

PRESTATIEVERKLARING

DoP Nr.: MKT-1.2-201_nl

♦ Unieke identificatiecode van het producttype: MKT Wedge anker B A4 en B HCR

→ Beoogd(e) gebruik(en):

Deuvels voor verankering in beton voor redundante niet-

dragende systemen, zie bijlage / Annex B

♦ Fabrikant:

MKT Metall-Kunststoff-Technik GmbH & Co.KG

Auf dem Immel 2 67685 Weilerbach

 Het systeem of de systemen voor de Beoordeling en verificatie van de prestatiebestendigheid:

2+

♦ Europees beoordelingsdocument:

EAD 330747-00-0601

Europese technische beoordeling:

ETA-06/0155, 02.05.2022

Technische beoordelingsinstantie:

DIBt, Berlin

Aangemelde instantie(s):

NB 2873 - Technische Universität Darmstadt

♦ Aangegeven prestatie(s):

Essentiële kenmerken	Prestaties
Brandveiligheid (BWR 2)	•
Brandgedrag	Klasse A1
Brandwerendheid	Bijlage / Annex C1
Veiligheid tijdens gebruik (BWR 4)	
Karakteristieke weerstand voor alle belastingsrichtingen en alle faalwijzen voor de vereenvoudigde ontwerpmethode	Bijlage / Annex C1
Duurzaamheid	Bijlage / Annex B1

De prestaties van het hierboven omschreven product zijn conform de aangegeven prestaties. Deze prestatieverklaring wordt in overeenstemming met Verordening (EU) nr. 305/2011 onder de exclusieve verantwoordelijkheid van de hierboven vermelde fabrikant verstrekt.

Ondertekend voor en namens de fabrikant door:

Stefan Weustenhagen

(Directeur)

Weilerbach, 02.05.2022

Lingalle

Dipl.-Ing. Detlef Bigalke (Hoofd productontwikkeling)



Het origineel van deze prestatieverklaring was in het Duits geschreven. In geval van afwijkingen in de vertaling is de Duitse versie geldig.

Specifications of intended use

Multiple use for non-structural applications according to EN 1992-4:2018				
Wedge Anchor B A4 / B HCR	30 M6	40 M6		
Stainless steel A4	√			
High corrosion resistant steel HCR	✓ ✓ ✓			
Static and quasi-static actions				
Fire exposure				
Cracked and uncracked concrete				

Base materials:

- Reinforced or unreinforced normal weight concrete without fibres according to EN 206:2013 + A1:2016
- Strength classes C20/25 to C50/60 according to EN 206:2013 + A1:2016

Use conditions (Environmental conditions):

- Structures subject to dry internal conditions (all materials)
- For all other conditions:

Anchor version	Use according to EN 1993-1-4:2015 corresponding to the corrosion resistance class CRC according to Annex A, Table A.2
B A4	CRC III
B HCR	CRC V

Design:

- Anchorages are designed under the responsibility of an engineer experienced in anchorages and concrete work.
- Verifiable calculation notes and drawings are prepared taking account of the loads to be anchored. The
 position of the anchor is indicated on the design drawings (e.g. position of the anchor relative to
 reinforcement or to supports, etc.).
- Anchorages are designed according to EN 1992-4:2018 (and EOTA Technical Report TR 055:2018), design method B

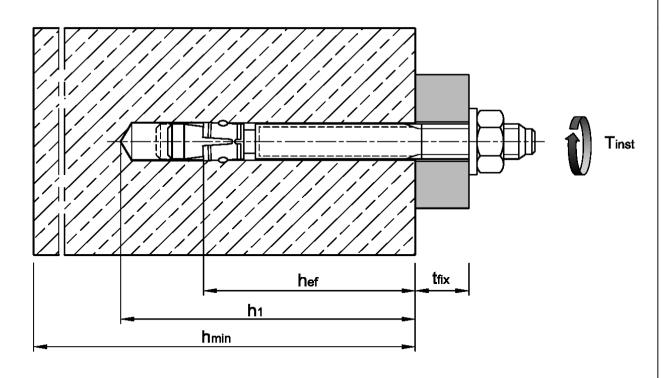
Installation:

- Hole drilling by hammer drill bit or vacuum drill bit.
- Anchor installation such that the effective anchorage depth is complied with. This compliance is ensured,
 if the thickness of fixture is not greater than the maximum thickness of fixture marked on the anchor in
 accordance with Annex A2 and the hexagon nut is placed at the end of the conical bolt as delivered by
 the manufacturer.
- Use of the fastener only as supplied by the manufacturer without exchanging the components of the fastener.

