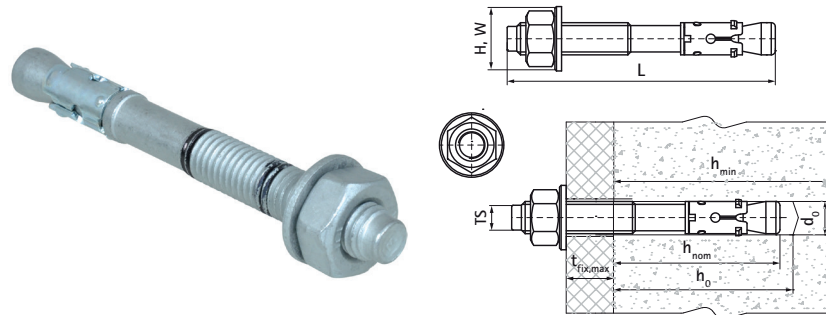


Walraven WTB1 Throughbolt Anchor

(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
- substrate type: cracked concrete, non-cracked concrete, stone
- for loads and more information, refer to the product data sheet and/or the ETA report

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