

**DECLARATION OF PERFORMANCE  
DoP No. MKT-121 - en**

1. Unique identification code of the product-type: **MKT Highload Anchor SZ**
2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

**ETA-02/0030, Annex A2  
Batch number: see packaging of the product**

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

<b>generic type</b>	torque controlled expansion anchor (sleeve type)
<b>for use in</b>	cracked and non-cracked concrete C20/25 - C50/60 (EN 206)
<b>option</b>	1
<b>loading</b>	static or quasi-static; seismic, performance category C1 + C2 covered sizes: SZ-B and SZ-S (M8, M10, M12, M16, M16L, M20)
<b>material</b>	<u>zinc-plated steel</u> : dry internal conditions only covered sizes: SZ-B (M6, M8, M10, M12, M16, M16L, M20); SZ-S (M6, M8, M10, M12, M16, M16L, M20); SZ-SK (M6, M8, M10, M12)  <u>stainless steel (marking A4)</u> : internal and external use without particular aggressive conditions covered sizes: SZ-B (M8, M10, M12, M16); SZ-S (M8, M10, M12, M16); SZ-SK (M8, M10, M12)
<b>temperature range (if applicable)</b>	--

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

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

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): --
6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: **System 1**
7. In case of the declaration of performance concerning a construction product covered by a harmonised standard: --

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

**Deutsches Institut für Bautechnik, Berlin**

issued

**ETA-02/0030**

on the basis of

**ETAG 001-2**

The notified body 1343-CPR performed under system 1:

- (i) determination of the product type on the basis of type testing (including sampling), type calculation, tabulated values or descriptive documentation of the product;
- (ii) initial inspection of the manufacturing plant and of factory production control;
- (iii) continuous surveillance, assessment and evaluation of factory production control

and issued: **Certificate of constancy of performance 1343-CPR-M 550-9**

9. Declared performance:

Essential Characteristics	Design Method	Performance		Harmonized Technical Specification
		Steel, zinc-plated	Stainless steel A4	
characteristic resistance for tension	ETAG 001, Annex C CEN/TS 1992-4	Annex C1, C2	Annex C1, C3	ETAG 001
characteristic resistance for shear	ETAG 001, Annex C CEN/TS 1992-4	Annex C4	Annex C5	
characteristic resistance for seismic action	TR 045	Annex C6	Annex C7	
displacement for serviceability limit state	ETAG 001, Annex C CEN/TS 1992-4	Annex C9, C10	Annex C9, C10	
characteristic resistance under fire exposure	ETAG 001, Annex C CEN/TS 1992-4	Annex C8	Annex C8	

Where pursuant to Article 37 or 38 in the Specific Technical Documentation has been used, the requirements with which the product complies: --

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

*L. Weustenhagen*

**Lore Weustenhagen**  
(General Manager)  
**Weilerbach, 28.10.2015**

i.V. *D. Bigalke*

**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	$\gamma_2 = \gamma_{\text{inst}}$ [-]				1,0			
<b>Steel failure</b>								
Characteristic resistance	$N_{Rk,s}$ [kN]	16	29	46	67	126	126	196
Partial safety factor	$\gamma_{Ms}$ [-]				1,5			
<b>Pull-out failure</b>								
Characteristic resistance in cracked concrete C20/25	$N_{Rk,p}$ [kN]	5	12	16	1)	1)	1)	1)
Increasing factor for $N_{Rk,p}$	$\psi_c$ [-]				$\left(\frac{f_{ck,cube}}{25}\right)^{0,5}$			
<b>Concrete cone failure</b>								
Effective anchorage depth	$h_{\text{ef}}$ [mm]	50	60	71	80	100	115	125
Factor acc. to CEN/TS 1992-4	$k_{\text{cr}}$ [-]				7,2			