MKT Wedge anchor B A4 and B HCR	
Intended use Specifications	Annex B1

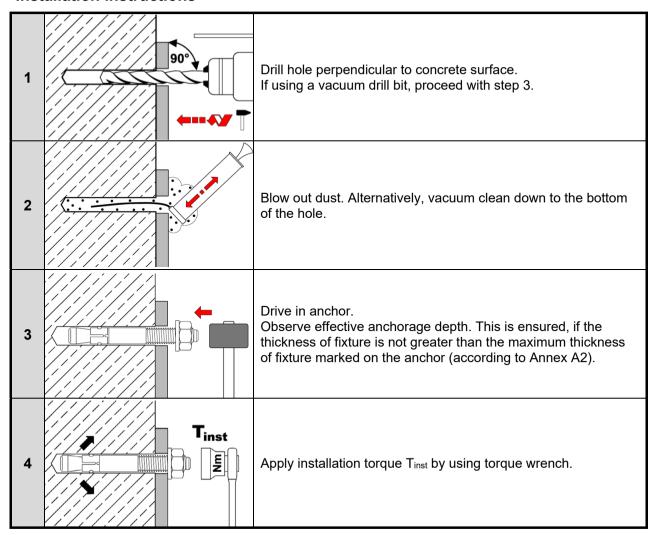
Table B1: Installation parameters

Anchor size			30 M6	40 M6
Nominal drill hole diameter	$d_0 =$	[mm]	6	6
Cutting diameter of drill bit	d _{cut} ≤	[mm]	6,40	6,40
Installation torque	T _{inst} =	[Nm]	8	8
Depth of drill hole	h₁ ≥	[mm]	45	55
Effective embedment depth	h _{ef} ≥	[mm]	30	40
Minimum thickness of concrete member	h _{min}	[mm]	80	80
Minimum spacing	Smin	[mm]	50	50
Minimum edge distance	C _{min}	[mm]	50	50
Diameter of clearance hole in the fixture	d _f ≤	[mm]	7	7



MKT Wedge anchor B A4 and B HCR	
Intended use Installation parameters	Annex B2

Installation instructions



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Table C1: Characteristic values of resistance, design method B

Anchor size			30 M6	40 M6
All load directions				
Characteristic resistance in C20/25 to C50/60	F ⁰ _{Rk}	[kN]	5	6
Partial factor 1)	γм	[-]	2,16	1,8
Design resistance in C20/25 to C50/60	F ⁰ Rd	[kN]	2,3	3,3
Spacing	Scr	[mm]	260	370
Edge distance	C _{cr}	[mm]	130	185
Shear load with lever arm				
Characteristic bending resistance	M ⁰ _{Rk,s}	[Nm]	10	10
Partial factor 1)	γ̃Ms	[-]	1,25	1,25

¹⁾ in absence of other national regulations

Table C2: Characteristic values under fire exposure in concrete C20/25 to C50/60, design method B

Anchor size				30 M6 40 M6
Fire resistance class	In any load direction			
R 30	Characteristic resistance	$F^0_{Rk,fi30}$	[kN]	0,6
K 30	Characteristic bending resistance	M^0 Rk,s,fi30	[Nm]	0,5
R 60	Characteristic resistance	$F^0_{Rk,fi60}$	[kN]	0,5
K 00	Characteristic bending resistance	M^0 _{Rk,s,fi60}	[Nm]	0,4
D 00	Characteristic resistance	$F^0_{Rk,fi90}$	[kN]	0,3
R 90	Characteristic bending resistance	$M^0_{Rk,s,fi90}$	[Nm]	0,3
R 120	Characteristic resistance	F ⁰ _{Rk,fi120}	[kN]	0,3
R 120	Characteristic bending resistance	M^0 _{Rk,s,fi120}	[Nm]	0,2
	Chaoing	Scr,fi	[mm]	4 h _{ef}
R 30	Spacing	Smin	[mm]	50
to	Edge distance	C _{cr,fi}	[mm]	2 h _{ef}
R 120	Edge distance	C _{min}	[mm]	50
	Partial factor	γM,fi	[-]	1,0
If the fire attacks from r	more than one side, the edge distance	e of the anch	or shall be	≥ 300 mm.

MKT Wedge anchor B A4 and B HCR	
Performances Characteristic resistances under normal ambient temperature and fire exposure, design method B	Annex C1