



BRACING INSERTS

INVERTED WALL BRACE INSERT

**ONE SIZE FITS ALL
PANEL THICKNESSES.**

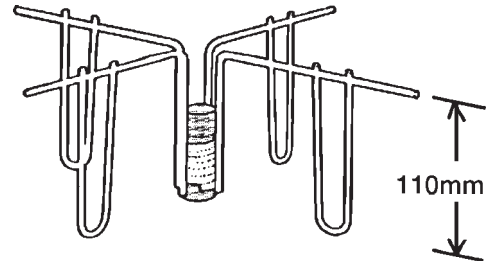
COMPLIES WITH AS 3850

Designed for use when panels are to be braced externally, or when panels to be braced internally are cast external face up.

Also used when fixing awnings to the outside (under face) of a panel.

Working Load Limit (2.5:1) Tension 20.82 kN, Shear 43.23 kN

- Loads are based on 21 MPa concrete strength.
- The load increases with square root of the concrete strength.



COIL BOLTS

Coil bolts are made from high strength steel, maximum tensile strength = 689 MPa for all sizes except 3/4" minimum 500 MPa. These have fast acting, self-cleaning coil threads which fit into the helix coils of coil ties and coil inserts.

Coil Bolts require correspondingly small holes in forms, are fast to apply, do not bend in removal, and may be backed out for reuse without removing waler.

Coil bolts should penetrate two full thread lengths beyond the end of the coil in order to develop full strength.

TIE-BACK APPLICATION

Continuous Threaded Coil Rod develops the full strength of standard rod when embedded length is 30 times the rod diameter in 13.8 MPa.



COIL NUT

Heavy hex-shaped Coil Nuts are available for all sizes of coil rod. One nut will develop the full strength of standard coil rod. TWO NUTS ARE REQUIRED TO DEVELOP THE FULL STRENGTH OF HIGH STRENGTH ROD.

With the addition of a Plate Washer and Hex Nut or a Coil Nut Washer, it becomes a Coil bolt of flexible length that easily adjusts to different sizes of form lumber.

COIL BOLT Nominal Dia.	Working Loads Safe factor = 2.5 Tension	Working Loads Safe factor = 5 Tension	Min. Coil Penetration	Threads Per cm
19mm (3/4")	40 kN	20 kN	38mm	1.75
25mm (1")	64.1 kN	32 kN	51mm	1.38
32mm (1-1/4")	96.8 kN	48.4 kN	51mm	1.38

COIL ROD	STANDARD ROD	HIGH STRENGTH ROD		
Nominal Dia.	Working Loads Safety Factor = 2.5 Tension	Working Loads Safety Factor = 5 Tension	Working Loads Safety Factor = 2.5 Tension	Working Loads Safety Factor = 5 Tension
12mm (1/2")	21.3 kN	10.6 kN	32.2 kN	16.1 kN
19mm (3/4")	32.2 kN	16.1 kN	64.0 kN	32.0 kN
25mm (1")	64.0 kN	32.0 kN	133.4 kN	66.7 kN

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