


Features listed:			Dimension			
			M8	M10	M12	M16
<b>Installation information</b>						
$d_0$	Nominal drill diameter	[mm]	8	10	12	16
$h_{nom}$	Anchoring depth	[mm]	55	60	80	100
$h_{ef}$	Effective anchoring depth	[mm]	41	45	62	88
$h_{min}$	Minimum thickness of the concrete element	[mm]	100	120	140	160
$T_{inst}$	Tightening torque	[Nm]	15	25	65	110
$S_{min}$	Minimum spacing	[mm]	45	60	70	60
$C_{min}$	Minimal deviation from the edge	[mm]	45	70	85	70
<b>Tensile failure of TX1 steel</b>						
$N_{Rk,s}$	Characteristic tensile strength of steel	[kN]	15	22	45	68
$\gamma_{MsN}$	Partial safety factor	[-]	1,4			
<b>Tensile failure of TX1 A4</b>						
$N_{Rk,s}$	Characteristic tensile strength of steel	[kN]	15	25	47	79
$\gamma_{MsN}$	Partial safety factor	[-]	1,4			
<b>Izvelek sidra</b>						
$N_{Rk,p}$	Characteristic tensile strength in uncracked concrete	[kN]	/1)	11	18	25
$N_{Rk,p}$	Characteristic tensile strength in cracked concrete	[kN]	4	6	8	18
$\gamma_2$	Partial safety factor	[-]	1,0			
$\gamma_{Mp}$		[-]	1,5			
$S_{cr,N}$	Characteristic spacing	[mm]	$3 \times h_{ef}$			
$C_{cr,N}$	Characteristic deviation from the edge	[mm]	$1,5 \times h_{ef}$			
$\psi_{C30/37}$	Factor to increase the value of $N_{rk}$ in cracked concrete	[-]	1,00	1,08	1,22	1,21
$\psi_{C40/50}$		[-]	1,12	1,18	1,41	1,39
$\psi_{C50/60}$		[-]	1,16	1,24	1,58	1,55
<b>Formation of a concrete cone</b>						
$k_{cr}$	Cracked concrete factor CEN/TS 1992-4-4 §. 7.2.1.4	[-]	7,7			
$k_{ucr}$	Uncracked concrete factor CEN/TS 1992-4-4 §. 6.2.1.4	[-]	11,0			
$\gamma_{Mc}$	Partial safety factor	[-]	1,5			
<b>Split rupture</b>						
$S_{cr,sp}$	Characteristic spacing	[mm]	$3 \times h_{ef}$			
$C_{cr,sp}$	Characteristic deviation from the edge	[mm]	$1,5 \times h_{ef}$			
$\gamma_{Mc}$	Partial safety factor	[-]	1,5			
<b>Tensile loads between users</b>						
Uncracked concrete C20/25						
$N$	Tensile load during use	[kN]	6,20	5,20	8,60	11,90
$\delta_{N0}$	Short – term shift	[mm]	0,12	0,04	0,05	0,17
$\delta_{N\infty}$	Long shift	[mm]	1,56	1,59	1,73	1,65
Cracked concrete C20/25						
$N$	Tensile load during use	[kN]	1,90	2,90	3,80	8,60
$\delta_{N0}$	Short – term shift	[mm]	0,83	0,80	0,49	1,40
$\delta_{N\infty}$	Long shift	[mm]	1,56	1,59	1,73	1,65


**1) The extract is not authoritative**

The characteristics of the product referred to in point 1 shall be in accordance with those set out in point 7.

The manufacturer referred to in point 3 is solely responsible for issuing this declaration of performance:

Signed for and on behalf of the manufacturer:

Name and position	Place and date of issue	Signature
Aleš Seidl, direktor	Šmarje pri Jelšah, 06.04.2020	

	<b>STATEMENT OF CHARACTERISTICS</b> In accordance with the Construction Products Regulation No: 305/2011
	Nr.: 16/0002

<b>1. Unique identification of the product type:</b> TX 1, TX1 A4
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<b>2. Intended use or intended uses of the construction product in accordance with the harmonized technical specification in force as foreseen by the manufacturer:</b> Torsion-controlled galvanized metal anchor of size M8, M10, M12 and M16 for installation in cracked and uncracked concrete in dry interior conditions.
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<b>3. Name, registered trade name or registered trade mark and address of the manufacturer in accordance with article 11 (5):</b> AS system d.o.o., Obrtniška ulica 14, 3240 Šmarje pri Jelšah, Slovenija, <a href="http://www.as-system.si">www.as-system.si</a>
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<b>4. System or systems of assessment and verification of constancy of performance of a construction product, as specified in Annex V:</b> Sistem 1
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<b>5. European Assessment Document:</b> ETAG 001-1 and ETAG 0012 <b>European Technical Assessment:</b> ETA-14/0073 <b>Technical Assessment Body:</b> ZAG
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<b>6. Certificate of Acceptance of Properties: 1404-CPR-2418d</b> <b>Notified Body:</b> ZAG (1404)
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