

WT1 SST Throughbolt Anchors

Product overview

The WT1 SST is a high-performance stainless steel grade A4 throughbolt anchors for use in cracked and non cracked in external atmospheric environment



ETA Option 1
ETA-21/0365



Fire Resistance
R120



Seismic
C1 and C2



Anchor Software

Material
Stainless Steel A4



Features and benefits

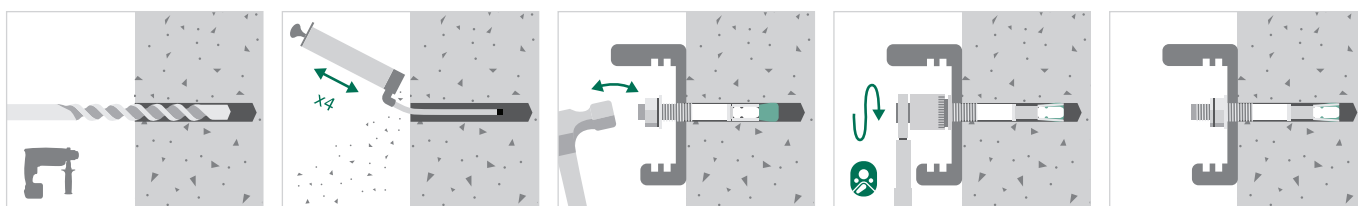
- Compliance with VdS CE 4001:2014-04 (05) and VdS CE 4001:2018-01 (06) for applications with sprinkler systems in concrete elements.
 - Fire resistance class R30-R120 for design of anchorages under exposure to fire.
 - ETA according to EAD 330747-00-0601 for use in cracked and non cracked concrete (option 1).
 - Simple and quick installation procedure.
 - For medium to heavy loads.
 - Tested under fire exposure.
 - applicable in cracked and non-concrete
 - applicable from dry internal conditions to external atmospheric exposure.
 - atmosphere with extreme chemical pollution.
- Atmospheres under Corrosion Resistance Class CRC III according to EN 1993-1-4:2006+A1:2015 annex A.

Substrate type

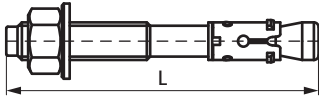
- Non-cracked concrete
- Cracked concrete
- Stone



Installation guide



Product Information



Part No.	Description	Anchor Size	L (mm)	Pack 1 (pcs)
608608075	WT1 A4 M8 x 75	M8	75	100
608608095	WT1 A4 M8 x 95	M8	95	100
608608115	WT1 A4 M8 x 115	M8	115	100
608608135	WT1 A4 M8 x 135	M8	135	50
608610090	WT1 A4 M10 x 90	M10	90	100
608610105	WT1 A4 M10 x 105	M10	105	50
608610115	WT1 A4 M10 x 115	M10	115	50
608610135	WT1 A4 M10 x 135	M10	135	50
608610165	WT1 A4 M10 x 165	M10	165	50
608610185	WT1 A4 M10 x 185	M10	185	50
608612110	WT1 A4 M12 x 110	M12	110	50
608612120	WT1 A4 M12 x 120	M12	120	50
608612130	WT1 A4 M12 x 130	M12	130	50
608612150	WT1 A4 M12 x 150	M12	150	50
608612180	WT1 A4 M12 x 180	M12	180	50
608612200	WT1 A4 M12 x 200	M12	200	50
608616125	WT1 A4 M16 x 125	M16	125	50
608616145	WT1 A4 M16 x 145	M16	145	25
608616175	WT1 A4 M16 x 175	M16	175	25
608616190	WT1 A4 M16 x 190	M16	190	25
608616220	WT1 A4 M16 x 220	M16	220	20
608620200	WT1 A4 M20 x 200	M20	200	20
608620240	WT1 A4 M20 x 240	M20	240	15
608620285	WT1 A4 M20 x 285	M20	285	10

