Supporting bracket TWL®-ALU-RF / -RL
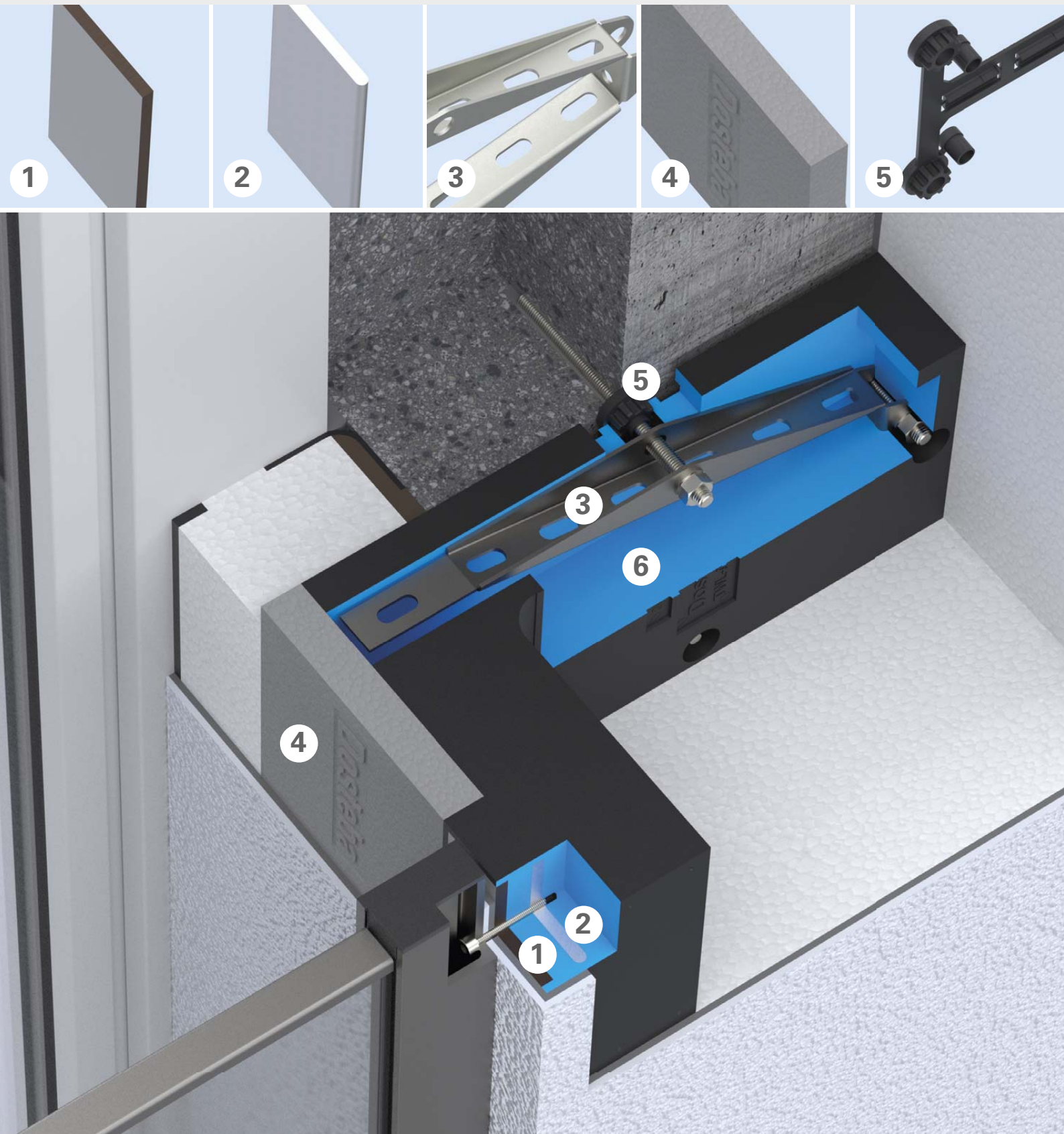
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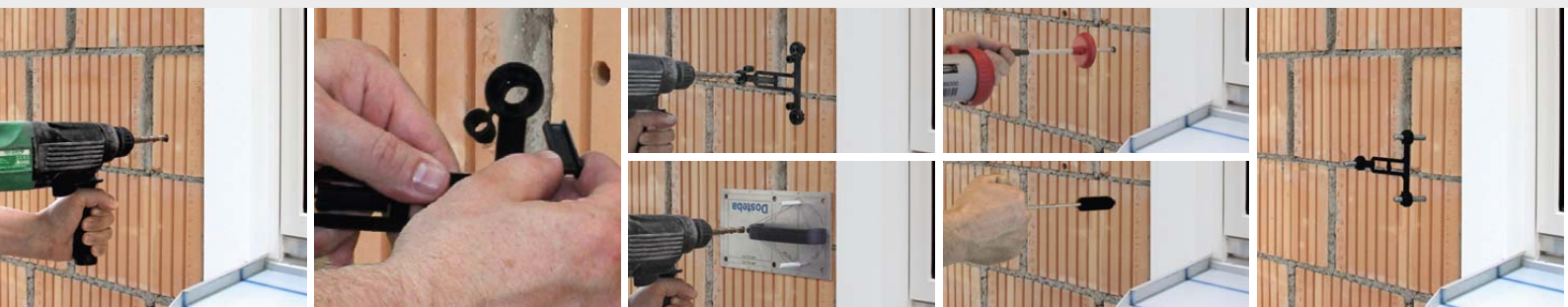
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Heat bridge-free fixation in thermal insulation composite systems

