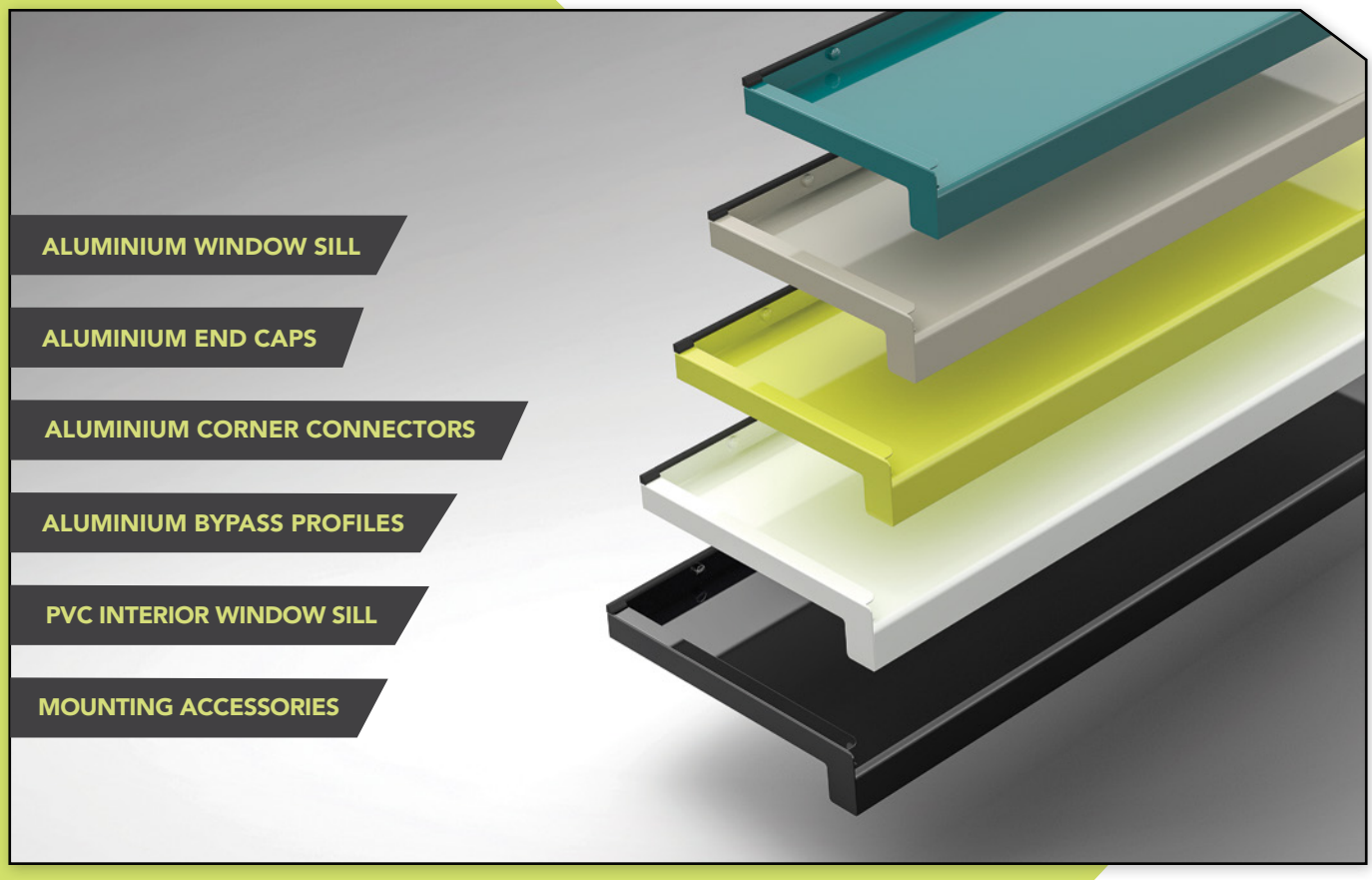
TSV®
window sill
member of PM

2022 - 2023

PRODUCT CATALOGUE

| ALUMINIUM WINDOW SILL SYSTEMS | ALUMINIUM WINDOW SILL ACCESSORIES |
| WINDOW SILL PREMIUM COMPLETE SYSTEM |

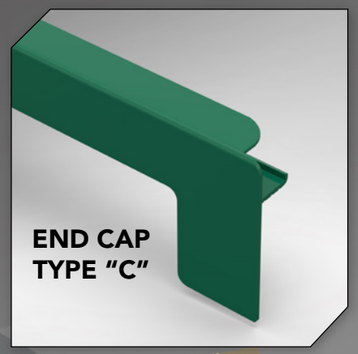
tsvline.com



PM Group, through PM Aluminium Line company launched in March 2022 the TSV Line brand, which represents the identity of a premium aluminium sill system, both technically and aesthetically efficient. Our products stand out for their safety, quick and easy assembly, and are delivered with all the accessories needed for assembly providing time and quality benefits to our customers.

ALUMINIUM WINDOW SILL AND ACCESSORIES

TSV® window sill
member of PM

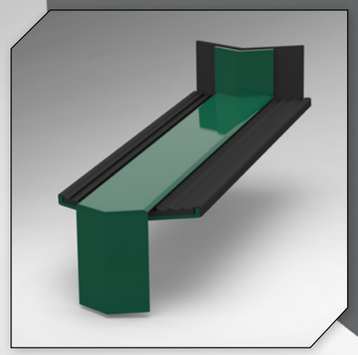


END CAP TYPE "C"

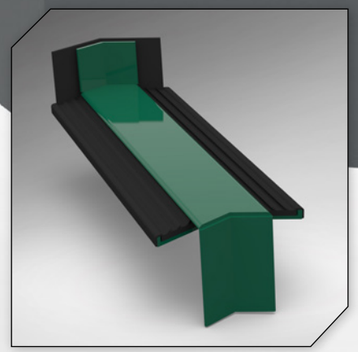
- aluminium caps with **40 mm** rim
- "**clips-on**" system
- RAL **9016**, **8019**, **8003**, **7016**
- ANODISED **E6/EV1, E6/C32, E6/C33**
- special colors can be ordered
- available lengths **50 mm - 400 mm**

END CAP TYPE "L"

- window sills with **40 mm** rims
- RAL **9016**, **8019**, **8003**, **7016**
- ANODISED **E6/EV1, E6/C32, E6/C33**
- special colors can be ordered
- available widths **50 mm - 400 mm**

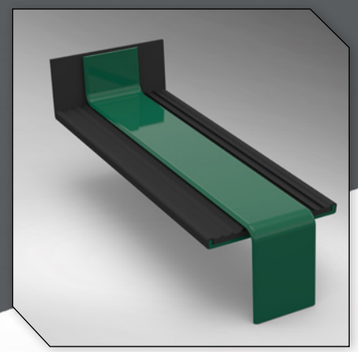


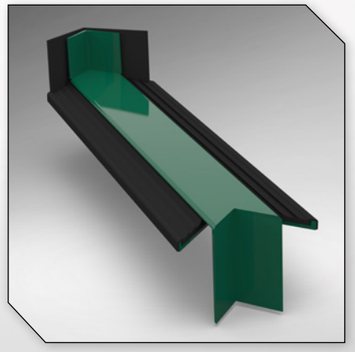
CONNECTOR 135 OUTER CORNERS
with EPDM gasket



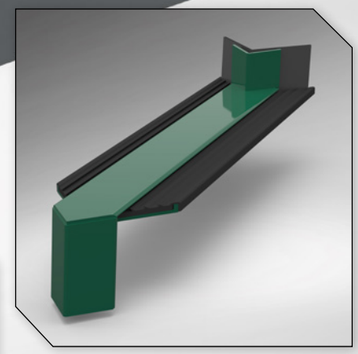
CONNECTOR 135 INNER CORNERS
with EPDM gasket

CONNECTOR 180 COUPLING
with EPDM gasket





CONNECTOR 90 OUTER CORNERS
with EPDM gasket



CONNECTOR 90 INNER CORNERS
with EPDM gasket

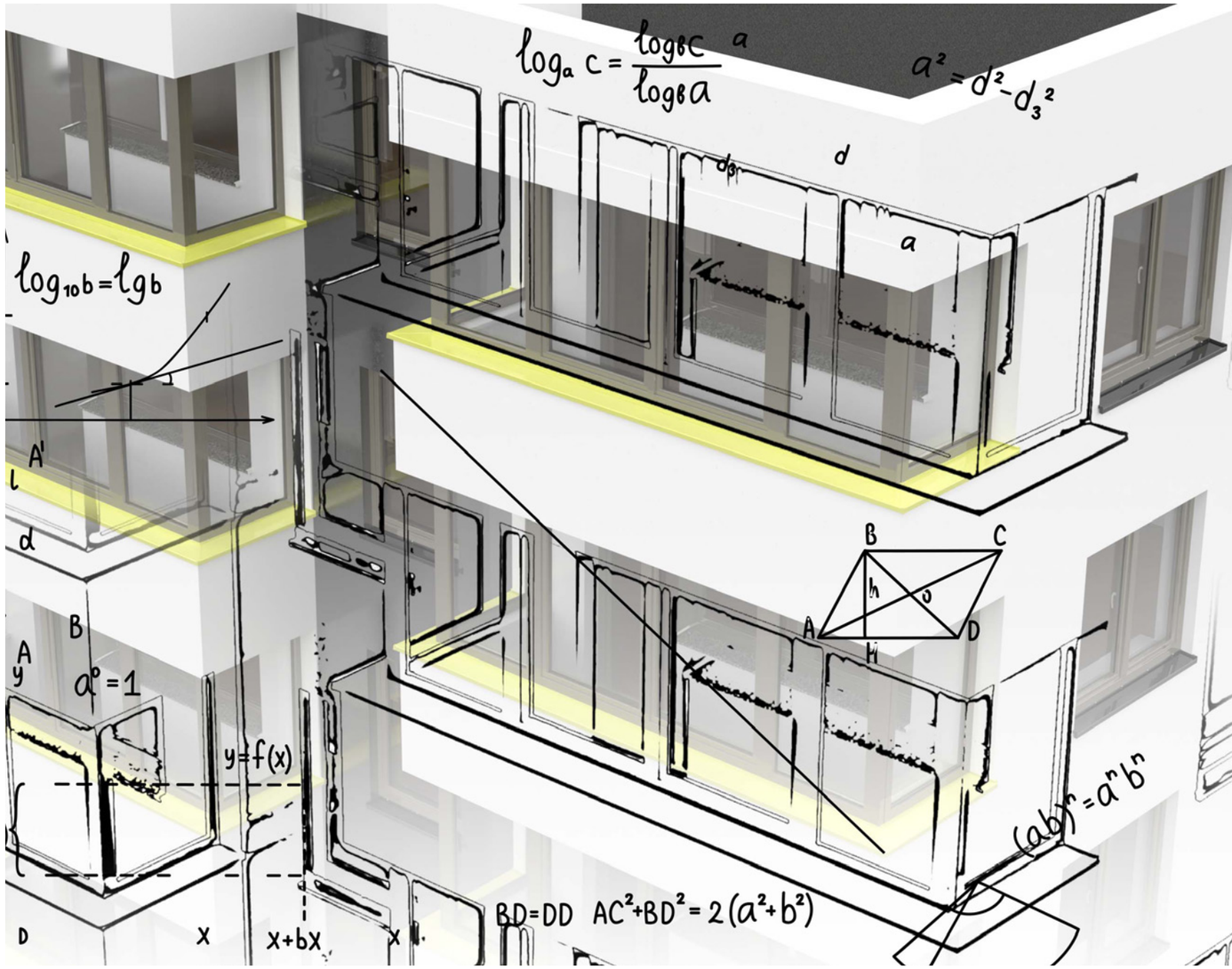
CONTENT

CONTENT

TURNING AN IDEA INTO A PRODUCT

One of the essential parameters on which the design process of the **TSV** complete system is based is their efficient operation of the montage and the design focus management for which our team of engineers are responsable, ensuring a smooth installation processes.

Innovation and quality are the pillars of technological progress, and the passion and professionalism of expert teams ensure a sustainable future for your home.



The central element on which **TSV** products focus is recognized is by its technical and aesthetics performance, which together contribute to the realization of architectural concepts and renovation projects.

All our resources and ideas are for one purpose - **to promote the highest quality products and services**.

chapter

1

TSV ALUMINIUM WINDOW SILL

40 mm rim

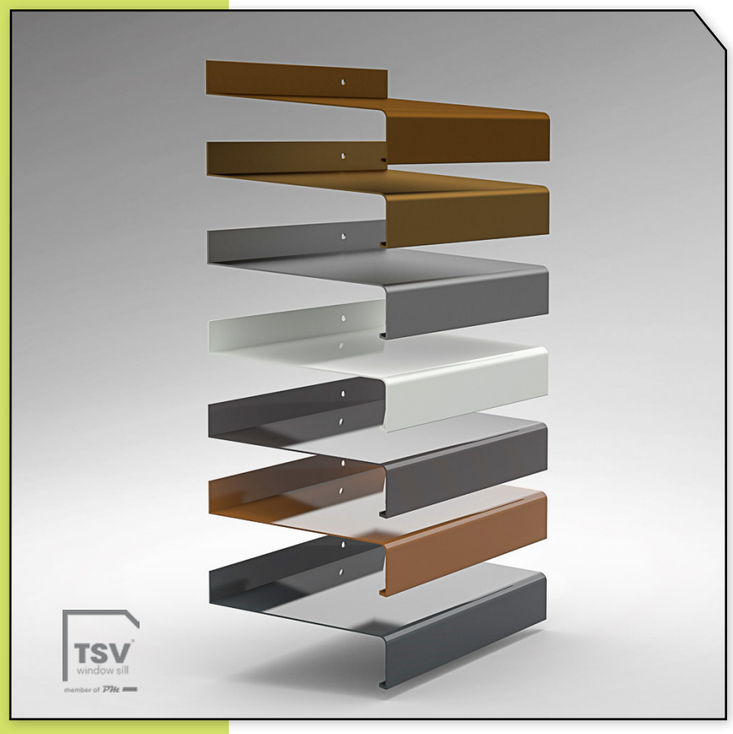
The correct solution from a technical and aesthetic point of view, increased efficiency for the external protection of the building at the bottom of the window frame.

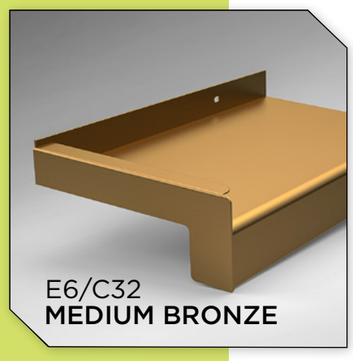
You can visit the product on our website

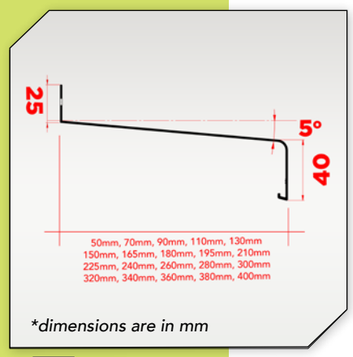
[scan me]

TSV ALUMINIUM WINDOW SILL

40 mm rim

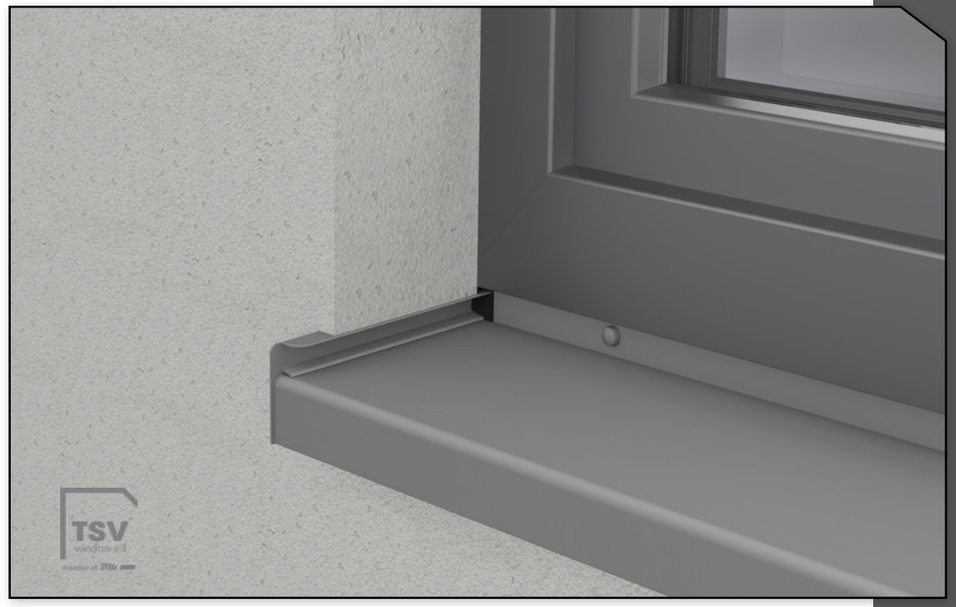






**dimensions are in mm*

Product name:	**TSV Aluminium Window Sill, 40mm rim**
Benefits Characteristics:	**TSV** aluminium window sills are produced with high-precision aluminium extrusion process, by which aluminium alloy material type AA 6061, is forced through a die with a specific cross – section profile, and protected with removable protective foil. It's recommended to install outside in order to protect the window frame and prevent rain water from entering your house. Increased resistance to atmospheric conditions, ultraviolet rays and temperature fluctuations.
Available colors Finished surface:	RAL 9016, RAL 8019, RAL 8003, RAL 7016 E6/EV1, E6/C32, E6/C33 **custom coatings are available for delivery on request*
Width available:	*50 mm, 70 mm, 90 mm, 110 mm, 130 mm, 150 mm, 165 mm, 180 mm, 195 mm, 210 mm, 225 mm, 240 mm, 260 mm, 280 mm, 300 mm, 320 mm, 340 mm, 360 mm, 380 mm, 400 mm*



TECHNICAL SPECIFICATIONS

TSV Aluminium
WINDOW SILL
40 mm rim

TSV aluminium window sills are fitted with 4.2 × 7 mm oval holes arranged at distances of 300 mm between the holes.
- The paint is applied entirely on one side and on the other of the window sills.
- Inclination angle of the windows sills 5°.
- For the correct installation it's recommended to use the following mounting accessories:
- *self tapping stainless steel screw, screw cap washer hinged, butyl sealing tape*, soundproof tape, low expansion foam

concept

professionalism

excellency

TSV® window sill

member of PM

You can visit the product on our website

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2

chapter

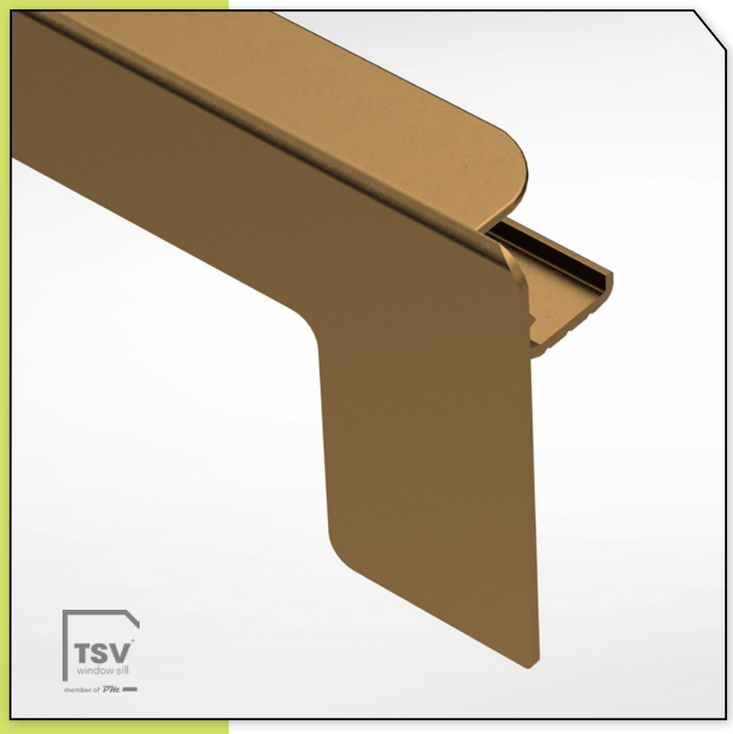
END CAPS

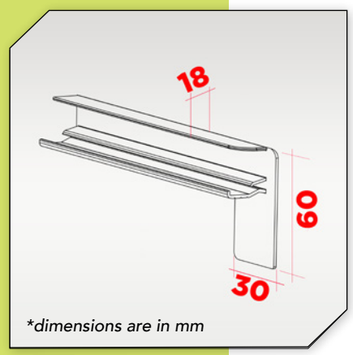
aluminium - 40 mm rim

They are produced by the electrostatic painting process, respectively by the electrochemical anodizing process. Window sill clamping - **clips-on system**.

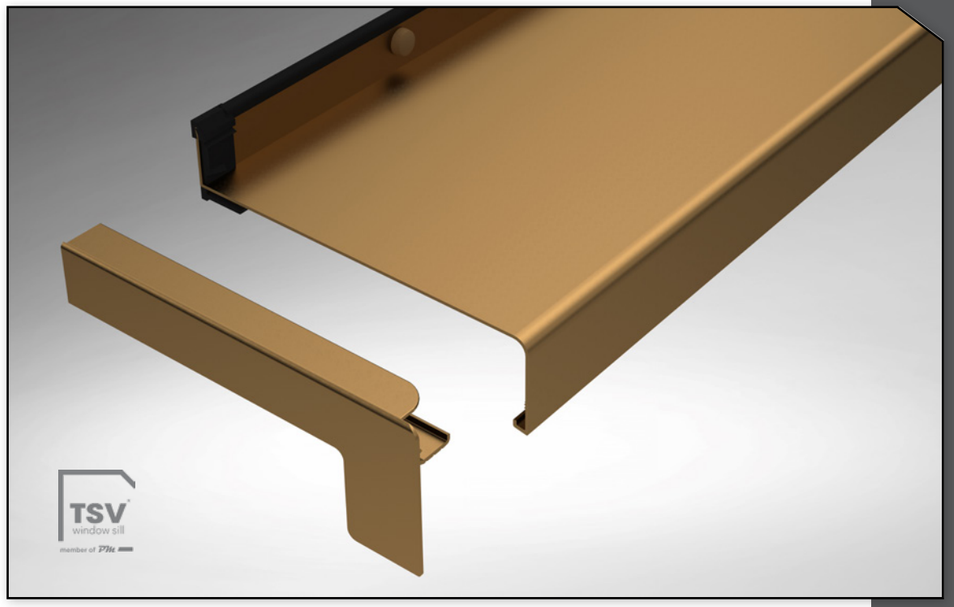
END CAPS TYPE “C”

from aluminium - 40mm rim





Product name:	**Aluminium End Caps type “C”**
Benefits Characteristics:	They are made in perfect harmony with the window sills, respecting the quality guarantee and the rigidity adequate to the structure. It installs very easily thanks to our innovative clips-on system. The system is recommended to be used for all situations in which the application of thermal insulation represents a later process for realizing the finished facade; Outstanding performance and increased strength in terms of maintenance and safety.
Available colors Finished surface:	RAL 9016, RAL 8019, RAL 8003, RAL 7016 E6/EV1, E6/C32, E6/C33 **custom coatings are available for delivery on request*
Width available:	*50 mm, 70 mm, 90 mm, 110 mm, 130 mm, 150 mm, 165 mm, 180 mm, 195 mm, 210 mm, 225 mm, 240 mm, 260 mm, 280 mm, 300 mm, 320 mm, 340 mm, 360 mm, 380 mm, 400 mm*
Packing unit:	Individual packaging - 1 piece left / 1 piece right



TECHNICAL SPECIFICATIONS

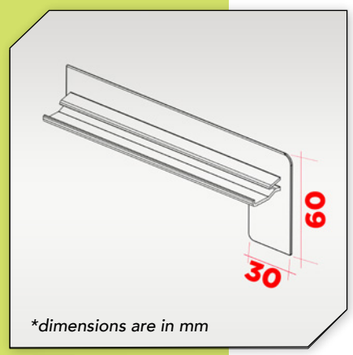
Using aluminium end covers type “C”

The TSV end covers are produced with high-precision aluminium extrusion process, by which aluminium alloy material type AA 6061, is forced through a die with a specific cross – section profile.

