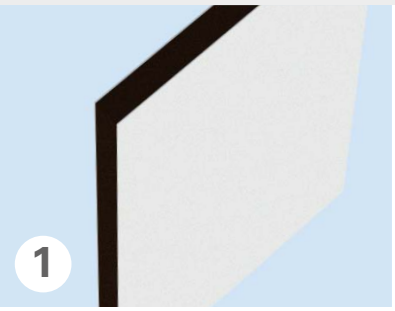
**Supporting bracket TRA-WIK®-ALU-RF / -RL**

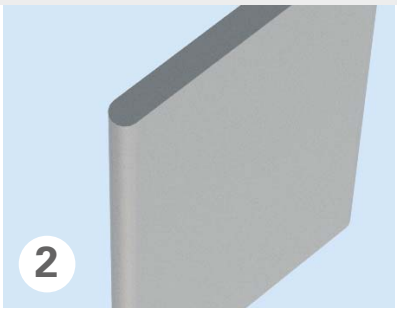

# Dosteba

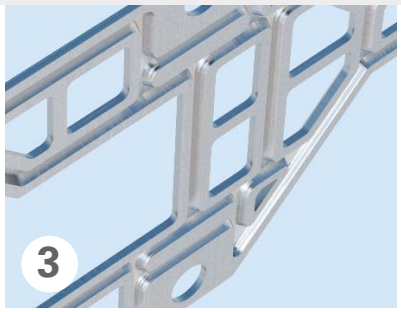
*Elemente sind*
*Elements are*
*unsere Stärke*
*our strength*

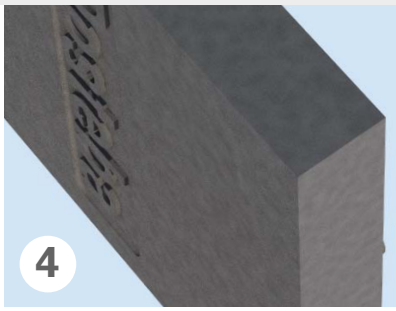
# Supporting bracket TRA-WIK®-ALU-RF / -RL

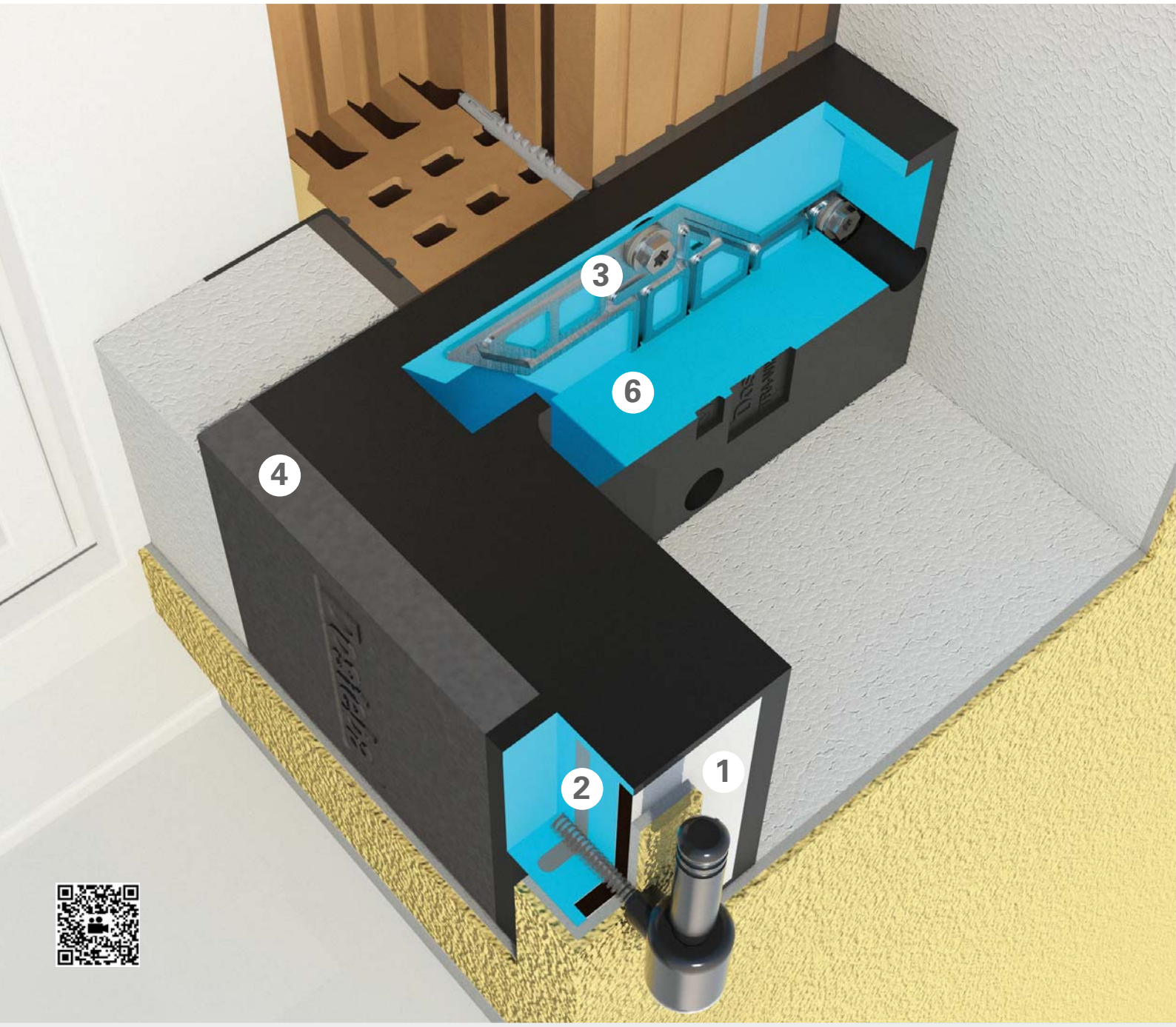
**Thermal bridge-free fixation in thermal insulation composite systems**