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Assembly

Fastening material, tools and loads

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1 Compact plate (HPL) for optimum pressure distribution on the surface

2 Aluminium plate to screw in the attachment part

3 Steel sheet panel for the non-positive screw attachment with the anchorage

4 Insert made of EPS for uniform plaster substrate

5 The base is used as a drill and setting gauge and indicates the adhesive layer thickness in the event of an offset

6 PU foam with a volumetric weight of 450 kg/m^3

7 Adjustable foot

8 Screw-plug SXRL 10 x 120 FUS

9 Injection-threaded rod
- FIS A M8 x 150 (for masonry)
- FIS A M8 x 130 (for concrete)

10 Injection-anchor sleeve FIS H 12 x 85 K

11 Injection-mortar FIS V Plus 300 T

12 Static mixer FIS S

13 Corrosion protection spray FTC-CP

14 Hard metal-hammer drill
- Ø10 mm, drill length 210 mm
- Ø12 mm, drill length 210 mm
- Ø10 mm, drill length 450 mm

15 Tool set comprising:
- 2 Coupling shafts 150 mm
- 2 Bits Torx T40

16 Drilling gauge UMP® / TRA-WIK® / TWL®

17 Ejector pistol ABG

18 Set of brushes FIS, Ø14 / 20 mm

19 Cleaning brush BS, Ø10 mm / M8

20 Tool set comprising:
- Extension 75 mm
- Cross-grip
- Six-point socket ⌀ 13

21 Cartridge press

Permitted loads

The recommended partial safety factors of the resistance of the ultimate limit state (GZT), an influencing factor of exposure time=1.20, and a partial safety factor of exposure γ_F =1.40 are taken into account.

	TWL®-ALU-RF	TWL®-ALU-RL
$F_{V,zul}$	1.15 - 3.35	1.25 - 3.80
$F_{ZL,zul}$	2.35 - 3.05	2.05 - 2.15
$F_{DL,zul}$	4.15 - 7.05	3.85 - 4.45
$F_{ZA,zul}$	1.25 - 4.10	1.50 - 5.80
$F_{DA,zul}$	1.20 - 5.25	1.30 - 7.35

$F_{V,zul}$ kN Permitted transverse force on fixation element

$F_{ZL,zul}$ kN Permitted lateral tensile force on fixation element

$F_{DL,zul}$ kN Permitted lateral compressive stress on fixation element

$F_{ZA,zul}$ kN Permitted axial tensile force on fixation element

$F_{DA,zul}$ kN Permitted axial tensile force on fixation element

Further information and explanations can be found in the current technical documentation. For safety-relevant loads, the provisions of the general building supervisory approval Z-10.9-578 apply.

Supporting bracket TWL®-ALU-RF / -RL

The problem
Infiltrations in thermal insulation composite systems constitute an increased risk for water entering or the formation of condensate water and mould.

The solution
With the supporting brackets TWL®-ALU-RF / -RL these high demands can be certainly met. Pulley blocks and hand railings can be securely attached with a power-grip to the supporting brackets TWL®-ALU-RF / -RL.

Your benefit
The support plate facilitates drilling and the placement of threaded rods. In addition, fixation can be completed in one work step. This saves time and reduces your costs. The supporting brackets TWL®-ALU-RF / -RL can also be used for increased load.

Your advantages
✓ No thermal bridges
✓ No water infiltration
✓ No damages
✓ Power-grip assembly for heavy loads
✓ Support plate to facilitate fixation

The product
Supporting brackets TWL®-ALU-RF / -RL are made of black-coloured, rot-resistant CFC-free PU rigid foam (polyurethane) with a foamed steel sheet panel for the non-positive screw attachment with the anchorage, an aluminium plate for screwing the attachment part and a compact plate (HPL), which ensures optimum distribution of pressure on the surface.

Dimensions
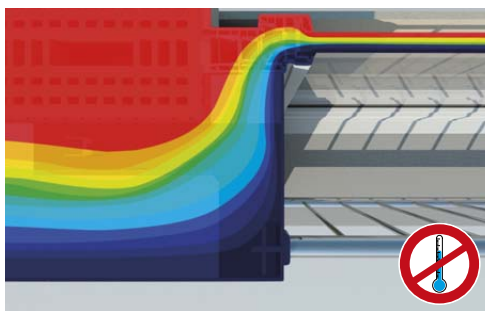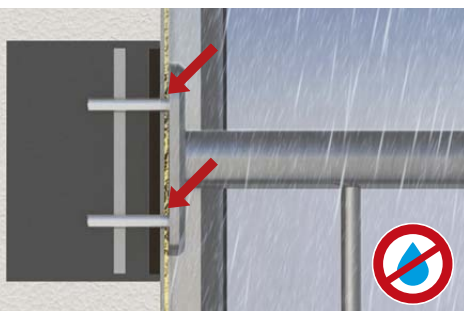- Base surface: 320 x 125 mm
- Types: 80 – 300 mm
- Useable surface area: 97 x 45 mm
- Hole distance: 120 x 100 mm
- Volumetric weight PU: 450 kg/m³

Test certificates / Assessments

National technical approval
AbZ Z-10.9-578

Mechanical testing
Report no. 5214016860