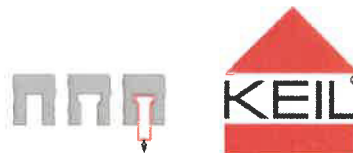




Declaration of Performance

DoP no. 0793-CPR-8.1-7



1. Unique Identification code of the product-type: **Rathscheck KEIL undercut for Rathscheck sleete**
2. Type number: **KH 7; KH 10; KH 15**
3. Intended use or uses of the construction product: **Anchor for the rear fixing of facades panels made of selected natural stones according to EN 1469:2015**
4. Manufacturer: **Rathscheck Schiefer und Dach-Systeme ZN der Wilh. Werhahn KG Neuss, St.-Barbara-Straße 3, 56727 Mayen-Katzenberg, GERMANY**
5. Authorised representative: -
6. System or systems of assessment and verification of constancy of performance: **System 2+**
7. Harmonised Standard: -
8. European evaluation document: **EAD 330030-00-0601**
European Technical Assessment: **ETA-13/0332**
Technical Assessment Body: **DIBt**
Notified Body: **0793 – Güteschutz Beton**

9. Declared Performance:

Mechanical resistance and stability (BWR 1)

Essential characteristic	Performance
Characteristic resistance for tension and shear loads	See Annex C 1
Anchor distances and spacing	See Annex C 1

Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Class A1
Resistance to fire	No performance assessed

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by:

KEIL Befestigungstechnik GmbH

Olpener Str. 13a · 51766 Engelskirchen
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Christian Schmidt

Managing Director

Engelskirchen, 10.10.2019

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Dipl.-Ing. Georg Miebach

Product Manager

Characteristic load-bearing capacity of the anchor

Table C1: Characteristic values for facade panels and reveal panels

Natural stone		Epprechstein yellow ¹⁾	Padang light ¹⁾	Sto-Kilzinger Sandstein ¹⁾
Setting depth	$h_s =$ [mm]	15	10	15
Edge distance	$a_r \geq$ [mm]	100	50	100
Spacing	$a \geq$ [mm]	120	80	120
Characteristic resistance to tension load	$N_{Rk}^{1)} =$ [kN]	4,6	3,6	2,9
Characteristic resistance to shear load	$V_{Rk}^{1)} =$ [kN]	5,1	4,2	3,0

¹⁾ According to Table B3, for other natural stones the characteristic resistances may be determined as follows:

$$N_{Rk} = N_{u,5\%} \cdot \alpha_{exp}$$

$$V_{Rk} = V_{u,5\%} \cdot \alpha_{exp}$$

with:

$$\alpha_{exp} = 1,0 \quad \text{Group of stone I and II}$$

$$\alpha_{exp} = 1,25 \cdot \frac{\sigma_{um,exp}}{\sigma_{um}} \leq 1,0 \quad \text{Group of stone III and IV}$$

$\sigma_{5\%}$, $N_{u,5\%}$ und $V_{u,5\%}$, $\sigma_{um,exp}$ and σ_{um} according to EAD 330030-00-0601, Annex A

Table C2: Characteristic values for facade panels made of sleete ColorSIN CS 50, InterSIN SIN 120 und InterSIN SIN 150

sleete		CS 50 ¹⁾		SIN 120 ¹⁾	SIN 150 ¹⁾
Setting depth	$h_s =$ [mm]	7			
Edge distance	$a_r \geq$ [mm]	50	100	50	
Spacing	$a \geq$ [mm]	100	200	100	
Characteristic resistance to tension load	$N_{Rk} =$ [kN]	1,1	1,5	1,3	1,2
Characteristic resistance to shear load	$V_{Rk} =$ [kN]	1,6	1,9	2,7	3,0

¹⁾ According to Table B2

Rathscheck KEIL undercut anchor for Rathscheck sleete

Performance
Characteristic resistance

Annex C 1