

IZJAVA O SVOJSTVIMA
DoP-br. MKT-122- hr

1. Jedinствена identifikacijska oznaka vrste proizvoda: **MKT sidro velikih nosivosti SZ**
2. Tip, serija ili serijski broj ili bilo koji drugi element kojim se omogućuje identifikacija građevnog proizvoda, kako je potrebno sukladno članku 11. stavku 4.:

ETA-02/0030, Annex A2
Broj proizvodne serije: pogledajte pakiranje

3. Namjeravana uporaba ili uporabe građevnog proizvoda, u skladu s primjenjivim usklađenim tehničkim specifikacijama, kako je predvidio proizvođač:

Vrsta proizvoda	sidro aktivirano zateznom silom
Za uporabu u	g napuknuti i nenapuknuti beton C20/25 - C50/60 (EN 206)
Izbor	1
Opterećenje	statički ili kvazi-statički: sve dimenzije seizmički, kategorija C1 + C2: - važeće dimenzije: SZ-B + SZ-S (12/M8, 15/M10, 18/M12, 24/M16, 24/M16L, 28/M20); SZ-SK (12/M8, 15/M10, 18/M12)
Materijal	<u>Pocinčani čelik:</u> samo u suhim interijerima - važeće dimenzije: SZ-B (10/M6, 12/M8, 15/M10, 18/M12, 24/M16, 24/M16L, 28/M20) SZ-S (10/M6, 12/M8, 15/M10, 18/M12, 24/M16, 24/M16L, 28/M20) SZ-SK (10/M6, 12/M8, 15/M10, 18/M12) <u>Nehrđajući čelik (oznaka A4)</u> u unutarnjim i vanjskim prostorima, bez posebno agresivnim uvjetima - važeće dimenzije: SZ-B (12/M8, 15/M10, 18/M12, 24/M16) SZ-S (12/M8, 15/M10, 18/M12, 24/M16) SZ-SK (12/M8, 15/M10, 18/M12)
Raspon temperature (možda)	--

4. Ime, registrirani trgovački naziv ili registrirani žig i kontaktna adresa proizvođača, kako je potrebno sukladno članku 11. stavku 5.:

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

5. Prema potrebi, ime i kontaktna adresa ovlaštenog predstavnika čije ovlaštenje obuhvaća zadatke pobliže označene u članku 12. stavku 2.: --
6. Sustav ili sustavi ocjenjivanja i provjere stalnosti svojstava građevnog proizvoda, kako je utvrđeno u Prilogu V.:
Sustav 1
7. U slučaju Izjave o svojstvima u vezi s građevnim proizvodom obuhvaćenim usklađenom normom:
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8. U slučaju izjave o svojstvima koja se odnosi na građevni proizvod za koji je izdana europska tehnička ocjena:

Deutsches Institut für Bautechnik, Berlin

izdan:

ETA-02/0030

na temelju

EAD 330232-00-0601

Ovlaštena kuća izdaje: 1343-CPR, prema sustavu 1:

- i) utvrđivanja vrste proizvoda na temelju ispitivanja tipa (uključujući uzorkovanje), izračuna tipa, tabličnih vrijednosti ili opisne dokumentacije proizvoda;
- ii) početnu inspekciju proizvodnog pogona i kontrolu tvorničke proizvodnje;
- iii) stalni nadzor, ocjenjivanje i vrednovanje kontrole tvorničke proizvodnje

i izdano: Certifikat o stalnosti svojstava 1343-CPR-M 550-9

9. Objavljeno svojstvo:


Bitne značajke	Metoda	Svojstva		Usklađena tehnička specifikacija
		Pocinčani čelik	A4	
Karakteristična otpornost na vlačne sile	FprEN 1992-4:2016 und TR 055	Annex C1, C2	Annex C1, C3	EAD 330232-00-0601
Karakteristična otpornost sile na odrez	FprEN 1992-4:2016 und TR 055	Annex C4	Annex C5	
Karakteristična otpornost na seizmička opterećenja	FprEN 1992-4:2016 und TR 055	Annex C6	Annex C7	
Pomak u korištenju	FprEN 1992-4:2016 und TR 055	Annex C9	Annex C10	
Karakterističan otpor prema izloženosti vatri	FprEN 1992-4:2016 und TR 055	Annex C8	Annex C8	

U slučaju kada je sukladno članku 37. ili 38. upotrijebljena specifična tehnička dokumentacija, zahtjevi s kojima je proizvod usklađen: --

10. Svojstvo proizvoda utvrđeno u točkama 1. i 2. u skladu je s objavljenim svojstvom u točki 9.

Ova izjava o svojstvima objavljena je pod isključivom odgovornošću proizvođača identificiranog u točki 4.