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	$\gamma_2 = \gamma_{\text{inst}}$ [-]			1,0	
<b>Steel failure</b>					
<b>SZ-B</b>					
Characteristic resistance	$N_{Rk,s}$ [kN]	26	41	60	110
Partial safety factor	$\gamma_{Ms}$ [-]			1,5	
<b>SZ-S and SZ-SK</b>					
Characteristic resistance	$N_{Rk,s}$ [kN]	26	41	60	110
Partial safety factor	$\gamma_{Ms}$ [-]			1,87	
<b>Pull-out failure</b>					
Characteristic resistance in cracked concrete C20/25	$N_{Rk,p}$ [kN]	9	16	1)	1)
Increasing factor for $N_{Rk,p}$	$\psi_c$ [-]			$\left(\frac{f_{ck,cube}}{25}\right)^{0,5}$	
<b>Concrete cone failure</b>					
Effective anchorage depth	$h_{\text{ef}}$ [mm]	60	71	80	100
Factor acc. to CEN/TS 1992-4	$k_{\text{cr}}$ [-]			7,2	

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 non-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	$\gamma_2 = \gamma_{\text{inst}}$	[-]				1,0		
<b>Steel failure</b>								
Characteristic resistance	$N_{Rk,s}$	[kN]	16	29	46	67	126	126
Partial safety factor	$\gamma_{Ms}$	[-]				1,5		
<b>Pull-out failure</b>								
Characteristic resistance in non-cracked concrete C20/25	$N_{Rk,p}$	[kN]	1)	20	30	1)	1)	1)
<b>Splitting failure</b> (The higher resistance of Case 1 and Case 2 may be applied.)								
Case 1								
Characteristic resistance in concrete C20/25	$N^0_{Rk,sp}$	[kN]	12 <sup>2)</sup>	16 <sup>2)</sup>	25 <sup>2)</sup>	30 <sup>2)</sup>	40 <sup>2)</sup>	70
Spacing	$s_{cr,sp}$	[mm]				3 $h_{\text{ef}}$		
Edge distance	$c_{cr,sp}$	[mm]				1,5 $h_{\text{ef}}$		
Case 2 (acc. to ETAG 001, Annex C, equation (5.3))								
Spacing	$s_{cr,sp}$	[mm]			5 $h_{\text{ef}}$		3 $h_{\text{ef}}$	5 $h_{\text{ef}}$
Edge distance	$c_{cr,sp}$	[mm]			2,5 $h_{\text{ef}}$		1,5 $h_{\text{ef}}$	2,5 $h_{\text{ef}}$
Increasing factor for $N_{Rk,p}$ and $N^0_{Rk,sp}$	$\psi_c$	[-]			$\left(\frac{f_{ck,cube}}{25}\right)^{0,5}$			
<b>Concrete cone failure</b>								
Effective Anchorage depth	$h_{\text{ef}}$	[mm]	50	60	71	80	100	115
Factor acc. to CEN/TS 1992-4	$k_{ucr}$	[-]				10,1		125

<sup>1)</sup> Pull-out is not decisive.

<sup>2)</sup> For the proof against splitting failure,  $N^0_{Rk,c}$  has to be replaced by  $N^0_{Rk,sp}$ .

## Highload Anchor SZ

### Performance

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

### Annex C2

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

Anchor size			12/M8	15/M10	18/M12	24/M16
Installation safety factor	$\gamma_2 = \gamma_{\text{inst}}$	[-]			1,0	
<b>Steel failure</b>						
<b>SZ-B</b>						
Characteristic resistance	$N_{Rk,s}$	[kN]	26	41	60	110
Partial safety factor	$\gamma_{Ms}$	[-]			1,5	
<b>SZ-S and SZ-SK</b>						
Characteristic resistance	$N_{Rk,s}$	[kN]	26	41	60	110
Partial safety factor	$\gamma_{Ms}$	[-]			1,87	
<b>Pull-out failure</b>						
Characteristic resistance in non-cracked concrete C20/25	$N_{Rk,p}$	[kN]	16	25	35	1)
Increasing factor for $N_{Rk,p}$	$\psi_c$	[-]			$\left(\frac{f_{ck,cube}}{25}\right)^{0,5}$	
<b>Splitting failure</b>						
Spacing	$s_{cr,sp}$	[mm]	360	470	530	600
Edge distance	$c_{cr,sp}$	[mm]	180	235	265	300
<b>Concrete cone failure</b>						
Effective anchorage depth	$h_{ef}$	[mm]	60	71	80	100
Factor acc. to CEN/TS 1992-4	$k_{ucr}$	[-]			10,1	

<sup>1)</sup> Pull-out is not decisive.

