



stropex[®] **emo**

ASSEMBLY INSTRUCTIONS

Thermo-windowsill



25 YEARS GUARANTEE



Product designation

VA01-PT38- - ____
AT01-PT38- - _
DX01-PT38- - ____
SO01-PT38- - _ .



Preparation of opening for installation of door and window joinery

The substrate should be load-bearing, even and free from contaminants. Cementitious, cementitious-calciferous, adhesive bases should be bonded and seasoned.

It is forbidden to install door and window joinery in non-machined openings.

Assembly conditions

Assembly works should be carried out in conditions appropriate for installation of insulation and fixing materials such as: caulking foam, assembly belts, mechanical and chemical fasteners and other materials in accordance with the product data sheets of these products

Use protective equipment in accordance with the occupational health and safety rules during works. Within the scope of use of the other materials, in particular waterproof renders, adhesive mortars, joints, assembly belts, flexible seals, caulking foams, mechanical or chemical fasteners and others it is appropriate to use materials suitable for applications related to installation of door and window joinery in accordance with the information given in the data sheets of these products or other required by regulations or reference documents. The manufacturer shall not be liable for damages resulting from misuse of the product, use of non-suitable materials and incorrect tools. Works should be carried out in accordance with the design, data sheet, applicable standards and code of practice.

Application

Thermo-windowsill EMO is a modern energy-saving assembly system for door and window joinery meeting the requirements within the scope of the European standards related to energy-saving and passive construction. It is made of PVC plastics filled with hard closed cell polyurethane foam with gasket and due to special shaping of the profile allows executing correct, tight and warm connection during installation of window joinery.

Tools

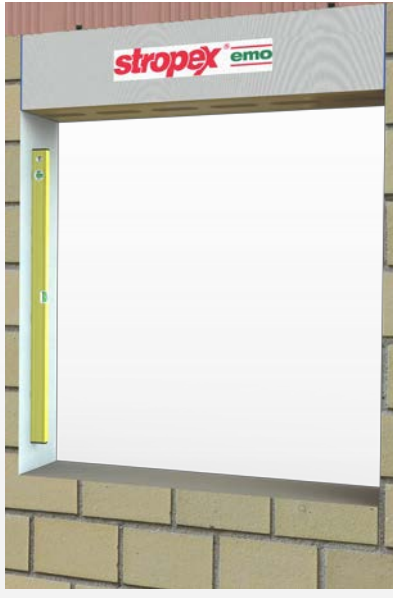
One-metre measure or measuring tape, hand saw or mechanical saw for plastic cutting, knife, mixer or low-speed drill, paddle stirrer, stainless steel float, painting or masonry brush, spatula or trowel, masonry bucket.

General and operational recommendations

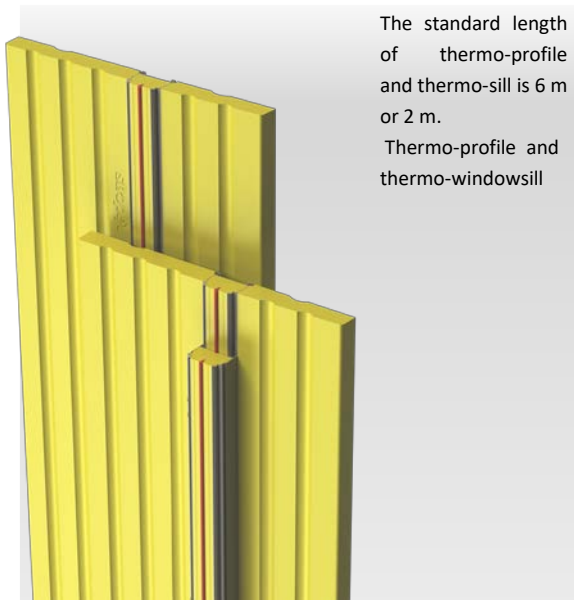
After installation, it is not necessary to carry out any general maintenance for the product.

UV resistance of sill is 7 days. The sill can be protected against UV by painting it with acrylic paint. It is necessary to matt the surface of the windowsill with sandpaper before paint application. NOTE discolourations caused by UV sun rays and little air pockets in hard mass of polyurethane foam does not deteriorate conditions of the windowsill, have only aesthetic dimension.

Preparation of opening for installation of door and window joinery. It is forbidden to install door and window joinery in non-machined openings.

