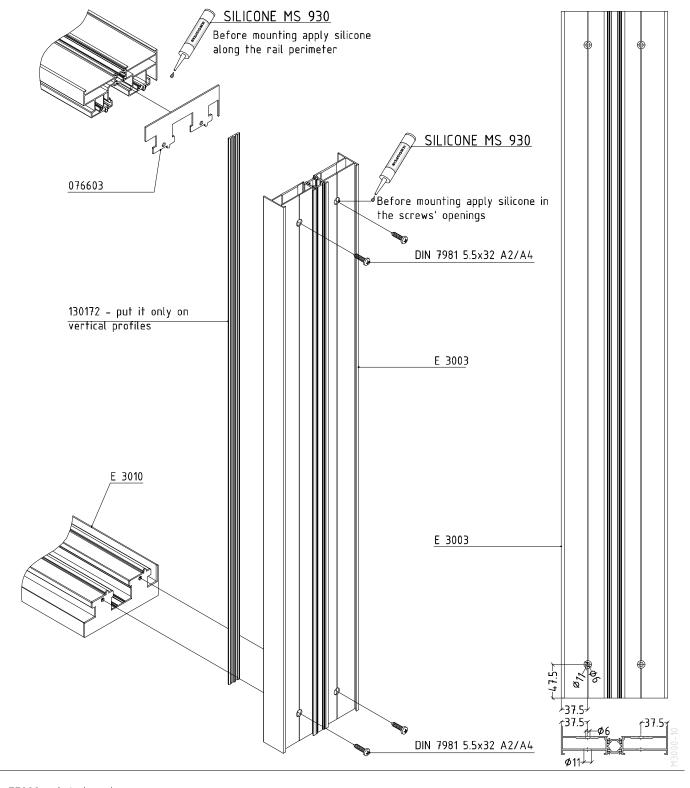
Mounting scheme of stopper GU 250114.02



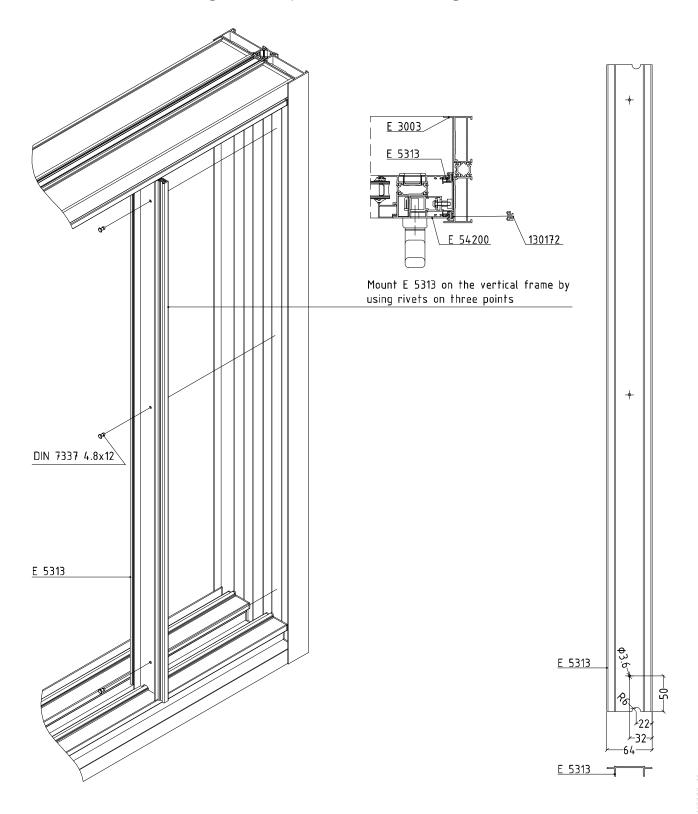
Mount stopper GU 250114.02 on the inner side of the outer sash

