


W-SA TC TIMBER CONNECT SCREW ANCHOR

02.3

Performance Data		7.5	10	12	
Anchor diameter [in mm]		7.5	10	12	
Basic conditions according to DIN 1052		The following basic conditions were taken into account for the determined load values: Type of wood and wood strength: Coniferous wood C24 Utilization class 1 Effects of loading: Continuous			
Perm. centered tensile load ¹⁾ of a single anchor w/o edge influence	N_{perm.} [kN] (cracked concrete C20/25, $s \geq 3 h_{ef}$, $c \geq 1.5 h_{ef}$) Anchoring base: Concrete C20/25 Attached part: Coniferous wood C24	N_{perm.} [kN]	0.99 ²⁾	2.0 ²⁾	3.16 ²⁾
	Perm. transverse load ¹⁾ of a single anchor without edge influence	V_{perm.} [kN] (cracked concrete C20/25, $c \geq 10 h_{ef}$) Anchoring base: Concrete C20/25 Attached part: Coniferous wood C24	t_{fix} [mm] = 40	0.35	-
t_{fix} [mm] = 60			0.35	0.49	-
t_{fix} [mm] = 80			0.35	0.49	0.71
t_{fix} [mm] = 100			0.35	0.49	0.71
t_{fix} [mm] = 150			0.35	0.49	0.71
t_{fix} [mm] = 200			-	0.49	0.71
t_{fix} [mm] = 250			-	-	0.71
t_{fix} [mm] = 300			-	-	0.71

Characteristic Values		7.5	10	12
Minimum axial spacing	s_{min} [mm]	40	50	60
Axial spacing	s_{cr,N} [mm]	120	142.5	163.5
Minimum edge spacing	c_{min} [mm]	40	50	60
Edge spacing	c_{cr,N} [mm]	60	71.3	81.8
Minimum component thickness	h_{min} ≥ [mm]	100	115	125
Effective anchoring depth	h_{ef} [mm]	40	47.5	54.5
Nom. drill dia.	d₀ [mm]	6.0	8.0	10.0
Drill cutting dia.	d_{cut} ≤ [mm]	6.4	8.45	10.45
Drill hole depth	h₁ ≥ [mm]	65	75	85
Length of anchor in drilled hole	h_{nom} ≥ [mm]	55	65	75
Through-hole in wood component being connected	d_{0,w} = [mm]	6.0	8.0	10.0

Anchor Dimensions		7.5	10	12
W-SA TC		7.5	10	12
Total length	l [mm]	100	130	160
Max. mounting height	t_{fix} [mm]	40...150	60...200	80...300
Designation		W-SA TC 7.5 x 100	W-SA TC 10 x 130	W-SA TC 12 x 160
Timber Connect Screw Anchor, W-SA TC Galvanized steel 7.5 mm dia. TX 30 10 mm dia. TX 40 12 mm dia. TX 50	Art. No.	0901 575 100	0901 510 131	0901 512 160
Packing unit	P. Qty. [pieces]	100	50	50
Setting tool designation		Designation: H 43603-T30	Designation: H 47095-T45	Designation: H 43605-T50
Setting tool	Art. No.	0901 575 001	0901 510 002	0901 512 001
Packing unit	P. Qty. [pieces]	1	1	1
Tangential impact screwdriver ESS 1/2" 	Art. No. P. Qty. [pieces]	0702 317 0 1		

Can be stored in ORSY® System

Würth System Components



¹⁾ 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 dowel groups, please refer to the Directive for European Technical Approval (ETAG) Appendix C.

²⁾ The permissible value contains the failure type "head pull-through" through the wooden attached part "coniferous wood C24" in accordance with DIN 1052:2008-12.