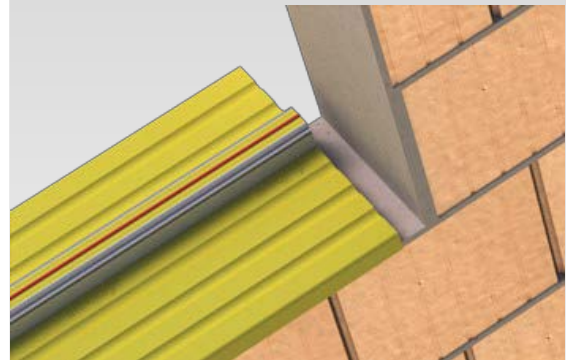


The substrate, where the thermo-panel or thermo-sill will be installed, should be load-bearing, even and free from contaminants. Cementitious, cementitious-calciferous, adhesive bases should be bonded and seasoned.

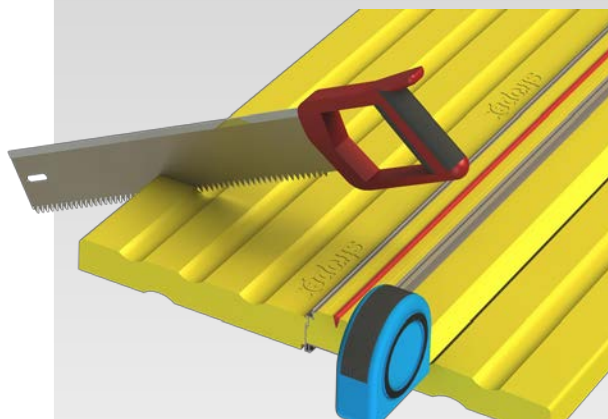


The standard length of thermo-profile and thermo-sill is 6 m or 2 m.
Thermo-profile and thermo-sill

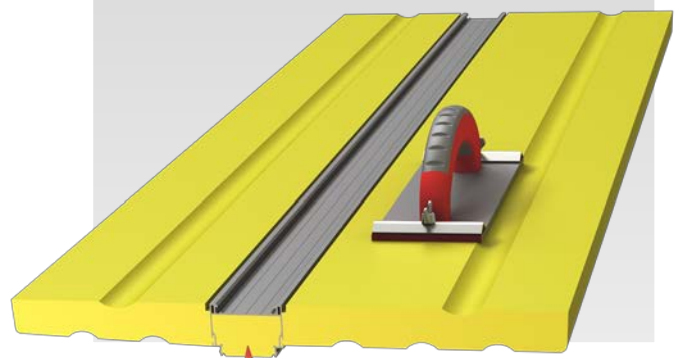
Thermo-profile and thermo-windowsill should be cut to the width of the opening taking into account approx. 15 mm of expansion clearance for joint sealing.



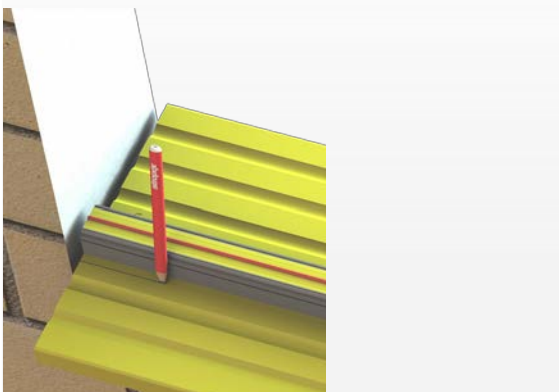
After dimensioning of the length of thermo-profile and thermo-windowsill it should be mechanically or hand cut to the desired length.



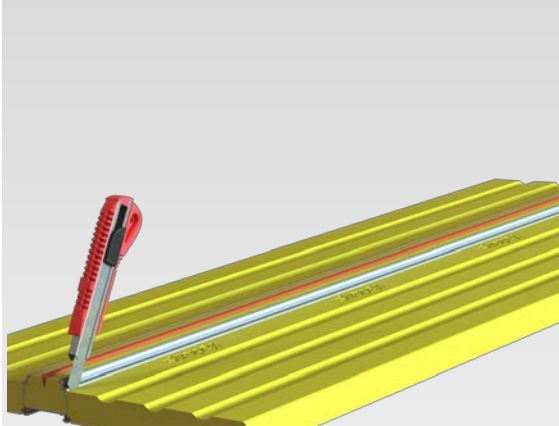
To improve adhesion of caulking foam to the base of the thermo-windowsill its internal surface should be manually matted using sandpaper or mechanically using an e.g. orbital sander