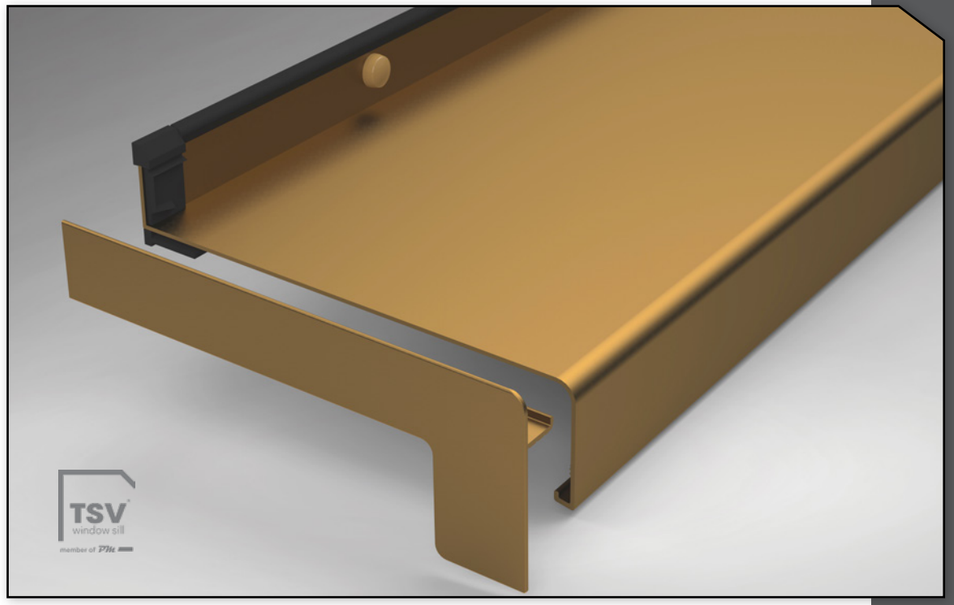
Variable dimensions of thermal insulation application with 3 width variants – *18 mm / 30 and 40 mm (available using “L” type aluminium side covers together with slideL aluminium profile)*

END CAPS TYPE “L”

from aluminium - 40mm rim



Product name:	**Aluminium End Caps type “L”**
Benefits Characteristics:	They are designed to give a decorative look through pattern and colors, respecting the quality guarantee and protection against infiltrations. Easy to install thanks to our innovative **clips-on system**. The system is recommended to be used for all situations in which the thermal insulation has been made, as well as in the case of ***renovation projects***. Outstanding performance and increased strength in terms of maintenance and safety.
Available colors Finished surface:	RAL 9016, RAL 8019, RAL 8003, RAL 7016 E6/EV1, E6/C32, E6/C33 **custom coatings are available for delivery on request*
Width available:	*50 mm* | *150 mm* | *225 mm* | *320 mm* *70 mm* | *165 mm* | *240 mm* | *340 mm* *90 mm* | *180 mm* | *260 mm* | *360 mm* *110 mm* | *195 mm* | *280 mm* | *380 mm* *130 mm* | *210 mm* | *300 mm* | *400 mm*
Packing unit:	Individual packaging - 1 piece left / 1 piece right



TECHNICAL SPECIFICATIONS

Using aluminium end covers type “L”

The **TSV** end covers are produced with high-precision aluminium extrusion process, by which aluminium alloy material type **AA 6061**, is forced through a die with a specific cross – section profile.

3

chapter

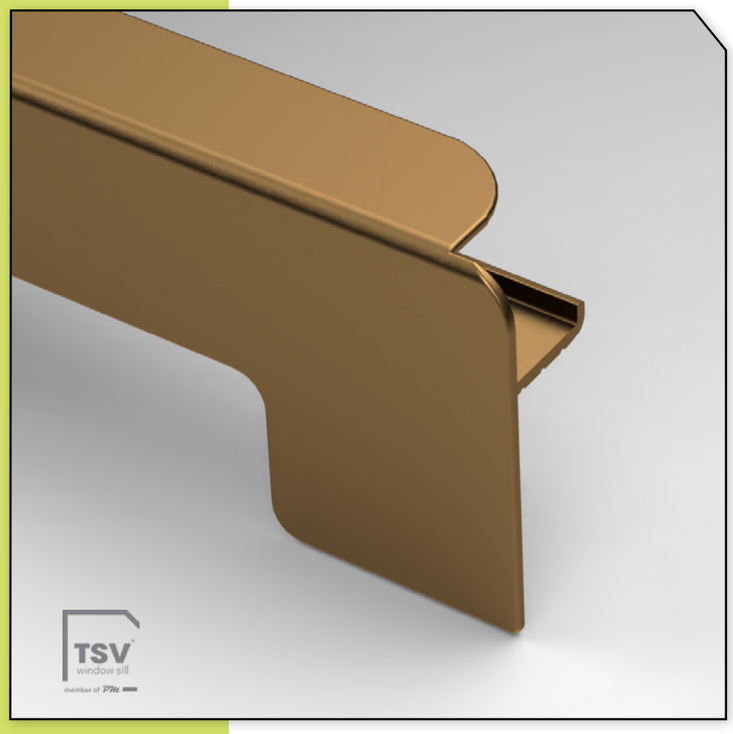
END CAPS

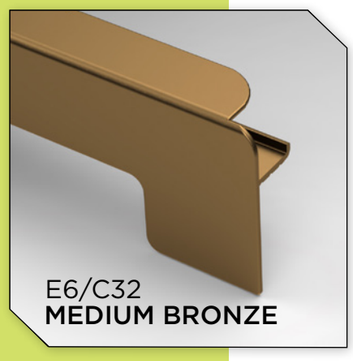
aluminium - 25 mm rim

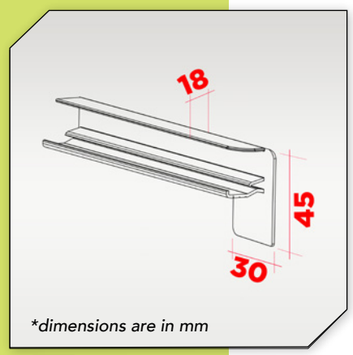
They are produced by the electrostatic painting process, respectively by the electrochemical anodizing process. Window sill clamping - **clips-on system**.

END CAPS TYPE “C”

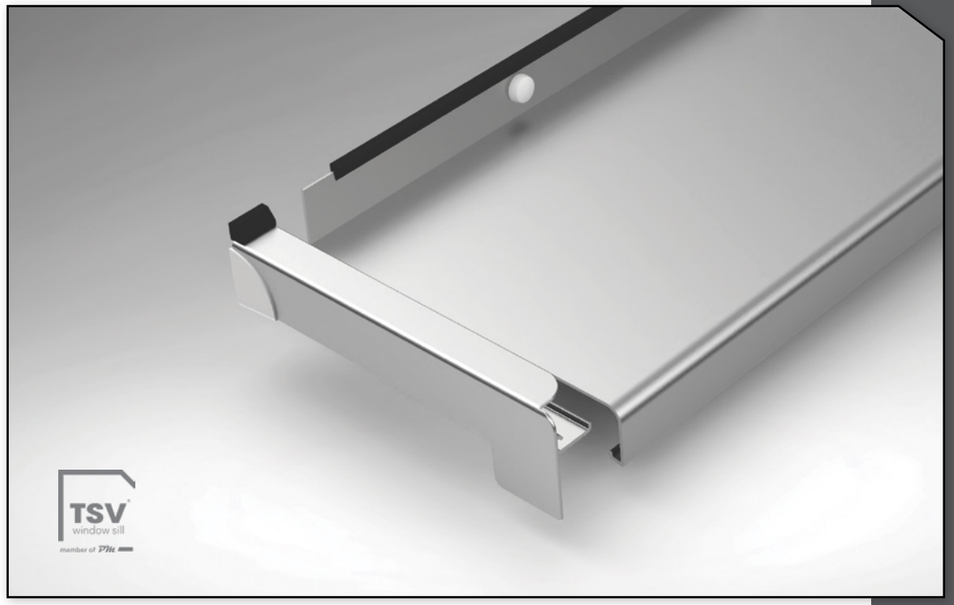
from aluminium - 25mm rim







Product name:	**Aluminium End Caps type “C”**
Benefits Characteristics:	They are made in perfect harmony with the window sills, respecting the quality guarantee and the rigidity adequate to the structure. It installs very easily thanks to our innovative clips-on system. The system is recommended to be used for all situations in which the application of thermal insulation represents a later process for realizing the finished facade; Outstanding performance and increased strength in terms of maintenance and safety.
Available colors Finished surface:	RAL 9016, RAL 8019, RAL 8003, RAL 7016 E6/EV1, E6/C32, E6/C33 **custom coatings are available for delivery on request*
Width available:	*50 mm, 70 mm, 90 mm, 110 mm, 130 mm, 150 mm, 165 mm, 180 mm, 195 mm, 210 mm, 225 mm, 240 mm, 260 mm, 280 mm, 300 mm, 320 mm, 340 mm, 360 mm, 380 mm, 400 mm*
Packing unit:	Individual packaging - 1 piece left / 1 piece right



TECHNICAL SPECIFICATIONS

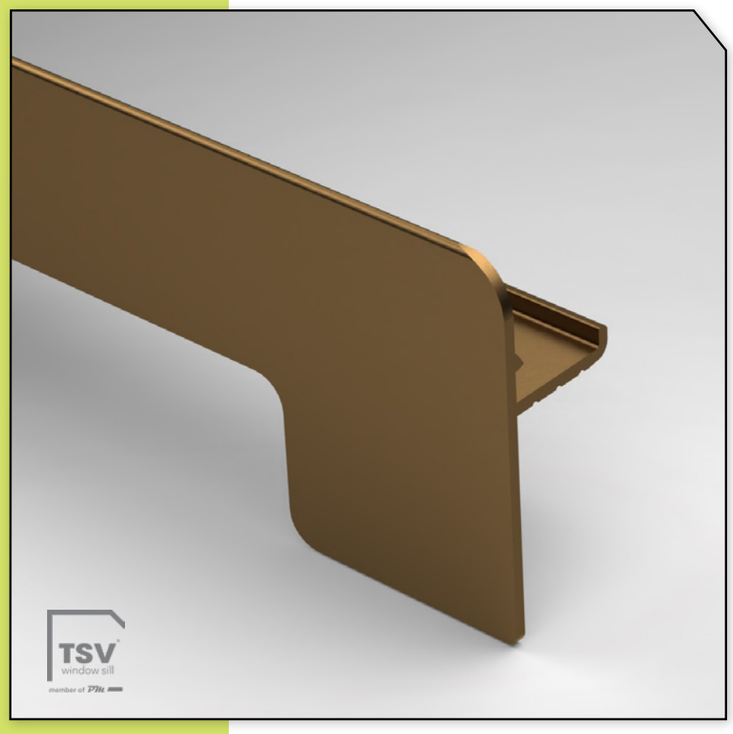
Using aluminium end covers type “C”

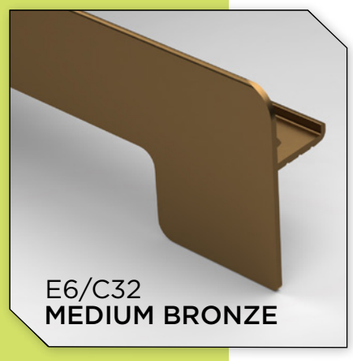
The TSV end covers are produced with high-precision aluminium extrusion process, by which aluminium alloy material type AA 6061, is forced through a die with a specific cross – section profile.

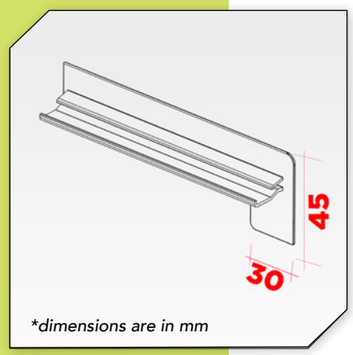
Variable dimensions of thermal insulation application with 3 width variants – *18 mm / 30 and 40 mm (available using “L” type aluminium side covers together with slideL aluminium profile)*

END CAPS TYPE “L”

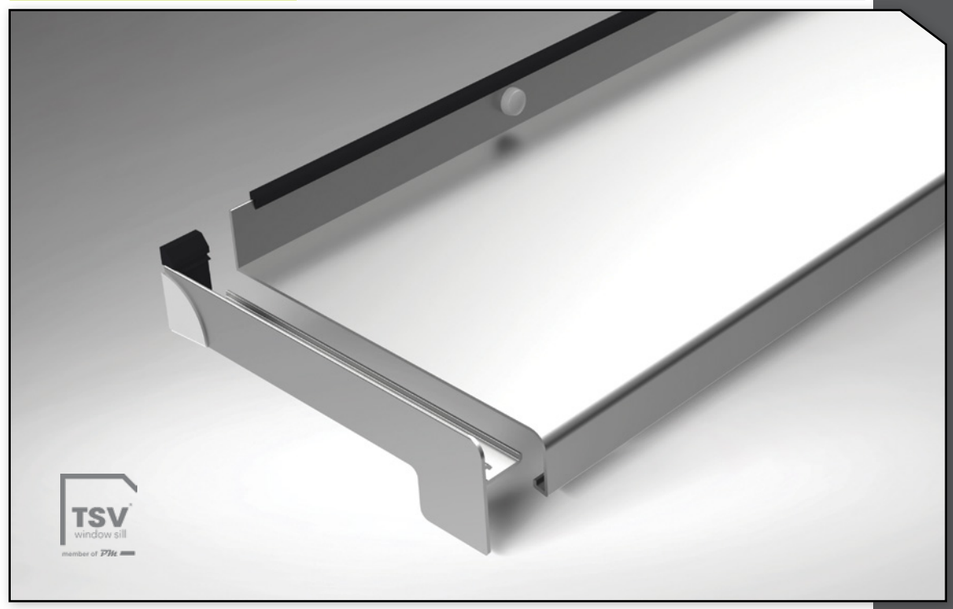
from aluminium - 25mm rim







Product name:	**Aluminium End Caps type “L”**
Benefits Characteristics:	They are designed to give a decorative look through pattern and colors, respecting the quality guarantee and protection against infiltrations. Easy to install thanks to our innovative **clips-on system**. The system is recommended to be used for all situations in which the thermal insulation has been made, as well as in the case of ***renovation projects***. Outstanding performance and increased strength in terms of maintenance and safety.
Available colors Finished surface:	RAL 9016, RAL 8019, RAL 8003, RAL 7016 E6/EV1, E6/C32, E6/C33 **custom coatings are available for delivery on request*
Width available:	*50 mm* | *150 mm* | *225 mm* | *320 mm* *70 mm* | *165 mm* | *240 mm* | *340 mm* *90 mm* | *180 mm* | *260 mm* | *360 mm* *110 mm* | *195 mm* | *280 mm* | *380 mm* *130 mm* | *210 mm* | *300 mm* | *400 mm*
Packing unit:	Individual packaging - 1 piece left / 1 piece right



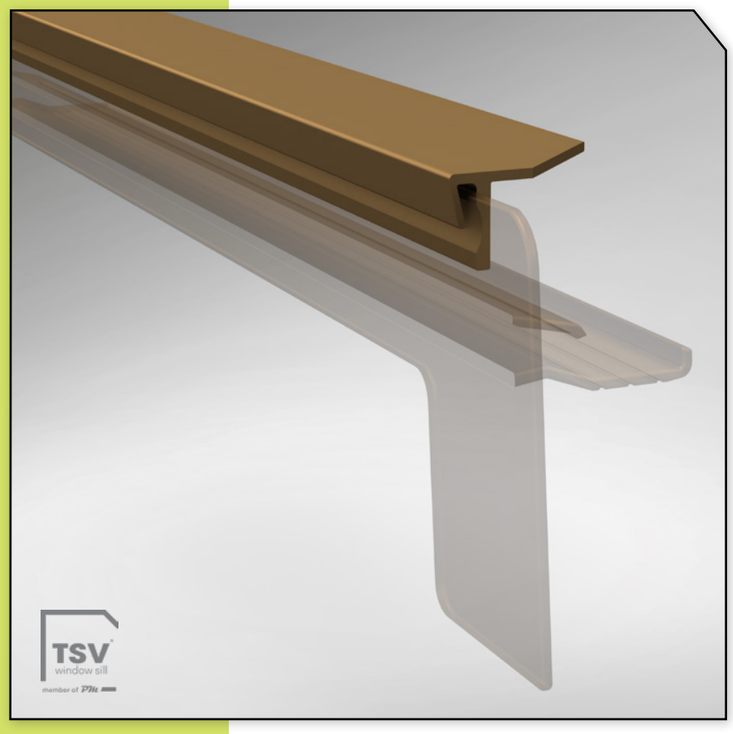
TECHNICAL SPECIFICATIONS

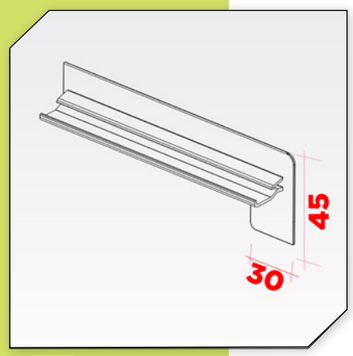
Using aluminium end covers type “L”

The **TSV** end covers are produced with high-precision aluminium extrusion process, by which aluminium alloy material type **AA 6061**, is forced through a die with a specific cross – section profile.

03

PLASTER COMPENSATION PROFILE FOR TYPE “L” SIDE COVERS *from aluminium - 25mm rim*

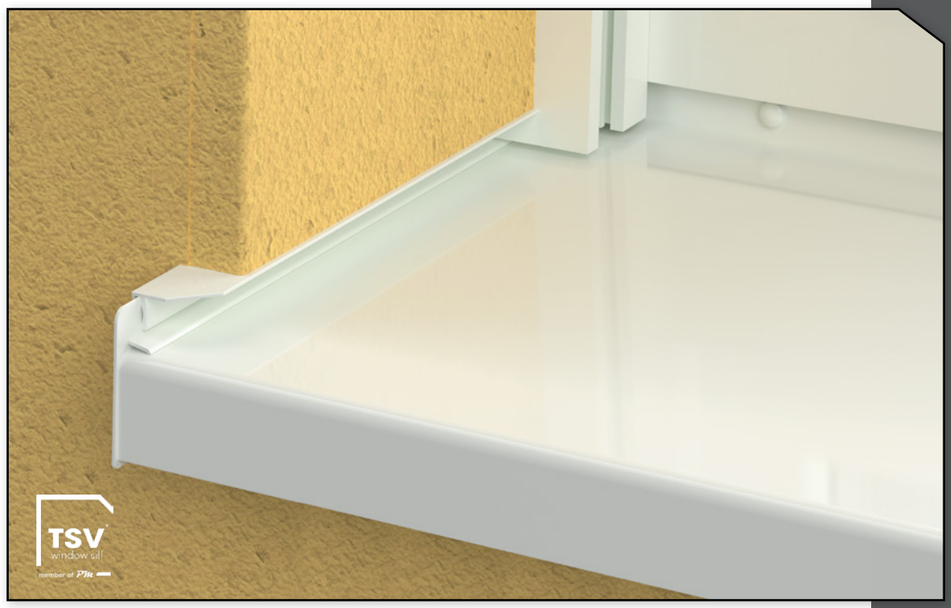




member of PH

03

Product name:	**Plaster compensation profile for type “L” side aluminium covers**
Benefits Characteristics:	- Designed to provide a decorative appearance due to their pattern and colours, ensuring quality and protection against infiltrations. - Cutting out the compensation profile enables the use of roller-fastening side profiles. - Easy installation thanks to our innovative clip-on system. - The system is recommended for new buildings with unfinished decorative plastering. - Outstanding performance and increased strength in terms of maintenance and safety.
Available colors Finished surface:	RAL 9016, RAL 8019, RAL 8003, RAL 7016 E6/EV1, E6/C32, E6/C33 **special colours can be made to order*
Width available:	*50 mm* / *150 mm* / *225 mm* / *320 mm* *70 mm* / *165 mm* / *240 mm* / *340 mm* *90 mm* / *180 mm* / *260 mm* / *360 mm* *110 mm* / *195 mm* / *280 mm* / *380 mm* *130 mm* / *210 mm* / *300 mm* / *400 mm*
Packing unit:	Individual packaging - 1 left piece / 1 right piece



SPECIFICATIONS Characteristics	Used together with type “L” aluminium side covers (rebate 25/40 mm) - Compensation profiles for side covers are manufactured using the high precision extrusion process, out of an AA 6061 alloy. - Variable dimensions of thermal insulation application with 3 width options – 18 mm / 30 and 40 mm (available using type “L” aluminium side covers together with the aluminium slideL profile)

Using aluminium end covers type “L” 40 mm rim

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4

chapter

CORNER CONNECTORS

at an angle of 90°, 135°, 180°

for 40mm aluminium window sill

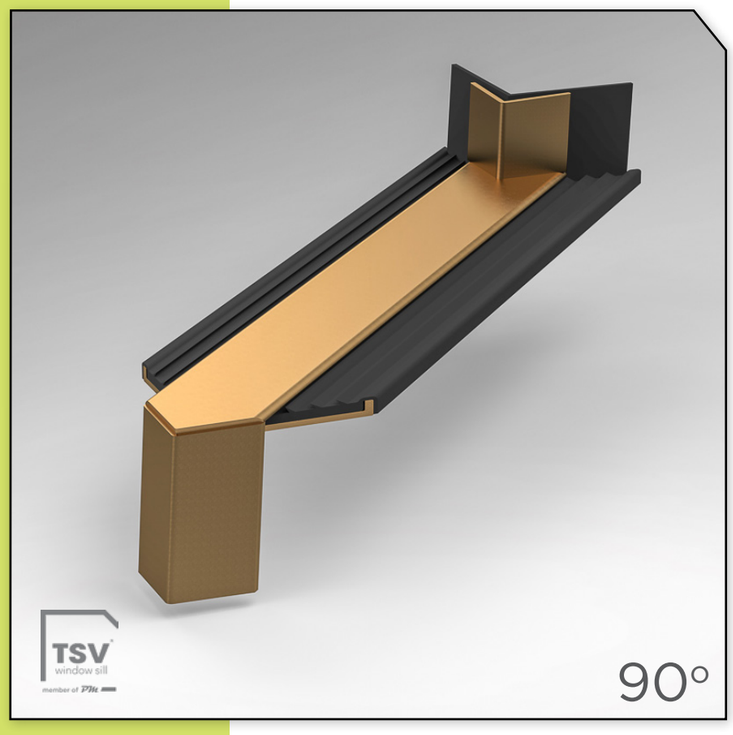
You can visit the product on our website

[scan me]

Made of high quality aluminum, resistant to variable weather conditions and the effects of the passing of time.
Very easy to install and maintain.