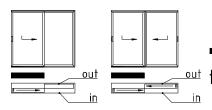


Sequence for mounting of frame

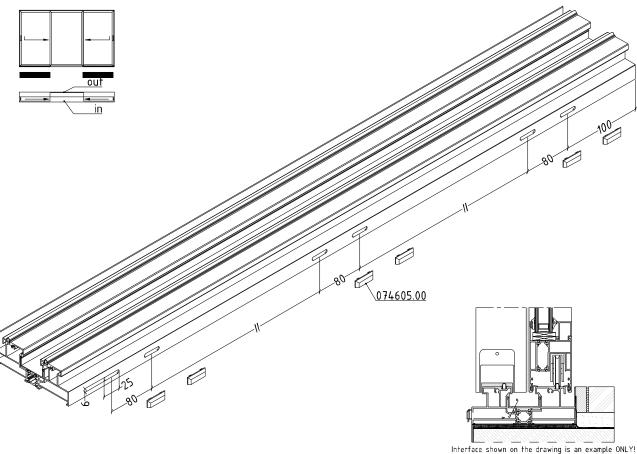


Processing and sequence for mounting of E 5313

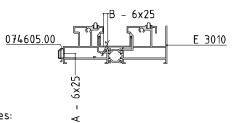


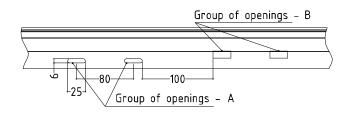


Processing and schemes for drainage of frame
- Process only at the pointed place (on the outside part of the inner sash)



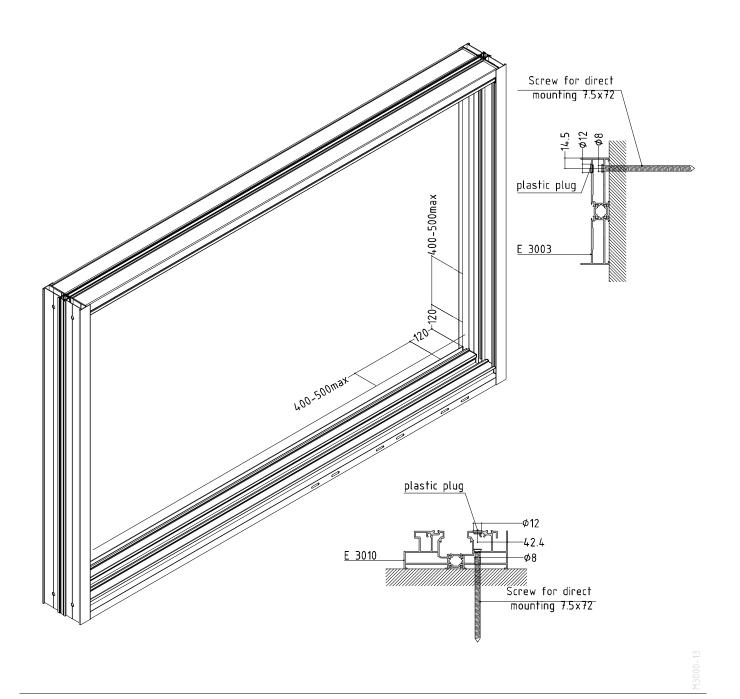
Interface shown on the drawing is an example ONLY! Connection between backing wall and frame is specific for each single project. It is obligatory to observe different projects' features. All final decisions about materials used, interface finishing, etc. should be approved by the structural / facade engineer responsible for the specific project.



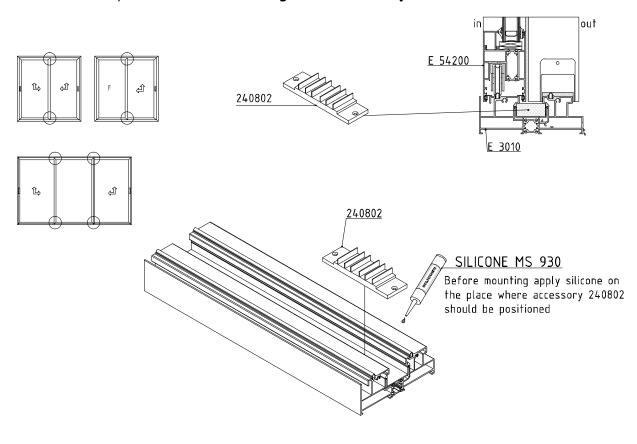


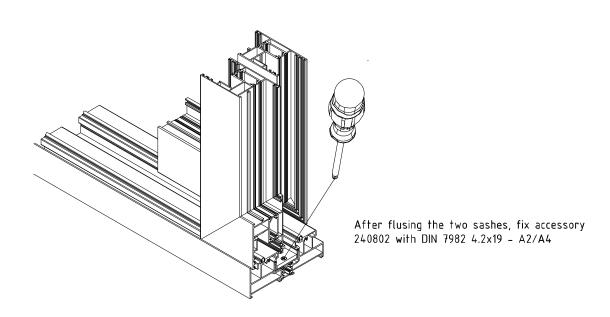
- The idicated processing for drainage concerns only the bottom rail
- The indicated processing concerns only the outside part of the inner sash, which is on the second rail (inner side)
- The drainage openings A and B should be made as per the scheme above