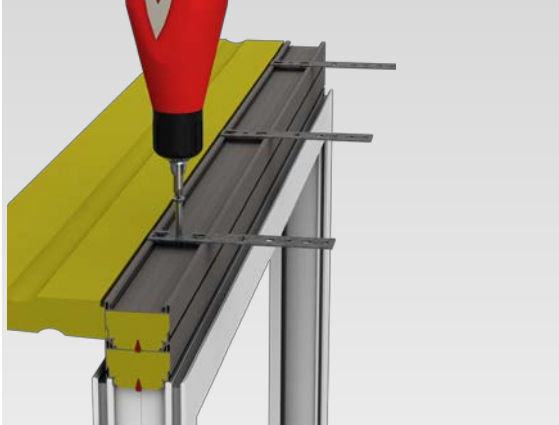
Thermo-windowsill should be dry laid in assembly opening and correctly placed in the location of wall face where the window will be installed. This position should be marked off with pencil, determining in this way a location for installation and maximum area of caulking foam application prior to final installation of the window into assembly opening.



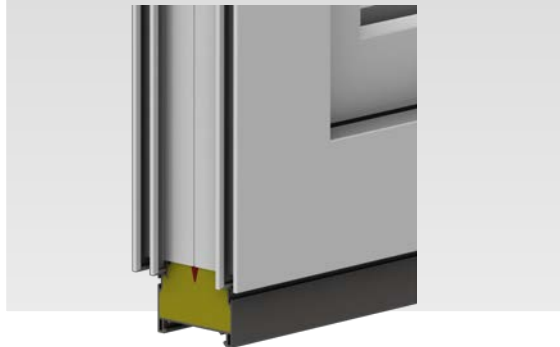
If the substrate is not even and does not ensure a level, stable installation of the window we recommend to cut out internal part of the windowsill with a sharp tool to obtain full insight to the location of bottom support in its bottom part.



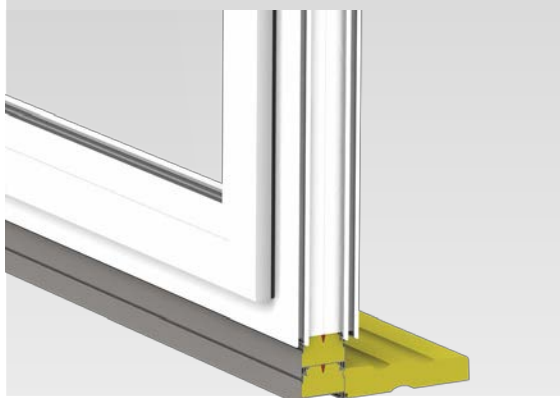
Then, in accordance with the guidelines of the Building Research Institute, insert assembly anchors into the profile of Thermo-windowsill. Anchors should be mechanically fixed using self-drilling screws with a flat head to frame reinforcement.



Installation of thermo-windowsill and thermo-profile should be started with the installation of the thermo-profile in the window frame. Specially designed lock, so-called click, allows correct setting of thermo-profile in the window frame (precise setting of the profile in accordance with the window geometry). Specially designed gasket allows executing tight, maintenance-free connection of profile with the window frame.



Attach thermo-windowsill to the previously prepared frame with fixed thermo-windowsill and install it mechanically to the bottom through the PVC profile using self-tapping screws with a flat head with a washer to the steel reinforcement in the window frame.



If it is necessary to connect two sections of the thermo-profile and thermo-windowsill then it is necessary to seal the contact points. For this purpose, it is necessary to use appropriate adhesives and adhesive-sealants e.g. Tytan EOS, FX2, FIX2 Rapid or Termco Illbruck Sp150. This joint should be made with due care and attention to prevent air from blowing through in this location. This joint does not have any influence on product performance.





