

WT1 SH Throughbolt Anchors

Product overview

WT1 SH is the ultimate-performance throughbolt anchor with sherardized coating for use in cracked and non-cracked concrete.



ETA Option 1
ETA-21/0365



FireResistance
R120



Seismic
C1 and C2



Anchor Software

Material
Steel, sherardized



Features and benefits

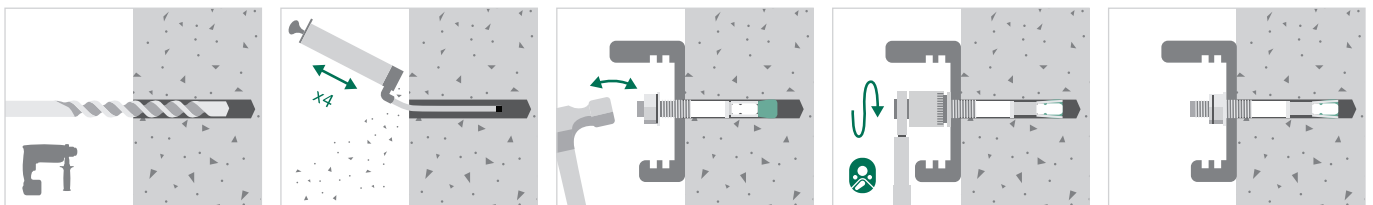
- ETA according to EAD 330747-00-0601 for use in cracked and non-cracked concrete (option 1).
- Simple and quick installation procedure.
- For medium to heavy loads.
- Can be installed as pre-fixing (before application of a fixing plate) or as through-fixing (through hole of the fixing plate).
- Fire resistance class R30-R120 for design of anchorages under exposure to fire.
- Compliance with VdS CE 4001:2014-04 (05) and VdS VdS CE 4001:2018-01 (06) for applications with sprinkler systems in concrete elements.

Substrate type

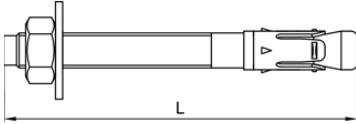
- Non-cracked concrete
- Cracked concrete



Installation guide



Product information



Part No.	Description	Anchor Size	L (mm)	Box qty (pcs)
608508075	WT1 SH M8x75	M8	75	100
608508095	WT1 SH M8x95	M8	95	100
608508115	WT1 SH M8x115	M8	115	100
608510090	WT1 SH M10x90	M10	90	100
608510105	WT1 SH M10x105	M10	105	50
608510115	WT1 SH M10x115	M10	115	50
608510135	WT1 SH M10x135	M10	135	50
608512110	WT1 SH M12x110	M12	110	50
608512130	WT1 SH M12x130	M12	130	50
608512150	WT1 SH M12x150	M12	150	50
608512180	WT1 SH M12x180	M12	180	50
608516125	WT1 SH M16x125	M16	125	25
608516145	WT1 SH M16x145	M16	145	25
608516175	WT1 SH M16x175	M16	175	25
608516220	WT1 SH M16x220	M16	220	25
608520170	WT1 SH M20x170	M20	170	20
608520200	WT1 SH M20x200	M20	200	20

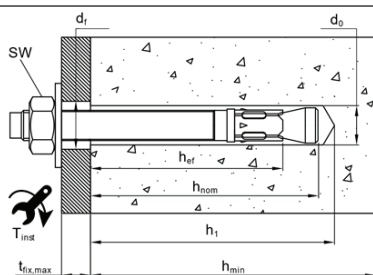
Recommended loads

Option 1 ETA-21/0365 – Single anchors in cracked and non-cracked concrete

Part No.	Description	Recommended tension load in C20/25 concrete at standard embedment depth		
		Cracked	Non-Cracked	Partial Safety factor
		N_{rec} (kN)	N_{rec} (kN)	γ_{Mc}
608508075	WT1 SH M8x75	2.4	3.5	1.8
608508095	WT1 SH M8x95	2.4	3.5	1.8
608508115	WT1 SH M8x115	2.4	3.5	1.8
608510090	WT1 SH M10x90	4.3	7.6	1.5
608510105	WT1 SH M10x105	4.3	7.6	1.5
608510115	WT1 SH M10x115	4.3	7.6	1.5
608510135	WT1 SH M10x135	4.3	7.6	1.5
608512110	WT1 SH M12x110	7.6	14.3	1.5
608512130	WT1 SH M12x130	7.6	14.3	1.5
608512150	WT1 SH M12x150	7.6	14.3	1.5
608512180	WT1 SH M12x180	7.6	14.3	1.5
608516125	WT1 SH M16x125	11.9	16.6	1.5
608516145	WT1 SH M16x145	11.9	16.6	1.5
608516175	WT1 SH M16x175	11.9	16.6	1.5
608516220	WT1 SH M16x220	11.9	16.6	1.5
608520170	WT1 SH M20x170	14.3	23.4	1.5
608520200	WT1 SH M20x200	14.3	23.4	1.5

* Recommended loads: apply to correctly installed anchors at maximum embedment depth; include partial safety factor and an overall partial safety factor for action of 1.4. The partial safety factor for action depends on the type of loading and shall be taken from national regulations. All anchor failure modes and the entire relevant product European Technical Assessment must be considered for anchor design.

Installation data



Part No.	Description	d_0 (mm)	h_1 (mm)	h_{min} (mm)	h_{nom} (mm)	h_{ef} (mm)	$t_{fix, max}$ (mm)	T_{inst} (Nm)
608508075	WT1 SH M8x75	8	60	100	55	48	9	15
608508095	WT1 SH M8x95	8	60	100	55	48	14	15
608508115	WT1 SH M8x115	8	60	100	55	48	24	15
608510090	WT1 SH M10x90	10	75	120	68	60	35	40
608510105	WT1 SH M10x105	10	75	120	68	60	35	40
608510115	WT1 SH M10x115	10	75	120	68	60	35	40
608510135	WT1 SH M10x135	10	75	120	68	60	35	40
608512110	WT1 SH M12x110	12	85	140	80	70	24	60
608512130	WT1 SH M12x130	12	85	140	80	70	24	60
608512150	WT1 SH M12x150	12	85	140	80	70	24	60
608512180	WT1 SH M12x180	12	85	140	80	70	24	60
608516125	WT1 SH M16x125	16	105	170	97	85	28	100
608516145	WT1 SH M16x145	16	105	170	97	85	28	100
608516175	WT1 SH M16x175	16	105	170	97	85	28	100
608516220	WT1 SH M16x220	16	105	170	97	85	28	100
608520170	WT1 SH M20x170	20	125	200	114	100	32	200
608520200	WT1 SH M20x200	20	125	200	114	100	32	200