ДЕКЛАРАЦИЯ ЗА ЕКСПЛОАТАЦИОННИ ПОКАЗАТЕЛИ

DoP № **MKT-1.2-201**_bg

◇ **Уникален идентификационен код на типа продукт:**

MKT болтова котва B A4 и B HCR

◇ **Предвидена употреба/употреби:**

Дюбели от неръждаема стомана с размери 30 M6 и 40 M6, предназначени за използване като множество фиксиращи елементи от неструктурни системи от бетон, виж приложение Б /Annex B

◇ **Производител:**

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

Система/системи за оценяване и проверка на постоянството на експлоатационните показатели:

2+

◇ **Европейски документ за оценяване:**

EAD 330747-00-0601

Европейска техническа оценка: **ETA-06/0155, 02.05.2022**

Орган за техническа оценка: DIBt, Berlin

отифициран орган/органи: NB 2873 – Technische Universität Darmstadt

◇ **Декларирани експлоатационни показатели:**

Съществени характеристики	Експлоатационни показатели
Безопасност в случай на пожар (BWR 2)	
на поведение при пожар	клас A1
пожароустойчивост	Приложение / Annex C1
Безопасност по време на употреба (BWR 4)	
Характерно съпротивление за всички посоки на натоварване и всички режими на повреда за опростения метод на проектиране	Приложение / Annex C1
трайност	Приложение / Annex B1

ксплоатационните показатели на продукта, посочени по-горе, са в съответствие с декларираните експлоатационни показатели. Настоящата декларация за експлоатационни показатели се издава в съответствие с Регламент (ЕС) № 305/2011, като отговорността за нея се носи изцяло от посочения по-горе производител.

Подписано за и от името на производителя от:

Stefan Weustenhagen
(Управител)
Weilerbach, 02.05.2022

p.p. Dipl.-Ing. Detlef Bigalke
(Продуктов мениджър)

Оригиналът на тази декларация за изпълнение е на немски език. В случай на отклонения в превода, немската версия е валидна.

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	$d_{cut} \leq$	[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
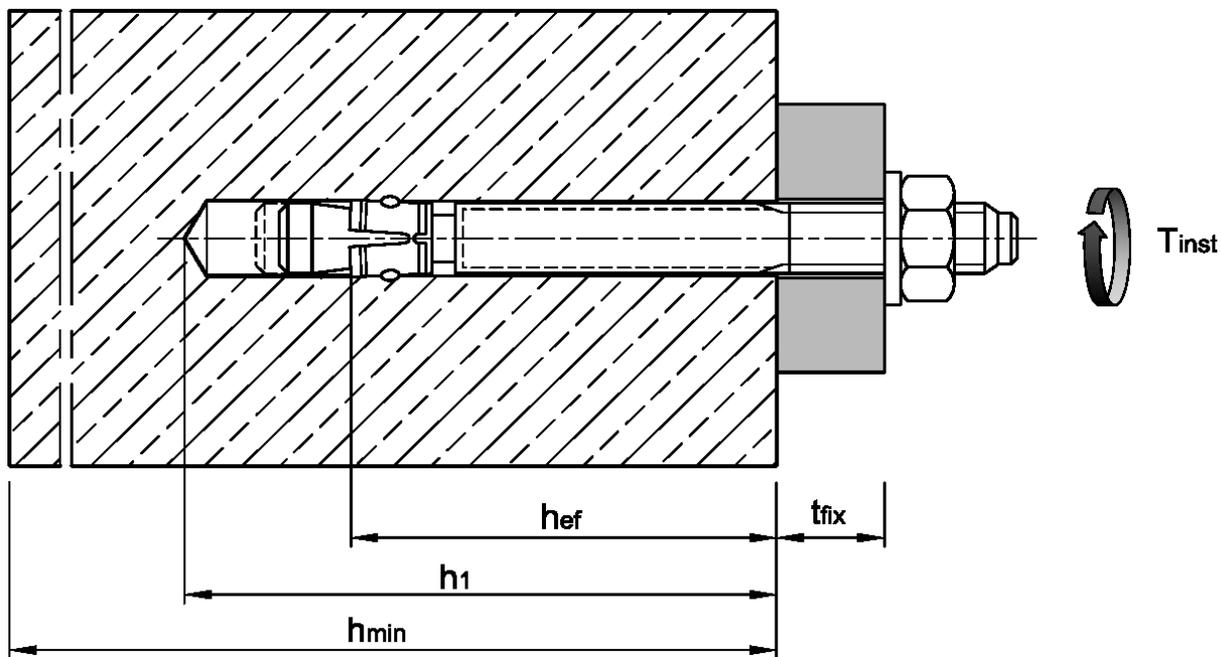
MKT Wedge anchor B A4 and B HCR

Intended use
Installation parameters

Annex B2

Installation instructions
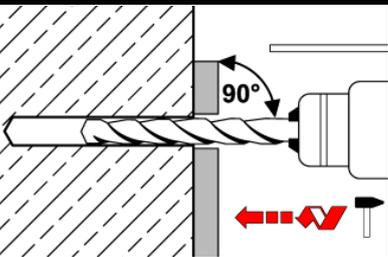
1			Drill hole perpendicular to concrete surface. If using a vacuum drill bit, proceed with step 3.
2			Blow out dust. Alternatively, vacuum clean down to the bottom of the hole.
3			Drive in anchor. Observe effective anchorage depth. This is ensured, if the thickness of fixture is not greater than the maximum thickness of fixture marked on the anchor (according to Annex A2).
4		T_{inst}	Apply installation torque T_{inst} by using torque wrench.
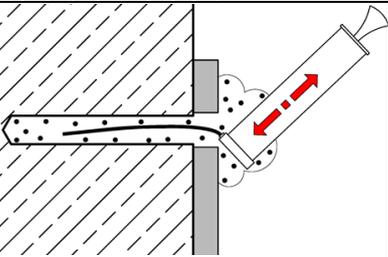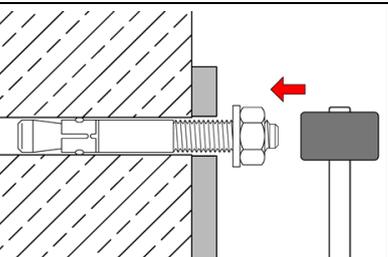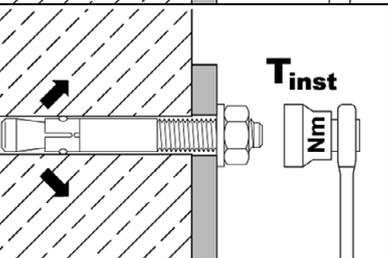
MKT Wedge anchor B A4 and B HCR

Intended use
Installation instructions

Annex B3

Table C1: Characteristic values of resistance, design method B

Anchor size			30 M6	40 M6
All load directions				
Characteristic resistance in C20/25 to C50/60	F^0_{Rk}	[kN]	5	6
Partial factor [1]	γ_M	[-]	2,16	1,8
Design resistance in C20/25 to C50/60	F^0_{Rd}	[kN]	2,3	3,3
Spacing	s_{cr}	[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]	γ_{Ms}	[-]	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
	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 ≥ 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**