Whole structure should be wedged in accordance with the guidelines of the Building Research Institute, technical conditions of execution and acceptance of the building works, finishing works, issue 6 Installation of balcony windows and doors depending on the type of door and window joinery

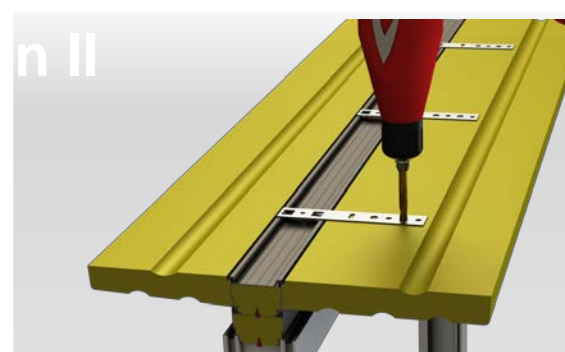
After installation of the window with the Thermo-profile and thermo-windowsill to the window opening in the previously specified location. Wedging should be started from window levelling in its bottom part. Then it is necessary to execute openings for pins and screw the anchors to the substrate.



Previously cut molding of the internal windowsill should be glued with polyurethane adhesive e.g. Tytan EOS, Tytan 60 sekund



The windowsill can be installed as a whole if the base ensures a level and stable installation of the window.



Then install assembly anchors into the profile of the Thermo-windowsill proceeding in accordance with the Building Research Institute guidelines. Anchors should be fixed mechanically using self-tapping screws with a flat head with frame reinforcement. Boreholes should be executed through the anchor to determine mechanical inlets of anchor fixings through the Thermo-windowsill.

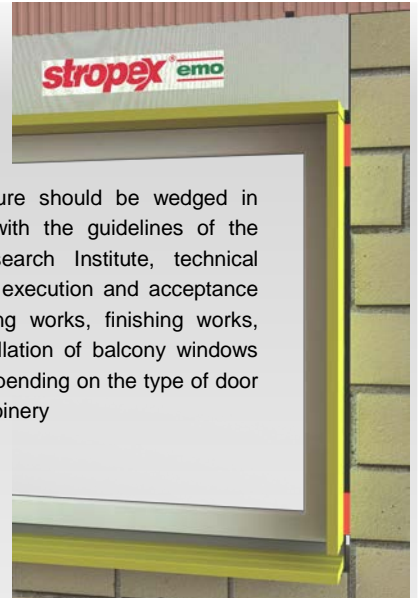
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Window reinforced with thermo-strip, thermo-sill and assembly anchors should be set in the ready window opening.

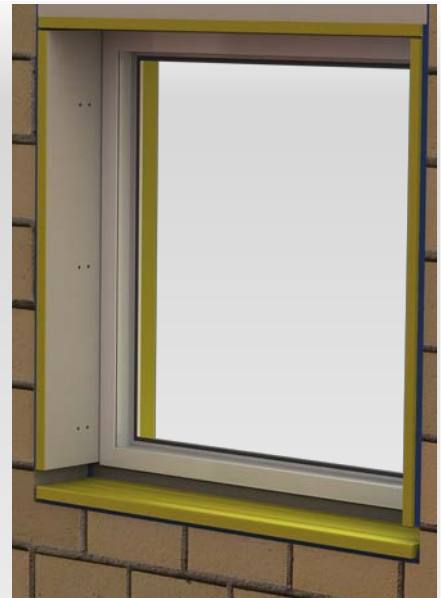
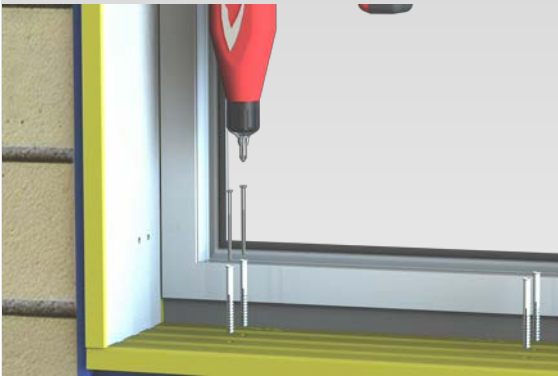


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Whole structure should be wedged in accordance with the guidelines of the Building Research Institute, technical conditions of execution and acceptance of the building works, finishing works, issue 6 Installation of balcony windows and doors depending on the type of door and window joinery



The last stage includes mechanical fixing of the assembly anchors in the bottom part of the window, depending on assembly version of the sill used.