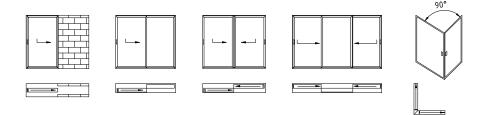
Mounting of frame onto the backing wall

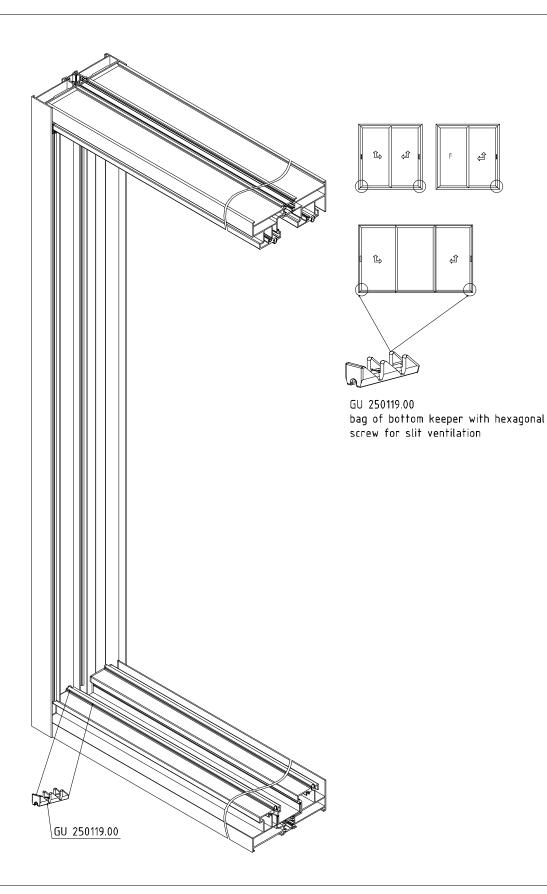


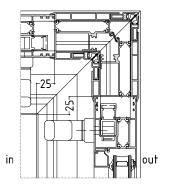
Sequence for mounting of accessory 240802