## Highload Anchor SZ

### Performance

Characteristic values for **tension loads** in **non-cracked 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
<b>Steel failure without lever arm</b>								
<b>SZ-B</b>								
Characteristic resistance	$V_{Rk,s}$	[kN]	16	25	36	63	91	91
Ductility factor	$k_2$	[ $\cdot$ ]				1,0		
Partial safety factor	$\gamma_{Ms}$	[ $\cdot$ ]				1,25		
<b>SZ-S and SZ-SK</b>								
Characteristic resistance	$V_{Rk,s}$	[kN]	18	30	48	73	126	126
Ductility factor	$k_2$	[ $\cdot$ ]				0,8		
Partial safety factor	$\gamma_{Ms}$	[ $\cdot$ ]				1,25		
<b>Steel failure with lever arm</b>								
Characteristic resistance	$M_{Rk,s}^0$	[Nm]	12	30	60	105	266	266
Partial safety factor	$\gamma_{Ms}$	[ $\cdot$ ]				1,25		
<b>Concrete pry-out failure</b>								
Factor k acc. to ETAG 001, Annex C or $k_3$ acc. to CEN/TS 1992-4	$k_{(3)}$	[ $\cdot$ ]	1,8			2,0		
<b>Concrete edge failure</b>								
Effective length of anchor in shear loading	$l_f$	[mm]	50	60	71	80	100	115
Outside diameter of anchor	$d_{nom}$	[mm]	10	12	15	18	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
<b>Steel failure without lever arm</b>					
<b>SZ-B</b>					
Characteristic resistance	$V_{Rk,s}$	[kN]	24	37	62
Ductility factor	$k_2$	[-]		1,0	
Partial safety factor	$\gamma_{Ms}$	[-]		1,25	
<b>SZ-S and SZ-SK</b>					
Characteristic resistance	$V_{Rk,s}$	[kN]	24	37	62
Ductility factor	$k_2$	[-]		0,8	
Partial safety factor	$\gamma_{Ms}$	[-]		1,36	
<b>Steel failure with lever arm</b>					
<b>SZ-B</b>					
Characteristic resistance	$M^0_{Rk,s}$	[Nm]	26	52	92
Ductility factor	$k_2$	[-]		1,0	
Partial safety factor	$\gamma_{Ms}$	[-]		1,25	
<b>SZ-S and SZ-SK</b>					
Characteristic resistance	$M^0_{Rk,s}$	[Nm]	26	52	92
Ductility factor	$k_2$	[-]		0,8	
Partial safety factor	$\gamma_{Ms}$	[-]		1,56	
<b>Concrete pry-out failure</b>					
Factor k acc. to ETAG 001, Annex C or k <sub>3</sub> acc. to CEN/TS 1992-4	$k_{(3)}$	[-]		2,0	
<b>Concrete edge failure</b>					
Effective length of anchor in shear loading	$l_f$	[mm]	60	71	80
Outside diameter of anchor	$d_{nom}$	[mm]	12	15	18
					100

## 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
<b>Tension load</b>							
Installation safety factor	$\gamma_2 = \gamma_{\text{inst}}$	[-]			1,0		
<b>Steel failure</b>							
Characteristic tension resistance category <b>C1</b>	$N_{Rk,s,\text{seis},C1}$	[kN]	29	46	67	126	126
Characteristic tension resistance category <b>C2</b>	$N_{Rk,s,\text{seis},C2}$	[kN]	29	46	67	126	126
Partial safety factor	$\gamma_{Ms,\text{seis}}$	[-]			1,5		
<b>Pull-out failure</b>							
Characteristic tension resistance category <b>C1</b>	$N_{Rk,p,\text{seis},C1}$	[kN]	12	16	25	36	44,4
Characteristic tension resistance category <b>C2</b>	$N_{Rk,p,\text{seis},C2}$	[kN]	5,4	16,4	22,6	29,0	41,2
Increasing factor for $N_{Rk,p,\text{seis}}$	$\Psi_c$	[-]			1,0		
<b>Shear load</b>							
<b>Steel failure without lever arm</b>							
<b>SZ-B</b>							
Characteristic shear resistance category <b>C1</b>	$V_{Rk,s,\text{seis},C1}$	[kN]	18,0	27,1	43,4	51,9	51,9
Characteristic shear resistance category <b>C2</b>	$V_{Rk,s,\text{seis},C2}$	[kN]	12,7	20,5	31,5	50,1	50,1
<b>SZ-S</b>							
Characteristic shear resistance category <b>C1</b>	$V_{Rk,s,\text{seis},C1}$	[kN]	18,0	27,1	43,4	51,9	51,9
Characteristic shear resistance category <b>C2</b>	$V_{Rk,s,\text{seis},C2}$	[kN]	12,7	20,5	31,5	69,3	67,1
Partial safety factor	$\gamma_{Ms,\text{seis}}$	[-]			1,25		
<b>Steel failure with lever arm</b>							
Characteristic resistance	$M^0_{Rk,s,\text{seis}}$	[Nm]			no performance determined		