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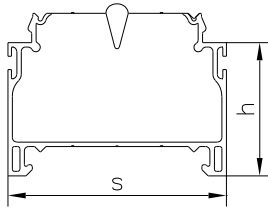


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Thermo-PROFILE with transport feature is a modern product being part of all STROPEX EMO systems and it a basic component of profile system. It is made of PVC plastics filled with hard closed cell polyurethane foam with gasket and due to special shaping of the profile allows executing correct, tight and warm connection during installation of window joinery.

Dimensions:



Strip code	Height h	Width s
VA01-LA30	30.0	49.2
AT01-LA30	30.0	43.0
SO01-LA30	30.0	43.0
DX01-LA30	30.0	43.0

Properties:

Selected performance based on the National Declaration of Performance no. 01/SL/2016

Air permeability	a < 0.3 m ³ / (m ² *h*daPa ² /3)
Waterproofness	Class E1200
Wind load resistance	Class C5 (pressure +/- 2000Pa)

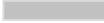




Designation and packaging:

Designation and packaging of Thermo-PROFILE

SYSTEM	PRODUCT CODE	PACKAGINGS					
		length 2.00m	length 3.00m	length 6.00m	length 6.00m	length 6.00m	length 6.00m
		CARDBOARD BOX	CARDBOARD BOX	PALLET	PALLET	BASKET	BASKET
		Pcs./m (packaging code)	Pcs. /m (packaging code)	Pcs. /m (packaging code)	Pcs. /m (packaging code)	Pcs. /m (packaging code)	Pcs. /m (packaging code)
VEKA	VA01-LA30	30 pcs. / 60.0m (VA01-LA30-02-K2)	144 pcs. / 432.0m (VA01-LA30-03-K3)	165 pcs. / 990.0m (VA01-LA30-06-P1)	—	792 pcs. / 4752.0m (VA01-LA30-06-K1)	—
ALUPLAST	AT01-LA30	30 pcs. / 60.0m (AT01-LA30-02-K2)	144 pcs. / 432.0m (AT01-LA30-03-K3)	—	187 pcs. / 1122.0m (AT01-LA30-06-P1)	—	864 pcs. / 5184.0m (AT01-LA30-06-K1)
SCHUCO	SO01-LA30	30 pcs. / 60.0m (SO01-LA30-02-K2)	144 pcs. / 432.0m (SO01-LA30-03-K3)	—	187 pcs. / 1122.0m (SO01-LA30-06-P1)	—	864 pcs. / 5184.0m (SO01-LA30-06-K1)
DRUTEX	DX01-LA30	30 pcs. / 60.0m (DX01-LA30-02-K2)	144 pcs. / 432.0m (DX01-LA30-03-K3)	—	187 pcs./1122.0m (DX01-LA30-06-P1)	—	864 pcs. / 5184.0m (DX01-LA30-06-K1)

Length tolerance for sections 2.00m and 3.00m +/- 10mm; length tolerance for sections 6.00m +/- 20mm

- **Transport function:** safe transport of even very large and heavy balcony and terrace windows using transport cladding. Profile crushing strength equals to 1500kg/lin.m.
- **Double stems:** improve durability and allow fixing door and window joinery using commercial anchors in accordance with the recommendations of the joinery manufacturers, Building Research Institute instructions or German RAL association
- **Click system:** allows easy, quick and stable pressing of Thermo-PROFILE to the window frame.
- **Joint tightness:** ensured by special polyurethane gasket
- **Even surface:** of Thermo-PROFILE adapted to the width of installation stems of window frame forms flat surface allowing exact adaptation of internal and external windowsill,
- **Materials:** PVC (100% recycling - origin: window joinery) + hard closed cell polyurethane foam
- **Weight:** 450g/lin.m.
- **Colours:** RAL 7037 
RAL 9016  On request
RAL 8019  On request
- **Product approvals and authorisations:** AT-15-9681/2016, AT-15- 9629/2016, ITB-KOT-2017/0019;

Packaging:

Thermo-PROFILE is packed on pallets and secured with protective foil, which protects it against weather conditions. Strips should be stored in places protecting against dirt. The profile should be stored in locations not exposed to direct sunlight.

