

## SUORITUSTASOILMOITUS

DoP Nro: **MKT-1.2-201\_fi**

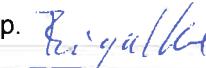
- ◊ **Tuotetyypin yksilöllinen tunniste:** **MKT Kiila-ankkuri B A4 ja B HCR**
- ◊ **Aiottu käyttötarkoitus (aiotut käyttötarkoitukset):** Kiinnitin käytettäväksi betonissa tarpeettomille ei-rakenteellisille järjestelmineille, katso liite / Annex B
- ◊ **Valmistaja:** **MKT Metall-Kunststoff-Technik GmbH & Co.KG**  
Auf dem Immel 2  
67685 Weilerbach
- ◊ **Suoritustason pysyvyyden arvioinnissa ja varmentamisessa käytetty järjestelmä/käytetyt järjestelmät:** 2+
- ◊ **Eurooppalainen arvointiasiakirja:** **EAD 330747-00-0601**  
Eurooppalainen tekninen arvointi:  
Teknisestä arvioinnista vastaava laitos:  
Ilmoitettu laitos/ilmoitetut laitokset:
- ETA-06/0155, 02.05.2022  
DIBt, Berlin  
NB 2873 – Technische Universität Darmstadt
- ◊ **Ilmoitettu suoritustaso/ilmoitetut suoritustasot:**

Olenaiset ominaisuudet	Suoritustaso
<b>Paloturvallisuus (BWR 2)</b>	
Palokäyttäytyminen	Luokka A1
Palonkestävyys	Liite / Annex C1
<b>Käyttöturvallisuus käytössä (BWR 4)</b>	
Ominaisvastus kaikille kuorman suunnille ja kaikille vikatiloille yksinkertaistetulle suunnittelumenetelmälle	Liite / Annex C1
Kierrätettävyys	Liite / Annex B1

Edellä yksilöidyn tuotteen suoritustaso on ilmoitettujen suoritustasojen joukon mukainen. Tämä suoritustasoilmoitus on asetuksen (EU) N:o 305/2011 mukaisesti annettu edellä ilmoitetun valmistajan yksinomaisella vastuulla.

Valmistajan puolesta allekirjoittanut:

  
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(Toimitusjohtaja)  
**Weilerbach, 02.05.2022**

p.p.   
**Dipl.-Ing. Detlef Bigalke**  
(Tuotekehityksen johtaja)



Tämän suoritusilmouksen alkuperäinen teksti on kirjoitettu saksaksi. Jos käänökset poikkeavat toisistaan, saksankielinen versio on pätevä.

## Specifications of intended use

<u>Multiple use for non-structural applications according to EN 1992-4:2018</u>		
<b>Wedge Anchor B A4 / B HCR</b>	<b>30 M6</b>	<b>40 M6</b>
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:

<b>Anchor version</b>	<b>Use according to EN 1993-1-4:2015 corresponding to the corrosion resistance class CRC according to Annex A, Table A.2</b>
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.