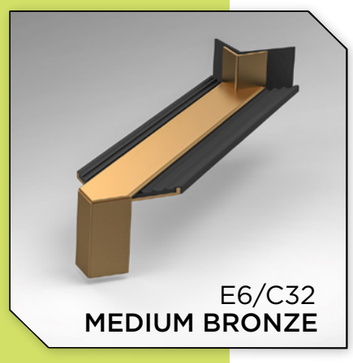
CORNER CONNECTORS

90° EXTERIOR - 40 mm rim



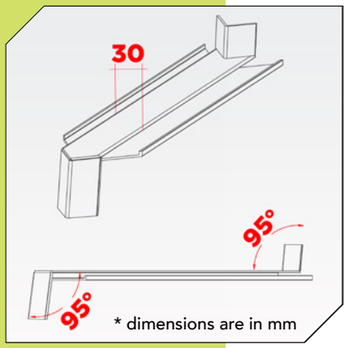

RAL 9016
WHITE


RAL 7016
ANTHRACITE GREY


E6/C32
MEDIUM BRONZE


E6/EV 1
SILVER

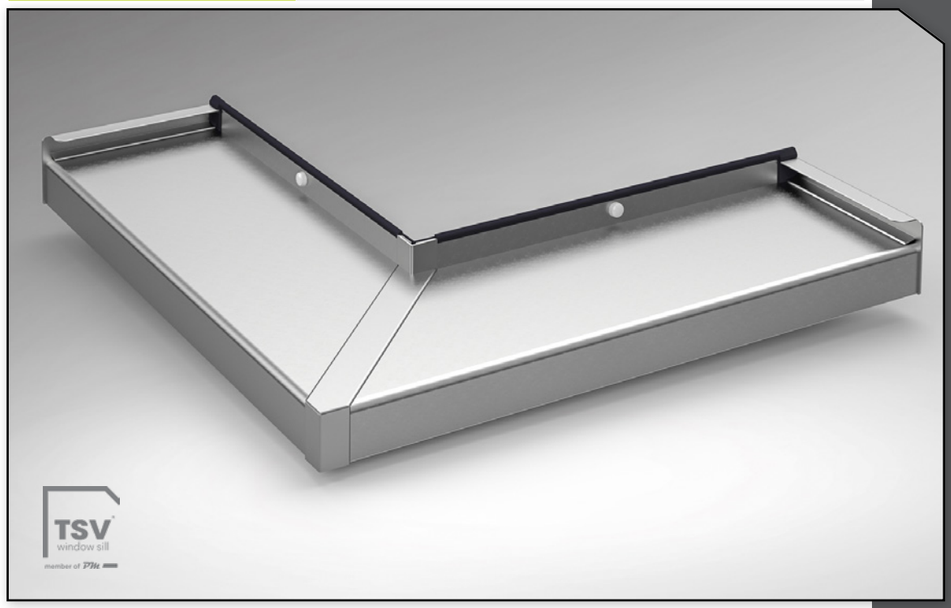

RAL 8003
BROWN CLAY




E6/C33
DARK BRONZE


RAL 8019
BROWN GREY

Product name:	**CORNER CONNECTORS - angle of 90° EXTERIOR**
Benefits Characteristics:	The **TSV** corner connectors are produced with high-precision aluminium extrusion process, by which aluminium alloy material type AA 6061, is forced through a die with a specific cross – section profile provided with a sealing gasket, which acts as a water penetration sealing system. We recommend the corner connectors to be mounted on the exterior, for the angle joints between the **40 mm** rim aluminium window sills, mounted at an **outer angle of 90°**. Ensures a perfect combination both aesthetically and functionally.
Available colors Finished surface:	RAL 9016, RAL 8019, RAL 8003, RAL 7016 E6/EV1, E6/C32, E6/C33 *custom coatings are available for delivery on request
Available sizes according to nominal width of TSV window sills:	*50 mm* | *150 mm* | *225 mm* | *320 mm* *70 mm* | *165 mm* | *240 mm* | *340 mm* *90 mm* | *180 mm* | *260 mm* | *360 mm* *110 mm* | *195 mm* | *280 mm* | *380 mm* *130 mm* | *210 mm* | *300 mm* | *400 mm*
Packing unit:	10 pieces / box.



TECHNICAL SPECIFICATIONS

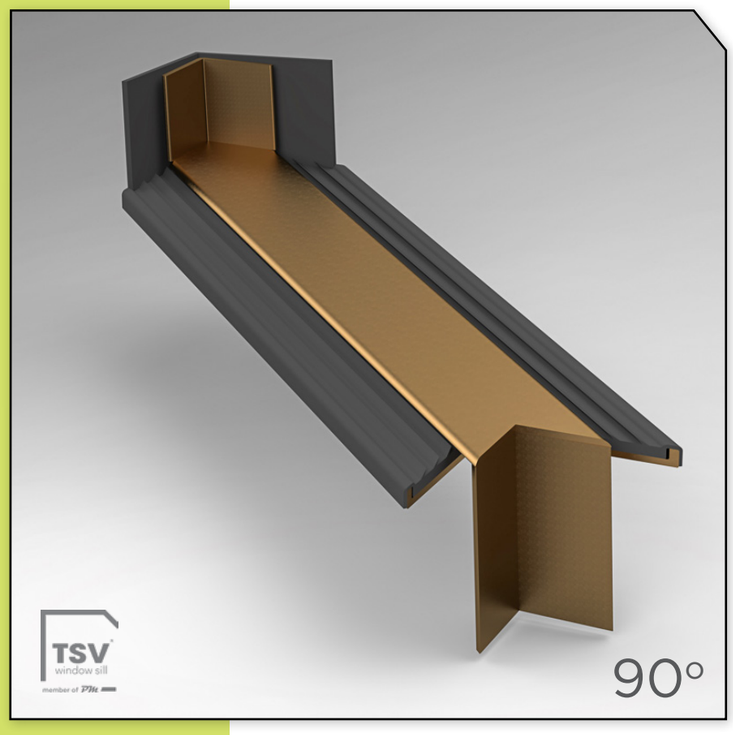
CORNER CONNECTORS
90° exterior

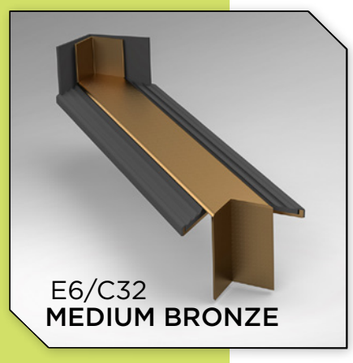
TSV corner connectors are designed to be mounted at an angle of 5°, similar to the inclination of the TSV window sill.
The upper part with a width of 30 mm, allows the masking of angular deviations resulting from cutting the aluminium window sill.

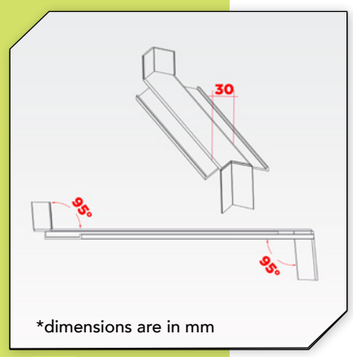
When using the TSV corner connectors, we recommend installing the window sill accordingly to the *mounting instructions described on the product catalogue – page no.64.*

CORNER CONNECTORS

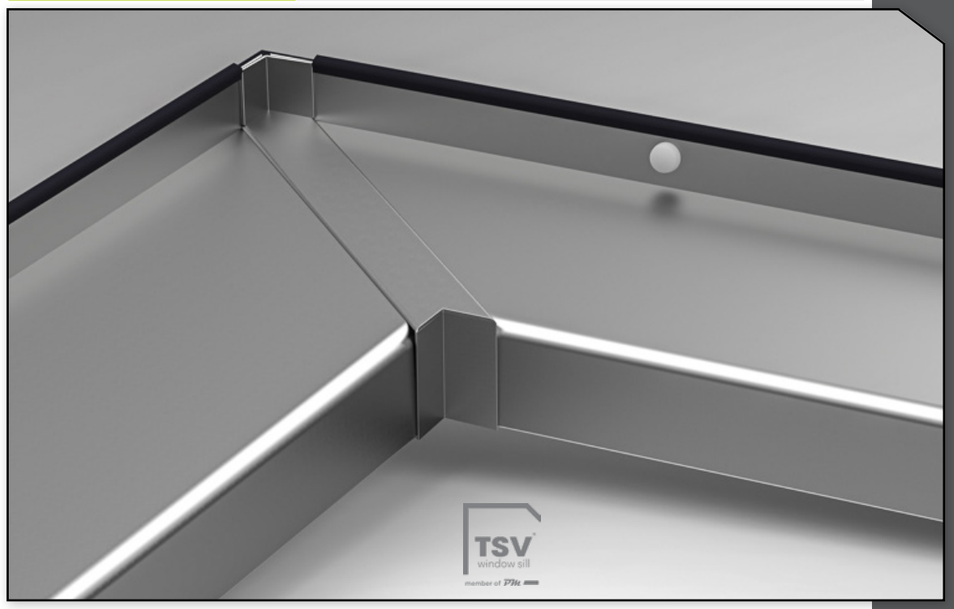
90° INTERIOR - 40 mm rim







Product name:	**CORNER CONNECTORS - angle of 90° INTERIOR**
Benefits Characteristics:	The **TSV** corner connectors are produced with high-precision aluminium extrusion process, by which aluminium alloy material type AA 6061, is forced through a die with a specific cross – section profile provided with a sealing gasket, which acts as a water penetration sealing system. We recommend the corner connectors to be mounted on the exterior, for the angle joints between the **40 mm** rim aluminium window sills, mounted at an **inner angle of 90°**. Ensures a perfect combination both aesthetically and functionally.
Available colors Finished surface:	RAL 9016, RAL 8019, RAL 8003, RAL 7016 E6/EV1, E6/C32, E6/C33 *custom coatings are available for delivery on request
Available sizes according to nominal width of TSV window sills:	*50 mm* / *150 mm* / *225 mm* / *320 mm* *70 mm* / *165 mm* / *240 mm* / *340 mm* *90 mm* / *180 mm* / *260 mm* / *360 mm* *110 mm* / *195 mm* / *280 mm* / *380 mm* *130 mm* / *210 mm* / *300 mm* / *400 mm*
Packing unit:	10 pieces / box.



TECHNICAL SPECIFICATIONS

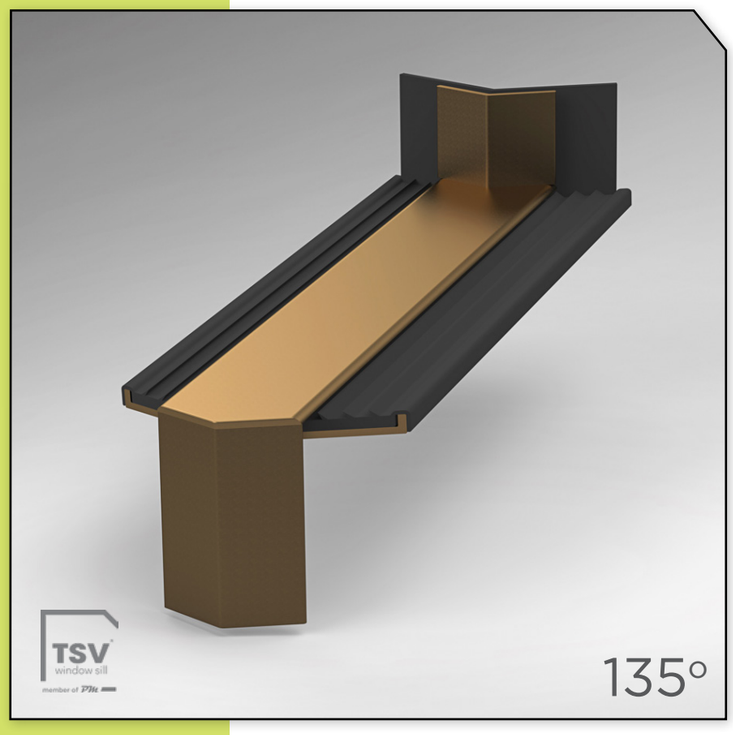
CORNER CONNECTORS
90° interior

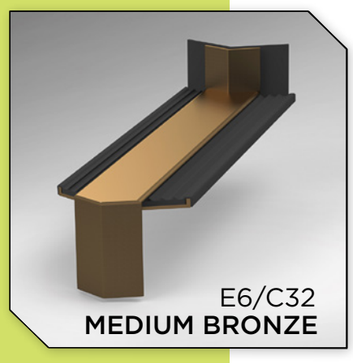
TSV corner connectors are designed to be mounted at an angle of 5°, similar to the inclination of the TSV window sill.
The upper part with a width of 30 mm, allows the masking of angular deviations resulting from cutting the aluminium window sill.

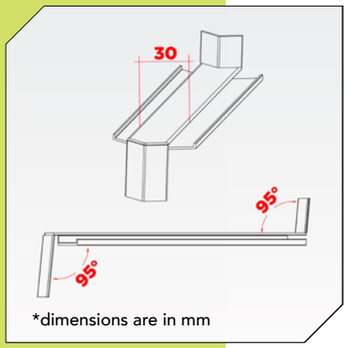
When using the TSV corner connectors, we recommend installing the window sill accordingly to the *mounting instructions described on the product catalogue – page no.64.*

CORNER CONNECTORS

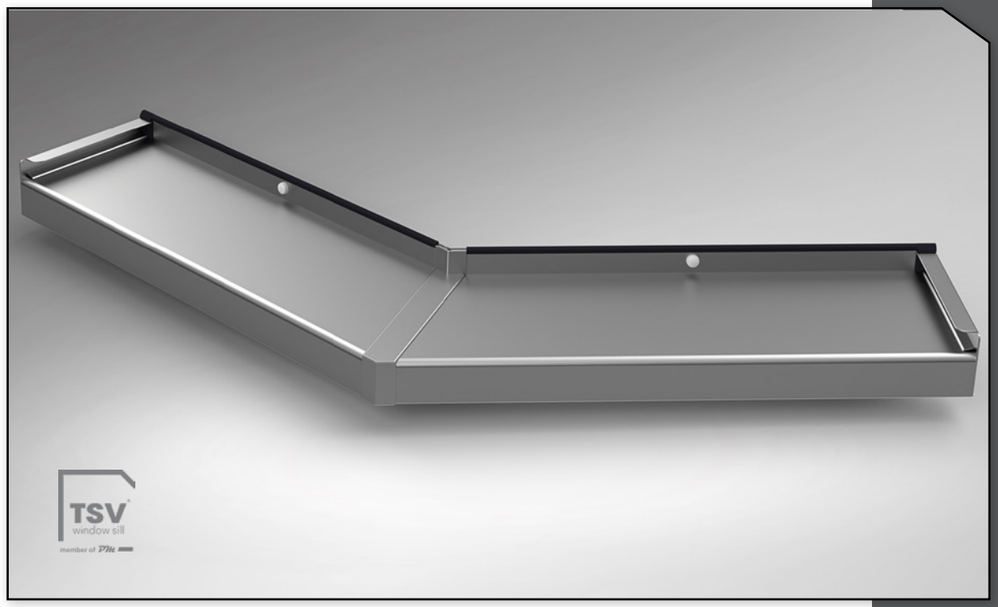
135° EXTERIOR - 40 mm rim







Product name:	**CORNER CONNECTORS - angle of 135° EXTERIOR**
Benefits Characteristics:	The **TSV** corner connectors are produced with high-precision aluminium extrusion process, by which aluminium alloy material type AA 6061, is forced through a die with a specific cross – section profile provided with a sealing gasket, which acts as a water penetration sealing system. We recommend the corner connectors to be mounted on the exterior, for the angle joints between the **40 mm** rim aluminium window sills, mounted at an **outer angle of 135°**. Ensures a perfect combination both aesthetically and functionally.
Available colors Finished surface:	RAL 9016, RAL 8019, RAL 8003, RAL 7016 E6/EV1, E6/C32, E6/C33 *custom coatings are available for delivery on request
Available sizes according to nominal width of TSV window sills:	*50 mm* | *150 mm* | *225 mm* | *320 mm* *70 mm* | *165 mm* | *240 mm* | *340 mm* *90 mm* | *180 mm* | *260 mm* | *360 mm* *110 mm* | *195 mm* | *280 mm* | *380 mm* *130 mm* | *210 mm* | *300 mm* | *400 mm*
Packing unit:	10 pieces / box.



TECHNICAL SPECIFICATIONS

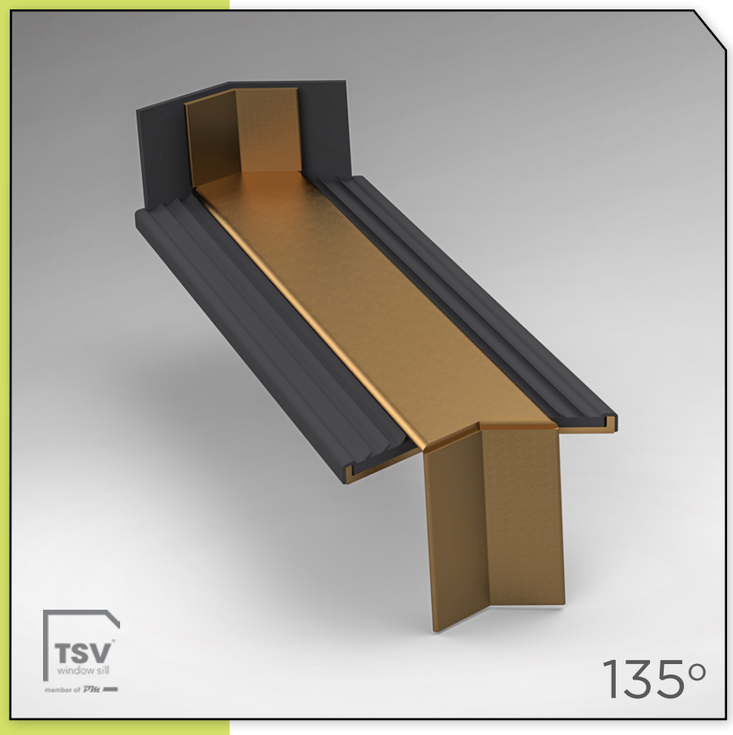
CORNER CONNECTORS
135° exterior

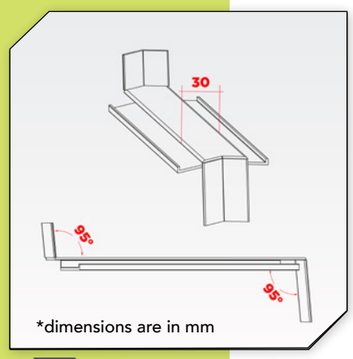
TSV corner connectors are designed to be mounted at an angle of 5°, similar to the inclination of the TSV window sill.
The upper part with a width of 30 mm, allows the masking of angular deviations resulting from cutting the aluminium window sill.

When using the TSV corner connectors, we recommend installing the window sill accordingly to the *mounting instructions described on the product catalogue – page no.64.*

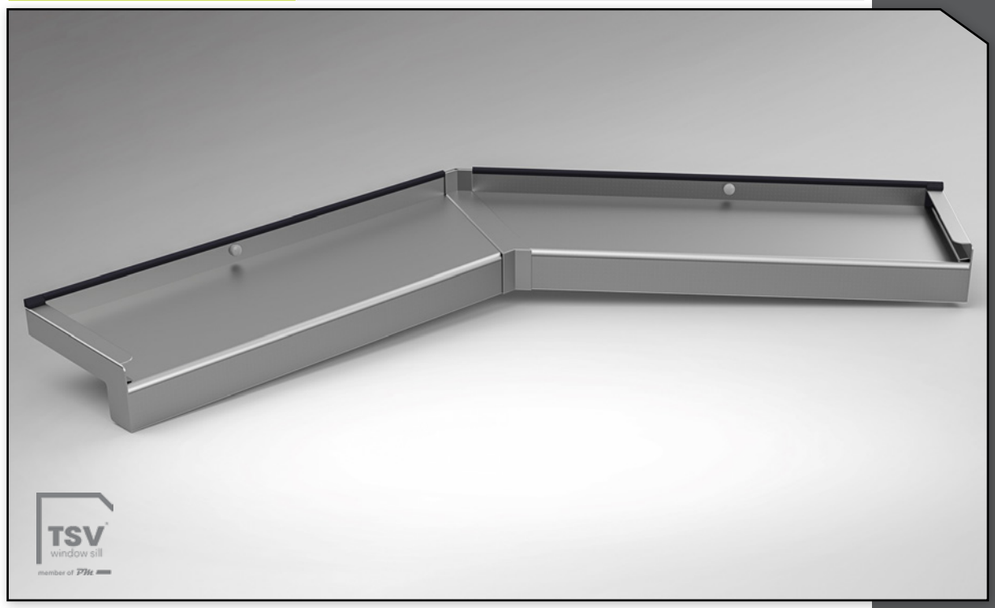
CORNER CONNECTORS

135° INTERIOR - 40 mm rim





Product name:	**CORNER CONNECTORS - angle of 135° INTERIOR**
Benefits Characteristics:	The **TSV** corner connectors are produced with high-precision aluminium extrusion process, by which aluminium alloy material type AA 6061, is forced through a die with a specific cross – section profile provided with a sealing gasket, which acts as a water penetration sealing system. We recommend the corner connectors to be mounted on the exterior, for the angle joints between the **40 mm** rim aluminium window sills, mounted at an **inner angle of 135°.** Ensures a perfect combination both aesthetically and functionally.
Available colors Finished surface:	RAL 9016, RAL 8019, RAL 8003, RAL 7016 E6/EV1, E6/C32, E6/C33 *custom coatings are available for delivery on request
Available sizes according to nominal width of TSV window sills:	*50 mm* | *150 mm* | *225 mm* | *320 mm* *70 mm* | *165 mm* | *240 mm* | *340 mm* *90 mm* | *180 mm* | *260 mm* | *360 mm* *110 mm* | *195 mm* | *280 mm* | *380 mm* *130 mm* | *210 mm* | *300 mm* | *400 mm*
Packing unit:	10 pieces / box.



