

PF-ALU/HTR

ANCHORING SYSTEMS FOR VENTILATED FAÇADES



Stainless steel alloy Aisi 304 (A2) standard [A4 upon request]

Elastic limit [N/mm ²]	175
Elasticity module [N/mm ²]	210.000
Transversal elasticity module [N/mm ²]	81.000
Poisson coefficient	0.3
Thermal dilatation coefficient [1/C]	1.2.10 ⁻⁵
Density [kg/m ³]	7.850

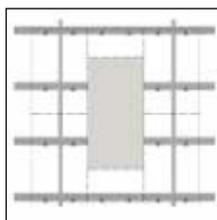
Aluminium EN AW - 6005A

Product shape	Extruded profile
Elastic limit with 0.2 deformation [N/mm ²]	225
Breaking point [N/mm ²]	270
Minimum lengthening	8
Elasticity module [N/mm ²]	70.000
Trasversal elasticity module [N/mm ²]	27.000
Poisson coefficient	0.3
Thermal dilatation coefficient [1/C]	2.3.10 ⁻⁶
Density [Kg/m ³]	2.700

DESCRIPTION

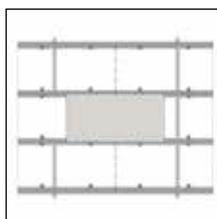
Horizontal profile PF-ALU-HTR, continuous support of upper and lower GR-TR anchoring, fixed to the vertical profile PF-ALU with self-tapping screws, with the function of supporting the weight of the cladding and wind load. The GR-TR anchor, specially designed for varying cladding thicknesses, is fixed to the cladding panels by means of the TR-Nordic plug, designed for porcelain claddings and/or stone claddings featuring a remarkable compressive strength. The technique implemented in this system features the use of an extruded aluminum anchoring, machined by specific geometry in order to fit in the horizontal profile, with height adjustment and fixed to the cladding by inserting the TR-Nordic plug in the cylindrical holes made on the rear side of the panels to make up the cladding. As also applicable to other Nordic Ext products, it allows easy assembly with the possibility of replacing or installing panels at any point of the cladding.

System designed to solve the fastening of thin claddings, especially for slate/phyllite panels due to their high level of exfoliation. System designed to solve the fastening of claddings with vertically positioned panels with continuous horizontal joints or free vertical joints. Recommended for compact material (i.e.: Granite, Basalt, etc.)



Use of the PF-ALU/HTR-60/120 system with upper clips.

- Minimum wall cladding thickness: 10 mm.
- Recommended minimum joint: 9mm horizontally and 3 mm vertically.
- Machining: drill calibrated drill at the rear side of the panel
- Calculations made with maximum densities up to 3000 kg/ m³.



Use of the PF-ALU/HTR-60/120 system with upper and lower clips.



