

# W-SA/S SCREW ANCHOR

01.2

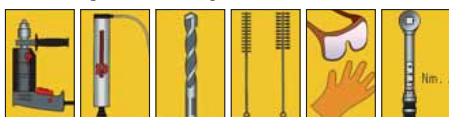
Performance Data			W-SA/S 12
<b>Anchor diameter [in mm]</b>			
Perm. central tensile load <sup>1)</sup> of a single anchor without edge influence	<b>Tensile zone</b> (cracked concrete C20/25 <sup>2)</sup> , $s \geq 3 h_{ef}$ , $c \geq 1.5 h_{ef}$ Galvanized steel	<b>N<sub>perm.</sub> [kN] = C20/25<sup>2)</sup></b>	4.8
	<b>Pressure zone</b> (uncracked concrete C20/25 <sup>2)</sup> , $s \geq 3 h_{ef}$ , $c \geq 1.5 h_{ef}$ Galvanized steel		6.4
Perm. transverse load <sup>1)</sup> of a single anchor without edge influence	<b>Tensile zone</b> (cracked concrete C20/25 <sup>2)</sup> , $c \geq 10 h_{ef}$ Galvanized steel	<b>V<sub>perm.</sub> [kN] = C20/25</b>	14.3
	<b>Pressure zone</b> (uncracked concrete C20/25 <sup>2)</sup> , $c \geq 10 h_{ef}$ Galvanized steel		14.3
<b>Permissible bending torque</b>		<b>M<sub>perm</sub> [Nm]</b>	39.0
<b>Permissible load in fire (R30, R60, R90, R120)</b> see European Technical Approval ETA-09/0395			

Characteristic values		
Minimum axial spacing	<b>s<sub>min</sub> [in mm]</b>	60
Axial spacing	<b>s<sub>cr,N</sub> [in mm]</b>	168
Minimum edge spacing	<b>c<sub>min</sub> [in mm]</b>	50
Edge spacing	<b>c<sub>cr,N</sub> [in mm]</b>	75
Minimum component thickness	<b>h<sub>min</sub> [in mm]</b>	120
Effective anchoring depth	<b>h<sub>ef</sub> [in mm]</b>	56
Nom. drill dia.	<b>d<sub>0</sub> [in mm]</b>	10.0
Drill cutting dia.	<b>d<sub>cut</sub> [in mm]</b>	10.45
Drill hole depth	<b>h<sub>1</sub> [in mm]</b>	85
Length of anchor in drilled hole	<b>h<sub>nom</sub> [in mm]</b>	75
Through-hole in the component being connected	<b>d<sub>f</sub> [in mm]</b>	14.0
Max. tightening torque of nut	<b>T<sub>max</sub> [Nm]</b>	35

Anchor Dimensions		
<b>W-SA/S</b>		<b>12</b>
Total length	<b>l [in mm]</b>	130
Max. attachment height	<b>t<sub>fix</sub> [in mm]</b>	35
Designation		W-SA/S Type ST 12 x 130
<b>W-SA/S Screw Anchor Type ST galvanized steel</b> dia.12, size 9 Connecting thread M12x35	<b>Art. No.</b>	<b>5927 012 130</b>
<b>Packing unit</b>	<b>P. Qty.</b>	50

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## Würth system components



- <sup>1)</sup> The part safety coefficients of the resistances regulated in the approval and a part safety coefficient of the effects of  $\gamma_F = 1.4$  have been taken into account. For the combination of tensile and transverse loads, for edge influence and anchor groups, please refer to the Guideline for European Technical Approval (ETAG), Appendix C.
- <sup>2)</sup> The concrete has normal reinforcement. Higher values are possible for higher concrete strengths.