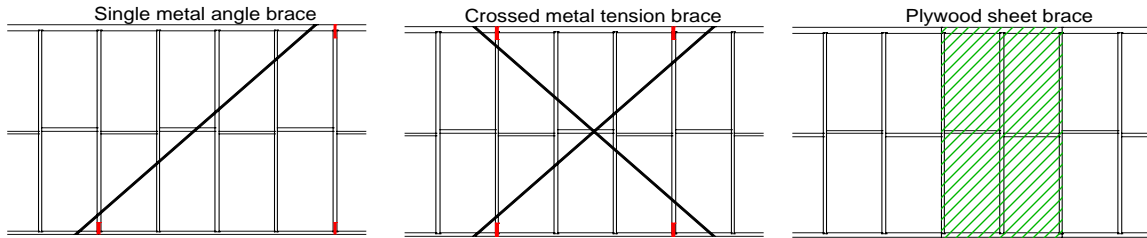




Nominal fixing for timber wall to timber floor is 2/90mmx3.05mm nails at max 600mm centres. To concrete slabs use 1/75mm masonry nail at max 1200mm centres.

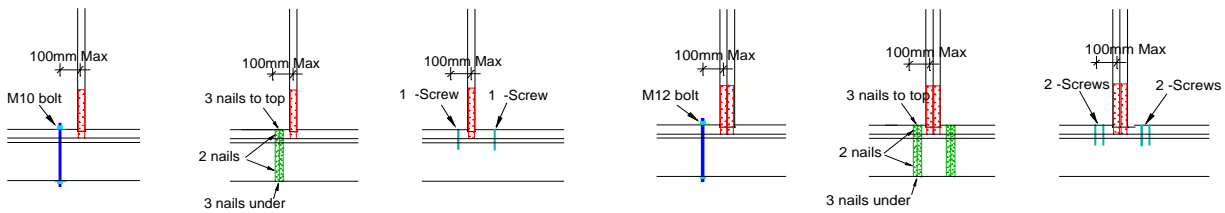
Wall frames with bracing panels and stud ties require additional fixings shown below

### Bracing Walls



Description	wall height	Uplift at each end	Fixing to concrete	Fixing to timber floor
<b>Single Metal angle brace</b> 2/30x2.8mm Ø galvanised flat head nails to each stud 2/30x2.8mm Ø galvanised flat head nails nailed to each plate	2400	3.6 kN	NOTE: The masonry anchor used must be able to withstand the uplift force at each end of the bracing panel shown.  The strength of the fastener with respect to the 45mm JD5 pine bottom plate and edge distances must be considered.	1/100mm No.14 type 17 screws at each end and intermediately @ max 1200mm centres
	2700	4.1 kN		2/100mm No.14 type 17 screws at each end and intermediately @ max 1200mm centres
	3000	4.5 kN		2/100mm No.14 type 17 screws at each end and intermediately @ max 1200mm centres
<b>Crossed metal tension brace</b> 2/30x2.8mm Ø galvanised flat head nails to each stud with 4/30x2.8mm Ø galvanised flat head nails nailed to each plate	2400	7.2 kN		2/100mm No.14 type 17 screws at each end and intermediately @ max 1200mm centres
	2700	8.1 kN		3/100mm No.14 type 17 screws at each end and intermediately @ max 1200mm centres
	3000	9.0 kN		3/100mm No.14 type 17 screws at each end and intermediately @ max 1200mm centres
<b>Plywood sheet</b> 30x2.8mm Ø galvanised flat head nails nailed @ 50mm centres to top and bottom plates nailed @ 150mm centres to vertical edges nailed @ 300mm centres to intermediate studs nailed @ 50mm centres to horizontal butt joints	2400	14 kN	4/100mm No.14 type 17 screws at each end and intermediately @ max 1200mm centres	
	2700	16 kN	M12 bolt with 55x3mm washer at each end and intermediately @ maximum 1200mm centres	
	3000	18 kN	M16 bolt with 65x4mm washer at each end and intermediately @ maximum 1200mm centres	

### Locations with wall plates strapped to studs



Description	Uplift capacity	Fixing to concrete	Fixing to timber floor
Wall frame constructed with 1 stud tie	6 kN	NOTE: The masonry anchor used must be able to withstand the uplift force at each point.  The strength of the fastener with respect to the 45mm JD5 pine bottom plate and edge distances must be considered.	M10 cup-head bolt
			Speed-brace looped over plate and under joist fixed with 30x2.8mm nails 3 top and bottom 2 nails to sides
Wall frame constructed with 2 straps to plates	14 kN		2/100mm No. 14 type 17 screws
			1/ M12 bolt with 55x3mm washer or 2/M10 cup-head bolts
			2/Speed-brace looped over plate and under joist fixed with 30x2.8mm nails 3 top and bottom 2 nails to sides
			4/100mm No. 14 type 17 screws

\* Note this is a guide only for full details refer to Australian Standard AS1684