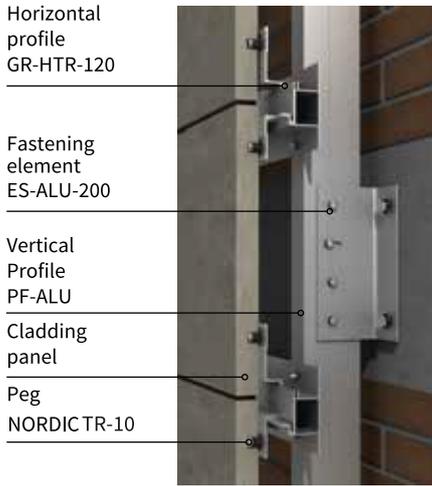
Peg NORDICTR-10



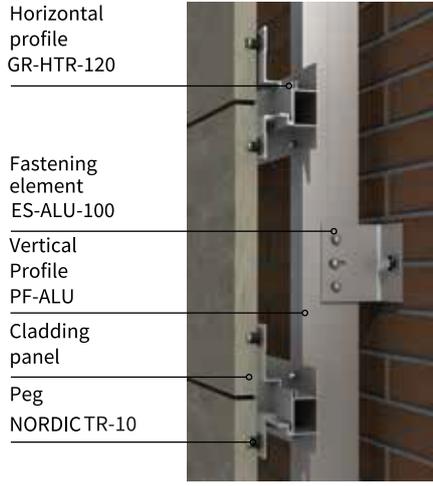
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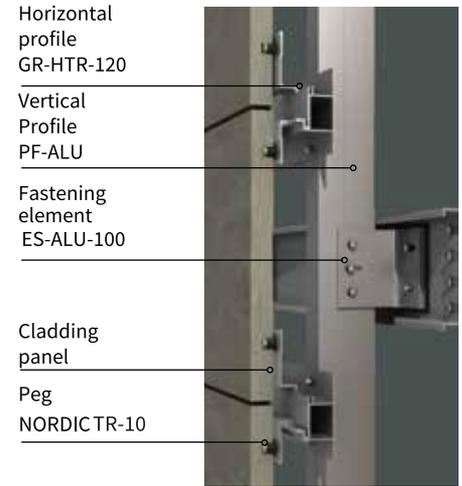
Peg NORDICTR-30



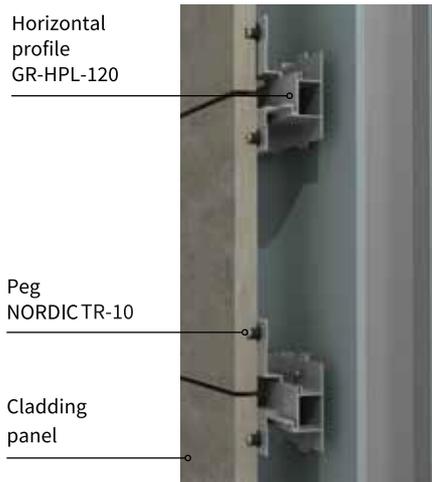
Concrete slab



Closing wall



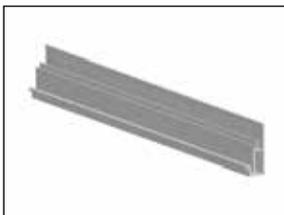
Drywall with Aquapanel



HPL Direct

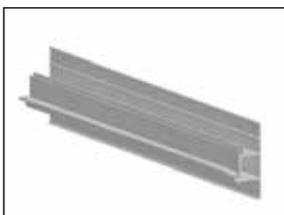
PF-ALU/HTR

The horizontal profiles making up the PF-ALU/HTR system are marketed in 3 models: PF-ALU/HTR-40, PF-ALU/HTR-60 and PF-ALU/HTR-120 depending on the thickness, dimension and position of the cladding panels. These clip profiles are positioned parallel to the PF-ALU vertical profiles and the ES-ALU fastening elements in their three different versions, allowing preserving the system adjustment untouched. With the increase of the KNAUF type WM.es lightweight cladding structures, to which good vertical and horizontal flatness is assumed, new calculation tables have been studied to be able to install the HTR clip profiles and anchor them directly to the cladding structure and in parallel to the KNAUF vertical structure (EXP. ITEC. QP-IT-4158-01.A).



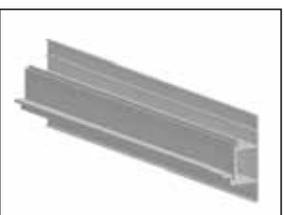
PF-ALU-HTR-40

Ideal horizontal profile to fasten low (40/60 cm) panels. Its small dimensions allow the optimization of the separation between the PF-ALU profiles, making it more suitable for panels in horizontal position with continuous horizontal joints and free vertical joints and thicknesses ranging from 10 to 20 mm. Requires calibrated drill at the rear side of the panel.



PF-ALU-HTR-60

Horizontal profile with the greatest inertia dimensioned to house panels of an intermediate height of 60/100 cm. This is the most commonly used clip profile model, as it covers most of the normally studied off-cuts. It also provides greater flexibility, as it can be adapted correctly to small off-cuts without losing any competitiveness, and to larger off-cuts without losing resistance. For thicknesses ranging from 20 to 50 mm. Requires calibrated drill at the rear side of the panel.



PF-ALU-HTR-120

Horizontal profile with great inertia, especially designed to support large dimension pieces, preferably in vertical position, with continuous horizontal and free vertical joint. Requires calibrated drill at the rear side of the panel.



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