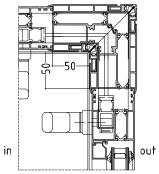






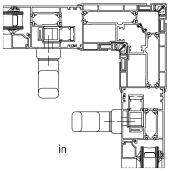


moving sash at outer track we always measure from the inner face of rail

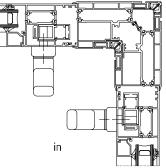


moving sash at inner track we always measure from the inner face of rail

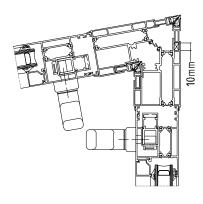
out



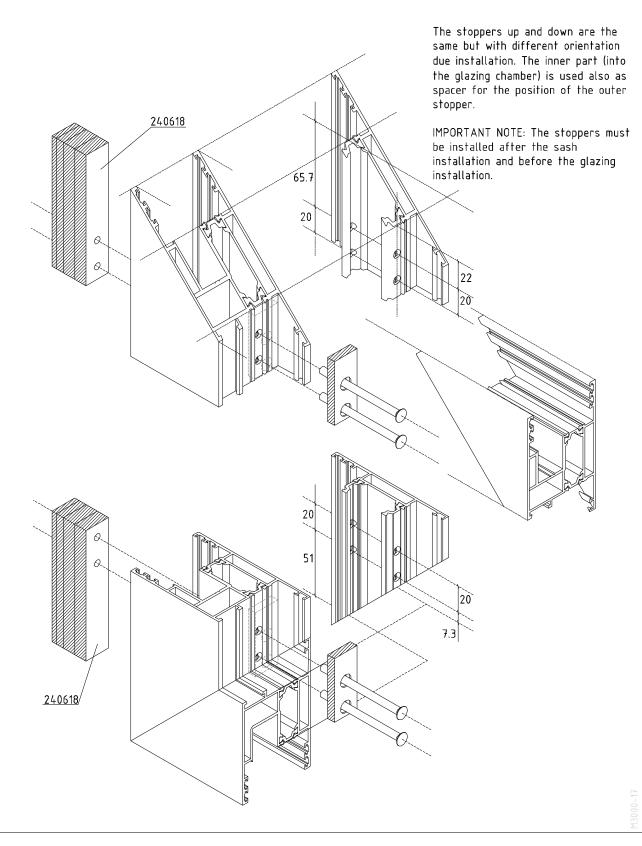
typical construction 45°



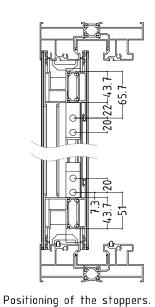
max construction 45° + 5°

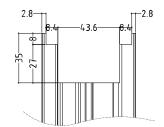


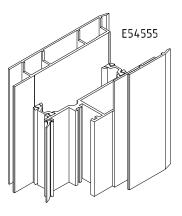
min construction 45° - 5°



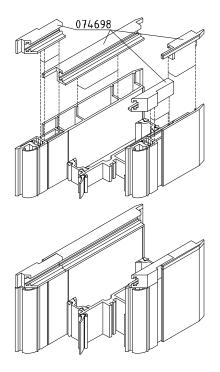
E 3000



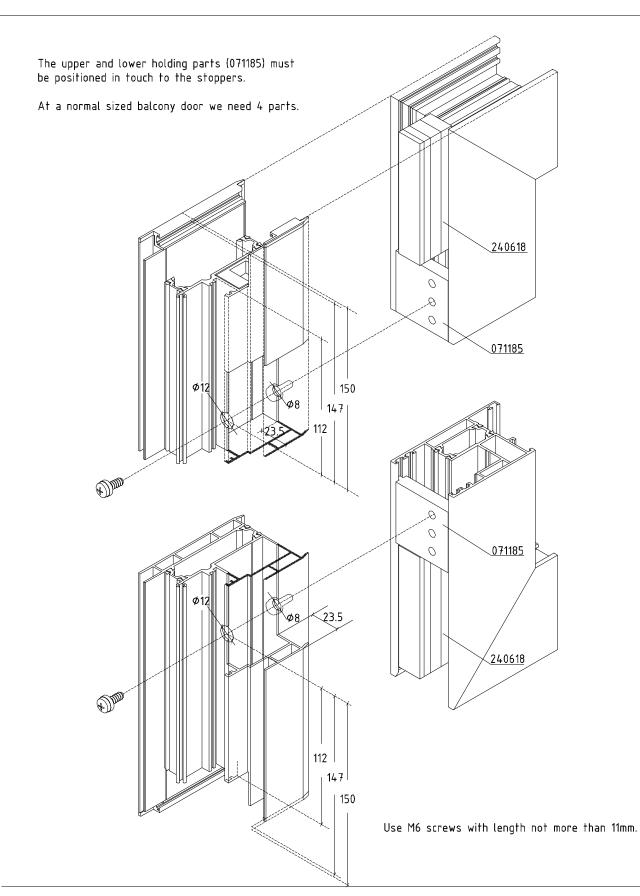


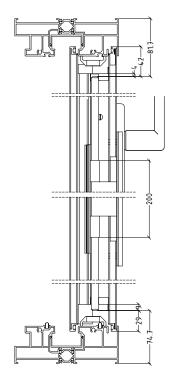


The machining is the same for the upper and lower part. The additional profile E54550 must be 6mm less than the sash and the E54555 22mm less than the sash.



At every edge we put 4 PVC cups. There are 2 pairs of 8 different cups (4 mirrored).
As a result the left upper is symmetric to the right lower and vice versa.