TECHNICAL SPECIFICATIONS

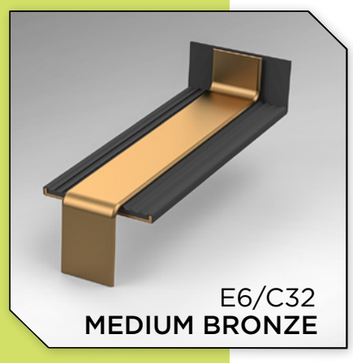
CORNER CONNECTORS
135° interior

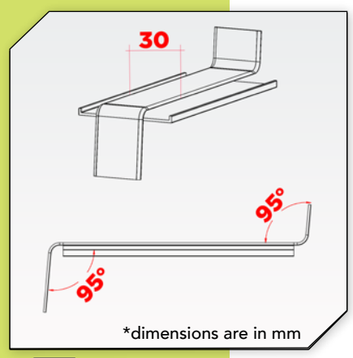
TSV corner connectors are designed to be mounted at an angle of 5°, similar to the inclination of the TSV window sill.
The upper part with a width of 30 mm, allows the masking of angular deviations resulting from cutting the aluminium window sill.

When using the TSV corner connectors, we recommend installing the window sill accordingly to the *mounting instructions described on the product catalogue – page no.64.*

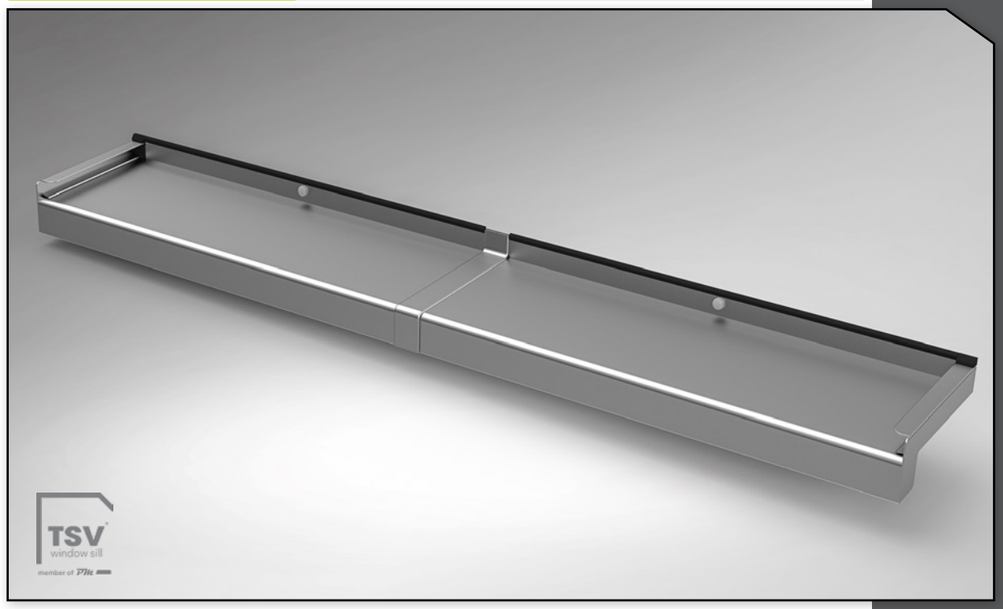
CORNER CONNECTORS

coupling 180º - 40 mm rim





Product name:	**CORNER CONNECTORS - angle of 180º**
Benefits Characteristics:	The **TSV** corner connectors are produced with high-precision aluminium extrusion process, by which aluminium alloy material type AA 6061, is forced through a die with a specific cross – section profile provided with a sealing gasket, which acts as a water penetration sealing system. We recommend the corner connectors to be mounted on the exterior, for the angle joints between the **40 mm** rim aluminium window sills, mounted at an **coupling angle of 180°**. Ensures a perfect combination both aesthetically and functionally.
Available colors Finished surface:	RAL 9016, RAL 8019, RAL 8003, RAL 7016 E6/EV1, E6/C32, E6/C33 *custom coatings are available for delivery on request
Available sizes according to nominal width of TSV window sills:	*50 mm* / *70 mm* / *90 mm* / *110 mm* / *130 mm* / *150 mm* / *165 mm* / *180 mm* / *195 mm* / *210 mm* / *225 mm* / *240 mm* / *260 mm* / *280 mm* / *300 mm* / *320 mm* / *340 mm* / *360 mm* / *380 mm* / *400 mm*
Packing unit:	10 pieces / box.

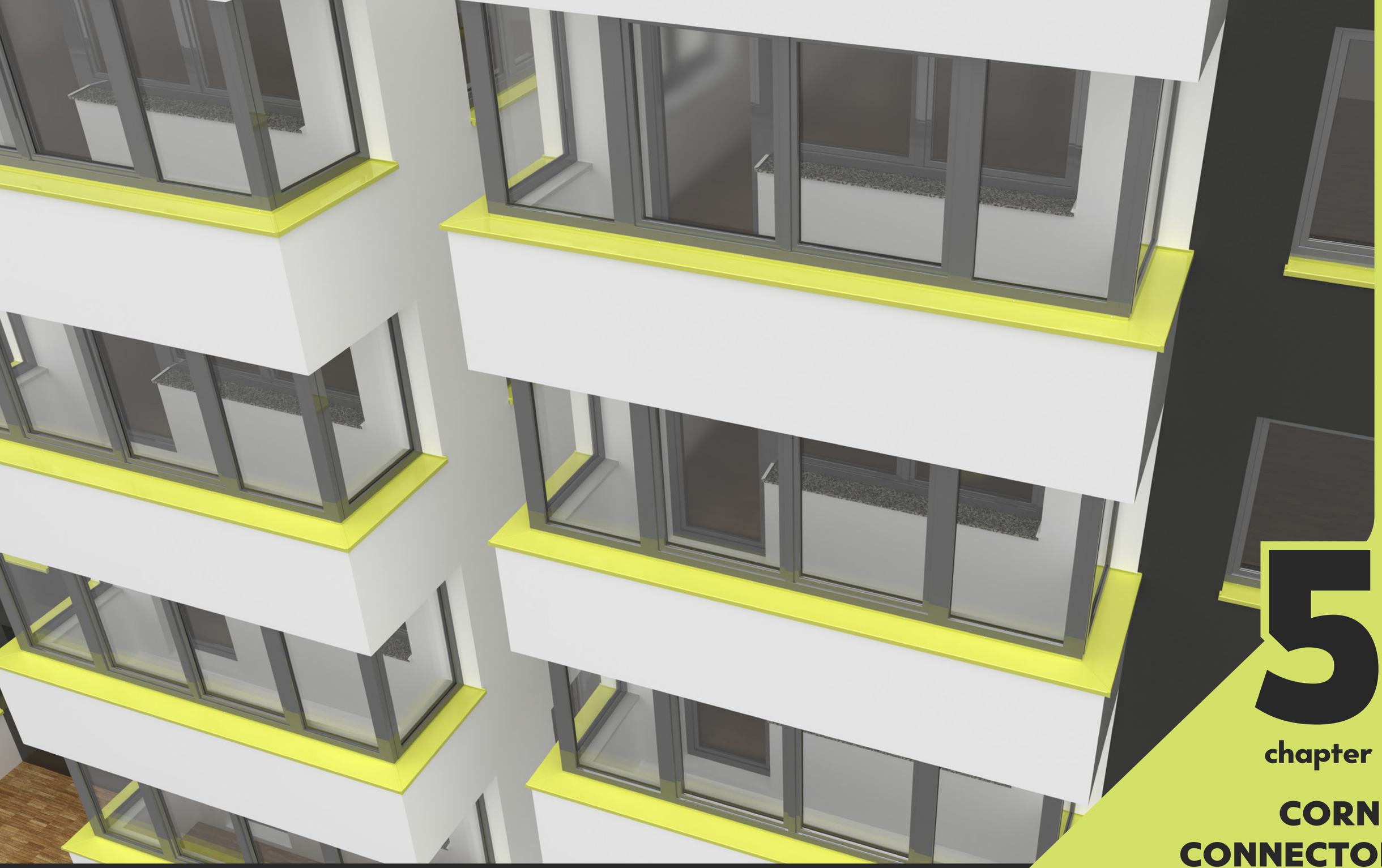


TECHNICAL SPECIFICATIONS

CORNER CONNECTORS
coupling angle 180º

TSV corner connectors are designed to be mounted at an angle of 5°, similar to the inclination of the TSV window sill.
The upper part with a width of 30 mm, allows the masking of angular deviations resulting from cutting the aluminium window sill.

When using the TSV corner connectors, we recommend installing the window sill accordingly to the *mounting instructions described on the product catalogue – page no.64.*



5

chapter

CORNER CONNECTORS

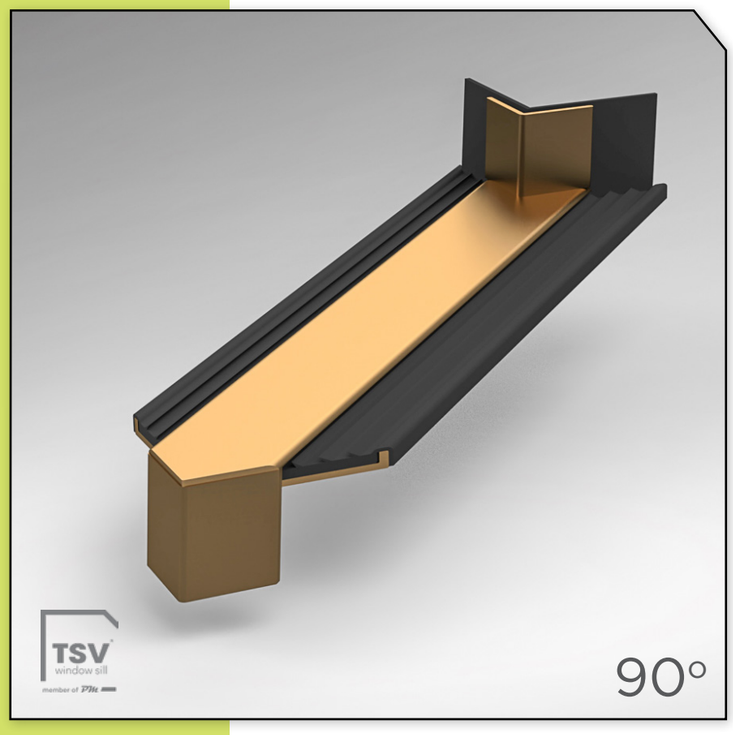
at an angle of 90°, 135°, 180°

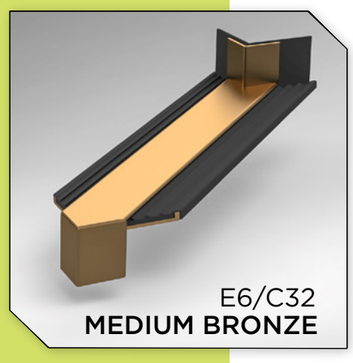
for 25 mm aluminium window sill

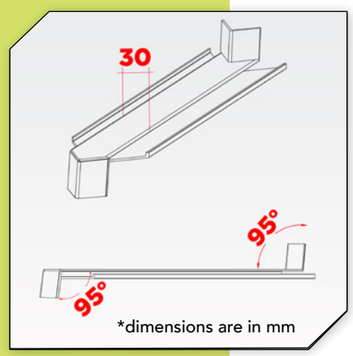
Made of high quality aluminum, resistant to variable weather conditions and the effects of the passing of time.
Very easy to install and maintain.

CORNER CONNECTORS

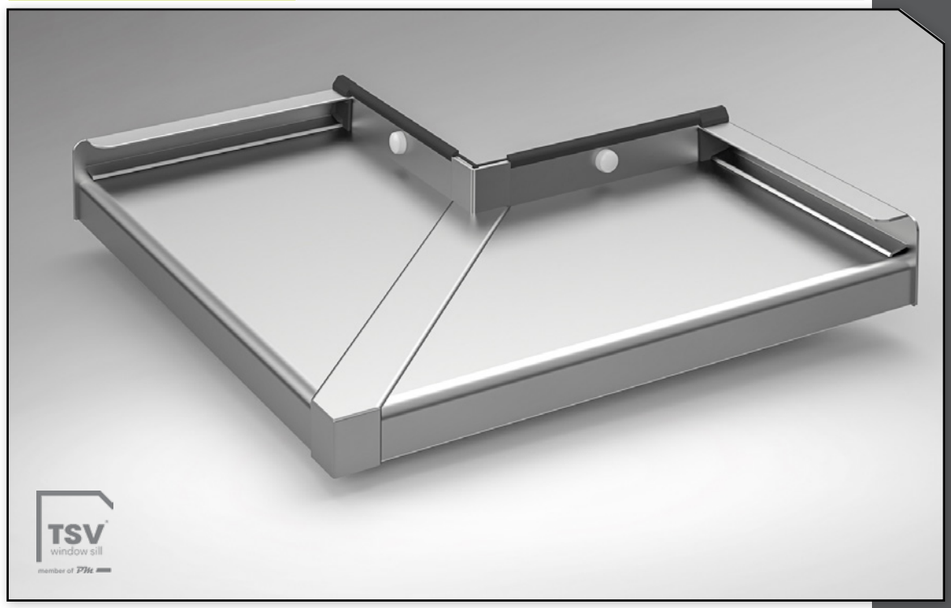
90° EXTERIOR - 25 mm rim







Product name:	**CORNER CONNECTORS - angle of 90° EXTERIOR**
Benefits Characteristics:	The **TSV** corner connectors are produced with high-precision aluminium extrusion process, by which aluminium alloy material type AA 6061, is forced through a die with a specific cross – section profile provided with a sealing gasket, which acts as a water penetration sealing system. We recommend the corner connectors to be mounted on the exterior, for the angle joints between the **25 mm** rim aluminium window sills, mounted at an **outer angle of 90°.** Ensures a perfect combination both aesthetically and functionally.
Available colors Finished surface:	RAL 9016, RAL 8019, RAL 8003, RAL 7016 E6/EV1, E6/C32, E6/C33 *custom coatings are available for delivery on request
Available sizes according to nominal width of TSV window sills:	*50 mm* / *70 mm* / *90 mm* / *110 mm* / *130 mm* *150 mm* / *165 mm* / *180 mm* / *195 mm* / *210 mm* *225 mm* / *240 mm* / *260 mm* / *280 mm* / *300 mm* *320 mm* / *340 mm* / *360 mm* / *380 mm* / *400 mm*
Packing unit:	10 pieces / box.



TECHNICAL SPECIFICATIONS

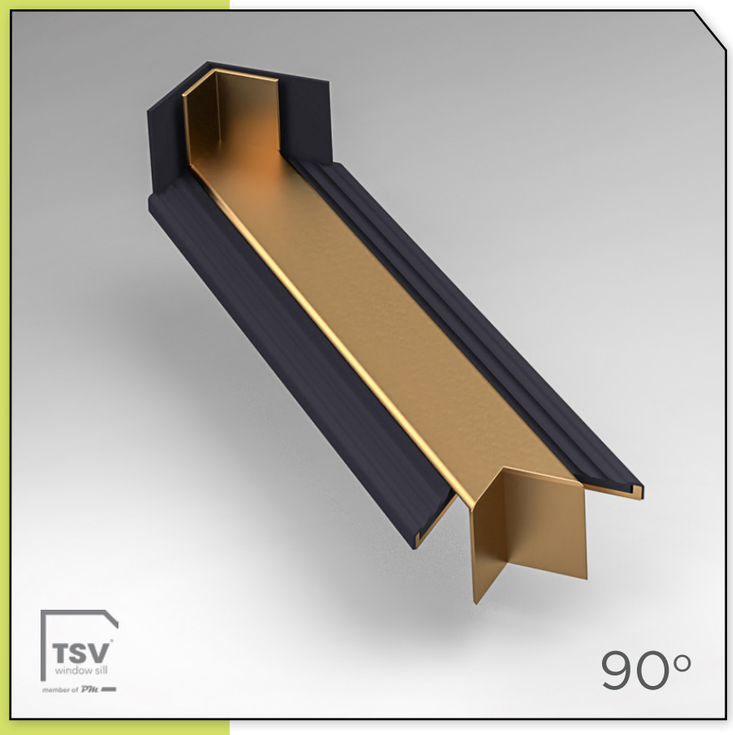
CORNER CONNECTORS
90° exterior

TSV corner connectors are designed to be mounted at an angle of 5°, similar to the inclination of the TSV window sill.
The upper part with a width of 30 mm, allows the masking of angular deviations resulting from cutting the aluminium window sill.

When using the TSV corner connectors, we recommend installing the window sill accordingly to the *mounting instructions described on the product catalogue – page no.64.*

CORNER CONNECTORS

90° INTERIOR - 25 mm rim



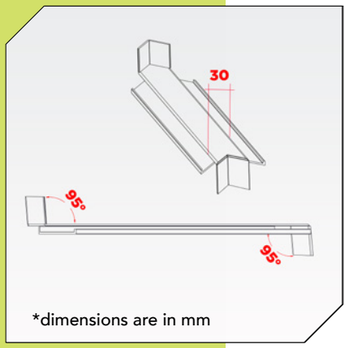

RAL 9016
WHITE


RAL 7016
ANTHRACITE GREY


E6/C32
MEDIUM BRONZE


E6/EV 1
SILVER


RAL 8003
BROWN CLAY

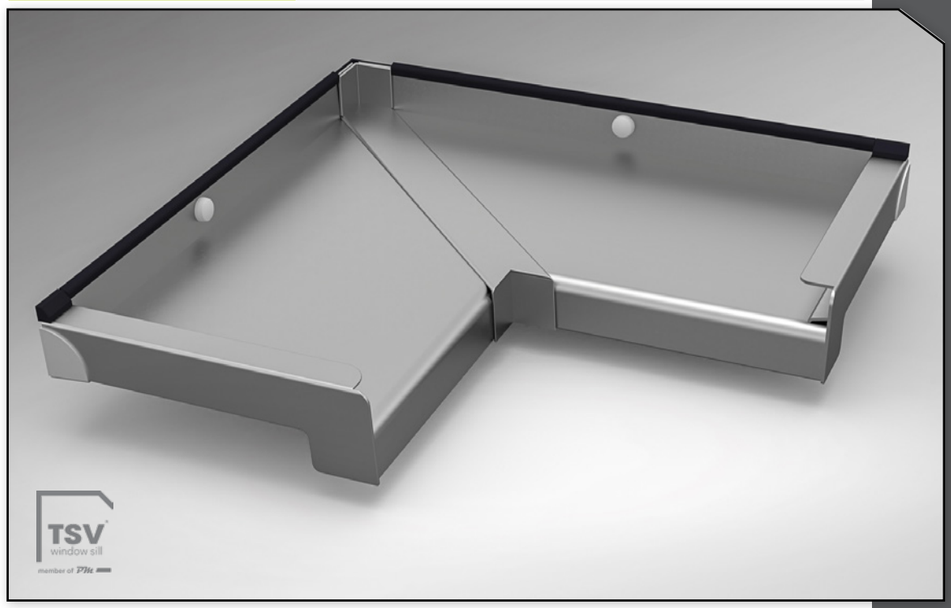


*dimensions are in mm


E6/C33
DARK BRONZE


RAL 8019
BROWN GREY

Product name:	**CORNER CONNECTORS - angle of 90° INTERIOR**
Benefits Characteristics:	The **TSV** corner connectors are produced with high-precision aluminium extrusion process, by which aluminium alloy material type AA 6061, is forced through a die with a specific cross – section profile provided with a sealing gasket, which acts as a water penetration sealing system. We recommend the corner connectors to be mounted on the exterior, for the angle joints between the **25 mm** rim aluminium window sills, mounted at an **inner angle of 90°.** Ensures a perfect combination both aesthetically and functionally.
Available colors Finished surface:	RAL 9016, RAL 8019, RAL 8003, RAL 7016 E6/EV1, E6/C32, E6/C33 *custom coatings are available for delivery on request
Available sizes according to nominal width of TSV window sills:	*50 mm* | *150 mm* | *225 mm* | *320 mm* *70 mm* | *165 mm* | *240 mm* | *340 mm* *90 mm* | *180 mm* | *260 mm* | *360 mm* *110 mm* | *195 mm* | *280 mm* | *380 mm* *130 mm* | *210 mm* | *300 mm* | *400 mm*
Packing unit:	10 pieces / box.



TECHNICAL SPECIFICATIONS

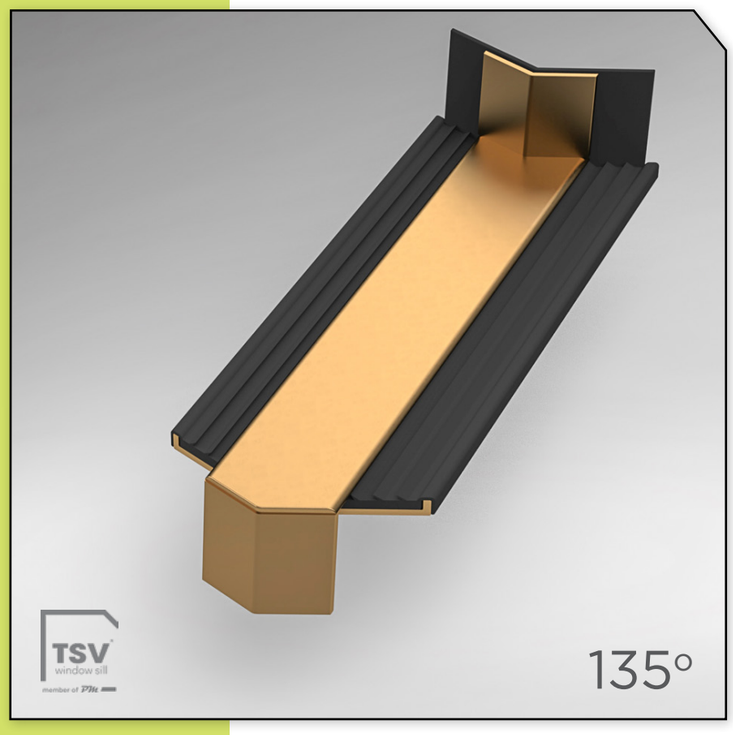
CORNER CONNECTORS
90° interior

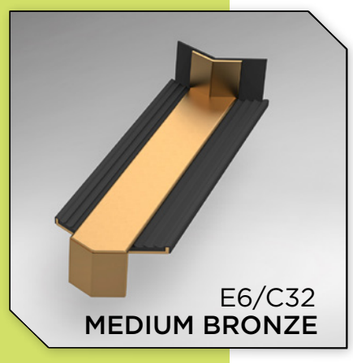
TSV corner connectors are designed to be mounted at an angle of 5°, similar to the inclination of the TSV window sill.
The upper part with a width of 30 mm, allows the masking of angular deviations resulting from cutting the aluminium window sill.