## Assembly

## Fastening material, tools and loads

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 350 kg/m³
7 Screw-plug SXRL 10 x 100 FUS
8 Injection-threaded rod
- FIS A M8 x 130 (for masonry)
- FIS A M8 x 110 (for concrete)
9 Injection-anchor sleeve
FIS H 12 x 85 K
10 Injection-mortar FIS VS 300 T
11 Injection-mortar FIS V 360 S
12 Static mixer FIS S
13 Hard metal-hammer drill
- Ø10 mm, drill length 210 mm
- Ø12 mm, drill length 210 mm
- Ø10 mm, drill length 450 mm
14 Tool set, comprising:
- 2 Coupling shafts 150 mm
- 2 Bits Torx T40
15 Drilling gauge
UMP® / TRA-WIK® / TWL®
16 Ejector pistol ABG
17 Set of brushes FIS, Ø14 / 20 mm
18 Cleaning brush BS, Ø10 mm / M8
19 Milling Cutter Set, comprising:
- Extension 75 mm
- Cross-grip
- Six-point socket ⎔ 13
20 Ejector pistol metal FIS AM

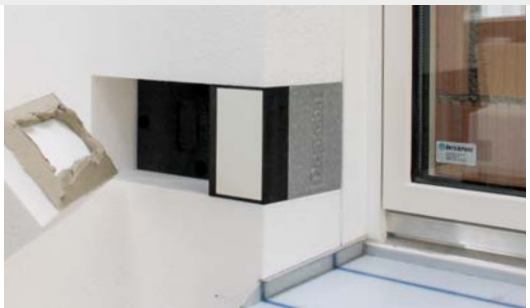
### Permitted loads

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 $\gamma_F$ =1.40 are taken into account.

| | TRA-WIK®-ALU-RF | TRA-WIK®-ALU-RL |
|---|---|---|
| $F_{V,zul}$ | 0.45 - 1.65 | 0.55 - 2.60 |
| $F_{ZL,zul}$ | 1.30 - 1.65 | 0.95 - 1.10 |
| $F_{DL,zul}$ | 2.05 - 3.50 | 1.70 - 2.05 |
| $F_{ZA,zul}$ | 0.58 - 2.70 | 0.70 - 4.70 |
| $F_{DA,zul}$ | 0.56 - 2.35 | 0.59 - 3.00 |

$F_{V,zul}$ 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-10.9-648 apply.




# Supporting bracket TRA-WIK®-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

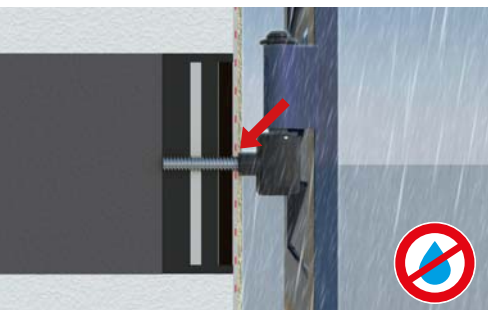
With the supporting brackets TRA-WIK®-ALU-RF / -RL these high demands can be certainly met. Pulley blocks and hand railings can be securely attached with a power-grip to the supporting brackets TRA-WIK®-ALU-RF / -RL.

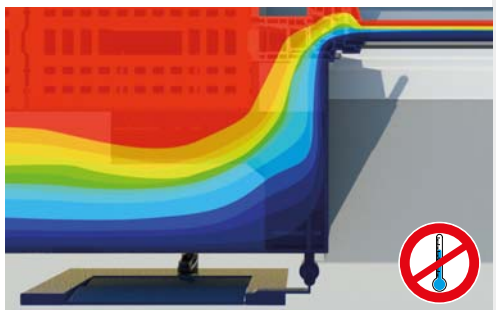
## Your benefit

Supporting brackets TRA-WIK®-ALU-RF / -RL are further developed and improved fixation elements which have proven effective for years. Installation is easy and requires no special tools.

## Your advantages

- ✓ No thermal bridges
- ✓ No water infiltration
- ✓ No damages
- ✓ Power-grip assembly for middle loads
- ✓ Proven and cost-effective system





## The product

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

Dimensions

| | |
|---|---|
| - Base surface: | 280 x 125 mm |
| - Types: | 80 – 300 mm |
| - Useful surface area: | 97 x 45 mm |
| - Hole distance: | 100 x 100 mm |
| - Volumetric weight PU: | 350 kg/m³ |

Deutsches Institut für Bautechnik
German institute for building technology
Z-10.9-648
DIBt

Eidg. Materialprüfungs- und Forschungsanstalt
Laboratoire fédéral d'essai des matériaux et de recherche
5214016800 – 26.09.2017
Empa

**Dosteba AG**
CH-8184 Bachenbülach
Phone: +41 43 277 66 00

**Dosteba GmbH**
D-72770 Reutlingen-Betzingen
Phone: +49 7121 30177 10