

SCREW BOLTS

PRODUCT DESCRIPTION

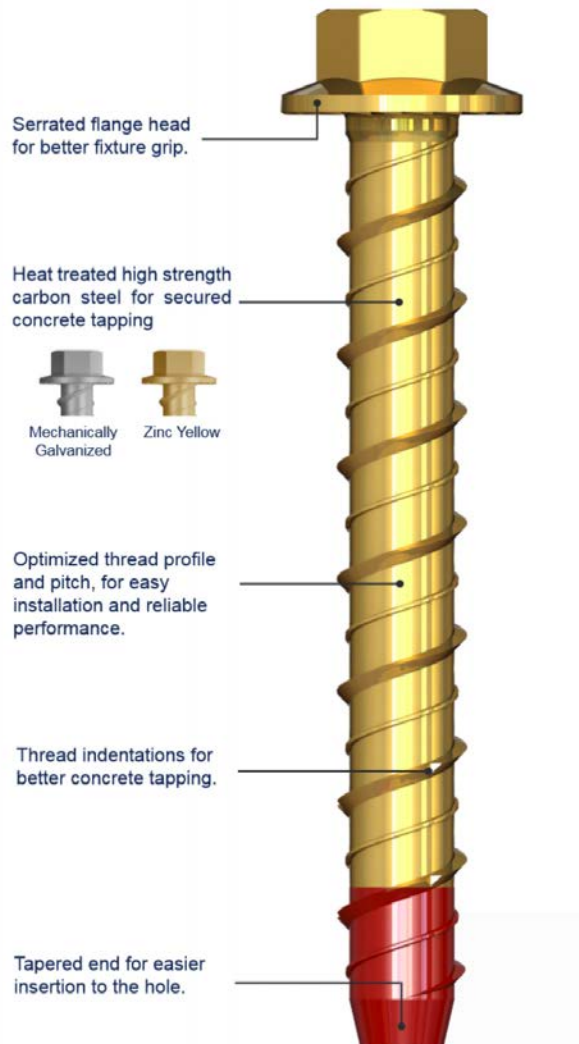
Danterr Screw Bolts are single unit screw type anchors that are used in solid concrete applications. Fixing is achieved by screwing the anchor into the hole. As it is screwed in, it creates its own undercut by tapping the concrete hole. The cutting and locking mechanism, enables the anchor to be used in close spacing and edge distance applications.

ADVANTAGES

- Suitable for medium to heavy loads
- Suitable for small anchor spacing and edge distance applications
- Quick and easy to install
- Fully removable

APPLICATIONS

- Hand rail fastening
- Formwork support fastening
- Mechanical, electrical and pipe bracket fastening
- Bottom plates



INSTALLATION SPECIFICATION

Size	Nominal Hole Diameter (mm)	Minimum Embedment Depth (mm)	Min. Hole Diameter (mm)	Wrench Size (mm)	Flange Head Diameter (mm)	Minimum Spacing (mm)	Minimum Edge Distance (mm)
06	6	25	8	10	13.7	40	40
08	8	40	11	13	17.9	40	40
10	10	50	13	15	22.5	50	50
12	12	55	15	16	26.1	60	60
16	16	65	20	21	31.9	70	70

SCREW BOLTS

BASIC LOAD PERFORMANCE IN 32 MPa NON-CRACKED CONCRETE

Size	Embedment Depth (mm)	Design Tensile Resistance ¹ (kN)	Working Load In Tension ² (kN)
06	25	2.4	1.3
06	30	2.7	1.5
06	45	6.1	3.3
06	60	10.8	6.0
08	35	4.1	2.3
08	40	5.7	3.1
08	60	12.2	6.8
08	80	20.1	11.1
10	45	6.6	3.6
10	50	8.8	4.8
10	75	18.2	10.1
10	90	24.6	13.6
12	55	7.8	4.3
12	60	11.3	6.2
12	90	24.6	13.6
12	110	34.2	19.0
16	65	13.3	7.3
16	75	17.1	9.5
16	100	28.0	15.5
16	125	40.6	22.5

Size	Embedment Depth (mm)	Edge Distance (mm)	Design Shear Resistance(kN)	Working Load in Shear ² (kN)
06	40	3.1	1.3	1.7
06	40	5.4	1.5	3.0
06	40	8.1	3.3	4.5
06	40	9.5	6.0	4.7
08	50	3.3	2.3	1.8
08	50	5.8	3.1	3.2
08	50	8.6	6.8	4.8
08	50	11.8	11.1	6.5
10	60	4.9	3.6	2.7
10	60	9.1	4.8	5.1
10	60	12.4	10.1	6.9
10	60	15.9	13.6	8.8
12	70	6.6	4.3	3.6
12	70	9.7	6.2	5.3
12	70	16.7	13.6	9.3
12	70	22.6	19.0	12.6
16	80	8.7	7.3	4.8
16	80	13.9	9.5	7.7
16	80	23.9	15.5	13.3
16	80	35.4	22.5	19.6

¹ Design Resistance is the governing minimum load resistance obtained by comparing relevant concrete and steel resistances. Capacity reduction factors of $\phi = 0.60$ for concrete and $\phi = 0.80$ for steel are already included.

² Working Load is the governing minimum allowable load obtained by comparing relevant concrete and steel working loads. Factor Of Safety of FOS = 2.5 for steel and FOS = 3.0 for concrete are already included.