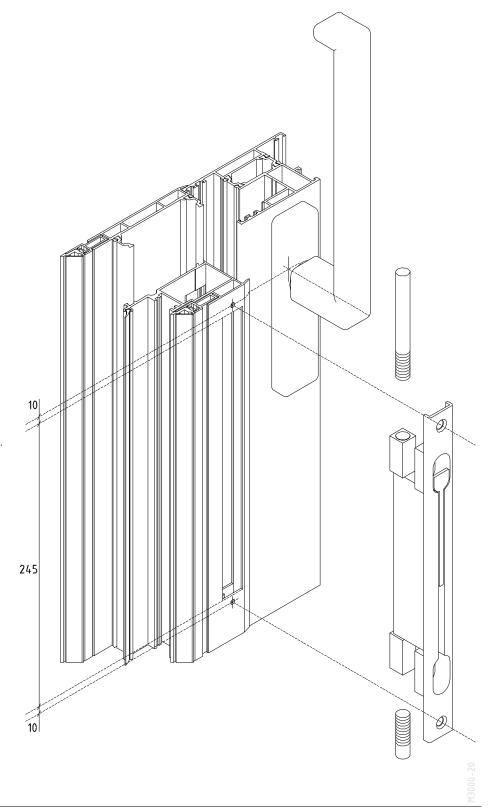


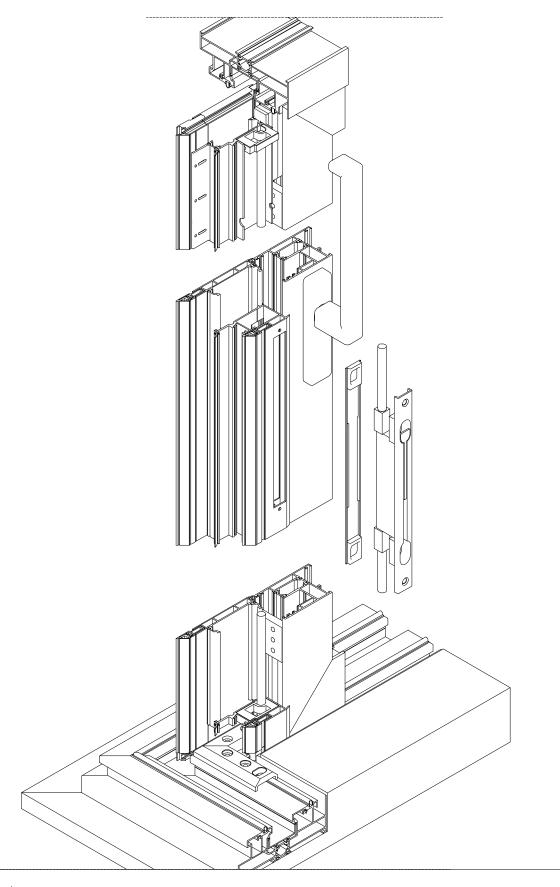


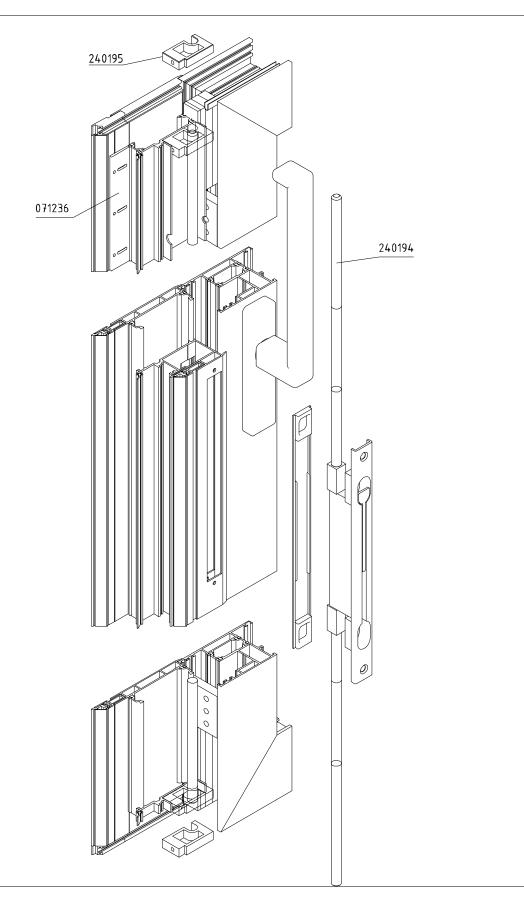
Dimension of the moving rod.