Za proizvođača i u njegovo ime potpisao:


Stefan Weustenhagen
 (Managing Director)
Weilerbach, 22.08.2017

i.V. 
Dipl.-Ing. Detlef Bigalke
 (Head of Product Development)



Table C1: Characteristic values for **tension load, cracked concrete** under static or quasi-static action, **steel zinc plated**

Anchor size			10/M6	12/M8	15/M10	18/M12	24/M16	24/M16L	28/M20	
Installation safety factor	γ_{inst}	[-]	1,0							
Steel failure										
Characteristic resistance	$N_{Rk,s}$	[kN]	16	29	46	67	126	126	196	
Partial safety factor	γ_{Ms}	[-]	1,5							
Pull-out failure										
Characteristic resistance in cracked concrete C20/25	$N_{Rk,p}$	[kN]	5	12	16	1)	1)	1)	1)	
Increasing factor for $N_{Rk,p}$	ψ_C	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,5}$							
Concrete cone failure										
Effective anchorage depth	h_{ef}	[mm]	50	60	71	80	100	115	125	
Factor for k_1	$k_{cr,N}$	[-]	7,7							

1) Pull-out is not decisive.

Table C2: Characteristic values for **tension load, cracked concrete** under static or quasi-static action, **stainless steel A4**

Anchor size			12/M8	15/M10	18/M12	24/M16
Installation safety factor	γ_{inst}	[-]	1,0			
Steel failure						
SZ-B						
Characteristic resistance	$N_{Rk,s}$	[kN]	26	41	60	110
Partial safety factor	γ_{Ms}	[-]	1,5			
SZ-S and SZ-SK						
Characteristic resistance	$N_{Rk,s}$	[kN]	26	41	60	110
Partial safety factor	γ_{Ms}	[-]	1,87			
Pull-out failure						
Characteristic resistance in cracked concrete C20/25	$N_{Rk,p}$	[kN]	9	16	1)	1)
Increasing factor for $N_{Rk,p}$	ψ_C	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,5}$			
Concrete cone failure						
Effective anchorage depth	h_{ef}	[mm]	60	71	80	100
Factor for k_1	$k_{cr,N}$	[-]	7,7			

1) Pull-out is not decisive.

Highload Anchor SZ

Performance

Characteristic values for **tension load** in **cracked concrete** under static or quasi-static action

Annex C1

Table C3: Characteristic values for tension load in uncracked concrete, under static or quasi-static action, steel zinc plated

Anchor size			10/M6	12/M8	15/M10	18/M12	24/M16	24/M16L	28/M20
Installation safety factor	γ_{inst}	[-]	1,0						
Steel failure									
Characteristic resistance	$N_{Rk,s}$	[kN]	16	29	46	67	126	126	196
Partial safety factor	γ_{Ms}	[-]	1,5						
Pull-out failure									
Characteristic resistance in uncracked concrete C20/25	$N_{Rk,p}$	[kN]	1) ¹⁾	20	1) ¹⁾	1) ¹⁾	1) ¹⁾	1) ¹⁾	1) ¹⁾
Splitting failure (The higher resistance of case 1 and case 2 may be applied.)									
Case 1									
Characteristic resistance in uncracked concrete C20/25	$N^0_{Rk,sp}$	[kN]	12	16	25	30	40	70	50
Edge distance	$C_{cr,sp}$	[mm]	1,5 h_{ef}						
Case 2									
Characteristic resistance in uncracked concrete C20/25	$N^0_{Rk,sp}$	[kN]	17,4	20,0	29,4	35,2	49,2	60,7	68,8
Edge distance	$C_{cr,sp}$	[mm]	2,5 h_{ef}					1,5 h_{ef}	2,5 h_{ef}
Increasing factor for $N_{Rk,p}$ and $N^0_{Rk,sp}$	ψ_C	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,5}$						
Concrete cone failure									
Effective Anchorage depth	h_{ef}	[mm]	50	60	71	80	100	115	125
Edge distance	$C_{cr,N}$	[mm]	1,5 h_{ef}						
Factor for k_1	$k_{ucr,N}$	[-]	11,0						

¹⁾ Pull-out is not decisive.