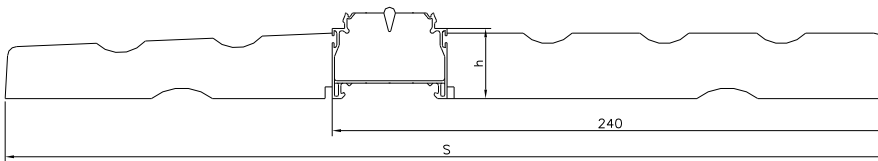
Before cutting and installation it is appropriate to ensure storage in a room with a temperature above 15 °C

Thermo-WINDOWSILL acts as a thermal insulation and is a great supplement for the STROPEX EMO system and ensures performance allowing using it in the energy-saving and passive construction. Modern product manufactured based on the Thermo-WINDOWSILL. It is made of PVC plastics filled with closed cell rigid polyurethane foam with gasket and due to special shaping of the profile allows executing correct, tight and warm connection during installation of window joinery. It is necessary to matt external and internal PUR moldings prior to assembly to ensure adhesion of the foam-adhesive.

Set Thermo-PROFILE with Thermo-WINDOWSILL forms together with a foundation for external and internal windowsills

(NOTE: Thermo-PROFILE sold separately)

Dimensions:



Sill Code	Height h [mm]	Width s [mm]
VA01-PT38	30.0	380.0
AT01-PT38	30.0	380.0
SO01-PT38	30.0	380.0
DX01-PT38	30.0	380.0

Designation and packaging:

Designation and packaging of Thermo-WINDOWSILL

SYSTEM	PROD UCT CODE	PACKAGINGS			
		length 2.00m	length 3.00m	length 6.00m	length 6.00m
		CARDBOARD BOX	CARDBOARD BOX	PALLET	PALLET
		Pcs./m /kg (packaging code)	Pcs. /m (packaging code)	Pcs. /m (packaging code)	Pcs. /m (packaging code)
VEKA	VA01-PT38	8 / 16.0 / 30 (VA01-PT38-02-K2)	23 / 69.0 / 115 (VA01-PT38-03-K3)	21 / 126.0 / 220 (VA01-PT38-06-P1)	42 / 252.0 / 430 (VA01-PT38-06-P2)
ALUPLAST	AT01-PT38	8 / 16.0 / 30 (AT01-PT38-02-K2)	23 / 69.0 / 115 (AT01-PT38-03-K3)	21 / 126.0 / 220 (AT01-PT38-06-P1)	42 / 252.0 / 430 (AT01-PT38-06-P2)
SCHUCO	SO01-PT38	8 / 16.0 / 30 (SO01-PT38-02-K2)	23 / 69.0 / 115 (SO01-PT38-03-K3)	21 / 126.0 / 220 (SO01-PT38-06-P1)	42 / 252.0 / 430 (SO01-PT38-06-P2)
DRUTEX	DX01-PT38	8 / 16.0 / 30 (DX01-PT38-02-K2)	23 / 69.0 / 115 (DX01-PT38-03-K3)	21 / 126.0 / 220 (DX01-PT38-06-P1)	42 / 252.0 / 430 (DX01-PT38-06-P2)

Length tolerance for sections 2.00m and 3.00m +/- 10mm; length tolerance for sections 6.00m +/- 20mm

Selected performance based on the National Declaration of Performance no. 01/SL/2016

Air permeability	a < 0.3 m ³ / (m ² *h*daPa ^{2/3})
Waterproofness	Class E1200
Wind load resistance	Class C5 (pressure +/- 2000Pa)

- **Crushing strength:** of Thermo-PROFILE constituting a structural component of Thermo-WINDOWSILL equals to 1500 kg/lin.m.,
- **Double stems:** improve durability and allow installation door and window joinery using commercial anchors in accordance with the recommendations of the joinery manufacturers, Building Research Institute instructions or German RAL association
- **Click system:** allows easy, quick and stable connection to the window frame
- **Joint tightness:** ensured by special polyurethane seal
- **Materials:** PVC (100% recycling - origin: window joinery) + hard closed cell polyurethane foam
- **Weight:** 530g/lin.m.
- **Product approvals and authorisations:**
AT-15-9681/2016, AT-15-9629/2016, ITB-KOT-2017/0019;

Packaging:

Thermo-WINDOWSILL is packed on pallets and secured with protective foil, which protects it against weather conditions. Thermo-WINDOWSILLS should be stored in places protecting against dirt. The profile should be stored in locations not exposed to direct sunlight. Before cutting and installation it is appropriate to ensure storage in a room with a temperature above 15 °C





25
YEARS GUARANTEE



Technical approvals:

AT-15-9681/2016

AT-15-9629/2016

ITB-KOT-2017/0019

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