



TECHNICAL DATA SHEET

KEIM FENSTERBANK

1. PRODUCT DESCRIPTION

Anodised, powder-coated or painted aluminium exterior window sill with extensive accessories.

2. FIELD OF APPLICATION

As a covering for masonry and/or insulation, mainly at window openings (for mounting on the lower frame).

3. PRODUCT PROPERTIES

- extruded
- with integrated drip edge
- fire behaviour: non-flammable

4. APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION:

The installation of window sills must be carefully planned, the conditions should be checked for the following points before applying the ETICS:

- Determination of the installation system: prior installation (integration into the ETICS) / subsequent installation (formation of a second sealing level/tub)
- ensuring installation of window sills with 5° or 8% slope
- protrusion of window sills in front of the finished facade (after finishing plaster) at least 40 mm
- installation of the anti-drumming strip (only in case of previous installation of the window sill)
- removal of the protective foil from the edges (left and right approx. 30 mm each) before fitting the end caps
- Checking the functional capability of the second sealing level (trough) during subsequent installation in accordance with the generally accepted rules of technology (cf. Recommendations for the installation/replacement of metal window sills (ETICS facade) published by Gütegemeinschaft Wärmedämmung von Fassaden e.V.)
- Drainage openings in the window frames must not be closed or (even partially) covered by the window sills.

APPLICATION:

Window ledges must be installed before the installation of the exterior thermal insulation composite system (previous installation) or afterwards (subsequent installation). When installing aluminium window ledges, a length expansion of up to 1.2 mm per metre must be taken into consideration at a temperature difference of 50°C. The window ledge is installed with a gradient of 5° or 8°. The length of the window ledge is calculated from the "finished clear dimension" with adding/subtracting, depending on the installation method: previous installation with end caps plus 32 mm subsequent installation with clinker end caps minus 20 mm (or -5 mm for ceramic ETICS)

PREVIOUS INSTALLATION (STANDARD CASE):

KEIM End caps are suitable for prior installation in ETICS, with integrated sealing shoe for expansion compensation of the window sill on both sides and rubber seal to form driving rain-proof joints between window sill and end caps up to 600 Pa. Standard projections 50 - 400 mm.

The black, self-adhesive anti-drumming tape is stuck to the underside of the window sill and thus reduces rain drip noise. The anti-drumming tape must cover at least 1/3, at best 2/3 of the rear underside of the window sill. Width 80 mm, sold by the metre.

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The use of at least 2 window sill brackets per window sill is generally recommended. From a projection of 150 mm, window sill brackets are mandatory; the distance between two brackets must not exceed 60 cm.

Hollow spaces under the window sill must be avoided; if necessary, unavoidable hollow spaces must be filled with suitable insulating material.

SUBSEQUENT INSTALLATION (RECOMMENDATION BY KEIM):

KEIM Clinker end caps are suitable for subsequent installation in ETICS. Standard projections 50 - 400 mm.

Formation of a second sealing level for safe drainage of any rainwater that may enter:

In the area of the window sills, the insulation boards are glued evenly and without joints with a slope of at least 5° or 8% until they are completely connected to the window frame on the substrate suitable for bonding. The fabric plaster strips are to be guided up to approx. 10 mm above the top of the sill insulation; and any gaps to the window frame are to be closed with joint sealing tape. In the sill area, embed the KEIM drip edge profile GF with the appropriate reinforcement mortar. The drip edge is notched on both sides by approx. 8 mm (length of drip edge = length of window sill).

Complete the facade and reveal reinforcement with the appropriate reinforcement mortar.

After drying, form a trough by painting the parapet surfaces with suitable waterproofing coating Illbruck SP925.

The drip edge profile-GF, the reveals and the window frame are also to be coated up to a height of approx. 30 mm. The application of an additional sealing membrane can be omitted.

The window sills are bonded with adhesive beads of a suitable PU adhesive (e.g. SikaBond TF plus N, Illbruck SP351, no silicone!) on the sealing level at a distance of approx. 30 cm and screwed to the window frame using a suitable joint sealing tape (Iso Block type 20/1-4). The distance between the window sill and the second sealing level should not exceed 10 mm. Taking into account the expected change in length of the metal window sill, the joints for the lateral connection to the reveals must each be executed with a standard width of at least 8 mm. These lateral connection joints must be closed with suitable sprayable sealants (e.g. Sikaflex AT-Connection, Illbruck SP525, no silicone!). The corresponding measures for substrate preparation for the use of the individual adhesives and sealants can be found in the manufacturer's instructions. Joints are formed in accordance with the relevant technical regulations (two-sided adhesion).

The KEIM distance piece 10 mm serves as a spacer for subsequent installation of the window sill.

The installation of window sill brackets is not necessary.

USE OF OTHER ACCESSORIES:

Window sills are to be separated from a total length of 3 m. The movable connection is made with the butt connector (removal dimension 5 mm per window sill side).

For driving rain-proof installation of the KEIM window sill, the screw-on web must be connected to the frame with suitable joint sealing tape Iso Bloco type 20/1-4. Alternatively, in individual cases, the KEIM sealing profile made of black rubber can be attached to the screw-on web of the window sill in individual cases. It therefore seals between the window sill and the frame, sold by the metre.

The window sills are always fixed to the frame using the window sill screws (stainless steel). Available plastic cover caps in natural (grey), white, black or bronze (brown).

AFTERTREATMENT:

The gap between the window sill, frame and reveal must be closed properly. Sprayable sealants suitable for exterior use are suitable for this purpose.

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5. PACKAGING

Product name	Projection	Content per sold unit	Type of container	Length
Fensterbank, natur eloxiert	50 - 400 mm	variabel	bunch piece	
Fensterbank, weiß (RAL 9016)	50 - 400 mm	variabel	bunch piece	
Fensterbank, anthrazit (RAL 7016)	50 - 400 mm	variabel	bunch piece	

RELATED PRODUCTS

Product name	Projection	Content per sold unit [m]	Content per sold unit	Type of container
Fensterbankschrauben, mit Abdeckkappe, grau			100	package
Fensterbankschrauben, mit Abdeckkappe, weiß			100	package
Abdichtprofil		1.00	1	material sold by the metre
Antidröhnband		1.00	1	material sold by the metre
Stoßverbinder			1	piece
Fensterbankhalter Größe 1	90 - 110 mm		1	set
Fensterbankhalter Größe 2	110 - 140 mm		1	set
Fensterbankhalter Größe 3	140 - 180 mm		1	set
Fensterbankhalter Größe 4	180 - 240 mm		1	set
Fensterbankhalter Größe 5	200 - 260 mm		1	set
Fensterbankhalter Größe 6	240 - 300 mm		1	set
Fensterbankhalter Größe 7	280 - 340 mm		1	set
Fensterbankhalter Größe 8	340 - 400 mm		1	set

Other projections, shaped parts, surfaces, anodising and special colours on request.

6. STORAGE

max. storage time	Storage conditions
no maximum storage time	even avoid deflection

The self-adhesive protective film must be removed after completion of the facade, at the latest after 3 months.

7. DISPOSAL

Waste code: 17 04 02

8. SAFETY INSTRUCTIONS

No particular indications.

9. GENERAL INFORMATION

Aluminium window sills, like all weathered surfaces, are subject to varying degrees of dirt and dust deposits depending on the orientation and local conditions. The elements should therefore be cleaned from time to time.

Lukewarm water supplemented with e.g. commercially available surfactants, soft sponge cloths or metal-free brushes are suitable for this purpose.

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