Highload Anchor SZ

Performance

Characteristic values for **tension load in uncracked concrete**, under static or quasi-static action, **steel zinc plated**

Annex C2

Table C4: Characteristic values for **tension load** in **uncracked concrete** under static or quasi-static action, **stainless steel A4**

Anchor size			12/M8	15/M10	18/M12	24/M16
Installation safety factor	γ_{inst}	[-]	1,0			
Steel failure						
SZ-B						
Characteristic resistance	$N_{Rk,s}$	[kN]	26	41	60	110
Partial safety factor	γ_{Ms}	[-]	1,5			
SZ-S and SZ-SK						
Characteristic resistance	$N_{Rk,s}$	[kN]	26	41	60	110
Partial safety factor	γ_{Ms}	[-]	1,87			
Pull-out failure						
Characteristic resistance in uncracked concrete C20/25	$N_{Rk,p}$	[kN]	16	25	35	1)
Splitting failure						
Characteristic resistance in uncracked concrete C20/25	$N^0_{Rk,sp}$	[kN]	16	25	35	49,2
Edge distance	$c_{cr,sp}$	[mm]	180	235	265	300
Increasing factor for $N_{Rk,p}$ and $N^0_{Rk,sp}$	ψ_C	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,5}$			
Concrete cone failure						
Effective anchorage depth	h_{ef}	[mm]	60	71	80	100
Edge distance	$c_{cr,N}$	[mm]	1,5 h_{ef}			
Factor for k_1	$k_{ucr,N}$	[-]	11,0			

1) Pull-out is not decisive.

Highload Anchor SZ

Performance

Characteristic values for **tension loads** in **uncracked concrete** under static or quasi-static action, **stainless steel A4**

Annex C3

Table C5: Characteristic values of **shear load** under static or quasi-static action, **steel zinc plated**

Anchor size			10/M6	12/M8	15/M10	18/M12	24/M16	24/M16L	28/M20
Steel failure without lever arm									
SZ-B									
Characteristic resistance	$V_{RK,s}$	[kN]	16	25	36	63	91	91	122
Factor	k_7	[-]	1,0						
SZ-S									
Characteristic resistance	$V_{RK,s}$	[kN]	18	30	48	73	126	126	150
Factor	k_7	[-]	1,0						
SZ-SK									
Characteristic resistance	$V_{RK,s}$	[kN]	18	30	48	73	126	126	150
Factor	k_7	[-]	1,0						
Partial safety factor	γ_{Ms}	[-]	1,25						
Steel failure with lever arm									
Characteristic resistance	$M^0_{RK,s}$	[Nm]	12	30	60	105	266	266	519
Partial safety factor	γ_{Ms}	[-]	1,25						
Concrete pry-out failure									
Factor	k_8	[-]	1,8	2,0					
Concrete edge failure									
Effective length of anchor in shear loading	l_f	[mm]	50	60	71	80	100	115	125
Outside diameter of anchor	d_{nom}	[mm]	10	12	15	18	24	24	28

Highload Anchor SZ

Performance
 Characteristic values for **shear load** under static or quasi-static action, **steel zinc plated**

Annex C4

Table C6: Characteristic values for **shear load** under static or quasi-static action, **stainless steel A4**

Anchor size			12/M8	15/M10	18/M12	24/M16
Steel failure without lever arm						
Characteristic resistance	$V_{Rk,s}$	[kN]	24	37	62	92
SZ-B						
Factor	k_7	[-]	1,0			
Partial safety factor	γ_{Ms}	[-]	1,25			
SZ-S						
Factor	k_7	[-]	1,0			
Partial safety factor	γ_{Ms}	[-]	1,36			
SZ-SK						
Factor	k_7	[-]	0,8			
Partial safety factor	γ_{Ms}	[-]	1,36			
Steel failure with lever arm						
Characteristic resistance	$M^0_{Rk,s}$	[Nm]	26	52	92	232
SZ-B						
Factor	k_7	[-]	1,0			
Partial safety factor	γ_{Ms}	[-]	1,25			
SZ-S						
Factor	k_7	[-]	1,0			
Partial safety factor	γ_{Ms}	[-]	1,56			
SZ-SK						
Factor	k_7	[-]	0,8			
Partial safety factor	γ_{Ms}	[-]	1,56			
Concrete pry-out failure						
Factor	k_8	[-]	2,0			
Concrete edge failure						
Effective length of anchor in shear loading	l_f	[mm]	60	71	80	100
Outside diameter of anchor	d_{nom}	[mm]	12	15	18	24

