WADSWORTH
Roof Trusses • Wall Frames • Joinery • Truck Hire

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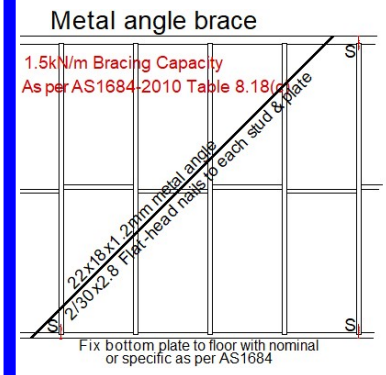
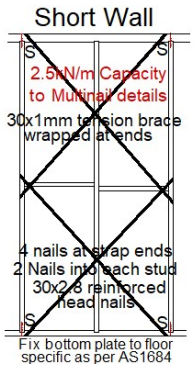
Wall frame Simple installation guide

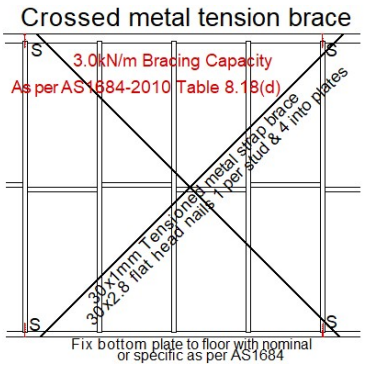
Wadsworth uses screws to secure top and bottom plates to studs for higher wind loads and bracing. Limit state uplift capacity of one screw with 70mm into a JD5 stud is 4.6kN per screw (double screws permitted in 90mm studs). The location of these will be marked on the bottom plate or stud with a code indicating the number of screws used e.g. 1S = 1 Screw. Nail laminated studs clusters will be marked with the total number of screws used e.g. 2S for a double stud with 1 screw per stud. To prevent deformation of bottom plates the frame tie down is required to be within 100mm of the stud.

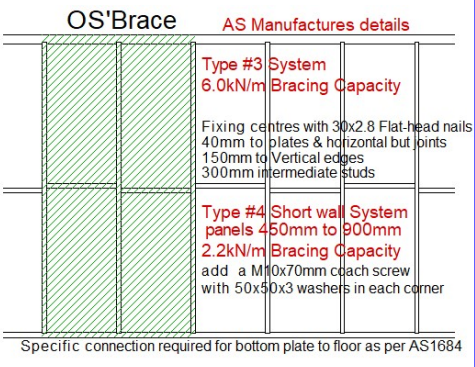
To assist with erection of wall frames made by Wadsworth the following simple details may be used. Nominal fixing for timber wall to timber floor is 2/90mmx3.05mm nails at max 600mm centres. To concrete slabs use 1/75mm masonry nail at max 900mm centres. Locations where studs have been screw fixed to bottom plate connect to floor with a value equal to or greater than the number of screws e.g. if frame is marked with 2S use a 9.2kN tie-down. Then use the table below to determine requirement for bracing.

Connection	N2 Tile	N2 Sheet	N3 Tile	N3 Sheet	N4 Tile	N4 Sheet
Single or upper story wall frames to floor	Nominal	Specific	Specific	Specific	Specific	Specific
Lower story wall frame to floor	Nominal	Nominal	Specific	Specific	Specific	Specific









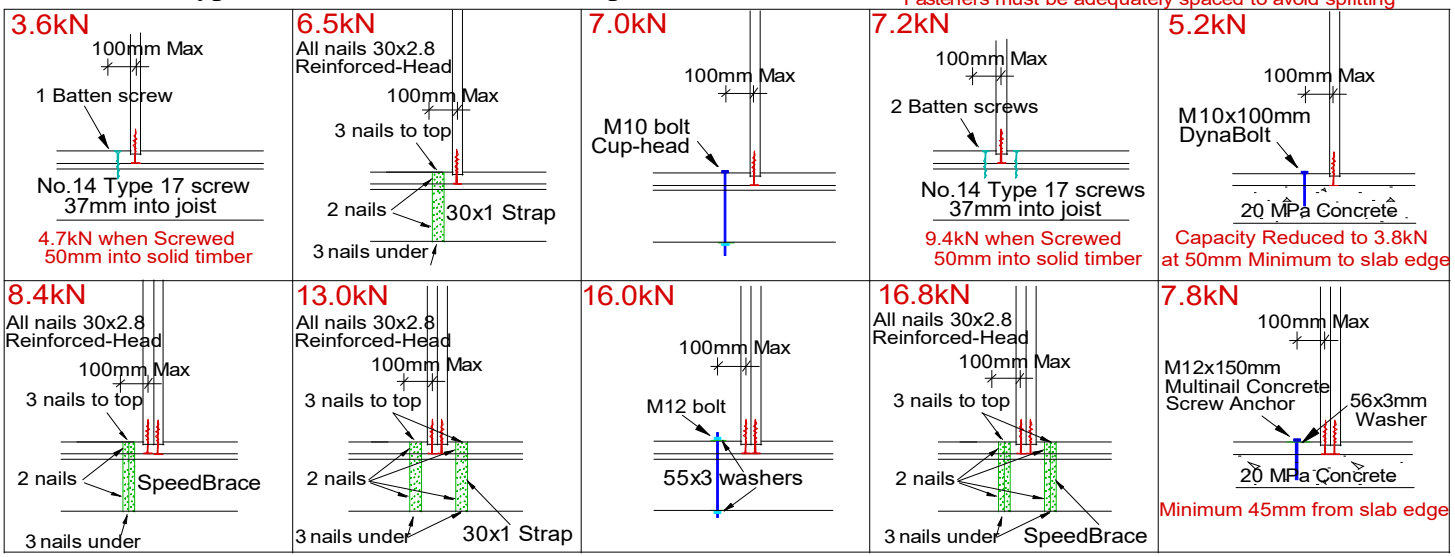
Specific tie down for bracing panels.

The uplift force from the adjacent table must be achieved at each end of brace. OS'Brace panels to have intermediate fixings at max 1200mm centres minimum 1/M10 bolt or 2/No.14 Type 17 screws

Wall Height	1.5kN/m Brace	2.5kN/m Brace	3.0kN/m Brace	6.0kN/m Brace
2400	3.6kN	6.0kN	7.2kN	14kN
2700	4.1kN	6.8kN	8.1kN	16kN
3000	4.5kN	7.5kN	9.0kN	18kN

kN value of typical connections for bottom plate to floor

Fasteners must be adequately spaced to avoid splitting



Wall frames manufactured by Wadsworth must be installed in accordance with AS1684-2010 and specific details provided. Refer to AS1684 and manufacturers specification for full current details as this is intended to be a guide only. Timber to be JD5 min

July 2019