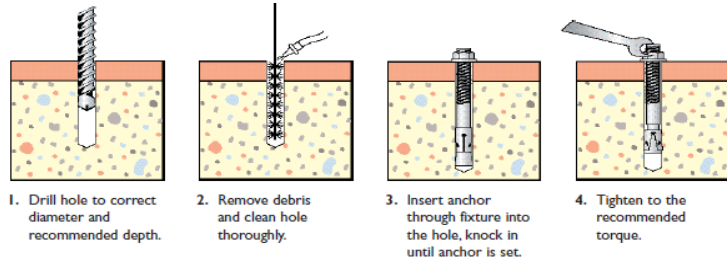




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## Throughbolt HDG

Available in galvanized steel

Size	Anchor Hole Dia. (mm)	Anchor Length (mm)	Hole Dia. In Fixture (mm)	Hole Dia. In Substrate (mm)	Min Hole Depth (mm)	Max Fixture Thickness mm	Min Substrate Thickness	Rec Tight Torque (Nm)	Safe Working Load in 30N/mm <sup>2</sup> Concrete Tension/Shear
8 x 50	8	50	9-10	8	40	5	85	18	4.1 / 3.5
8 x 80	8	80	9-10	8	40	35	85	18	4.1 / 3.5
8 x 90	8	90	9-10	8	40	45	85	18	4.1 / 3.5
8 x 130	8	130	9-10	8	40	85	85	18	4.1 / 3.5
10 x 65	10	65	11-12	10	50	8	90	30	4.9 / 5.6
10 x 75	10	75	11-12	10	50	18	90	30	4.9 / 5.6
10 x 90	10	90	11-12	10	50	33	90	30	4.9 / 5.6
10 x 120	10	120	11-12	10	50	63	90	30	4.9 / 5.6
12 x 80	12	80	13-14	12	65	12	110	54	8.1 / 8.8
12 x 100	12	100	13-14	12	65	25	110	54	8.1 / 8.8
12 x 120	12	120	13-14	12	65	45	110	54	8.1 / 8.8
12 x 140	12	140	13-14	12	65	65	110	54	8.1 / 8.8
16 x 105	16	105	17-18	16	85	12	150	120	11.7 / 11.9
16 x 125	16	125	17-18	16	85	30	150	120	11.7 / 11.9
16 x 150	16	150	17-18	16	85	55	150	120	11.7 / 11.9
16 x 175	16	175	17-18	16	85	80	150	120	11.7 / 11.9
16 x 200	16	200	17-18	16	85	105	110	120	11.7 / 11.9
20 x 130	20	130	21-22	20	100	20	200	240	15.1 / 16.8
20 x 240	20	240	21-22	20	100	130	200	240	15.1 / 16.8
20 x 280	20	280	21-22	20	100	170	200	240	15.1 / 16.8