



- 1** Embedment depth markings to ensure correct installation
- 2** Cold formed body ensures constant dimensional accuracy
- 3** Innovative design of expander with external grip feature provides secure fixing into concrete
- 4** Optimum cone angle for controlled expansion

### Product Data

The Rawl R-SPT Throughbolt is a high performance through fixing, developed, to meet the general requirements of the new European Technical Approval Guideline (ETAG).

ETA 98/0006 and CE Marking was granted in August 1998.

The R-SPT Throughbolt requires a hole in the concrete the same diameter as the anchor. The hole can therefore be drilled through the clearance hole in the pre-positioned fixture, eliminating the need for marking out and allowing fast and accurate installation.

Available in a wide range of sizes the R-SPT Throughbolt is a versatile, cost effective anchor combining good load carrying characteristics with ease of installation. It is for use in concrete with minimum strength of 20N/mm<sup>2</sup>.

### Available in:

Zinc-plated steel  
Hot dipped galvanised  
Stainless steel grade A4 (1.4401)

### Typical Applications:

Cladding Restraint	Barriers	Racking
Curtain Walling	Handrails	Structural Steel
Balustrading	Passenger Lifts	Bollards

### Approvals:

The Rawl R-SPT Throughbolt is approved by independent UK and international approval bodies.



SWEDEN - SITAC



5745/88



## R-SPT Throughbolt

BOLT SIZE HOLE IN CONCRETE (d) (d <sub>o</sub> )	BOLT LENGTH (l)	WASHER DIAMETER (w)	THREAD LENGTH (l <sub>T</sub> )	HOLE DIAMETER IN FIXTURE (d <sub>F</sub> )	STANDARD EMBEDMENT		REDUCED EMBEDMENT		REC. TORQUE (N <sub>m</sub> ) (T <sub>Inst</sub> )	PRODUCT CODE		
					MINIMUM HOLE DEPTH (mm) (h <sub>o</sub> )	MAXIMUM FIXTURE THICKNESS (mm) (T <sub>Fix</sub> )	MINIMUM HOLE DEPTH (mm) (h <sub>o</sub> )	MAXIMUM FIXTURE THICKNESS (mm) (T <sub>Fix</sub> )		ZINC PLATED	HOT DIP GALVANISED	STAINLESS STEEL GRADE 316 (A4)
M6 6mm	40	12.5	13	6.5	-	-	30	3	5	56-102	-	-
	55		25		-	30	16	56-104		-	56-604	
	70		25		50	12	30	56-108		-	-	
	85		25		50	26	30	-		-	56-610	
	95		25		50	36	30	56		56-112	-	-
M8 8mm	50	17	14	9	-	-	40	5	15	56-114	56-814	-
	65		25		-	40	15	56-116		56-816	56-616	
	80		25		55	15	40	56-120		56-820	56-620	
	105		25		55	40	40	56-124		56-824	56-624	
	120		25		55	55	40	70		56-626	-	-
M10 10mm	65	21	21	11	-	-	50	5	25	56-128	56-828	-
	80		30		60	7	50	16		56-132	56-832	56-628
	95		30		60	22	50	56-132		56-832	-	
	115		30		60	42	50	56-136		56-836	56-636	
	130		30		60	57	50	67		56-138	56-838	56-638
M12 12mm	80	24	30	13	-	-	60	5	45	56-139	56-839	-
	100		40		80	4	60	24		56-140	56-840	56-640
	120		40		80	24	60	44		56-144	56-844	-
	135		40		80	39	60	58		56-148	56-848	56-648
	150		40		80	54	60	73		56-150	56-850	56-650
M16 16mm	90	30	32	18	-	-	50	20	110	56-154	-	-
	105		55		-	80	5	56-153		56-853	56-651	
	140		60		100	20	80	40		56-152	56-852	56-652
	180		60		100	60	80	80		56-156	56-856	56-656
	220		60		100	100	80	120		56-158	56-858	56-658
M20 20mm	125	37	65	22	-	-	100	5	180	56-159	56-859	56-659
	160		65		120	20	100	40		56-160	56-860	56-660
	200		65		120	80	100	80		56-164	56-864	56-664
	300		65		120	160	100	180		56-166	-	56-666
M24 24mm	180	44	65	26	135	-	20	120	320	56-168	-	-
	260		65		135	100	120	115		56-172	56-872	56-672