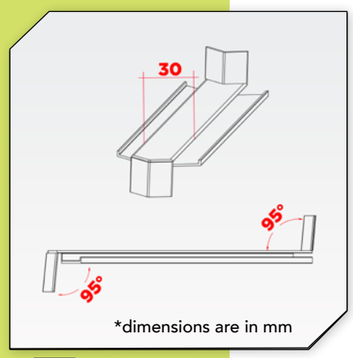
When using the TSV corner connectors, we recommend installing the window sill accordingly to the *mounting instructions described on the product catalogue – page no.64.*

CORNER CONNECTORS

135° EXTERIOR - 25 mm rim







Product name:	**CORNER CONNECTORS - angle of 135° EXTERIOR**
Benefits Characteristics:	The **TSV** corner connectors are produced with high-precision aluminium extrusion process, by which aluminium alloy material type AA 6061, is forced through a die with a specific cross – section profile provided with a sealing gasket, which acts as a water penetration sealing system. We recommend the corner connectors to be mounted on the exterior, for the angle joints between the **25 mm** rim aluminium window sills, mounted at an **outer angle of 135°.** Ensures a perfect combination both aesthetically and functionally.
Available colors Finished surface:	RAL 9016, RAL 8019, RAL 8003, RAL 7016 E6/EV1, E6/C32, E6/C33 *custom coatings are available for delivery on request
Available sizes according to nominal width of TSV window sills:	*50 mm* | *150 mm* | *225 mm* | *320 mm* *70 mm* | *165 mm* | *240 mm* | *340 mm* *90 mm* | *180 mm* | *260 mm* | *360 mm* *110 mm* | *195 mm* | *280 mm* | *380 mm* *130 mm* | *210 mm* | *300 mm* | *400 mm*
Packing unit:	10 pieces / box.

TECHNICAL SPECIFICATIONS

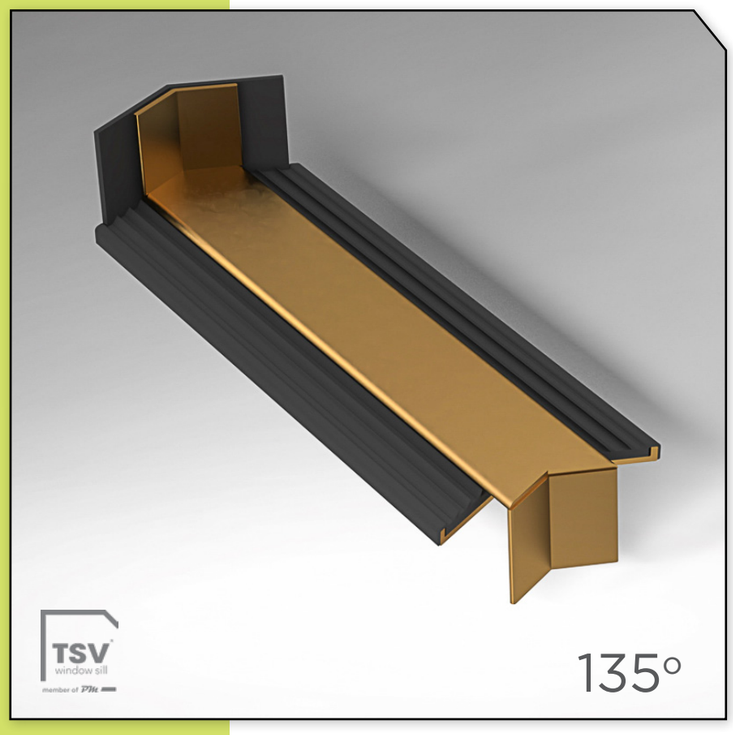
CORNER CONNECTORS
135° exterior

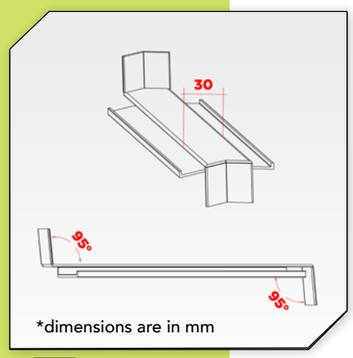
TSV corner connectors are designed to be mounted at an angle of 5°, similar to the inclination of the TSV window sill.
The upper part with a width of 30 mm, allows the masking of angular deviations resulting from cutting the aluminium window sill.

When using the TSV corner connectors, we recommend installing the window sill accordingly to the *mounting instructions described on the product catalogue – page no.64.*

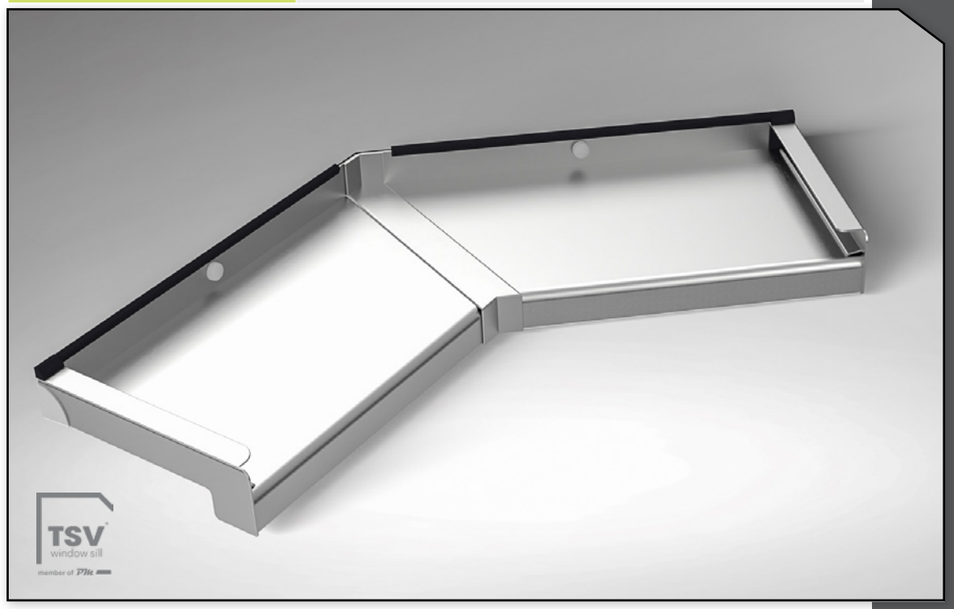
CORNER CONNECTORS

135° INTERIOR - 25 mm rim





Product name:	**CORNER CONNECTORS - angle of 135° INTERIOR**
Benefits Characteristics:	The **TSV** corner connectors are produced with high-precision aluminium extrusion process, by which aluminium alloy material type AA 6061, is forced through a die with a specific cross – section profile provided with a sealing gasket, which acts as a water penetration sealing system. We recommend the corner connectors to be mounted on the exterior, for the angle joints between the **25 mm** rim aluminium window sills, mounted at an **inner angle of 135°.** Ensures a perfect combination both aesthetically and functionally.
Available colors Finished surface:	RAL 9016, RAL 8019, RAL 8003, RAL 7016 E6/EV1, E6/C32, E6/C33 *custom coatings are available for delivery on request
Available sizes according to nominal width of TSV window sills:	*50 mm* | *150 mm* | *225 mm* | *320 mm* *70 mm* | *165 mm* | *240 mm* | *340 mm* *90 mm* | *180 mm* | *260 mm* | *360 mm* *110 mm* | *195 mm* | *280 mm* | *380 mm* *130 mm* | *210 mm* | *300 mm* | *400 mm*
Packing unit:	10 pieces / box.



TECHNICAL SPECIFICATIONS

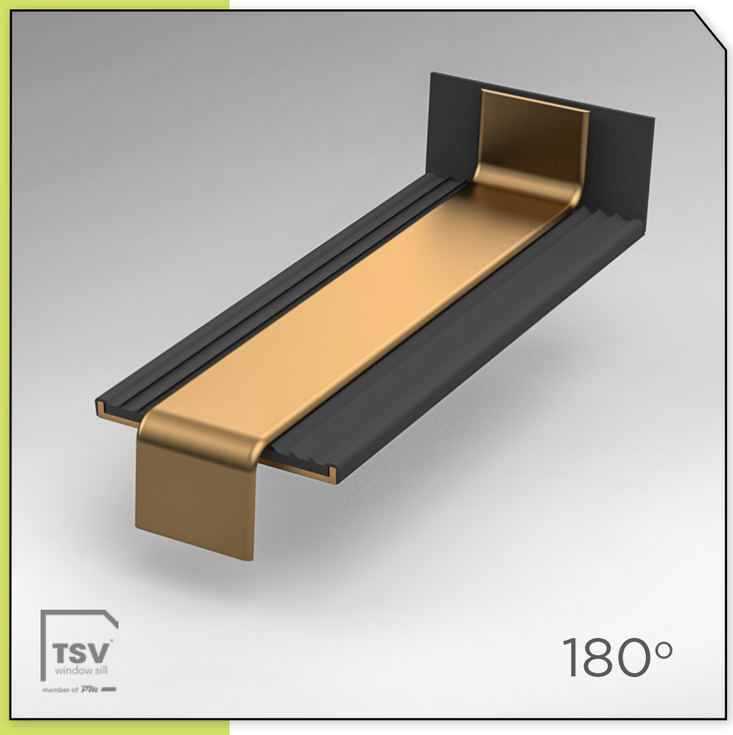
CORNER CONNECTORS
135° interior

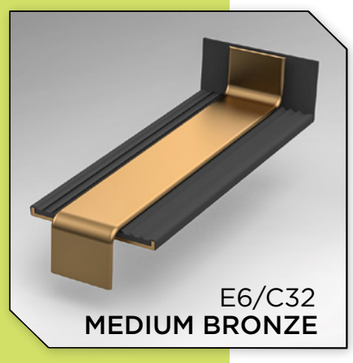
TSV corner connectors are designed to be mounted at an angle of 5°, similar to the inclination of the TSV window sill.
The upper part with a width of 30 mm, allows the masking of angular deviations resulting from cutting the aluminium window sill.

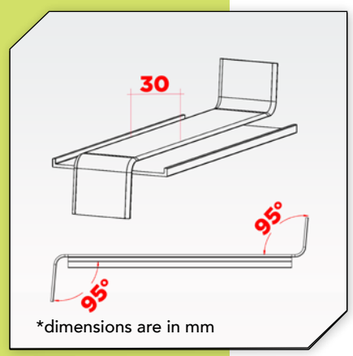
When using the TSV corner connectors, we recommend installing the window sill accordingly to the *mounting instructions described on the product catalogue – page no.64.*

CORNER CONNECTORS

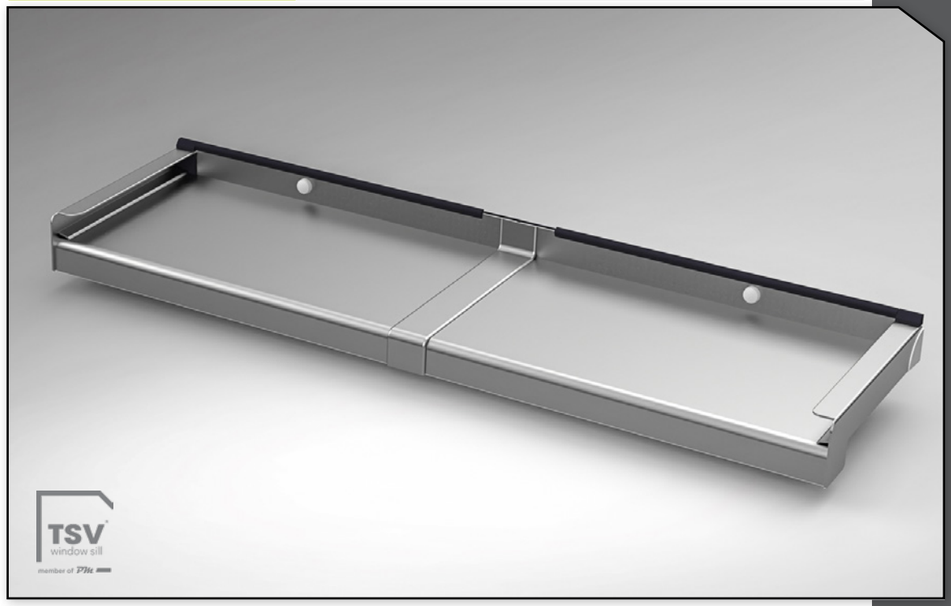
coupling 180° - 25 mm rim







Product name:	**CORNER CONNECTORS - coupling angle of 180°**
Benefits Characteristics:	The **TSV** corner connectors are produced with high-precision aluminium extrusion process, by which aluminium alloy material type AA 6061, is forced through a die with a specific cross – section profile provided with a sealing gasket, which acts as a water penetration sealing system. We recommend the corner connectors to be mounted on the exterior, for the angle joints between the **25 mm** rim aluminium window sills, mounted at an **coupling angle of 180°**. Ensures a perfect combination both aesthetically and functionally.
Available colors Finished surface:	RAL 9016, RAL 8019, RAL 8003, RAL 7016 E6/EV1, E6/C32, E6/C33 *custom coatings are available for delivery on request
Available sizes according to nominal width of TSV window sills:	*50 mm* | *150 mm* | *225 mm* | *320 mm* *70 mm* | *165 mm* | *240 mm* | *340 mm* *90 mm* | *180 mm* | *260 mm* | *360 mm* *110 mm* | *195 mm* | *280 mm* | *380 mm* *130 mm* | *210 mm* | *300 mm* | *400 mm*
Packing unit:	10 pieces / box.



TECHNICAL SPECIFICATIONS

CORNER CONNECTORS
coupling angle 180°

TSV corner connectors are designed to be mounted at an angle of 5°, similar to the inclination of the TSV window sill.
The upper part with a width of 30 mm, allows the masking of angular deviations resulting from cutting the aluminium window sill.

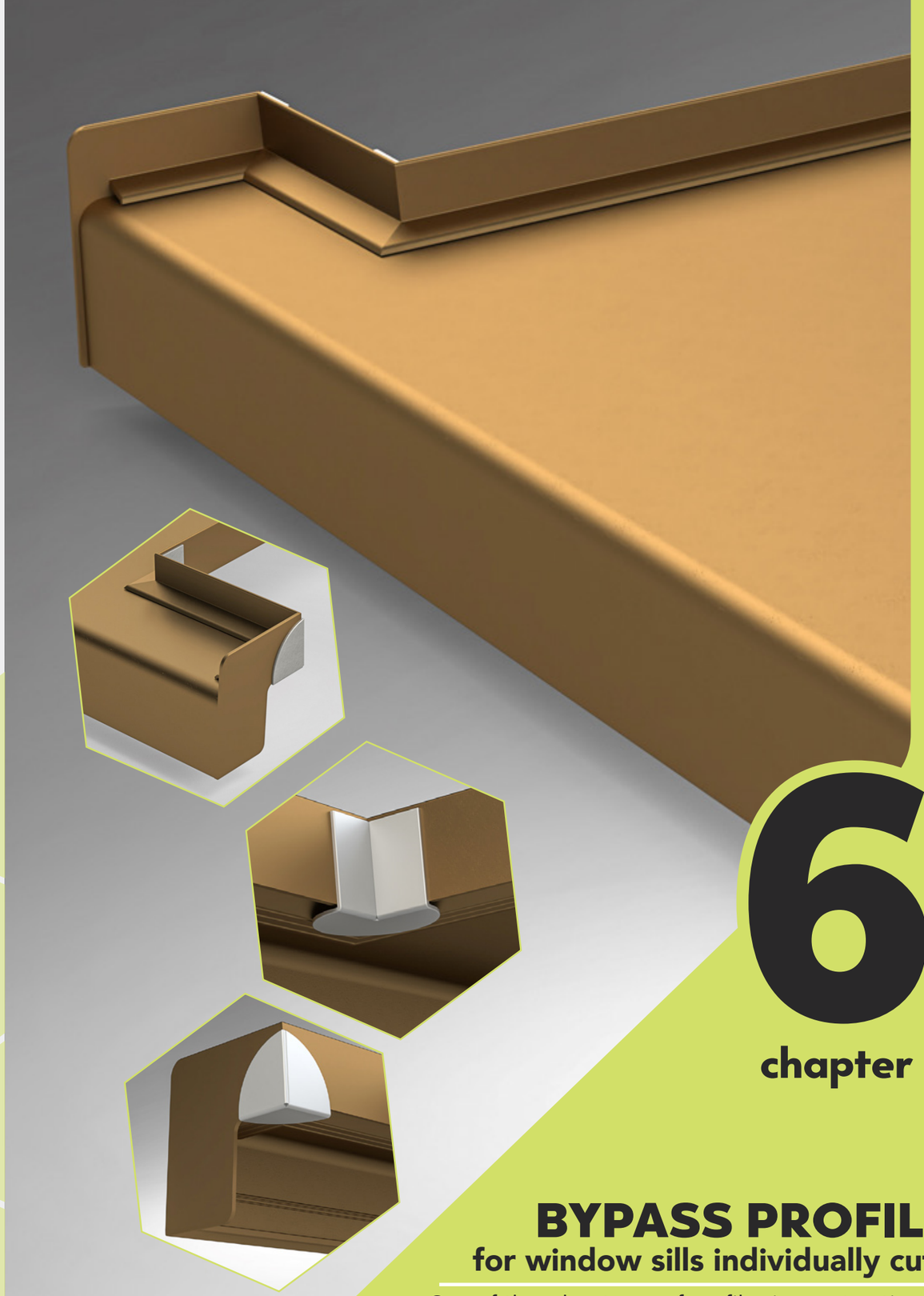
When using the TSV corner connectors, we recommend installing the window sill accordingly to the *mounting instructions described on the product catalogue – page no.64.*

TSV®
window sill

member of PM

You can visit the product on our website

[scan me]



6

chapter

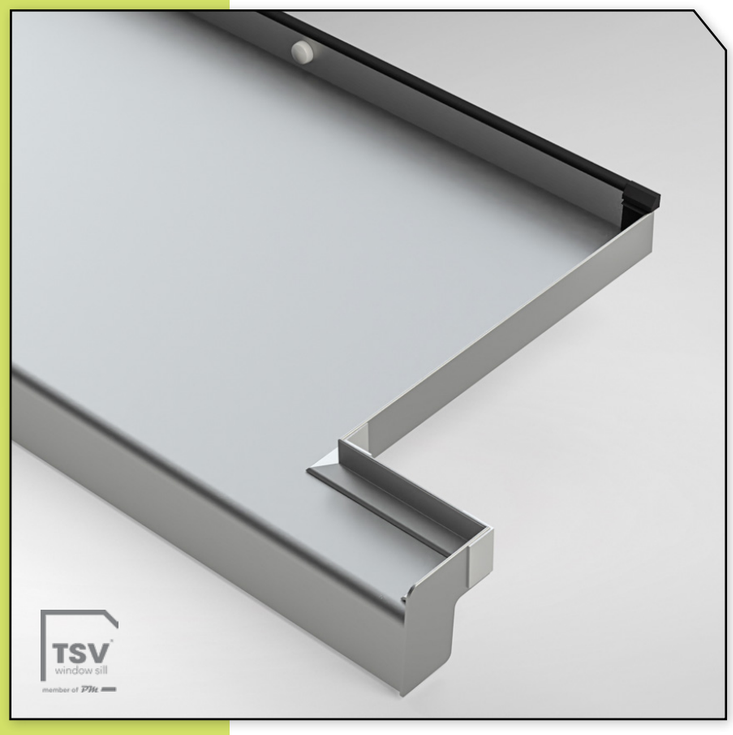
BYPASS PROFILES

for window sills individually cutted

One of the advantages of profiles in construction works is the versatile use when bypassing concrete structures.

BYPASS PROFILES

for individually cutted window sills - type "C" / type "L"



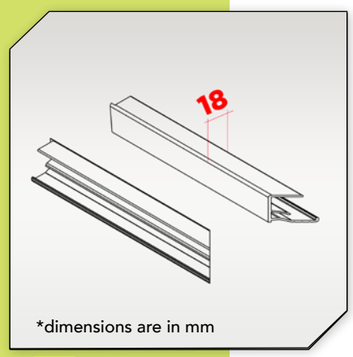
RAL 9016
WHITE

RAL 7016
ANTHRACITE GREY

E6/C32
MEDIUM BRONZE

E6/EV 1
SILVER

RAL 8003
BROWN CLAY

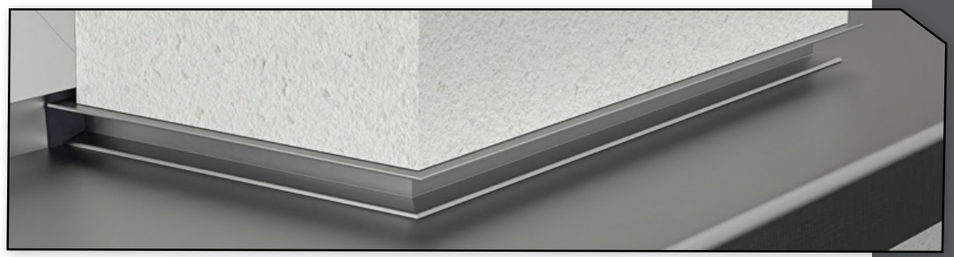


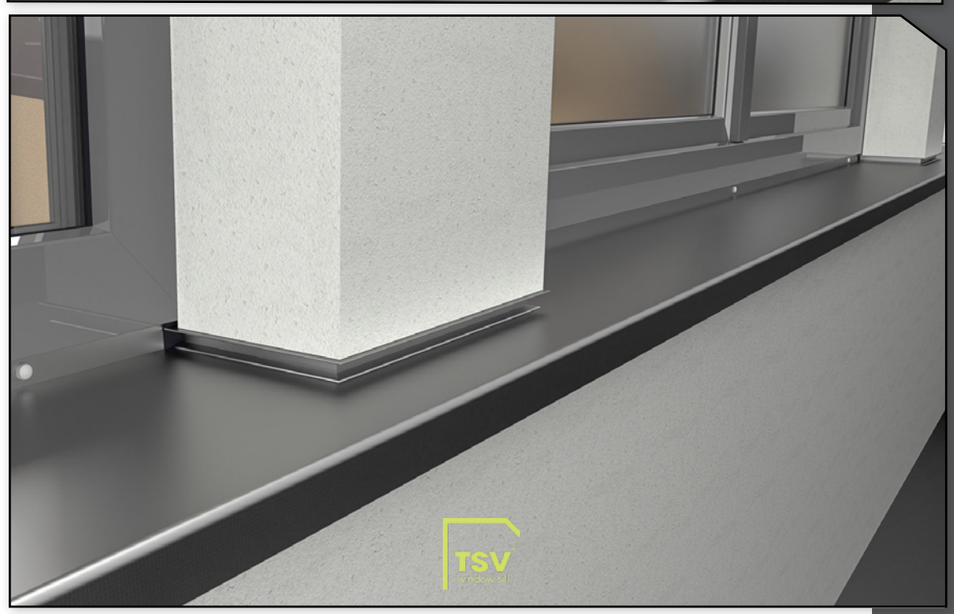
*dimensions are in mm

E6/C33
DARK BRONZE

RAL 8019
BROWN GREY

Product name:	**Bypass profiles type "C" / type "L"**
Benefits Characteristics:	Bypass profiles for individually cutted aluminium window sills are produced with high-precision aluminium extrusion process, by which aluminium alloy material type AA 6061, is forced through a die with a specific cross – section profile For situations where it's necessary to pre-cut the window sill, we recommend the bypass profile to be mounted on the exterior. The aluminium bypass profiles are fixed on the pre-cutted area of the window sills, having an important role for sealing and drainage.
Available colors Finished surface:	RAL 9016, RAL 8019, RAL 8003, RAL 7016 E6/EV1, E6/C32, E6/C33 **custom coatings are available for delivery on request*
Width available:	depends on the necessity





