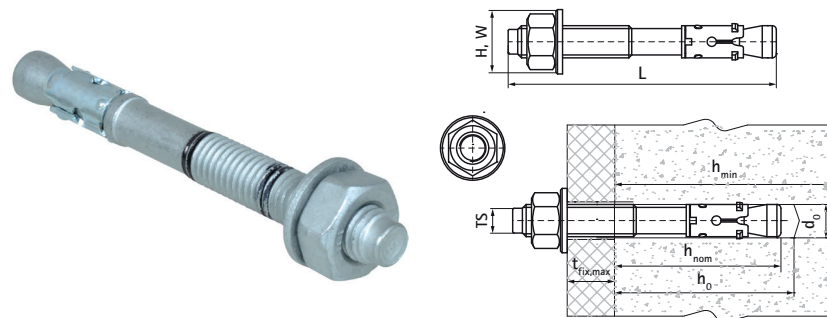


Walraven WTB1 Throughbolt Anchor

(L0340)

high performance corrosion resistant expansion anchor for cracked concrete



Features & benefits

- high load capacity
- pre- and through-fixing
- two embedment depths provide installation flexibility
- zinc-flake coated for improved corrosion resistance
- material: steel
- zinc plated with zinc flake
- ETA Option 1 approval for cracked and non-cracked concrete
- fire resistance class R30-R120 for design of anchorages under exposure to fire
- for loads and more information, refer to the product data sheet and/or the ETA report



Product Number	Thread Size	Total Width x Total Height x Total Length	Drill Hole Diameter	Drill Hole Depth	Minimum Substrate Thickness	Standard Embedment Depth	Maximum Fix- ture Thickness	Recommended Load In Cracked Concrete C20/25	Recommended Load In Uncracked Concrete C20/25
Reference letter	TS	W x H x L	d0	h0	hmin	hnom	tfix,max		
Unit description		mm x mm x mm	mm	mm	mm	mm	mm	N	N
609831080	M8	13 x 13 x 80	8	55	100	55	15	1,980	3,570
609831081	M8	13 x 13 x 100	8	55	100	55	35	1,980	3,570
609831082	M8	13 x 13 x 115	8	55	100	55	50	1,980	3,570
609831100	M10	17 x 17 x 95	10	69	120	69	15	4,290	5,710
609831101	M10	17 x 17 x 115	10	69	120	69	35	4,290	5,710
609831102	M10	17 x 17 x 130	10	69	120	69	50	4,290	5,710
609831120	M12	19 x 19 x 120	12	80	140	80	25	5,710	9,520
609831121	M12	19 x 19 x 135	12	80	140	80	40	5,710	9,520
609831160	M16	24 x 24 x 140	16	100	170	100	20	9,520	16,670