Highload Anchor SZ

Performance
 Characteristic values for **shear load** under static or quasi-static action, **stainless steel A4**

Annex C5

Table C7: Characteristic values for **seismic action, Category C1 and C2, steel zinc plated**

Anchor size			12/M8	15/M10	18/M12	24/M16	24/M16L	28/M20
Tension load								
Installation safety factor	γ_{inst}	[-]	1,0					
Steel failure								
Characteristic tension resistance category C1	$N_{Rk,s,eq,C1}$	[kN]	29	46	67	126	126	196
Characteristic tension resistance category C2	$N_{Rk,s,eq,C2}$	[kN]	29	46	67	126	126	196
Partial safety factor	γ_{Ms}	[-]	1,5					
Pull-out failure								
Characteristic tension resistance category C1	$N_{Rk,p,eq,C1}$	[kN]	12	16	25	36	44,4	50,3
Characteristic tension resistance category C2	$N_{Rk,p,eq,C2}$	[kN]	5,4	16,4	22,6	29,0	41,2	43,6
Shear load								
Steel failure without lever arm								
SZ-B								
Characteristic shear resistance category C1	$V_{Rk,s,eq,C1}$	[kN]	18,0	27,1	43,4	51,9	51,9	96,4
Characteristic shear resistance category C2	$V_{Rk,s,eq,C2}$	[kN]	12,7	20,5	31,5	50,1	50,1	67,1
SZ-S								
Characteristic shear resistance category C1	$V_{Rk,s,eq,C1}$	[kN]	18,0	27,1	43,4	51,9	51,9	96,4
Characteristic shear resistance category C2	$V_{Rk,s,eq,C2}$	[kN]	12,7	20,5	31,5	69,3	69,3	67,1
SZ-SK								
Characteristic shear resistance category C1	$V_{Rk,s,eq,C1}$	[kN]	25,2	36,5	50,4	-	-	-
Characteristic shear resistance category C2	$V_{Rk,s,eq,C2}$	[kN]	19,2	29,3	39,4	-	-	-
Partial safety factor	γ_{Ms}	[-]	1,25					

Highload Anchor SZ

Performance
Characteristic values for **seismic action, steel zinc plated**

Annex C6

Table C8: Characteristic values for seismic action, Category C1 and C2, stainless steel A4

Anchor size			12/M8	15/M10	18/M12	24/M16
Tension load						
Installation safety factor	γ_{inst}	[-]	1,0			
Steel failure						
Characteristic tension resistance, category C1	$N_{Rk,s,eq,C1}$	[kN]	26	41	60	110
Characteristic tension resistance, category C2	$N_{Rk,s,eq,C2}$	[kN]	26	41	60	110
Partial safety factor SZ-B	γ_{Ms}	[-]	1,5			
Partial safety factor SZ-S and SZ-SK	γ_{Ms}	[-]	1,87			
Pull-out failure						
Characteristic tension resistance, category C1	$N_{Rk,p,eq,C1}$	[kN]	9	16	26	36
Characteristic tension resistance, category C2	$N_{Rk,p,eq,C2}$	[kN]	4,8	16,5	24,8	44,5
Shear load						
Steel failure without lever arm						
SZ-B						
Characteristic shear resistance, category C1	$V_{Rk,s,eq,C1}$	[kN]	9,6	13,3	25,4	75,4
Characteristic shear resistance, category C2	$V_{Rk,s,eq,C2}$	[kN]	9,7	14,0	18,0	32,2
Partial safety factor	γ_{Ms}	[-]	1,25			
SZ-S						
Characteristic shear resistance, category C1	$V_{Rk,s,eq,C1}$	[kN]	9,6	13,3	25,4	75,4
Characteristic shear resistance, category C2	$V_{Rk,s,eq,C2}$	[kN]	9,7	14,0	18,0	32,2
Partial safety factor	γ_{Ms}	[-]	1,36			
SZ-SK						
Characteristic shear resistance, category C1	$V_{Rk,s,eq,C1}$	[kN]	11,5	23,3	31,6	-
Characteristic shear resistance, category C2	$V_{Rk,s,eq,C2}$	[kN]	10,8	17,4	15,4	-
Partial safety factor	γ_{Ms}	[-]	1,36			-