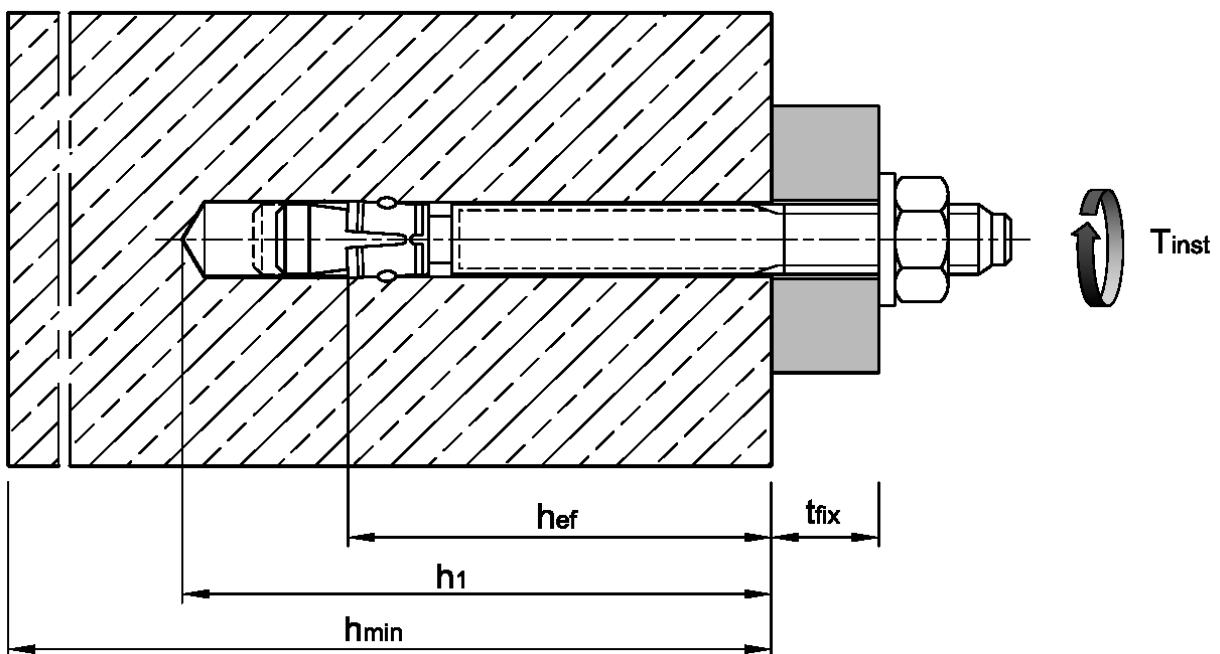
**MKT Wedge anchor B A4 and B HCR**

**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	$d_{cut} \leq$	[mm]	6,40	6,40
Installation torque	$T_{inst} =$	[Nm]	8	8
Depth of drill hole	$h_1 \geq$	[mm]	45	55
Effective embedment depth	$h_{ef} \geq$	[mm]	30	40
Minimum thickness of concrete member	$h_{min}$	[mm]	80	80
Minimum spacing	$s_{min}$	[mm]	50	50
Minimum edge distance	$c_{min}$	[mm]	50	50
Diameter of clearance hole in the fixture	$d_f \leq$	[mm]	7	7

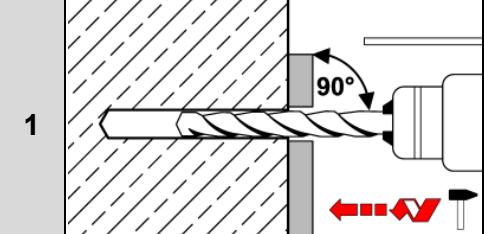
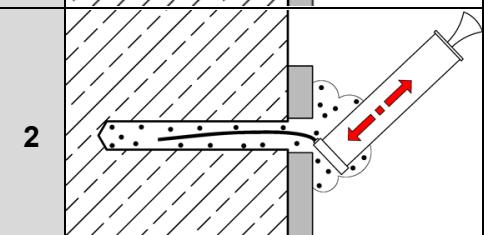
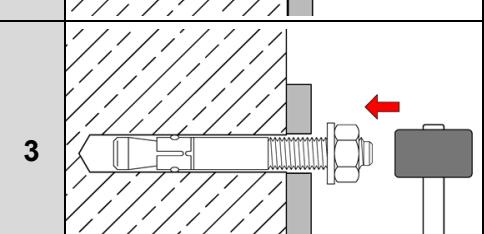
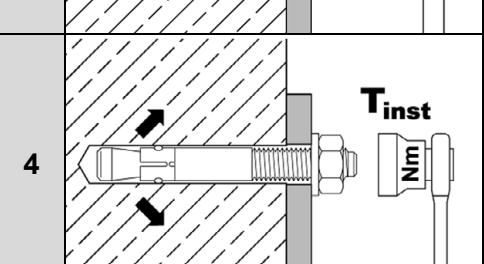


MKT Wedge anchor B A4 and B HCR

Intended use  
Installation parameters

Annex B2

## Installation instructions

1		Drill hole perpendicular to concrete surface. If using a vacuum drill bit, proceed with step 3.
2		Blow out dust. Alternatively, vacuum clean down to the bottom of the hole.
3		Drive in anchor. Observe effective anchorage depth. This is ensured, if the thickness of fixture is not greater than the maximum thickness of fixture marked on the anchor (according to Annex A2).
4		Apply installation torque $T_{inst}$ by using torque wrench.

MKT Wedge anchor B A4 and B HCR

Intended use  
Installation instructions

Annex B3

**Table C1: Characteristic values of resistance, design method B**

Anchor size	30 M6	40 M6
<b>All load directions</b>		
Characteristic resistance in C20/25 to C50/60	$F^0_{Rk}$ [kN]	5
Partial factor <sup>1)</sup>	$\gamma_M$ [-]	2,16
Design resistance in C20/25 to C50/60	$F^0_{Rd}$ [kN]	2,3
Spacing	$s_{cr}$ [mm]	260
Edge distance	$c_{cr}$ [mm]	130
<b>Shear load with lever arm</b>		
Characteristic bending resistance	$M^0_{Rk,s}$ [Nm]	10
Partial factor <sup>1)</sup>	$\gamma_{Ms}$ [-]	1,25

<sup>1)</sup> 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
	Characteristic bending resistance $M^0_{Rk,s,fi30}$ [Nm]	0,5
R 60	Characteristic resistance $F^0_{Rk,fi60}$ [kN]	0,5
	Characteristic bending resistance $M^0_{Rk,s,fi60}$ [Nm]	0,4
R 90	Characteristic resistance $F^0_{Rk,fi90}$ [kN]	0,3
	Characteristic bending resistance $M^0_{Rk,s,fi90}$ [Nm]	0,3
R 120	Characteristic resistance $F^0_{Rk,fi120}$ [kN]	0,3
	Characteristic bending resistance $M^0_{Rk,s,fi120}$ [Nm]	0,2
R 30 to R 120	Spacing $s_{cr,fi}$ [mm]	4 $h_{ef}$
	$s_{min}$ [mm]	50
	Edge distance $c_{cr,fi}$ [mm]	2 $h_{ef}$
	$c_{min}$ [mm]	50
	Partial factor $\gamma_{M,fi}$ [-]	1,0

If the fire attacks from more than one side, the edge distance of the anchor shall be  $\geq 300$  mm.

#### MKT Wedge anchor B A4 and B HCR

#### Performances

Characteristic resistances under normal ambient temperature and fire exposure, design method B

#### Annex C1