



Declaration of Performance

DoP Nr. 0793-CPR-8.1-2



1. Unique Identification code of the product-type: **Eternit undercut anchor Tergo for Eternit facade panels EQUITONE**
2. Type number: **KH 8**
3. Intended use or uses of the construction product: **Fastener for the rear fixing of facade panels made of fibre-cement according to EN 12467:2012**
4. Manufacturer: **Eternit GmbH, Im Breitspiel 20, 69126 Heidelberg, 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-11/0409**
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 load	See Annex C 1
Anchor distances and spacing	See Annex C 1

Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction of fire	Class A1
Resistance of 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:

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Engelskirchen, 10.10.2019

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Product Manager

Tabelle C1: Characteristic values for the design of the anchor

Parameters of façade panel	Type of facade panel			Natrúa Natura PRO Textura	Pictura	Materia	
	max. panel size	$L_x \times L_y$ $L_y \times L_x$	[mm] x [mm]	3100 x 1500			
	Characteristic bending resistance	$\sigma_{Rk} =$	[N/mm ²]	18,5			
	Partial safety factor ¹⁾	$\gamma_M =$	[-]	2,62	2,94	2,74	
	modulus of elasticity	$E_{mean} =$	[N/mm ²]	12000			
	nominal panel thickness	$h_{nom} =$	[mm]	12			
	Poisson's ratio	$\nu =$	[-]	0,25			
	Dead load	$g_k =$	[kN/m ²]	0,26			
	Coefficient of thermal expansion	$\alpha_T =$	[10 ⁻⁶ K ⁻¹]	10			
	Parameters of anchor	anchorage depth		$h_s =$	[mm]	8	
tension load ²⁾		characteristic resistance	$N_{Rk} =$	[kN]	1,1	1,2	1,0
		edge distance ³⁾	$a_r \geq$	[mm]	50		
					0,1 x a		
		spacing	$a \geq$	[mm]	100 ≤ a ≤ 750		
					a ≤ 400 ⁴⁾		
shear load ²⁾		characteristic resistance	$V_{Rk} =$	[kN]	2,2	2,4	1,7
		edge distance	$a_r \geq$	[mm]	100		
		spacing	$a \geq$	[mm]	200		
Double agraffe		spacing	$a_D \geq$	[mm]	45		
Partial safety factor ¹⁾	$\gamma_M =$	[-]	1,8				

¹⁾ In absence of other national regulations

²⁾ In case of coincident stress of an anchor due to tension and shear load the equation 3 in annex B5 shall be observed

³⁾ The higher value is decisive. For small fitted pieces, differential and fill-in pieces the edge distance and spacing shall be chosen constructively

⁴⁾ For use of the façade panels as soffits

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Performances

Characteristic values for the design of the anchor

Annex C 1