

IZJAVA O SVOJSTVIMA

DoP Br. MKT-261 - hr

♦ Jedinstvena identifikacijska oznaka vrste

proizvoda:

Sidro velikih nosivosti SL

♦ Namjena/namjene: Moment kontrolom sidro ekspanzija od pocinčanog čelika

u veličini M10 za sidrenje u betonu uncracked,

vidi Prilog/Annex B

♦ Proizvodač:
MKT Metall-Kunststoff-Technik GmbH & Co.KG

Auf dem Immel 2 67685 Weilerbach

♦ Sustav/sustavi za ocjenu i provjeru

stalnosti svojstava (AVCP):

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→ Europski dokument za ocjenjivanje:

EAD 330232-00-0601 ETA-08/0230, 14.05.2018

Europska tehnička ocjena: Tijelo za tehničko ocjenjivanje:

DIBt, Berlin

Prijavljeno tijelo/prijavljena tijela:

NB 1343 - MPA, Darmstadt

♦ Objavljena svojstva:

Bitnih značajka	Svojstva		
TEMELJNI ZAHTJEVI ZA GRAĐEVINE (BWR1)			
Karakteristični otpori za statičke i kvazistatičke opterećenja, Pomaci	Prilog/Annex C1 – C2		
Karakteristični otpori za seizmičke performanse kategorije C1 + C2, Pomaci	NPD (No Performance Determined) bez utvrđenog svojstva		
Sigurnost u slučaju požara (BWR2)			
Ponašanje požara	Klasa A1		
Otpornost na vatru	NPD (No Performance Determined) bez utvrđenog svojstva		

Prije utvrđeno svojstvo proizvoda u skladu je s objavljenim svojstvima. Ova izjava o svojstvima izdaje se, u skladu s Uredbom (EU) br. 305/2011, pod isključivom odgovornošću prethodno utvrđenog proizvođača.

Za proizvođača i u njegovo ime potpisao:

Stefan Weustenhagen (generalni direktor)

Weilerbach, 14.05.2018

Dipl.-Ing. Detlef Bigalke
(Voditelj razvoja proizvoda)



Izvornik ove izjave o izvedbi pisan je na njemačkom jeziku. U slučaju odstupanja u prijevodu vrijedi njemačka verzija.

Specifications of intended use

Anchorages subject to:

• Static or quasi-static action

Base materials:

- Reinforced or unreinforced normal weight concrete without fibres of strength classes C20/25 to C50/60 according to EN 206:2013
- Uncracked concrete

Use conditions (Environmental conditions):

Structures subject to dry internal conditions (zinc plated steel).

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 FprEN 1992-4: 2016 and EOTA Technical Report TR 055.

Installation:

- Anchor installation carried out by appropriately qualified personnel and under the supervision of the person responsible for technical matters of the site.
- Positioning of the drill holes without damaging the reinforcement
- In case of aborted hole: new drilling at a minimum distance away of twice the depth of the aborted hole or smaller distance if the aborted drill hole is filled with high strength mortar and if under shear or oblique tension load it is not in the direction of load application.
- Anchor installation such that the effective anchorage depth is complied with. This compliance is ensured, when the embedment mark of the anchor does no more exceed the concrete surface
- Drilling by hammer drill bit (use of vacuum drill bit is admissible)

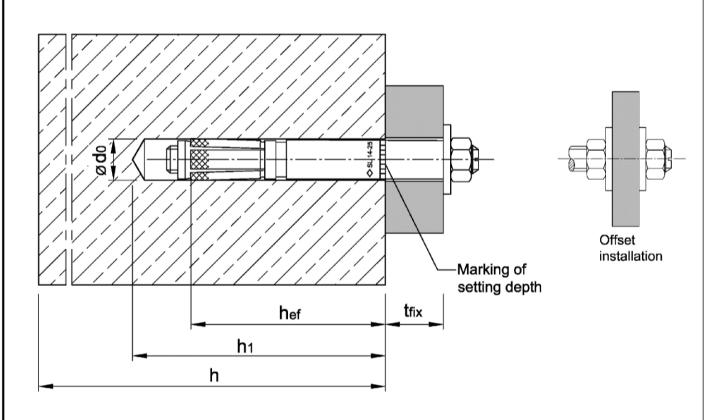
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Installation instructions 90° Drill hole perpendicular to concrete surface. 1 Using a vacuum drill bit, proceed with step 3. Blow out dust. Alternatively vacuum clean down 2 to the bottom of the hole. 3 Drive in anchor. TINST Apply tightening torque T_{inst} by using torque 4 wrench.