### 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
<b>Tension load</b>					
Installation safety factor	$\gamma_2 = \gamma_{\text{inst}}$	[-]		1,0	
<b>Steel failure</b>					
Characteristic tension resistance, category <b>C1</b>	$N_{Rk,s,\text{seis},C1}$	[kN]	26	41	60
Characteristic tension resistance, category <b>C2</b>	$N_{Rk,s,\text{seis},C2}$	[kN]	26	41	60
Partial safety factor <b>SZ-B</b>	$\gamma_{Ms,\text{seis}}$	[-]		1,5	
Partial safety factor <b>SZ-S</b>	$\gamma_{Ms,\text{seis}}$	[-]		1,87	
<b>Pull-out failure</b>					
Characteristic tension resistance, category <b>C1</b>	$N_{Rk,p,\text{seis},C1}$	[kN]	9	16	26
Characteristic tension resistance, category <b>C2</b>	$N_{Rk,p,\text{seis},C2}$	[kN]	4,8	16,5	24,8
Increasing factor for $N_{Rk,p,\text{seis}}$	$\Psi_c$	[-]		1,0	
<b>Shear load</b>					
<b>Steel failure without lever arm</b>					
Characteristic shear resistance, category <b>C1</b>	$V_{Rk,s,\text{seis},C1}$	[kN]	9,6	13,3	25,4
Characteristic shear resistance, category <b>C2</b>	$V_{Rk,s,\text{seis},C2}$	[kN]	9,7	14,0	32,2
Partial safety factor <b>SZ-B</b>	$\gamma_{Ms,\text{seis}}$	[-]		1,25	
Partial safety factor <b>SZ-S</b>	$\gamma_{Ms,\text{seis}}$	[-]		1,36	
<b>Steel failure with lever arm</b>					
Characteristic resistance	$M^0_{Rk,s,\text{seis}}$	[Nm]		no performance determined	

## Highload Anchor SZ

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

**Annex C7**

**Table C9:** Characteristic values for **tension and shear load** under **fire exposure**  
in cracked and non-cracked concrete C20/25 to C50/60

Anchor size	10/M6	12/M8	15/M10	18/M12	24/M16	24/M16L	28/M20		
<b>Tension load</b>									
<b>Steel failure</b>									
<b>Steel zinc plated</b>									
Characteristic resistance	R30	N <sub>Rk,s,fi</sub> [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	
<b>Stainless steel A4</b>									
Characteristic resistance	R30	V <sub>Rk,s,fi</sub> [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	-	-
<b>Shear load</b>									
<b>Steel failure without lever arm</b>									
<b>Steel zinc plated</b>									
Characteristic resistance	R30	V <sub>Rk,s,fi</sub> [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	
<b>Stainless steel A4</b>									
Characteristic resistance	R30	V <sub>Rk,s,fi</sub> [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	-	-
<b>Steel failure with lever arm</b>									
<b>Steel zinc plated</b>									
Characteristic resistance	R30	M <sup>0</sup> <sub>Rk,s,fi</sub> [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	
<b>Stainless steel A4</b>									
Characteristic resistance	R30	M <sup>0</sup> <sub>Rk,s,fi</sub> [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	-	-

The characteristic resistances for pull-out failure, concrete cone failure, concrete pry-out and concrete edge failure can be calculated according to TR020 / CEN/TS 1992-4.

