

DECLARATION OF PERFORMANCE  
DoP No. MKT-151 - en

1. Unique identification code of the product-type: **MKT Wedge Anchor B**
2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

**ETA-06/0155, Annex A2**  
**Batch number: see packaging of the product**

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

<b>Generic type</b>	torque controlled expansion anchor (bolt type)
<b>for use in</b>	cracked and uncracked concrete C20/25 – C50/60 (EN 206), for multiple point fixings for non-structural systems only
<b>Option</b>	ETAG 001-06
<b>Loading</b>	static or quasi-static
<b>Material</b>	<u>stainless steel (marking A4):</u> internal and external use without particular aggressive conditions covered sizes: 30 M6, 40 M6  <u>highly corrosion resistant steel (marking HCR):</u> internal and external use with particular aggressive conditions covered sizes: 30 M6, 40 M6
<b>Temperature range</b> (if applicable)	--

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**MKT Metall-Kunststoff-Technik GmbH & Co. KG**  
**Auf dem Immel 2**  
**D - 67685 Weilerbach**

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): --
6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: **System 2+**
7. In case of the declaration of performance concerning a construction product covered by a harmonised standard: --

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

issued **Deutsches Institut für Bautechnik, Berlin**  
 on the basis of **ETA-06/0155**  
**ETAG 001-6**

The notified body 1343-CPR performed under system 2+:

- (i) initial inspection of the manufacturing plant and of factory production control;
- (ii) continuous surveillance, assessment and evaluation of factory production control

and issued: Certificate of Conformity of the factory production control 1343-CPR-M550-25/08.14

9. Declared performance:

Essential characteristics	Design method	Performance	Harmonized technical specification
Characteristic values of resistance	ETAG 001, Annex C	Annex C1	ETAG 001
	CEN/TS 1992-4		
Characteristic values under fire exposure	ETAG 001, Annex C	Annex C1	
	CEN/TS 1992-4		

Where pursuant to Article 37 or 38 in the Specific Technical Documentation has been used, the requirements with which the product complies: --

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:

  
**Stefan Weustenhagen**  
 (General Manager)  
**Weilerbach, 09.05.2018**

i.V.   
**Dipl.-Ing. Detlef Bigalke**  
 (Head of product development)



**Tabelle C1: Charakteristische Werte für die Widerstände, Bemessungsmethode B**

Dübelgröße			30 M6	40 M6
<b>Alle Lastrichtungen</b>				
Charakteristische Tragfähigkeit in C20/25 bis C50/60	$F_{Rk}^0$	[kN]	5	6
Teilsicherheitsbeiwert	$\gamma_M$	[-]	2,16	1,8
Bemessungswert des Widerstandes in C20/25 bis C50/60	$F_{Rd}^0$	[kN]	2,3	3,3
Achsabstand	$s_{cr}$	[mm]	260	370
Randabstand	$c_{cr}$	[mm]	130	185
<b>Stahlversagen mit Hebelarm</b>				
Charakteristischer Biege­widerstand	$M_{Rk,s}^0$ <sup>1)</sup>	[Nm]	10	10
Teilsicherheitsbeiwert	$\gamma_{Ms}$	[-]	1,25	1,25

<sup>1)</sup> Charakteristischer Biege­widerstand  $M_{Rk,s}^0$  in Gleichung (5.5) in ETAG 001, Anhang C bzw. Gleichung (14) CEN/TS 1992-4-4

**Tabelle C2: Charakteristische Werte unter Brandbeanspruchung in Beton C20/25 bis C50/60, Bemessungsmethode B**

Dübelgröße			30 M6	40 M6
<b>Feuerwiderstandsklasse</b>	<b>Für alle Lastrichtungen</b>			
R 30	Charakteristische Tragfähigkeit	$F_{Rk,fi30}^0$	[kN]	0,6
	Charakteristischer Biege­widerstand	$M_{Rk,s,fi30}^0$	[Nm]	0,5
R 60	Charakteristische Tragfähigkeit	$F_{Rk,fi60}^0$	[kN]	0,5
	Charakteristischer Biege­widerstand	$M_{Rk,s,fi60}^0$	[Nm]	0,4
R 90	Charakteristische Tragfähigkeit	$F_{Rk,fi90}^0$	[kN]	0,3
	Charakteristischer Biege­widerstand	$M_{Rk,s,fi90}^0$	[Nm]	0,3
R 120	Charakteristische Tragfähigkeit	$F_{Rk,fi120}^0$	[kN]	0,3
	Charakteristischer Biege­widerstand	$M_{Rk,s,fi120}^0$	[Nm]	0,2
R 30 bis R 120	Achsabstand	$s_{cr,fi}$	[mm]	4 $h_{ef}$
		$s_{min}$	[mm]	50
	Randabstand	$c_{cr,fi}$	[mm]	2 $h_{ef}$
		$c_{min}$	[mm]	50
	Teilsicherheitsbeiwert	$\gamma_{M,fi}$	[-]	1,0
Bei Brandbeanspruchung von mehr als einer Seite, muss der Randabstand des Dübels mehr als 300 mm betragen.				

**Bolzenanker B A4 und B HCR**

**Leistung**

Charakteristische Werte unter Normaltemperatur und Brandbeanspruchung, Bemessungsmethode B

**Anhang C1**