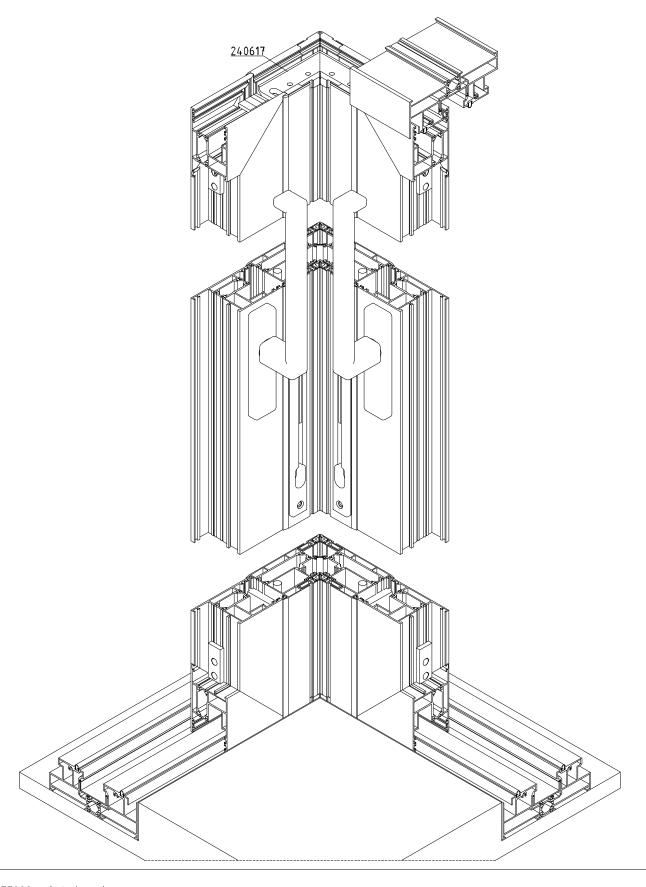
IMPORTANT NOTE:

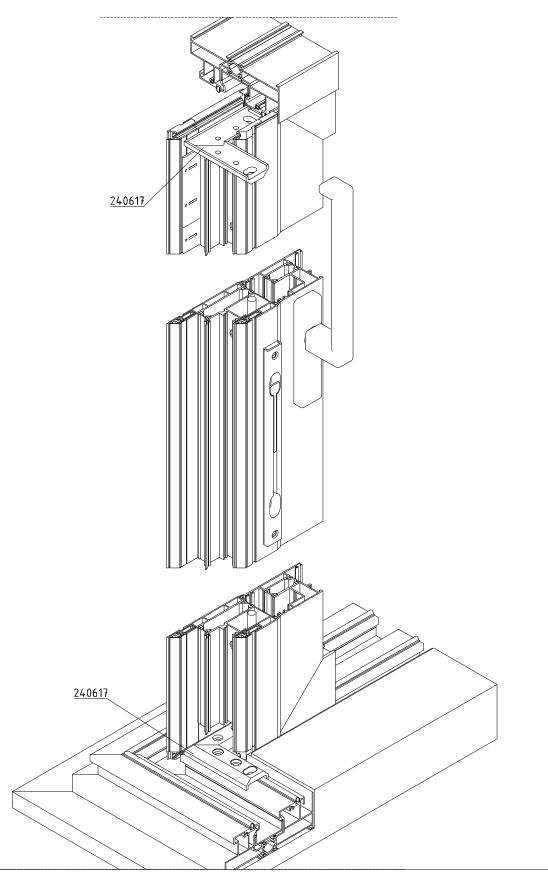
The rod size must be calculated with the locker at position "open".











ACCESSORIES

SECTIONS / DETAILS

PRODUCTS AND SUSTAINABLE DEVELOPMENT

SUSTAINABLE DEVELOPMENT IS DEVELOPMENT THAT MEETS THE NEEDS OF THE PRESENT WITHOUT COMPROMISING THE ABILITY OF FUTURE GENERATIONS TO MEET THEIR OWN NEEDS.*

For many sustainable development is about environmental conservation. This is true but it also includes two other aspects: a social aspect and an economic aspect.

Sustainable development means striking the right balance between economic development social equity and environmental protection.

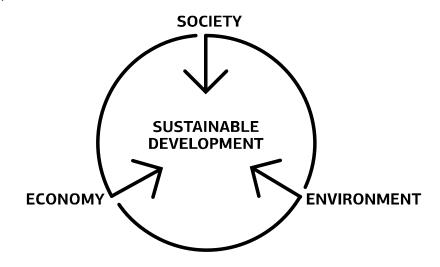
For us meeting this objective translates into the challenge of satisfying mar et demands at the lowest economic social and environmental cost possible.

ETEM has always designed architectural systems which are in compliance with all requirements for achieving high energy efficiency.