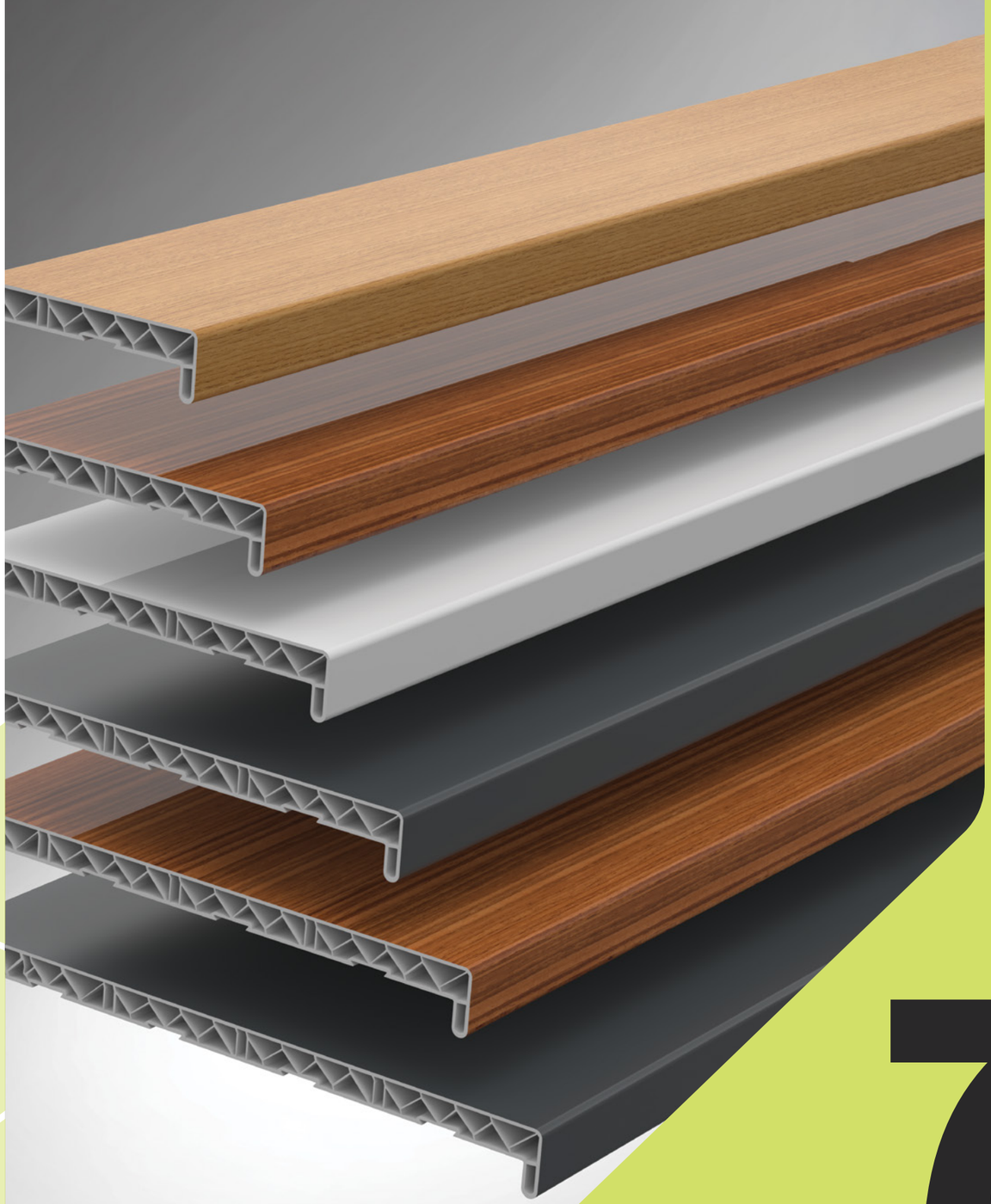
TECHNICAL SPECIFICATIONS

Bypass profiles for aluminium window sills cutted individually

-The **TSV** bypass profile has a clips-on technology, that is similar with the aluminium end caps clips-on systen, which used together with the butyl tape applied on the joints, results in a durable and resistant system against water penetration.

– The adaptation of bypass profiles is done depending on the guidelines of the construction, taking into account the type end covers used – type "C" / "L".

TSV®
window sill
member of PM



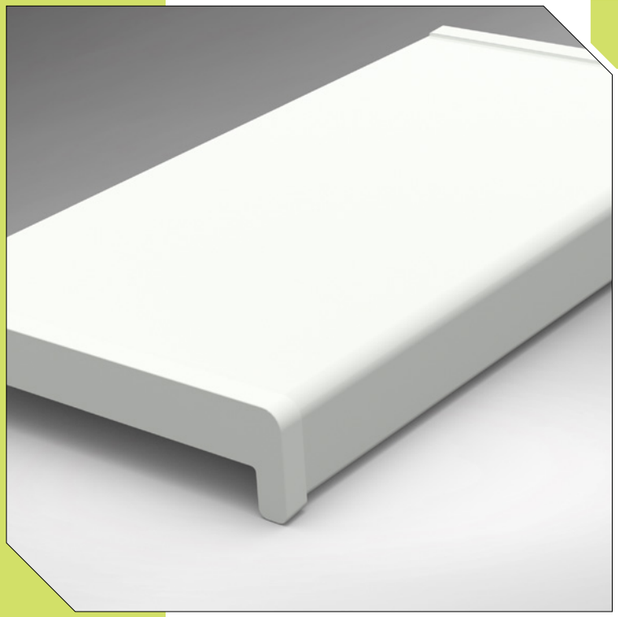
chapter 7

PVC INTERIOR WINDOW SILLS

Scratch resistant, easy to clean and maintain. Their aesthetic benefits complement the complete system and accentuate the window design.

INTERIOR WINDOW SILLS

hot rolled with decorative PVC film



WHITE

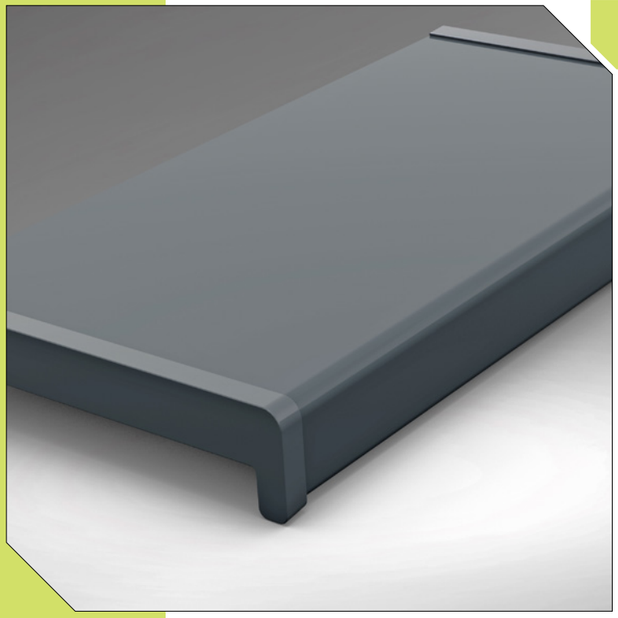
DESCRIPTION:
Interior PVC sills are used to pad/line the lower part of the window in new construction or renovation works.

Interior window sills are easy to fit and improve the aesthetics of buildings.

They are scratch resistant, easy to clean and maintain.

CHARACTERISTICS:
- Sill thickness: **20 mm**;

- Available lengths: **150 mm**
200 mm
250 mm
300 mm
350 mm
400 mm



ANTHRACITE GREY

DESCRIPTION:
The interior sills are made in the form of a cellular structure plate made of extruded rigid PVC, with the visible face hot-laminated with decorative PVC foil

CHARACTERISTICS:
- Sill thickness: **20 mm**;

- Available lengths: **150 mm**
pe stoc **200 mm**
250 mm
300 mm
350 mm
400 mm

INTERIOR WINDOW SILLS

hot rolled with decorative PVC film

GOLD OAK

DESCRIPTION:
PVC sills allow for long-lasting works if the recommendations on installation, maintenance and operation are followed.

CHARACTERISTICS:
- Sill thickness: **20 mm**;

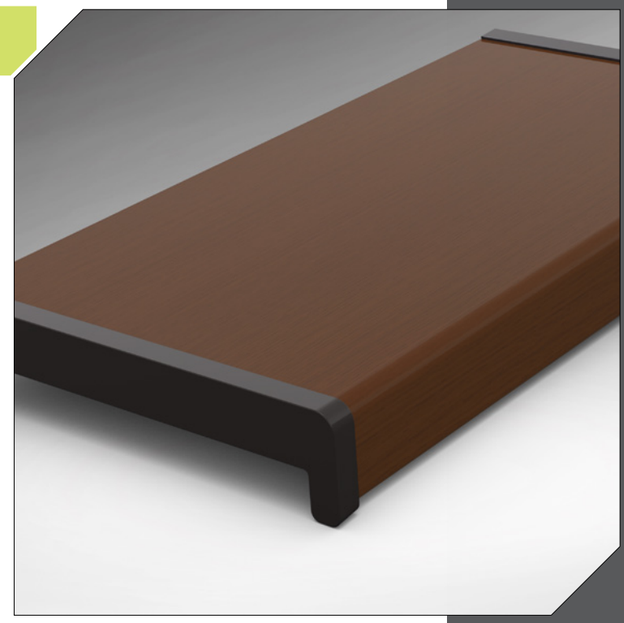
- Available lengths: **150 mm**
200 mm
250 mm
300 mm
350 mm
400 mm

WALNUT

DESCRIPTION:
The essential durability criteria relate to the maintenance over time of the mechanical strength characteristics (impact, bending stress) and the continuity of the PVC decorative film finish layer.

CHARACTERISTICS:
- Sill thickness: **20 mm**;

- Available lengths: **150 mm**
200 mm
250 mm
300 mm
350 mm
400 mm



TSV window sill

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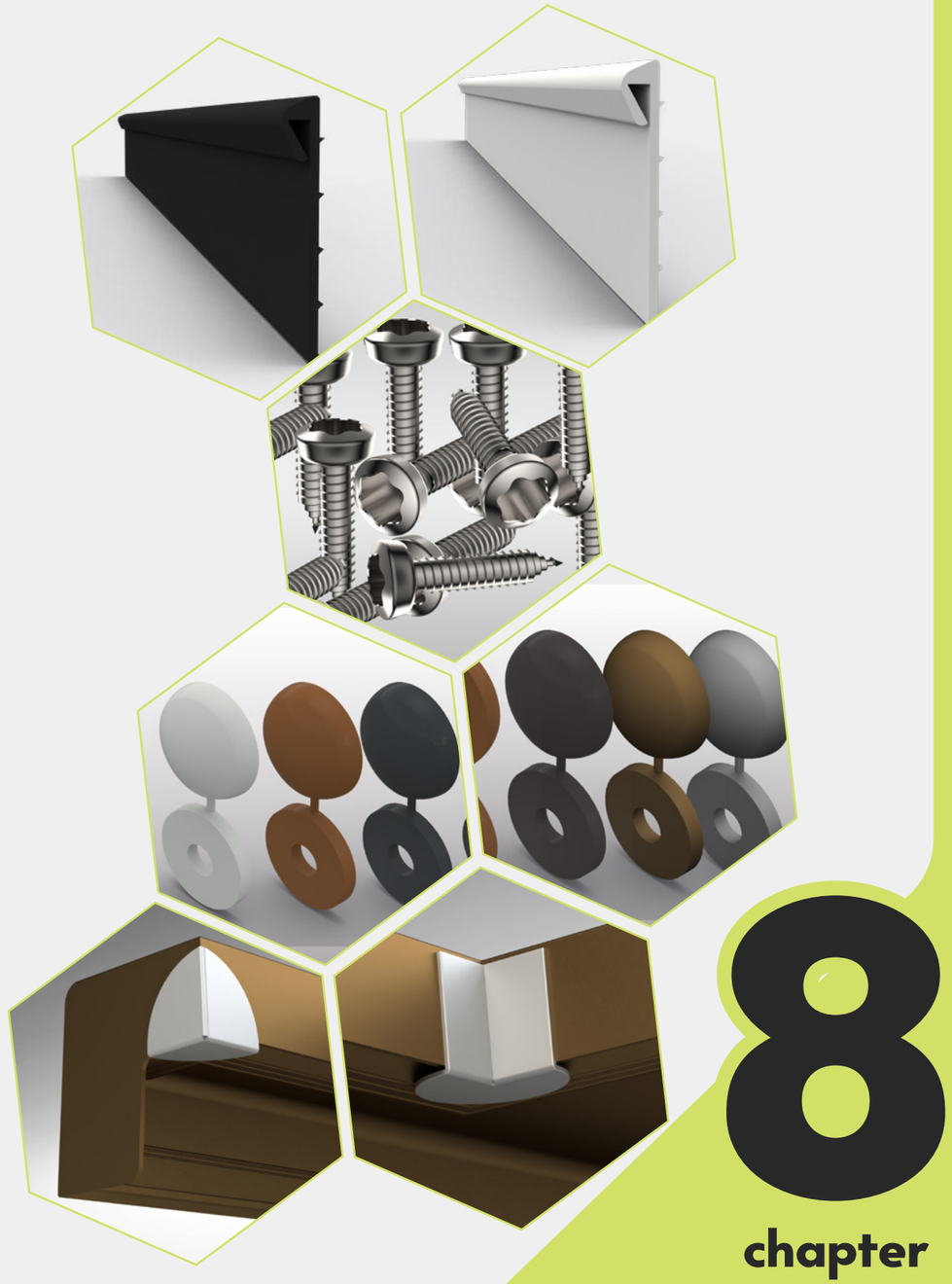


8

chapter

MOUNTING ACCESSORIES

The mounting accessories are an essential parts of the TSV aluminium window system.

MOUNTING ACCESSORIES

self-tapping stainless steel screws
masking caps
sealing gaskets
butyl sealing tape

STAINLESS STEEL SCREWS

TX 20 Self-tapping stainless steel screw 3.9x25 mm

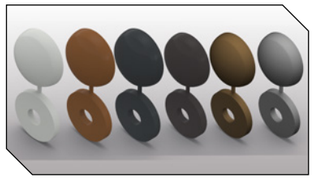
Characteristics:
– low corrosion;
– much firmer tightening than conventional screws;
– prolonged wear resistance – 50 years life;
– low thermal conductivity compared to galvanized screws;
– resistance to shear and traction forces;
– flexibility, resistant to high and low temperatures.

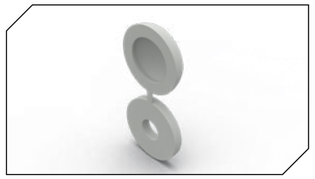
Packing unit: 100 pieces / set

additional assembly details - page no. 64 - sketch no.1 and no.3

MASKING CAPS

Screw Masking Caps





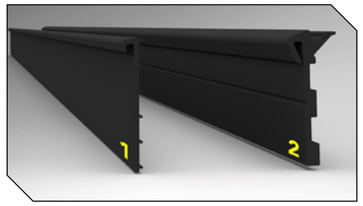
Characteristics:
– specially designed to cover TX20 self-tapping mounting screws – 3.9×25 mm;
– durability – made of ABS;
– easy to apply;
– wide range of colors: RAL7016, RAL8003, RAL8019, RAL9016, SILVER, BRONZE;
– the washer is attached to the body of the masking cap.

Packing unit: 100 pieces / set

additional assembly details - page no. 64 - sketch no.1 and no.3

SEALING GASKETS

Sealing gaskets for aluminium window sills



Characteristics:
– made of EPDM material with a width of 27mm;
– location of use – outside;
– color RAL9005;
– flexibility;
– thermal and chemical resistance;
– easy application on length.

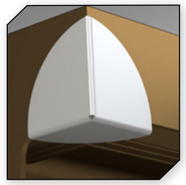
RECOMMENDATIONS:
- Model (1) is used for the situation in which a solban profile is mounted under the window frame.
- Model (2) is used in the situation where a low profile is **NOT** mounted under the window frame.

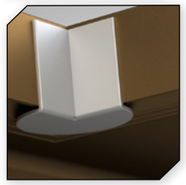
Availability per linear meter.

additional assembly details - pages no. 64, 65 - sketches no.3, no.4

SEALING TAPES

Butyl sealing tape

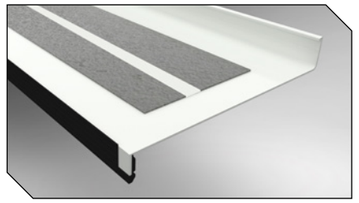




Characteristics:
– made of butyl rubber, and on the outside aluminium foil;
– resistant to UV radiation;
– application temperatures + 5° C – + 40° C;
– thermal resistance -40° C – + 90° C;
– fast adhesion on most materials;
– classification as waterproofing material;
– self-adhesive;
– insulates against water vapor;
– easy application.

Availability per piece: 60×0.7 mm.

Soundproof tape



Characteristics:
– made of bituminous membrane;
– location of use – to be mounted outside;
– self-adhesive;
– durability and endurance over time.

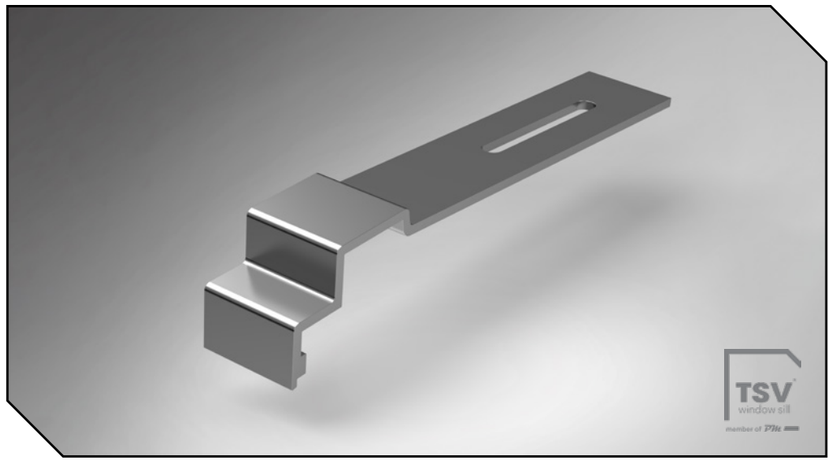
Available sizes:
- 50x1000 mm
- 80x1000 mm
- 100x1000 mm
- 120x1000 mm

additional assembly details - page no. 64 - sketch no.2

MOUNTS FOR STABILISING SILLS INTO MASONRY

For fixing sills on buildings with various types of facades: with decorative-brick walls, plastered, or thermally insulated facades.

Sill-stabilising mount for decorative-brick walls



CHARACTERISTICS:

- manufactured using the high-precision extrusion process, out of an AA6061 alloy;
- high corrosion performance, due to electrostatic coating;
- a 40 x 6 mm slit for fixing the mount into the masonry;
- durability and resistance at high temperatures;
- easy horizontal encasing and fixing onto the fitting surface;

RECOMMENDATIONS:

- it is recommended to use the mount for aluminium sills at least 150 mm wide;

*the stabilising mount applies to facades that do not require plastering and is suitable for new buildings or renovations;
**additional mounting details – page 66

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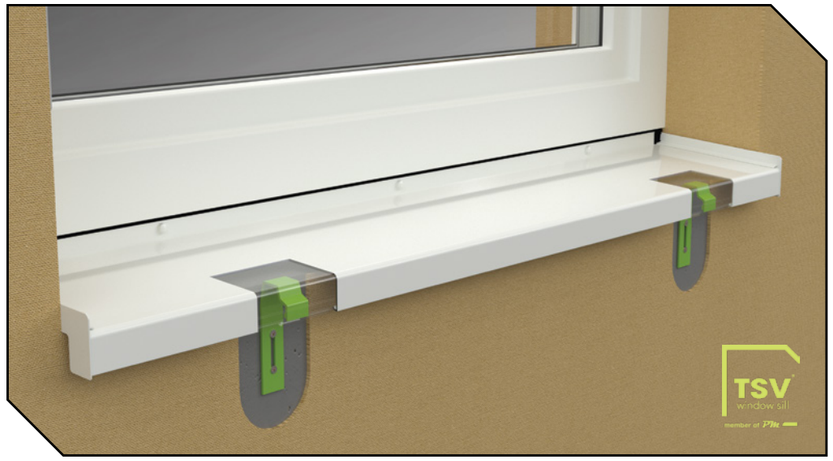
08
MOUNTS FOR STABILISING SILLS INTO MASONRY
For fixing sills on buildings with various types of facades: with decorative-brick walls, plastered, or thermally insulated facades.

Sill-stabilising mount for plastered facades



CHARACTERISTICS:

- manufactured using the high-precision extrusion process, out of an AA6061 alloy;
- high corrosion performance, due to electrostatic coating;
- a 40 x 6 mm slit for vertically fixing the mount into the masonry;
- durability and resistance at high temperatures;
- easy encasing.

