

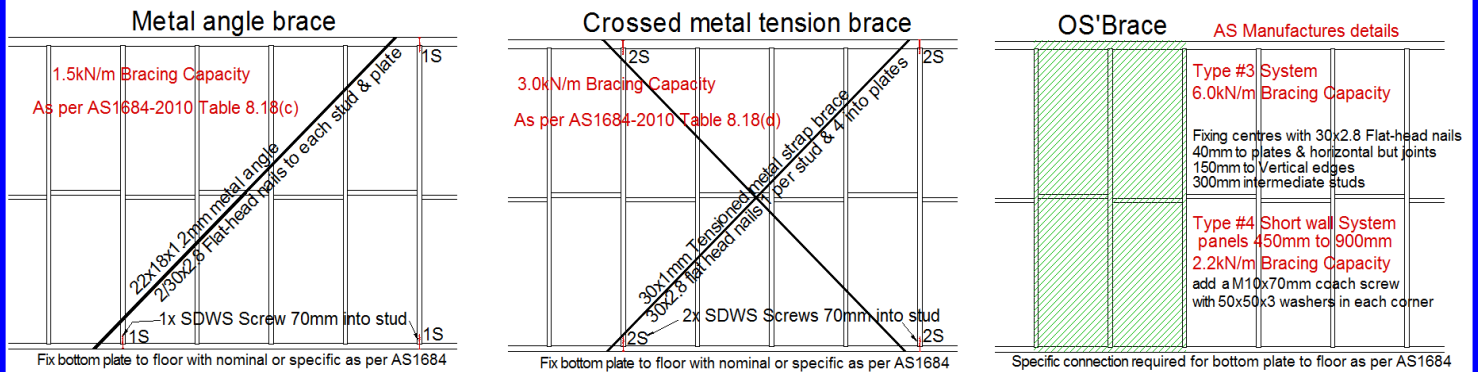


### Wall frame Simple installation guide

Wadsworth uses Strong-Drive® SDWS screws to secure top and bottom plates to studs for higher wind loads. Limit state uplift capacity of one SDWS with 70mm into a JD5 stud is 3.5kN per screw (double screws 7.0kN 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 will be marked with the total number of screws used e.g. 4S for a double stud with 2 screws 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 4S use a 14kN 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 |

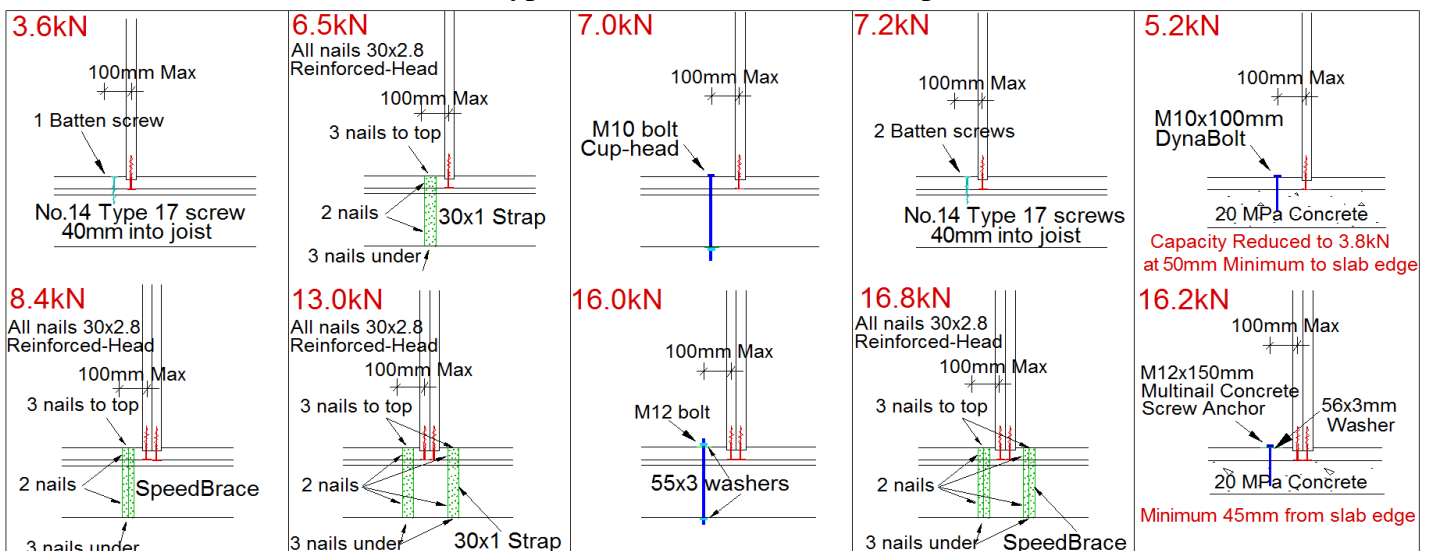


### Specific tie down for bracing panels.

The uplift force from the adjacent table must be achieved at each end. 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 | 3.0kN/m Brace | 6.0kN/m Brace |
|-------------|---------------|---------------|---------------|
| 2400        | 3.6kN         | 7.2kN         | 14kN          |
| 2700        | 4.1kN         | 8.1kN         | 16kN          |
| 3000        | 4.5kN         | 9.0kN         | 18kN          |

### kN value of typical connections for bottom plate to floor



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