In order to assure the comfort of the building inhabitants ETEM systems adapt their functions to the changing environment.

As a moderator between outside and inside our systems provide:

- ► ENERGY EFFICIENCY
- ▶ DAYLIGHT
- ► SUN-SHADING
- ▶ VENTILATION AND GOOD AIR QUALITY
- ► SAFETY AND SECURITY



E 3000 sliding system with thermo break code/description package/pcs colour ET 130175.00 80 glazing EPDM gasket press-in 5-6 mm ET 130177.00 60 glazing EPDM gasket press-in 7-8 mm ET 130153.00 150 glazing EPDM gasket 4 mm ET 130171.00 275

EPDM gasket



E 3000

| code/description | package/pcs | colour | |
|---------------------|-------------|--------|--|
| ET 130131.00 | 200 | | |
| ET 130174.00 | 160 | | |



EPDM on rabbet and glass beading

ET 130723.00

90



EPDM gasket



ET 130404.00

180



EPDM gasket



ET 130172.00

150

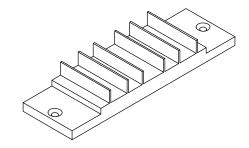


EPDM gasket for E 3000

E 3000

| code/description | package/pcs | colour | |
|---------------------|-------------|--------|--|
| ет 240802.00 | 20 | | |

epdm brushes for E 3000

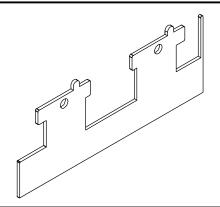


ET 076603.00

20

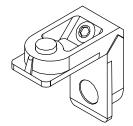


EPDM gasket for frame insulation E3010



| ET 053304.00 | 250 | MF |
|---------------------|-----|----|
| ET 052203.00 | 250 | MF |

corner joint bracket for E3005



| ET 055503.00 | 100 | MF |
|---------------------|-----|----|
| ET 056602.00 | 100 | MF |
| ET 057701.00 | 100 | |

metal alignment square

stainless steel alignment square

plastic 6-6 alignment square

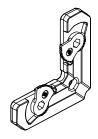


30000-03

E 3000

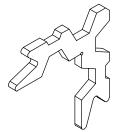
| code/description | package/pcs | colour | |
|---------------------|-------------|--------|--|
| ET 058001.00 | 250 | MF | |

alignment square with locking function



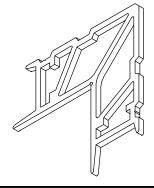
вт **54433.00** 200 МF

extruded aluminium corner bracket for E 54200



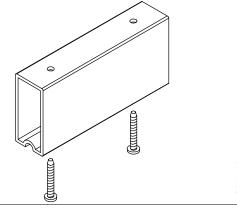
 54710.00 200 MF

extruded aluminium corner bracket for E 54200



ET **240702.00** 10

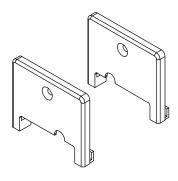
aluminium spacer



E 3000

| code/description | package/pcs | colour |
|---------------------|-------------|--------|
| ET 074616.00 | 10 | |

bottom - plastic plug for interlock profile

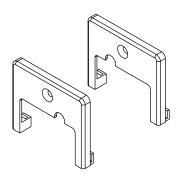


ET **074617.00**

10



top – plastic plug for interlock profile



ET 240607.00

100



plastic anti-vibration buffer



ет 080169.00

3



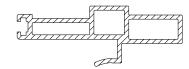
special plastic profile



E 3000

| code/description | package/pcs | colour | |
|---------------------|-------------|--------|--|
| ET 080168.00 | 3 | | |

plastic profile for central section E 3000



| ET 135508.01 | 225 | |
|--------------------|-----|---|
| п 135508.02 | 225 | |
| п 135508.04 | 225 | • |



brush - FP

|--|

EPDM gasket



| гт 130729.00 | - | |
|---------------------|---|--|
| | | |

EPDM gasket



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The specific conditions and technical details of every particular project have to be taken into consideration.

The right choice of all elements as well as any special requirements regarding stability of the structure must always be considered by the structural/facade engineer responsible for the project.

The solutions presented in these pages are indicative and can not cover all possible project cases. Because of that every single project has to be evaluated by the structural/facade engineer in charge taking into consideration the specific features such as climate conditions, location, orientation etc.

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