Highload Anchor SL	
Intended use Installation instructions	Annex B2

Table B1: Installation parameters

Anchor size			14/M10
Size of thread			M10
Effective anchorage depth	h _{ef}	[mm]	65
Nominal diameter of drill bit	d ₀	[mm]	14
Cutting diameter of drill bit	$d_{cut} \leq$	[mm]	14,5
Depth of drill hole	$h_1 \geq$	[mm]	85
Diameter of clearance hole in the fixture mounted on distance sleeve	$d_{f} \leq$	[mm]	16
Diameter of clearance hole in the fixture mounted on threaded bolt	$d_{f} \leq$	[mm]	12
Installation torque	T_{inst}	[Nm]	50
Minimum thickness of member	h _{min}	[mm]	130
Minimum spacing	S _{min}	[mm]	60
Minimum edge distance	C _{min}	[mm]	120



Highload Anchor SL

Intended use Installation parameters Annex B3

Table C1: Characteristic values for tension loads

Anchor size			14/ M 10
Installation factor	γinst	[-]	1,0
Steel failure			
Characteristic resistance	$N_{Rk,s}$	[kN]	46
Partial factor	γ Ms	[-]	1,5
Pull-out failure			
Characteristic resistance in uncracked concrete C20/25	$N_{Rk,p}$	[kN]	20
Increasing factor for N _{Rk,p}	Ψс	[-]	$\left(\frac{\mathrm{f_{ck}}}{20}\right)^{0.5}$
Concrete cone failure			
Effective Anchorage depth	h _{ef}	[mm]	65
Spacing	S _{cr,N}	[mm]	3 h _{ef}
Edge distance	$C_{cr,N}$	[mm]	1,5 h _{ef}
Factor k₁	$k_{ucr,N}$	[-]	11,0
Splitting failure			
Characteristic resistance in uncracked concrete	$N^0_{Rk,sp}$	[kN]	min [N _{Rk,p} ;N ⁰ _{Rk,c}]
Spacing	S _{cr,sp}	[mm]	6 h _{ef}
Edge distance	C _{cr,sp}	[mm]	3 h _{ef}

 Table C2:
 Displacements under tension loads

Anchor size	14/M10		
Tension load in uncracked concrete	Ν	[kN]	9,5
Diaplacement	δ_{N0}	[mm]	0,3
Displacement	$\delta_{N\infty}$	[mm]	0,6

Highload Anchor SL	
Performance Characteristic values and displacements under tension load	Annex C1

Table C3: Characteristic values for shear loads

Anchor size			14/M10		
Steel failure without lever arm					
Characteristic resistance, fixture mounted on distance sleeve with t _{fix} ≤ 75 mm	$V^0_{Rk,s}$	[kN]	32,8		
Characteristic resistance, fixture mounted on distance sleeve with t _{fix} > 75 mm	$V^0_{Rk,s}$	[kN]	23,2		
Factor	k_7	[-]	1,0		
Partial factor	γMs	[-]	1,25		
Steel failure with lever arm					
Characteristic resistance	${\sf M^0}_{\sf Rk,s}$	[Nm]	60		
Partial factor	γMs	[-]	1,25		
Concrete pry-out failure					
Factor	k ₈	[-]	2,0		
Concrete edge failure					
Effective length of anchor in shear loading	l _f	[mm]	65		
Outside diameter of anchor	d_{nom}	[mm]	14		

Table C4: Displacements under shear loads

Anchor size	14/M10		
Shear load in uncracked concrete	V	[kN]	13,2
Dianlacement	δ_{V0}	[mm]	2,2
Displacement	$\delta_{V^{\infty}}$	[mm]	3,3

Highload Anchor SL	
Performance Characteristic values and displacements under shear load	Annex C2