Highload Anchor SZ

Performance
Characteristic values for **seismic action, stainless steel A4**

Annex C7

Table C9: Characteristic values under **fire exposure** in cracked and uncracked concrete C20/25 to C50/60

Anchor size		10/M6	12/M8	15/M10	18/M12	24/M16	24/M16L	28/M20	
Tension load									
Steel failure									
Steel zinc plated									
Characteristic resistance	R30	$N_{Rk,s,fi}$	[kN]	1,0	1,9	4,3	6,3	11,6	18,3
	R60			0,8	1,5	3,2	4,6	8,6	13,5
	R90			0,6	1,0	2,1	3,0	5,0	7,7
	R120			0,4	0,8	1,5	2,0	3,1	4,9
Stainless steel A4									
Characteristic resistance	R30	$N_{Rk,s,fi}$	[kN]	-	6,1	10,2	15,7	29,2	-
	R60			-	4,4	7,3	11,1	20,6	-
	R90			-	2,6	4,3	6,4	12,0	-
	R120			-	1,8	2,8	4,1	7,7	-
Shear load									
Steel failure without lever arm									
Steel zinc plated									
Characteristic resistance	R30	$V_{Rk,s,fi}$	[kN]	1,0	1,9	4,3	6,3	11,6	18,3
	R60			0,8	1,5	3,2	4,6	8,6	13,5
	R90			0,6	1,0	2,1	3,0	5,0	7,7
	R120			0,4	0,8	1,5	2,0	3,1	4,9
Stainless steel A4									
Characteristic resistance	R30	$V_{Rk,s,fi}$	[kN]	-	14,3	22,7	32,8	61,0	-
	R60			-	11,1	17,6	25,5	47,5	-
	R90			-	7,9	12,6	18,3	34,0	-
	R120			-	6,3	10,0	14,6	27,2	-
Steel failure with lever arm									
Steel zinc plated									
Characteristic resistance	R30	$M^0_{Rk,s,fi}$	[Nm]	0,8	2,0	5,6	9,7	24,8	42,4
	R60			0,6	1,5	4,1	7,2	18,3	29,8
	R90			0,4	1,0	2,7	4,7	11,9	17,1
	R120			0,3	0,8	1,9	3,1	6,6	10,7
Stainless steel A4									
Characteristic resistance	R30	$M^0_{Rk,s,fi}$	[Nm]	-	6,2	13,2	24,4	61,8	-
	R60			-	4,5	9,4	17,2	43,6	-
	R90			-	2,7	5,6	10,0	25,3	-
	R120			-	1,8	3,6	6,4	16,2	-

If pull-out is not decisive in equation D.4 and D.5, FprEN 1992-4:2016 $N_{Rk,p}$ must be replaced by $N^0_{Rk,c}$.

