

# HEAVY-DUTY ANCHOR W-TM

15.1

Performance Data						
Anchor diameter [mm]		M6	M8	M10	M12	
Perm. centered tensile load <sup>1)</sup> of a single anchor without edge influence Type A + Type S	Pressure zone (uncracked concrete C20/25 <sup>2)</sup> , $s \geq 3h_{ef}$ , $c \geq 1.5 h_{ef}$	$N_{perm}$ [kN] = C20/25 <sup>2)</sup>	3.6	4.1	5.4	9.5
Permissible transverse load <sup>1)</sup> of a single anchor without edge influence Type A + Type S	Pressure zone (uncracked concrete C20/25 <sup>2)</sup> , $s \geq 3h_{ef}$ , $c \geq 1.5 h_{ef}$	$V_{perm}$ [kN] = C20/25 <sup>2)</sup>	4.6	7.1	8.9	19.3
Permissible bending torque Type A + Type S		$M_{perm}$ [Nm]	7.0	17.1	34.2	59.9

Recommended load of a single anchor without edge influence Type O	Pressure zone (uncracked concrete C20/25 <sup>2)</sup> , $s \geq 3h_{ef}$ , $c \geq 1.5 h_{ef}$	$N_{rec}$ [kN] = C20/25 <sup>2)</sup>	1.4	2.4	3.6	6.0
Recommended load of a single anchor without edge influence Type H	Pressure zone (uncracked concrete C20/25 <sup>2)</sup> , $s \geq 3h_{ef}$ , $c \geq 1.5 h_{ef}$	$N_{rec}$ [kN] = C20/25 <sup>2)</sup>	0.3	0.7	1.0	1.6

Characteristic Values					
Minimum component thickness	$h_{min} \geq$ [mm]	135	135	140	160
Minimum axial spacing	$s_{min} \geq$ [mm]	65	90	135	165
Minimum edge spacing	$c_{min} \geq$ [mm]	45	70	85	115
Axial spacing	$s_{cr,N}$ [mm]	119	134	155	189
Edge spacing	$c_{cr,N}$ [mm]	60	67	78	95
Effective anchoring depth	$h_{ef}$ [mm]	39.5	44.5	51.5	63.0
Nom. drill dia.	$d_0$ [mm]	10	12	14	18
Drill cutting dia.	$d_{cut} \leq$ [mm]	10.45	12.50	14.50	18.50
Drilled hole depth <sup>4)</sup>	$h_1 \geq$ [mm]	55	61	70	85
Through-hole in the component being connected	$d_{fc}$ [mm]	7	9	12	14
Torque during anchoring (Type A + Type S)	$T_{inst}$ [Nm]	10	25	40	75
Torque during anchoring (Type O + Type H)	$T_{inst}$ [Nm]	5	12	20	35

Anchor Dimensions					
Designation		W-TM M6	W-TM M8	W-TM M10	W-TM M12
Thread dia.	$d_{thr}$ [mm]	6	8	10	12
Length of anchor	$l$ [mm]	45	51	60	75
Maximum fastening height Type A	$t_{fix,max}$ [mm]	150	200	250	300
Maximum fastening height Type S	$t_{fix,max}$ [mm]	10	14	20	25
Length of screw Type A	$l_s$ [mm]	= Length of anchor + fastening height + any plaster/insulation thickness			
Length of screw Type S	$l_s$ [mm]	55	65	80	100
Length of screw Type O + Type H	$l_o/l_h$ [mm]	55	65	73	90
Wrench size Type S	Size [mm]	10	13	17	19

Art. No. Type A		0904 901 850	0904 901 851	0904 901 852	0904 901 853
Art. No. Type S		0904 901 860	0904 901 861	0904 901 862	0904 901 863
Packing unit	P. Qty. [pieces]	50	50	50	25
Art. No. Type O		0904 901 865	0904 901 866	0904 901 867	0904 901 868
Packing unit	P. Qty. [pieces]	50	50	25	10
Art. No. Type H		0904 901 870	0904 901 871	0904 901 872	0904 901 873
Packing unit	P. Qty. [pieces]	50	50	25	5

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 anchor groups, please refer to the Directive for European Technical Approval (ETAG) Appendix C.
- 2) The concrete has normal reinforcement. Higher values are possible for higher concrete strengths.
- 3) Approval-conformant, when screws and threaded rods with acceptance test certificate 3.1 in accordance with EN 10204:2004 can prove the required material and the mechanical properties in accordance with ETA-10/0255.
- 4) Type S: Drill drilled hole deeper accordingly for a lower fastening height.