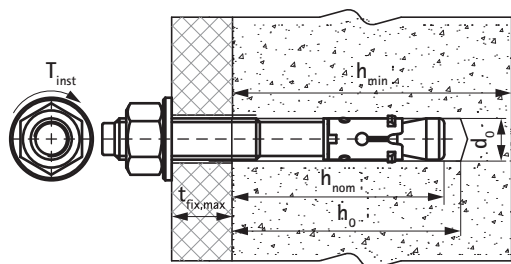
Design Loads*

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

Part No.	Description	Design tension load in 20/25 in concrete at standard embedment depth				
		Cracked concrete		Non-Cracked concrete		Partial Safety Factor YMc
		Tension Load NRd (kN)	Shear Load VRd (kN)	Tension Load NRd (kN)	Shear Load VRd (kN)	
608608075	WT1 A4 M8 x 75	5,7	7,6	8,0	9,5	1.4
608608095	WT1 A4 M8 x 95	5,7	7,6	8,0	9,5	1.4
608608115	WT1 A4 M8 x 115	5,7	7,6	8,0	9,5	1.4
608608135	WT1 A4 M8 x 135	5,7	7,6	8,0	9,5	1.4
608610090	WT1 A4 M10 x 90	9,3	15,1	10,7	15,1	1.4
608610105	WT1 A4 M10 x 105	9,3	15,1	10,7	15,1	1.4
608610115	WT1 A4 M10 x 115	9,3	15,1	10,7	15,1	1.4
608610135	WT1 A4 M10 x 135	9,3	15,1	10,7	15,1	1.4
608610165	WT1 A4 M10 x 165	9,3	15,1	10,7	15,1	1.4
608610185	WT1 A4 M10 x 185	9,3	15,1	10,7	15,1	1.4
608612110	WT1 A4 M12 x 110	10,6	21,9	12,2	21,9	1.4
608612120	WT1 A4 M12 x 120	10,6	21,9	12,2	21,9	1.4
608612130	WT1 A4 M12 x 130	10,6	21,9	12,2	21,9	1.4
608612150	WT1 A4 M12 x 150	10,6	21,9	12,2	21,9	1.4
608612180	WT1 A4 M12 x 180	10,6	21,9	12,2	21,9	1.4
608612200	WT1 A4 M12 x 200	10,6	21,9	12,2	21,9	1.4
608616125	WT1 A4 M16 x 125	15,0	36,0	39,7	44,0	1.4
608616145	WT1 A4 M16 x 145	15,0	36,0	39,7	44,0	1.4
608616175	WT1 A4 M16 x 175	15,0	36,0	39,7	44,0	1.4
608616190	WT1 A4 M16 x 190	15,0	36,0	39,7	44,0	1.4
608616220	WT1 A4 M16 x 220	15,0	36,0	39,7	44,0	1.4
608620200	WT1 A4 M20 x 200	19,1	46,0	68,1	65,6	1.4
608620240	WT1 A4 M20 x 240	19,1	46,0	68,1	65,6	1.4
608620285	WT1 A4 M20 x 285	19,1	46,0	68,1	65,6	1.4

*Design 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.

Installation data



Part No.	Description	d ₀ (mm)	h ₁ (min)	h _{min} (mm)	h _{nom} (mm)	h _{ef} (mm)	t _{fix, max}	T _{inst} (Nm)
608608075	WT1 A4 M8 x 75	8	60	100	55	48	09	15
608608095	WT1 A4 M8 x 95	8	60	100	55	48	29	15
608608115	WT1 A4 M8 x 115	8	60	100	55	48	49	15
608608135	WT1 A4 M8 x 135	8	60	100	55	48	69	15
608610090	WT1 A4 M10 x 90	10	75	120	68	60	10	30
608610105	WT1 A4 M10 x 105	10	75	120	68	60	25	30
608610115	WT1 A4 M10 x 115	10	75	120	68	60	35	30
608610135	WT1 A4 M10 x 135	10	75	120	68	60	55	30
608610165	WT1 A4 M10 x 165	10	75	120	68	60	85	30
608610185	WT1 A4 M10 x 185	10	75	120	68	60	105	30
608612110	WT1 A4 M12 x 110	12	85	140	80	70	14	60
608612120	WT1 A4 M12 x 120	12	85	140	80	70	24	60
608612130	WT1 A4 M12 x 130	12	85	140	80	70	34	60
608612150	WT1 A4 M12 x 150	12	85	140	80	70	54	60
608612180	WT1 A4 M12 x 180	12	85	140	80	70	84	60
608612200	WT1 A4 M12 x 200	12	85	140	80	70	104	60
608616125	WT1 A4 M16 x 125	16	105	170	97	70	08	100
608616145	WT1 A4 M16 x 145	16	105	170	97	85	28	100
608616175	WT1 A4 M16 x 175	16	105	170	97	85	58	100
608616190	WT1 A4 M16 x 190	16	105	170	97	85	73	100
608616220	WT1 A4 M16 x 220	16	105	170	97	85	103	200
608620200	WT1 A4 M20 x 200	20	125	200	114	100	62	200
608620240	WT1 A4 M20 x 240	20	125	200	114	100	102	200
608620285	WT1 A4 M20 x 285	20	125	200	114	100	147	200