## Highload Anchor SZ

**Performance**  
Characteristic values for **tension and shear loads** under **fire exposure**

**Annex C8**

**Table C10:** Displacements under **tension load**

Anchor size		10/M6	12/M8	15/M10	18/M12	24/M16	24/M16L	28/M20
<b>Steel, zinc plated</b>								
Tension load in cracked concrete								
N	[kN]	2,4	5,7	7,6	12,3	17,1	21,1	24
Displacement	$\delta_{N0}$	[mm]	0,5	0,5	0,5	0,7	0,8	0,7
	$\delta_{N\infty}$	[mm]	2,0	2,0	1,3	1,3	1,3	1,4
Tension load in non-cracked concrete	N	[kN]	8,5	9,5	14,3	17,2	24	29,6
Displacement	$\delta_{N0}$	[mm]	0,8	1,0		1,1		1,3
	$\delta_{N\infty}$	[mm]		3,4		1,7		2,3
Seismic action C2								
Displacement for DLS	$\delta_{N,\text{seis},C2(DLS)}$	[mm]	-	3,3	3,0	5,0	3,0	3,0
Displacement for ULS	$\delta_{N,\text{seis},C2(ULS)}$	[mm]	-	12,2	11,3	16,0	9,2	9,2
<b>Stainless steel A4</b>								
Tension load in cracked concrete								
N	[kN]	-	4,3	7,6	12,1	17,0	-	-
Displacement	$\delta_{N0}$	[mm]	-	0,5	0,5	1,3	0,5	-
	$\delta_{N\infty}$	[mm]	-	1,2	1,6	1,8	1,6	-
Tension load in non-cracked concrete	N	[kN]	-	7,6	11,9	16,7	24,1	-
Displacement	$\delta_{N0}$	[mm]	-	0,2	0,3	1,2	1,5	-
	$\delta_{N\infty}$	[mm]	-		1,1		-	-
Seismic action C2								
Displacement for DLS	$\delta_{N,\text{seis},C2(DLS)}$	[mm]	-	4,7	4,5	4,3	4,9	-
Displacement for ULS	$\delta_{N,\text{seis},C2(ULS)}$	[mm]	-	13,3	12,7	9,7	10,1	-

## Highload Anchor SZ

**Performance**  
Displacements under **tension load**

**Annex C9**

**Table C11:** Displacements under **shear load**

Anchor size		10/M6	12/M8	15/M10	18/M12	24/M16	24/M16L	28/M20
<b>Steel, zinc plated</b>								
<b>SZ-B</b>								
Shear load in cracked and non-cracked concrete								
V	[kN]	9,1	14	20,7	35,1	52,1	52,1	77
Displacement	$\delta_{v0}$ [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	$\delta_{v,\text{seis},C2(\text{DLS})}$ [mm]	-	2,3	3,1	3,0	2,6	2,6	1,6
Displacement for ULS	$\delta_{v,\text{seis},C2(\text{ULS})}$ [mm]	-	4,8	6,4	6,1	6,6	6,6	4,8
<b>SZ-S and SZ-SK</b>								
Shear load in cracked and non-cracked concrete	V	[kN]	10,1	17,1	27,5	41,5	72	72
Displacement	$\delta_{v0}$ [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 (SZ-S)								
Displacement for DLS	$\delta_{v,\text{seis},C2(\text{DLS})}$ [mm]	-	2,3	3,1	3,0	3,3	3,3	1,6
Displacement for ULS	$\delta_{v,\text{seis},C2(\text{ULS})}$ [mm]	-	4,8	6,4	6,1	8,2	8,2	4,8
<b>Stainless steel A4</b>								
Shear load in cracked and non-cracked concrete	V	[kN]	-	13,9	21,1	34,7	50,8	-
Displacement	$\delta_{v0}$ [mm]	-	3,4	4,9	4,8	6,7	-	-
	$\delta_{v\infty}$ [mm]	-	5,1	7,4	7,1	10,1	-	-
Seismic action C2								
Displacement for DLS	$\delta_{v,\text{seis},C2(\text{DLS})}$ [mm]	-	2,8	3,1	2,6	3,3	-	-
Displacement for ULS	$\delta_{v,\text{seis},C2(\text{ULS})}$ [mm]	-	5,6	5,8	5,0	6,9	-	-

## Highload Anchor SZ

**Performance**  
Displacements under **shear load**

**Annex C10**