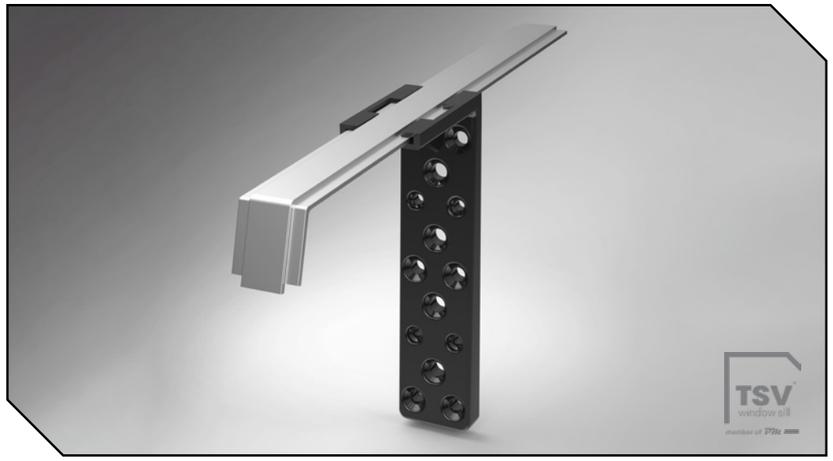
RECOMMENDATIONS:

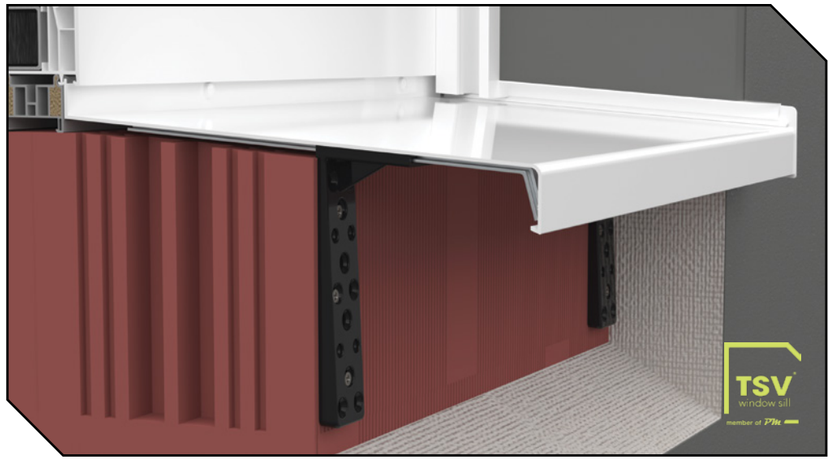
- it is recommended to use the mount for aluminium sills at least 150 mm wide;

*the stabilising mount applies to plastered facades and is suitable for renovations;
**additional mounting details – page 68

SILL-STABILISING MOUNT FOR THERMALLY INSULATED FACADES

Mount for thermally insulated facades





CHARACTERISTICS

- manufactured using the high precision extrusion process, out of an AA6061 alloy;
- high corrosion performance, due to electrostatic coating;
- durability and resistance at high temperatures;
- easy vertical encasing and fixing onto the fitting surface;

RECOMMENDATIONS:

- it is recommended to use the mount for aluminium sills at least 150 mm wide;

*the stabilising mount applies to thermally insulated facades and is suitable for new buildings;
**additional mounting details – page 70

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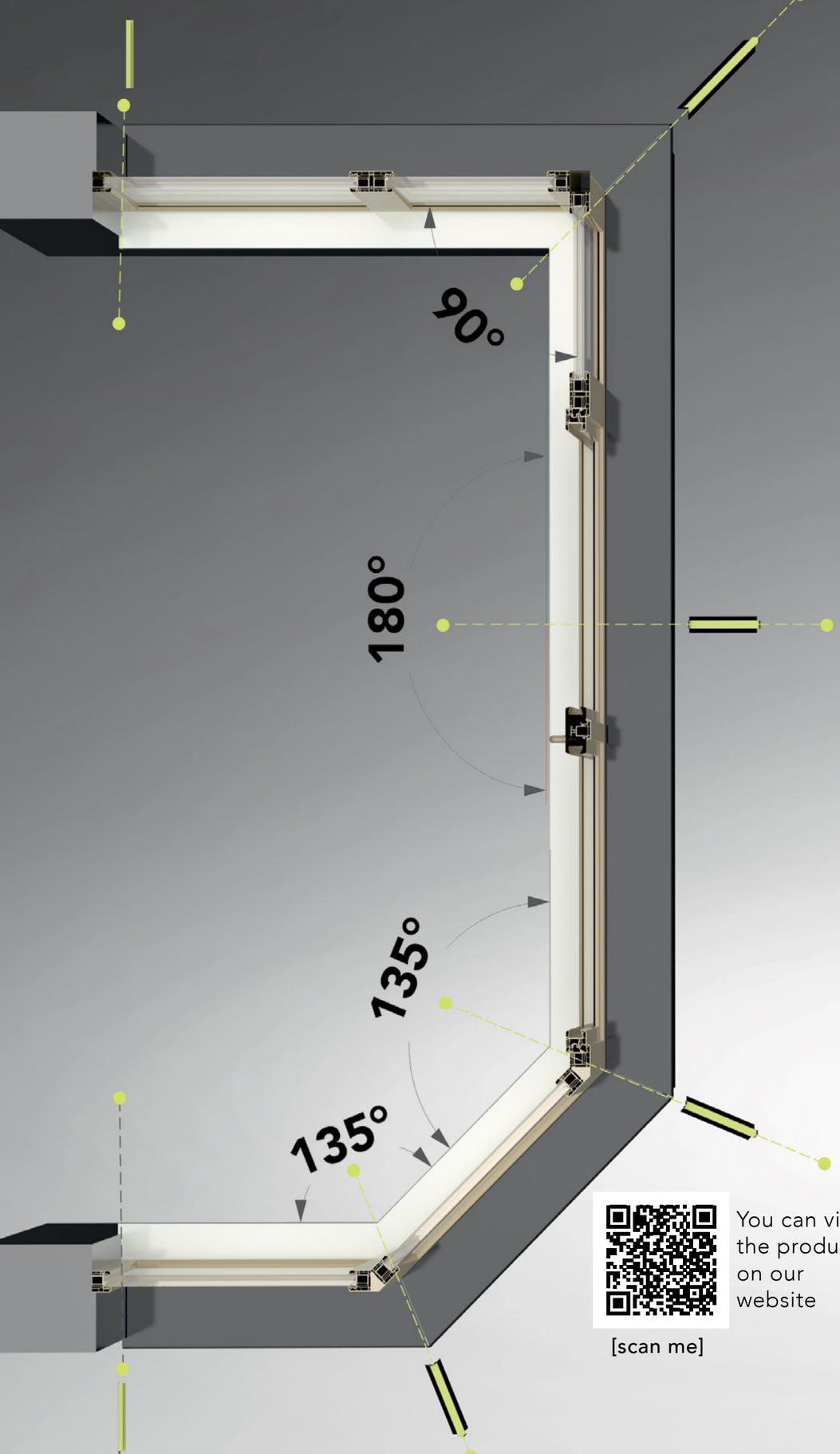
08
SILL-STABILISING MOUNT FOR THERMALLY INSULATED FACADES
Mount for thermally insulated facades

DETAILS:

Mount composed of two elements:

1) Injection-moulded plastic bracket with multiple fastening holes providing greater mounting tolerance, not subject to fixed dimensions;

2) Mount of various lengths made of aluminium profile suited for thermal insulation of various widths within the building



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- Measuring the aluminium window sill
- Preparation of the installation space
- Mounting the aluminium window sill
- How are they maintained?
- General recommendations

9

chapter

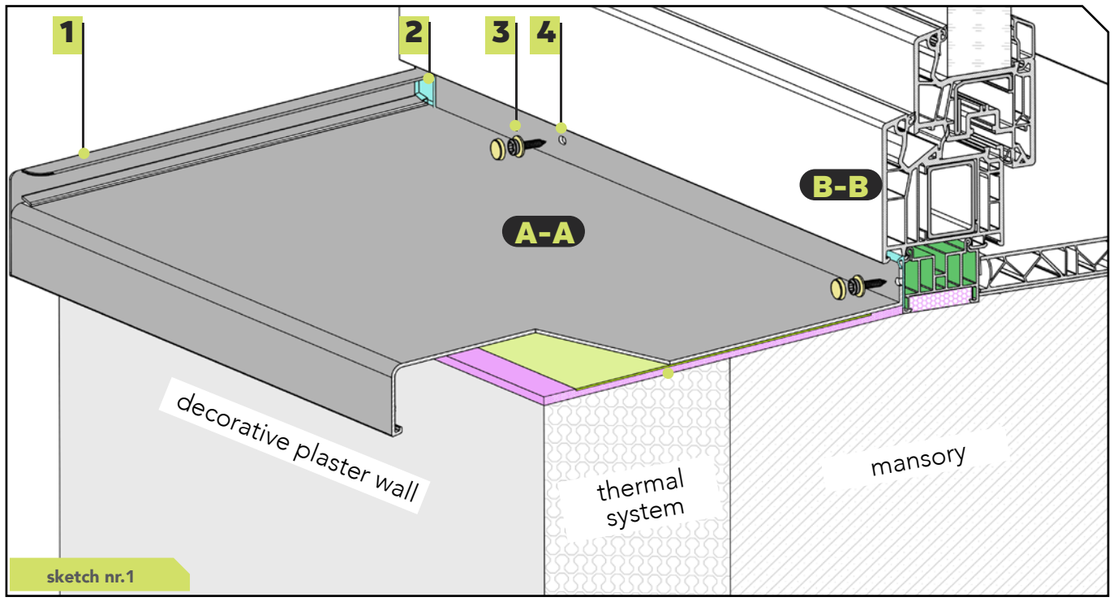
PVC INTERIOR WINDOW SILL MAINTENANCE AND INSTALLATION INSTRUCTIONS

Technical support

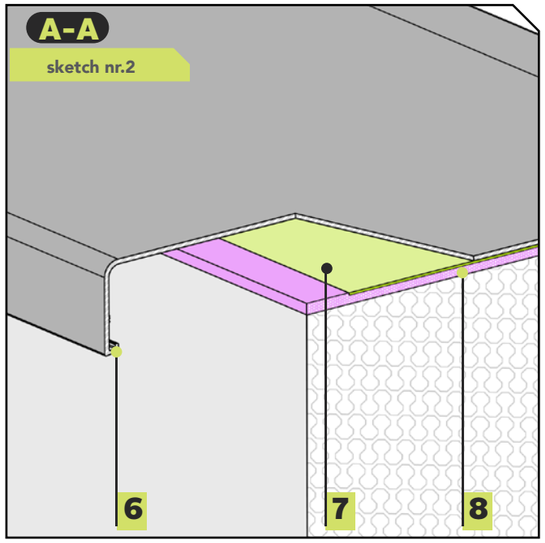
09

INSTRUCTIONS

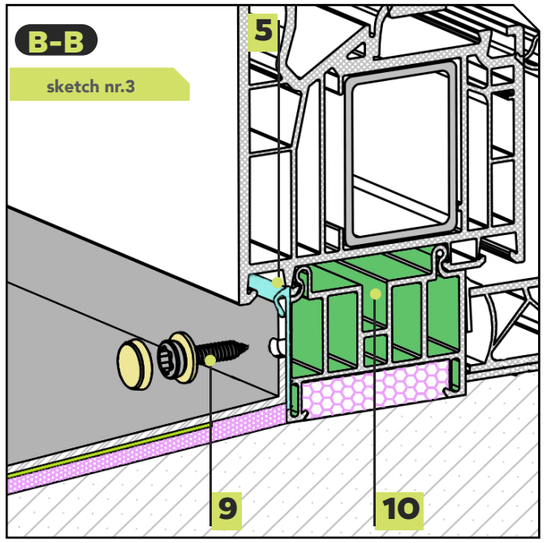
for a professional installation



sketch nr.1



sketch nr.2



sketch nr.3

DESCRIPTION

1. Aluminium End cap type “C”
2. Butyl Sealing Tape
3. ABS Screw Masking Cap
4. Predefined hole 4,2x7 mm
5. EPDM Window sill median gasket
6. TSV Aluminium Window sill - 40 mm rim
7. Soundproof tape
8. Low expansion polyurethane mounting foam
9. Stainless steel self-tapping screw TORX 3.9x25 mm
10. Solbanc profile

DESCRIPTION

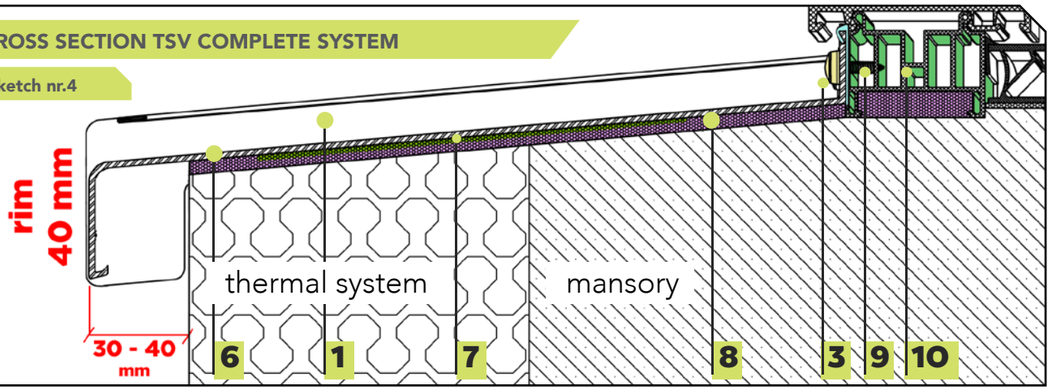
DETAIL

mounting assembly

09

CROSS SECTION TSV COMPLETE SYSTEM

sketch nr.4



Mounting the aluminium window sill

01

- **Measuring the aluminium window sill**

On the preliminary stage of the window sill installment, we recommend to meassure correctly the installation space underneath the window frame.

The measurement of the installation space[1] will have to take into account the decrease of 3 mm from the windows sill measured length, which will be compensated by the applied aluminium end caps.

In order to determine the optimal width of the window sill that needs to be installed, the distance between the solbanc profile and the edge of the building facade shall be measured.

02

- **Preparation of the installation space**

Installation of the aluminium window sill is recommended to be carried out on a surface without unevenness.

For this, the surface of the installation space on which the aluminium window sill will be mounted is prepared, in order to eliminate all the unevenness appeared after the new construction projects, respectively of the mounting adhesives in case of retrofitting projects.

03

- **Mounting the aluminium window sill**

The assembly involves in the **first stage** the application on the window sill of the following components:

1. EPDM gasket on the top of the aluminium window sill, cutted to the required length;
2. aluminium side covers type “C” or type “L” (depending on the final destination of the system);
3. butyl sealing tape, applied to the corners of the end caps;
4. soundproofing tape against the sound from rainfall cutted to the required length.

The **second stage** involves the application of polyurethane foam applied to the horizontal surface of the installation space, followed by the fixation of the window sill to the solbanc profile to the mounting dimensions, with the help of the self-tapping screws protected by the ABS masking caps.

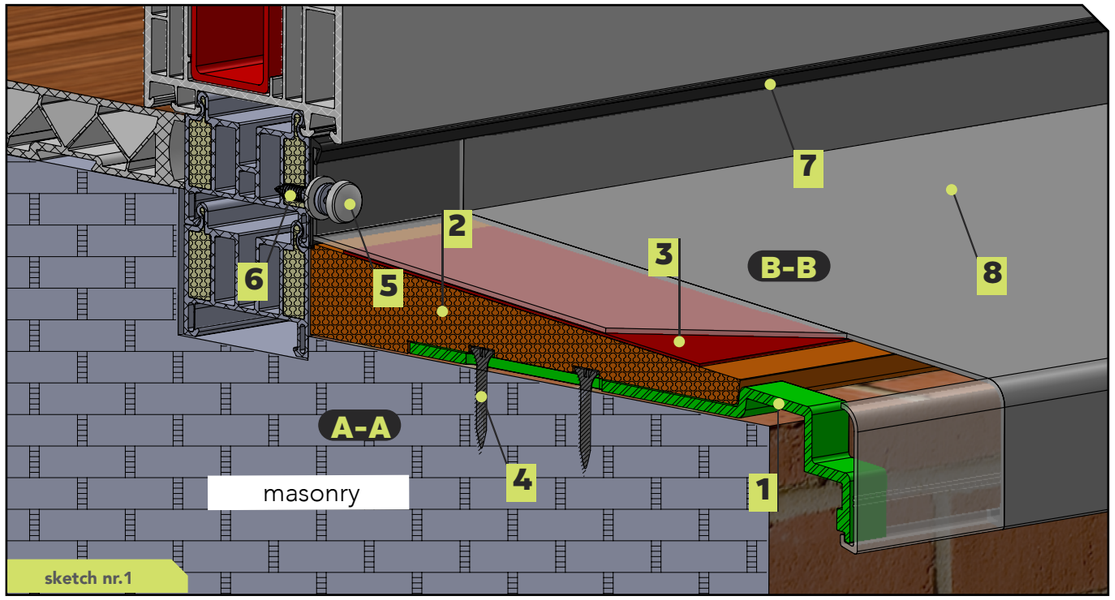
* 1: In the case of new construction projects, take into consideration the use of aluminium end covers type “C” and compare the measured value to the execution details indicated by the design engineer, so that when the installation of the thermo system is finished it will cover the available 18 mm top edge aluminium end cover type “C”. For the instalation of the aluminium end caps type “L”, in case of facade retrofit projects, it’s mandatory to take into consideration the measurement of the existing installation space from one side of the thermal system to the other.

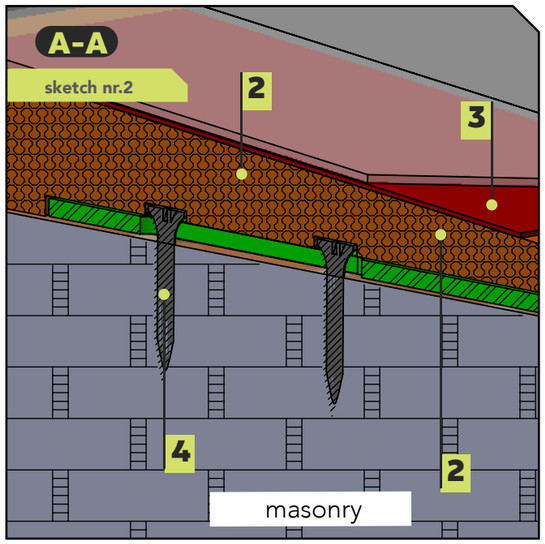
** 2: Self-tapping screws are part of the complete TSV aluminium window assembly system, made from stainless steel TORX type.

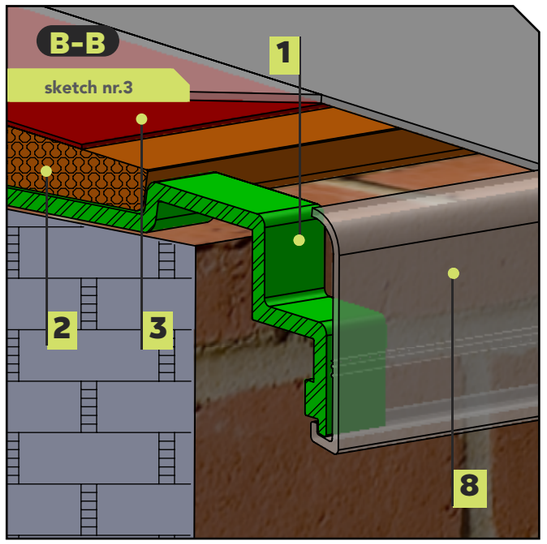
09

INSTRUCTIONS

for the use of sill-stabilising mounts in masonry







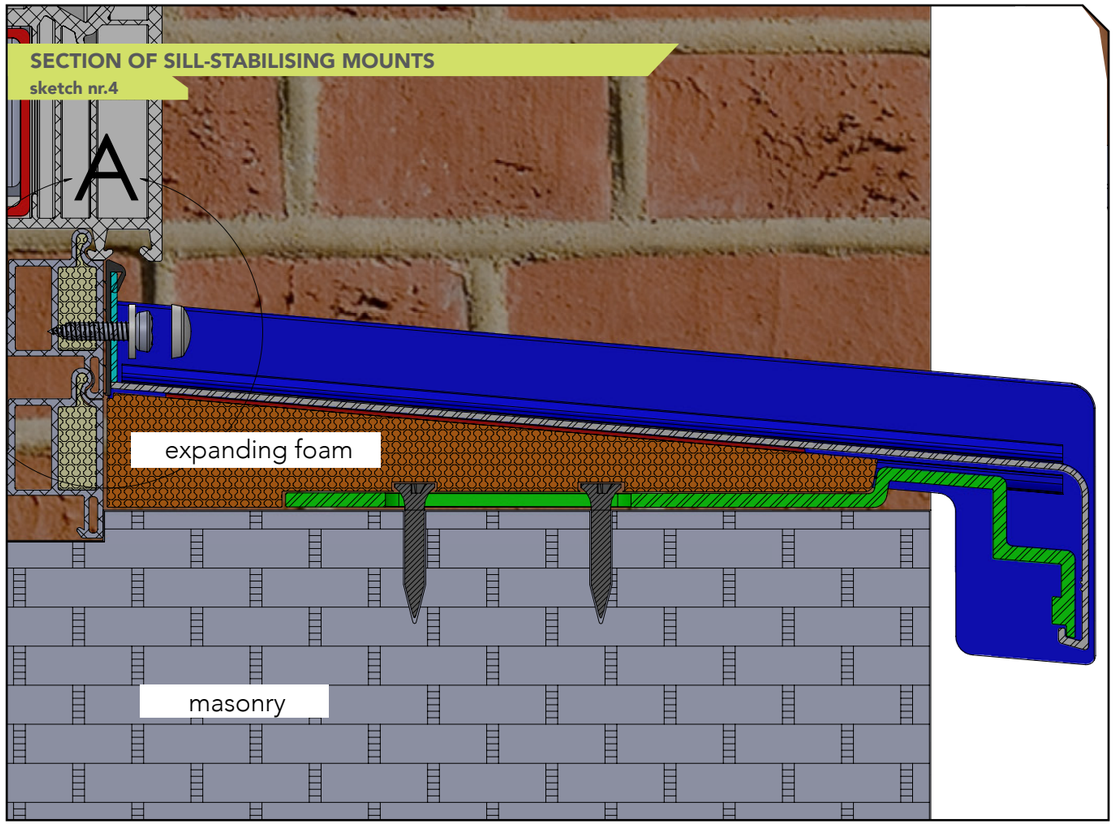
DESCRIPTION

1. Horizontal sill-stabilising mount
2. Low expansion polyurethane mounting foam
3. Soundproof tape
4. Masonry mounting screw
5. ABS Screw Masking Cap
6. Stainless steel self-tapping screw TORX 3.9x25 mm
7. EPDM Window sill median gasket
8. TSV Aluminium Window sill - 40 mm rim

09

DETAIL

mounting assembly



Ways to use sill-stabilising mounts in masonry

The preliminary step in mounting sill-stabilising mounts entails establishing the type of facade on which the sills are to be fixed. The mounts have varying characteristics for quick mounting suitable for the building's various stages of development and for various types of facades: with decorative-brick walls, plastered, or thermally insulated facades.

01

- **Sill-stabilising mount for decorative-brick walls**

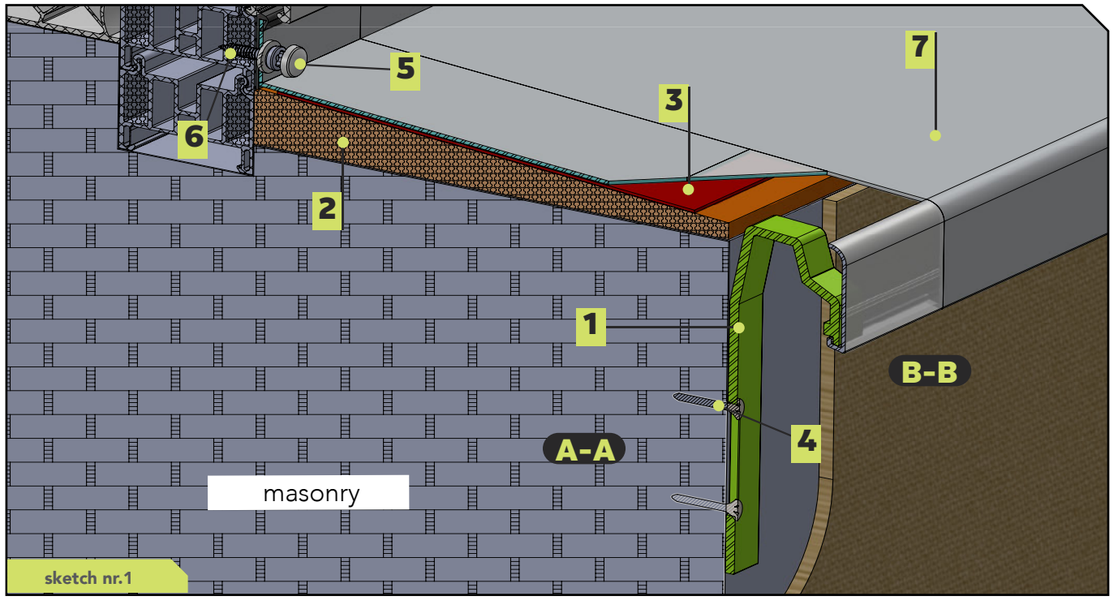
The mount is recommended for **new buildings or renovating existing ones** for mounting aluminium sills at least 150 mm wide. The mount has a 40 x 6 mm slit for fixing it into the masonry.