Highload Anchor SZ

Performance
Characteristic values under **fire exposure**

Annex C8

Table C10: Displacements under tension and shear load, steel zinc plated

Anchor size			10/M6	12/M8	15/M10	18/M12	24/M16	24/M16L	28/M20
Tension load									
Tension load in cracked concrete	N	[kN]	2,4	5,7	7,6	12,3	17,1	21,1	24
Displacement	δ_{N0}	[mm]	0,5	0,5	0,5	0,7	0,8	0,7	0,9
	$\delta_{N\infty}$	[mm]	2,0	2,0	1,3	1,3	1,3	1,3	1,4
Tension load in uncracked concrete	N	[kN]	8,5	9,5	14,3	17,2	24	29,6	34
Displacement	δ_{N0}	[mm]	0,8	1,0	1,1		1,3		0,3
	$\delta_{N\infty}$	[mm]	3,4		1,7		2,3		1,4
Seismic action C2									
Displacement for DLS	$\delta_{N,eq}$ (DLS)	[mm]	-	3,3	3,0	5,0	3,0	3,0	4,0
Displacement for ULS	$\delta_{N,eq}$ (ULS)	[mm]	-	12,2	11,3	16,0	9,2	9,2	13,8
Shear load									
SZ-B									
Shear load in cracked and uncracked concrete	V	[kN]	9,1	14	20,7	35,1	52,1	52,1	77
Displacement	δ_{V0}	[mm]	2,5	2,1	2,7	3,0	5,1	5,1	4,3
	$\delta_{V\infty}$	[mm]	3,8	3,1	4,1	4,5	7,6	7,6	6,5
Seismic action C2									
Displacement for DLS	$\delta_{V,eq}$ (DLS)	[mm]	-	2,3	3,1	3,0	2,6	2,6	1,6
Displacement for ULS	$\delta_{V,eq}$ (ULS)	[mm]	-	4,8	6,4	6,1	6,6	6,6	4,8
SZ-S									
Shear load in cracked and uncracked concrete	V	[kN]	10,1	17,1	27,5	41,5	72	72	77
Displacement	δ_{V0}	[mm]	2,9	2,5	3,6	3,5	7,0	7,0	4,3
	$\delta_{V\infty}$	[mm]	4,4	3,8	5,4	5,3	10,5	10,5	6,5
Seismic action C2									
Displacement for DLS	$\delta_{V,eq}$ (DLS)	[mm]	-	2,3	3,1	3,0	3,3	3,3	1,6
Displacement for ULS	$\delta_{V,eq}$ (ULS)	[mm]	-	4,8	6,4	6,1	8,2	8,2	4,8
SZ-SK									
Shear load in cracked and uncracked concrete	V	[kN]	10,1	17,1	27,5	41,5	72	72	77
Displacement	δ_{V0}	[mm]	2,9	2,5	3,6	3,5	7,0	7,0	4,3
	$\delta_{V\infty}$	[mm]	4,4	3,8	5,4	5,3	10,5	10,5	6,5
Seismic action C2									
Displacement for DLS	$\delta_{V,eq}$ (DLS)	[mm]	-	3,1	3,9	3,9	-	-	-
Displacement for ULS	$\delta_{V,eq}$ (ULS)	[mm]	-	10,2	11,8	13,0	-	-	-

Highload Anchor SZ

Performance
Displacements under tension and shear load, steel zinc plated

Annex C9

Table C11: Displacements under tension and shear load, stainless steel A4

Anchor size			12/M8	15/M10	18/M12	24/M16
Tension load						
Tension load in cracked concrete	N	[kN]	4,3	7,6	12,1	17,0
Displacement	δ_{N0}	[mm]	0,5	0,5	1,3	0,5
	$\delta_{N\infty}$	[mm]	1,2	1,6	1,8	1,6
Tension load in uncracked concrete	N	[kN]	7,6	11,9	16,7	24,1
Displacement	δ_{N0}	[mm]	0,2	0,3	1,2	1,5
	$\delta_{N\infty}$	[mm]	1,1	-	-	-
Seismic action C2						
Displacement for DLS	$\delta_{N,eq(DLS)}$	[mm]	4,7	4,5	4,3	4,9
Displacement for ULS	$\delta_{N,eq(ULS)}$	[mm]	13,3	12,7	9,7	10,1
Shear load						
Shear load in cracked concrete	V	[kN]	13,9	21,1	34,7	50,8
Displacement	δ_{V0}	[mm]	3,4	4,9	4,8	6,7
	$\delta_{V\infty}$	[mm]	5,1	7,4	7,1	10,1
Seismic action C2						
SZ-B, SZ-S						
Displacement for DLS	$\delta_{V,eq(DLS)}$	[mm]	2,8	3,1	2,6	3,3
Displacement for ULS	$\delta_{V,eq(ULS)}$	[mm]	5,6	5,8	5,0	6,9
SZ-SK						
Displacement for DLS	$\delta_{V,eq(DLS)}$	[mm]	2,5	2,8	2,9	-
Displacement for ULS	$\delta_{V,eq(ULS)}$	[mm]	5,8	5,9	6,9	-

Highload Anchor SZ

Performance
Displacements under tension and shear load, **stainless steel A4**

Annex C10