



- 1** Embedment depth markings to ensure correct installation
- 2** Cold formed body ensures constant dimensional accuracy
- 3** Special design of stainless steel expander provides an enhanced performance in cracked concrete
- 4** Optimum cone angle for controlled expansion

Product Data

The Rawl R-HPT Throughbolt is a high performance through fixing, developed, to meet the highest level requirements of the new European Technical Approval Guideline (ETAG). ETA 98/0003 and CE Marking was granted in August 1998. Designed to function in both non-cracked and cracked concrete, the Rawl R-HPT is the ideal anchor for the most demanding fixing applications.

The R-HPT Throughbolt requires a hole in the concrete the same diameter as the anchor bolt. 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:

Zinc-plated steel

Typical Applications:

| | | |
|--------------------|-----------------|------------------|
| Cladding Restraint | Barriers | Structural Steel |
| Curtain Walling | Handrails | Heavy Plant |
| Balustrading | Passenger Lifts | Fencing |

Approvals:

The Rawl R-HPT Throughbolt has been tested and approved by independent UK and international approval bodies.



R-HPT Throughbolt

| BOLT SIZE/HOLE IN CONCRETE (d) | BOLT LENGTH (l) | WASHER DIAMETER (w) | THREAD LENGTH (l _T) | HOLE DIAMETER IN FIXTURE (d _f) | STANDARD EMBEDMENT | | REDUCED EMBEDMENT | | RECOMMENDED TORQUE (Nm) (T _{Inst}) | PRODUCT CODE |
|-----------------------------------|--------------------|------------------------|------------------------------------|---|---|--|---|--|---|--|
| | | | | | MINIMUM HOLE DEPTH (h _D) | MAXIMUM FIXTURE THICKNESS (T _{fix}) | MINIMUM HOLE DEPTH (h _D) | MAXIMUM FIXTURE THICKNESS (T _{fix}) | | |
| M8 8mm | 50 | 17 | 14 | 9 | - | - | 40 | 5 | 15 | 56-314 56-316 56-320 56-324 56-326 |
| | 65 | | 25 | | - | 40 | 15 | | | |
| | 80 | | 25 | | 15 | 40 | 30 | | | |
| | 105 | | 25 | | 40 | 40 | 55 | | | |
| | 120 | | 25 | | 55 | 40 | 70 | | | |
| M10 10mm | 65 | 21 | 21 | 11 | - | - | 50 | 5 | 25 | 56-328 56-330 56-332 56-334 56-336 |
| | 80 | | 30 | | 60 | 7 | 50 | 16 | | |
| | 95 | | 30 | | 60 | 22 | 50 | 32 | | |
| | 115 | | 30 | | 60 | 42 | 50 | 52 | | |
| | 130 | | 30 | | 60 | 57 | 50 | 67 | | |
| M12 12mm | 80 | 24 | 30 | 13 | - | - | 60 | 5 | 60 | 56-338 56-340 56-342 56-344 56-346 |
| | 100 | | 40 | | 80 | 4 | 60 | 24 | | |
| | 120 | | 40 | | 80 | 24 | 60 | 44 | | |
| | 135 | | 40 | | 80 | 39 | 60 | 58 | | |
| | 150 | | 40 | | 80 | 54 | 60 | 73 | | |
| M16 16mm | 105 | 30 | 47 | 18 | - | - | 80 | 5 | 110 | 56-350 56-352 56-354 56-356 |
| | 140 | | 60 | | 100 | 20 | 80 | 40 | | |
| | 160 | | 60 | | 100 | 60 | 80 | 80 | | |
| | 180 | | 60 | | 100 | 100 | 80 | 120 | | |
| | 220 | | 60 | | 100 | 100 | 80 | 120 | | |
| M20 20mm | 125 | 37 | 65 | 22 | - | - | 100 | 5 | 180 | 56-360 56-362 56-364 56-366 |
| | 160 | | 65 | | 120 | 20 | 100 | 40 | | |
| | 200 | | 65 | | 120 | 60 | 100 | 80 | | |
| | 220 | | 65 | | 120 | 160 | 100 | 180 | | |
| | 300 | | 65 | | 120 | 160 | 100 | 180 | | |