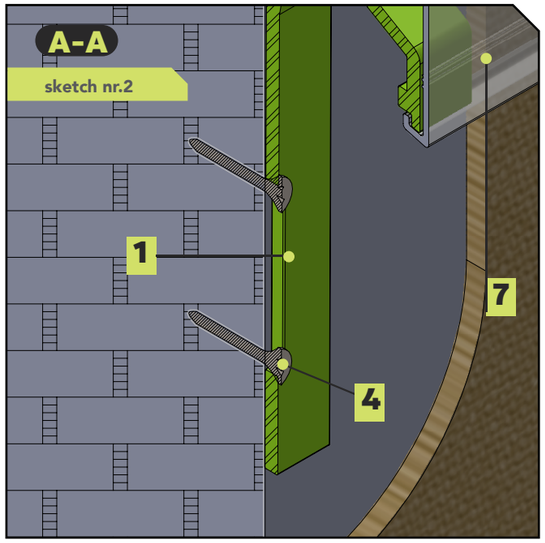
The mount is mounted horizontally under the sill, stabilising it, and does not require works that damage the structure of the decorative-brick wall.

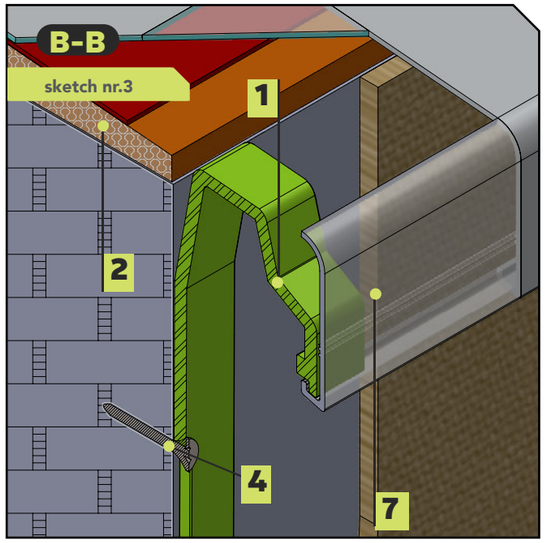
09

INSTRUCTIONS

for the use of sill-stabilising mounts in masonry







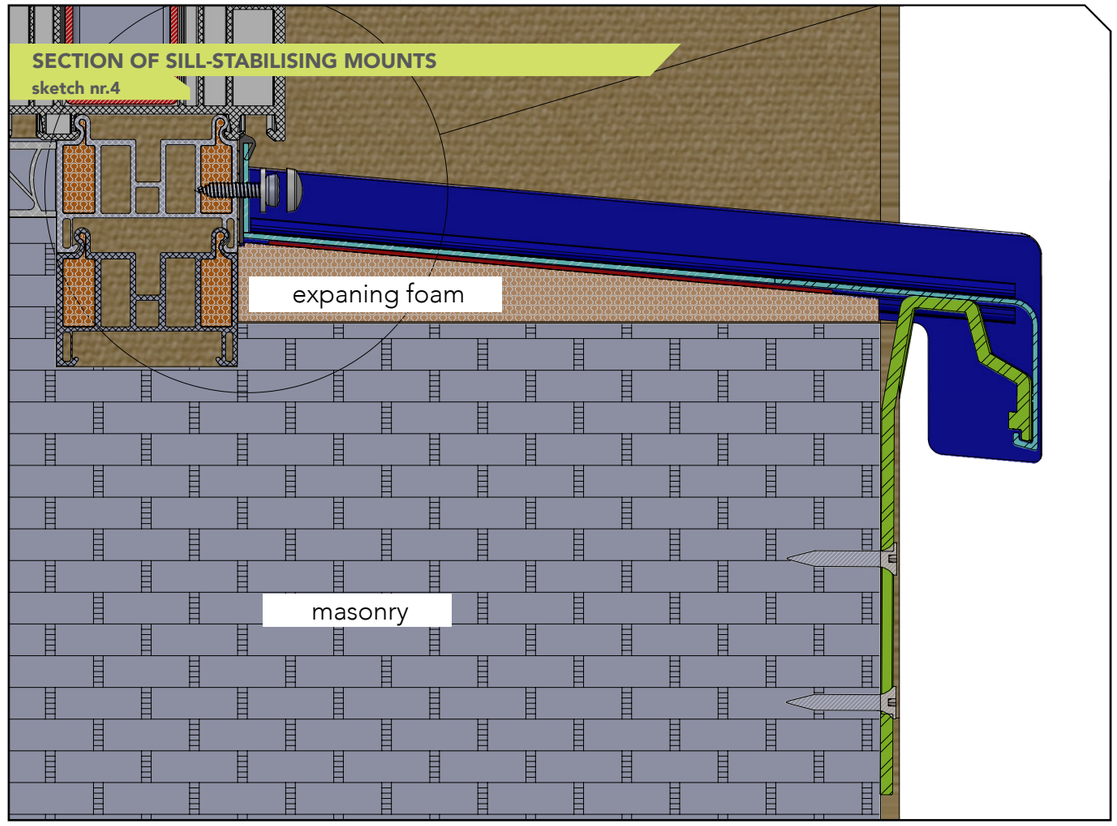
DESCRIPTION

1. Vertical sill-stabilising mount
2. Low expansion polyurethane mounting foam
3. Soundproof tape
4. Masonry mounting screw
5. ABS Screw Masking Cap
6. Stainless steel self-tapping screw TORX 3.9x25 mm
7. TSV Aluminium Window sill - 40 mm rim

09

DETAIL

mounting assembly



Ways to use sill-stabilising mounts in masonry

The preliminary step in mounting sill-stabilising mounts entails establishing the type of facade on which the sills are to be fixed. The mounts have varying characteristics for quick mounting suitable for the building's various stages of development and for various types of facades: with decorative-brick walls, plastered, or thermally insulated facades.

02

- **Sill stabilising mount for a plastered facade**

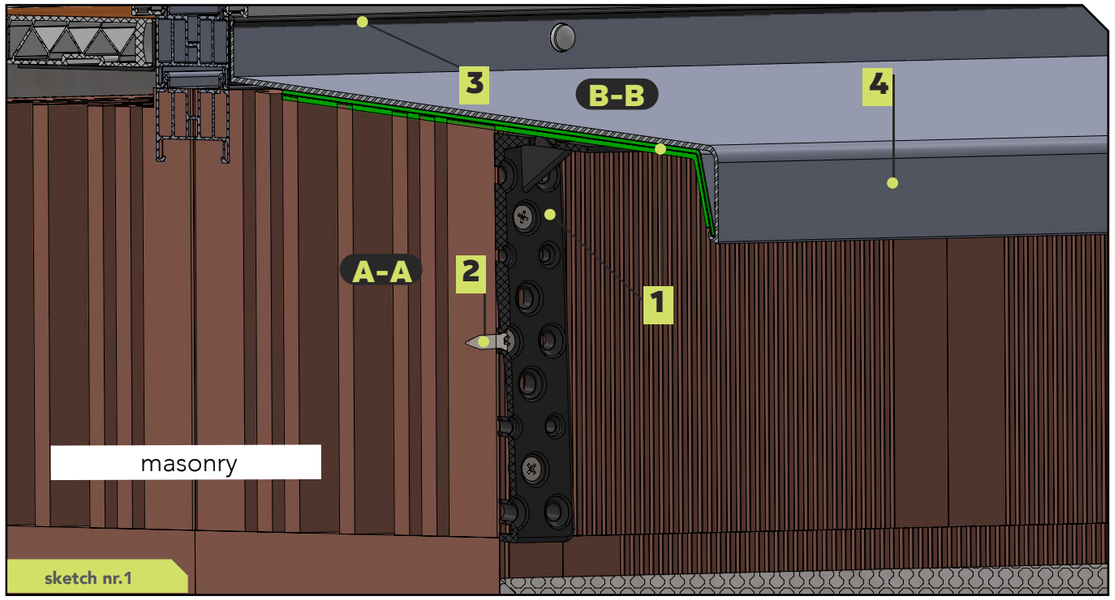
The mount is recommended for **existing buildings that are already plastered**, for mounting aluminium sills with a width of 150mm and above. The mount has a 40 x 6mm cleft for fixing it into the walling.

The mount is mounted horizontally straight onto the walling, under the sill, stabilising it, followed subsequently by repair works on the building's plastering.

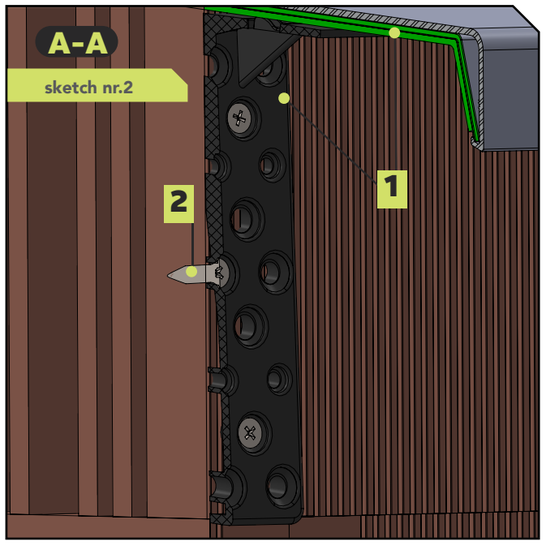
09

INSTRUCTIONS

for the use of sill-stabilising mounts in masonry



sketch nr.1



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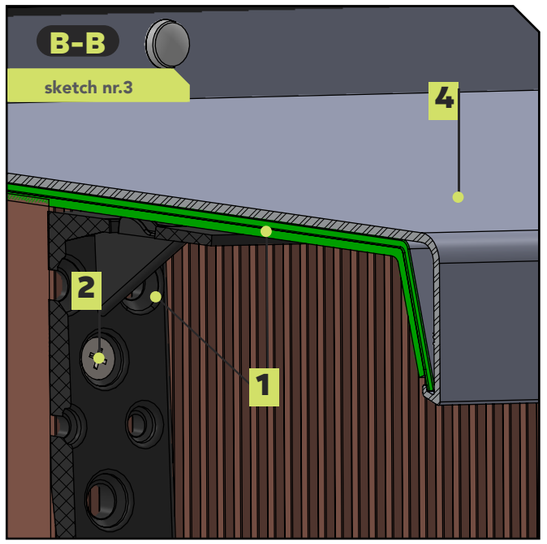


sketch nr.3

ESCRIPTION

1. Sill-stabilising mount
2. Masonry mounting screw
3. EPDM Window sill median gasket
4. TSV Aluminium Window sill - 40 mm rim

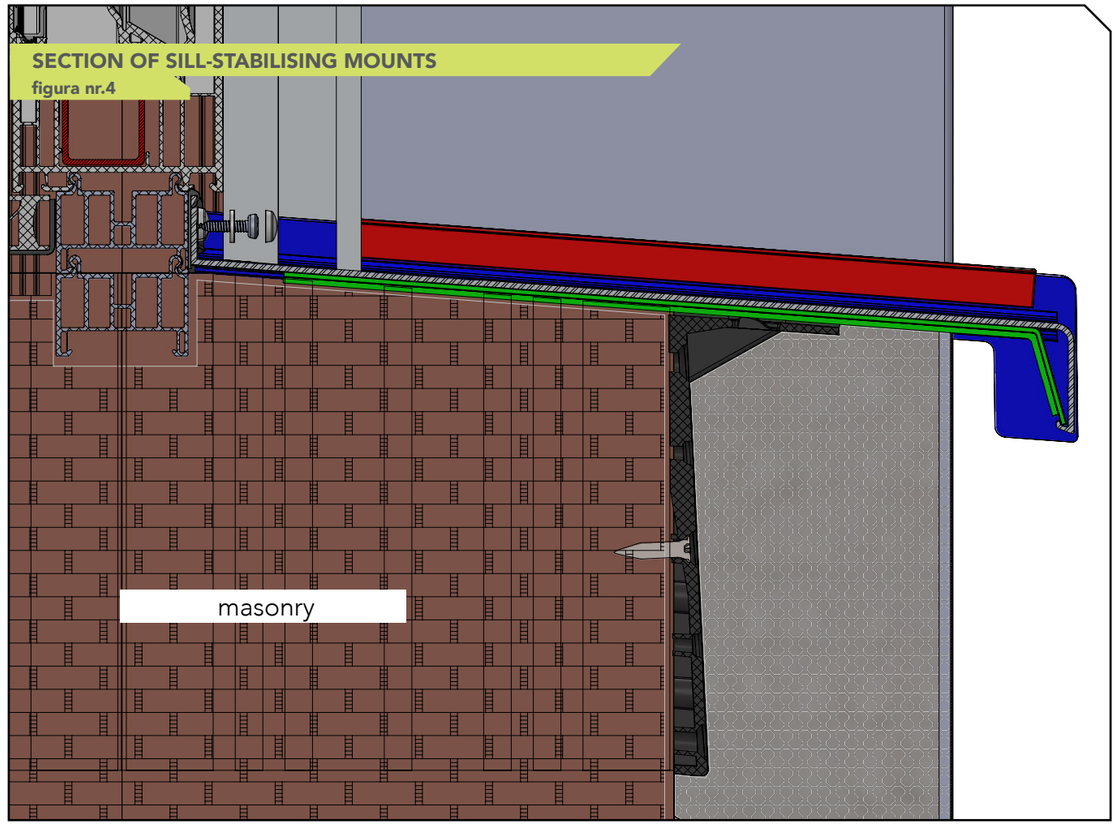
DETAIL

mounting assembly

09

SECTION OF SILL-STABILISING MOUNTS

figura nr.4



Ways to use sill-stabilising mounts in masonry

The preliminary step in mounting sill-stabilising mounts entails establishing the type of facade on which the sills are to be fixed. The mounts have varying characteristics for quick mounting suitable for the building's various stages of development and for various types of facades: with decorative-brick walls, plastered, or thermally insulated facades.

03

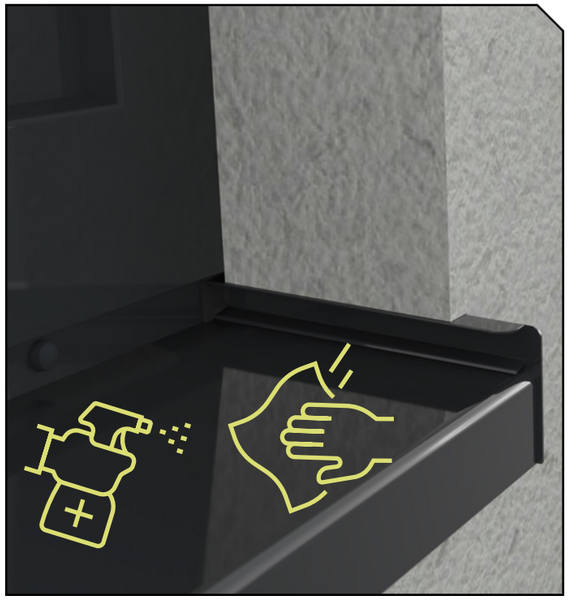
- **Sill stabilising mount for thermally insulated facades**

The mount is recommended for buildings with a thermal insulation system, for mounting aluminium sills at least 150 mm wide. It is composed of two elements for higher mounting flexibility:

- The vertical bracket which is fixed directly into the masonry and has multiple fastening holes enabling mounting at various distances.
- The mount made of aluminium profile which we provide in various sizes for thermal insulation of varying thickness.

09

MAINTENANCE INSTRUCTIONS



01

- **How to maintaine your aluminium window sill?**

The complete **TSV** aluminium window system is a lifelong investment, whether we are talking about new construction projects or retrofit projects.

To keep the window sill system and covers always in perfect condition, regular maintenance is required.

To restore the characteristic glaze, we recommend cleaning the aluminium window sills and covers, from dust or other deposits that will damage the proper functioning of the system over time.

Cleaning cand be made with water and a clean cloth.

Window cleaning solutions can also be used without any problems.

02

- **To remember!**

TSV aluminium window sills and covers are resistant to gypsum, lime chloride and cement from new construction and / or retrofitting.

It is **NOT** permitted to clean them with nitrocellulose varnishes, varnish thinners and solvents (*acetone, ethyl acetate, benzene, chlorinated hydrocarbons, dibutylphthalate, toluene, xylene, methanol, dichloromethane, phenols, alcohol, tetrahydrofuran, softening additives*).

09

TECHNICAL SUPPORT

- **General recommendations**

TSV recommends a professional installation, which means respecting the following simple procedures when installing the aluminium exterior window system, as follows:

x The angle inclination of the window sills should not be less than 5°;

x The distance of the edge of the aluminium window sills from the finished facade should be approximately 30 – 40 mm;

x The sealing of the window systems involves the proper fixing of the solbanc profile, using the median gasket behind the window sill and the stainless steel screws and the corresponding masking caps;

x Consideration will be given to the adoption of an anti-noise measures, which involves the application of a soundproof tape on the lower surface of the aluminium window sill – recommended to apply on at least 50% of the surface;

x When installing aluminium window sills with lengths larger than 3000 mm, it is recommended to use a connecting piece (coupling) at 180°, which helps to compensate for the expansion of the window sill system due to thermal changes.

QUALITY CERTIFICATE
RAL aluminium powder coated

CERTIFICATE

for a **COATING APPLICATOR**

QUALICOAT
SEASIDE

to use the quality label in conformity with the
QUALICOAT 2022 Specifications, applicable from 1 January 2022

Licence No.:	**1406**
Date of Granting:	**08.01.2004**
Valid until:	**31.12.2023**

Zurich, 1 January 2022

QUALICOAT

Ivo Vermeeren
President

Sue C. C. Paredi
Managing Director

QUALICOAT | Tödistrasse 48, 8002 Zurich, Switzerland | **www.qualicoat.net**

QUALITY CERTIFICATE
anodizing aluminium

Authorization
to use the quality sign

QUALITY LABEL
INTERNATIONAL
FOR ANODISING
Qualanod
ARCHITECTURE

Licence number: 1605

is authorized to use the quality sign which is shown above, according to the regulations for the use of the quality label for ARCHITECTURAL ANODIZING as described in the current edition of the Specifications for the QUALANOD quality label for sulfuric acid-based anodizing of aluminium (Edition 01.01.2021). Architectural anodizing is one of the four types of anodizing covered by the Specifications.

Date of issue of the licence:	**19.01.1996**
Period of validity of the licence:	**until 31.12.2023**

Zurich, 15 December 2021

QUALANOD

Dr. Metin Yilmaz
President

CERTIFICATION BODY

Monica Gerber
General Secretary

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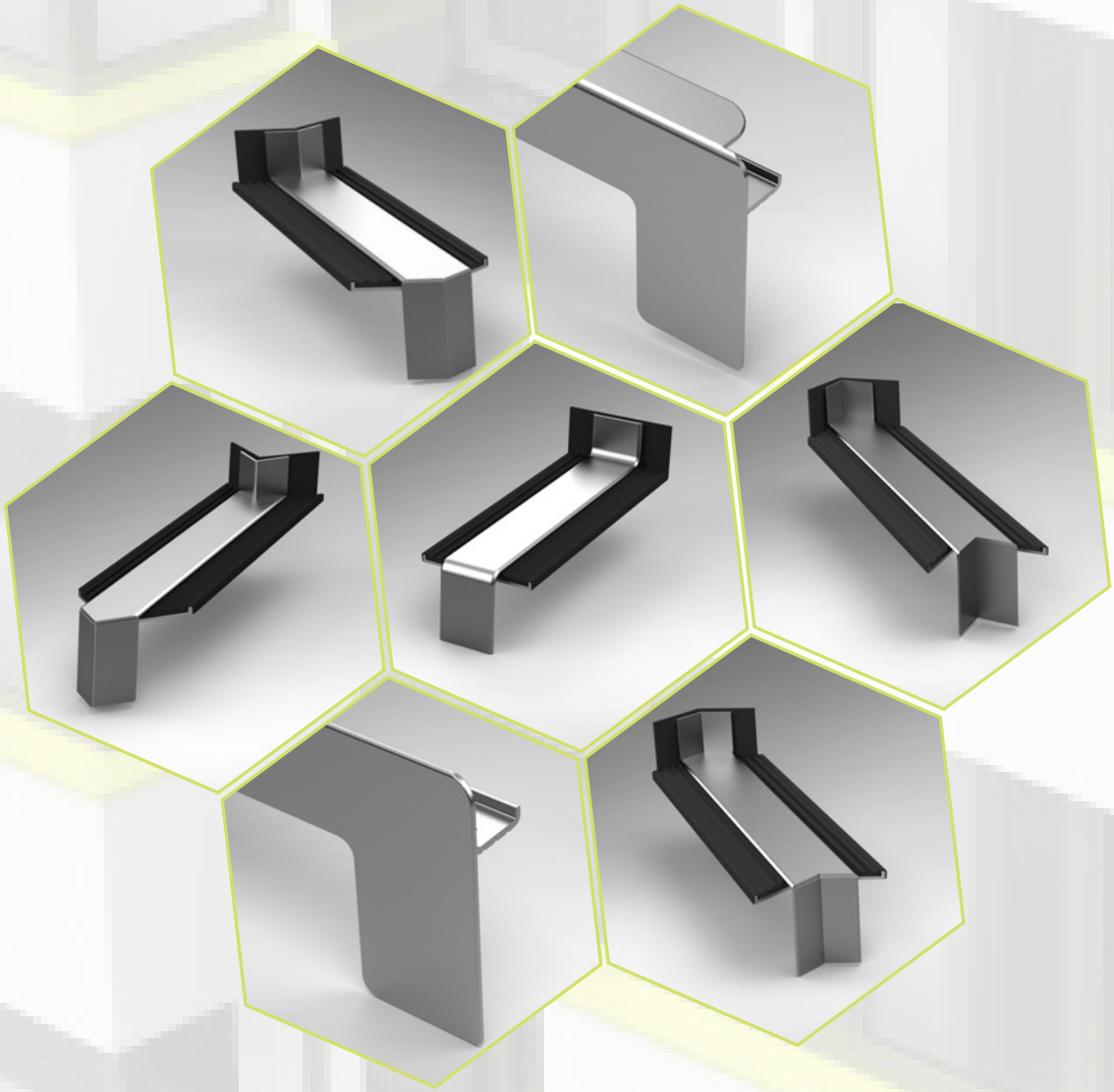
TSV®
window sill
member of PM



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