



Bracing ratings



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FOLLOWING FEEDBACK ON THE PREVIOUS ARTICLE ON BRACING RATINGS (*BUILD* 141, PAGES 39–40), WE HAVE ROUNDED THE RATINGS FOR USE ON EXISTING AND RENOVATED WALLS FOR A MORE USER-FRIENDLY TABLE.

BRACING SYSTEM	WALL LENGTH (M)	NOGS	STRENGTHENING	FIXING TYPE	FIXING PATTERN	RECOMMENDED BRACING RATING – WIND AND EARTHQUAKE
150 × 25 mm let-in brace at 45°	2.4	No	No	75 × 3.15 mm galvanised FH nails	Two nails to each stud and three to each plate	40 BUs/brace
90 × 45 mm double brace cut between studs			No	75 × 3.15 mm bright JH nails	Two nails each end of braces	40 BUs/brace pair
			Strap brace between top plate and end stud			60 BUs/brace pair
Dogleg brace	0.6	@ 600 mm	No	75 × 3.15 mm bright JH nails	Two nails each end of braces	15 BUs/brace
45 × 6 mm lath and plaster, no horse hair	2.4	No		25 × 2.5 mm galvanised FH clouts	Laths fixed with a single nail	30 BUs/m
200 × 10 mm horizontal board	1.2			40 × 2.8 mm galvanised FH nails	Two nails at each board/stud intersection	20 BUs/m
140 × 20 mm bevel-back weatherboard	2.4			Yes	60 × 3.15 mm bright JH nails	Weatherboards fixed to studs with a single nail at 40 mm from the bottom of each board
Standard plasterboard one side	1.2			30 × 2.5 mm galvanised FH nails	A nail at each corner and at 300 mm centres to all studs and plates	15 BUs/m
Standard plasterboard two sides						40 BUs/m
3.2 mm tempered hardboard one side	1.2					No
		Add 30 × 2.5 mm nails	30 × 2.5 mm galvanised FH nails	55 BUs/m		
		Add 30 × 2.5 mm nails and 100% rocking restraint		85 BUs/m		
Horizontal corrugated steel	2.4	No		60 × 3.5 mm bright shank leadhead nails	Nails every second ridge to studs, except third ridge one side of lap	35 BUs/m
Vertical corrugated steel	2.4				Nails every second ridge to noggs and plates, except third ridge one side of lap	25 BUs/m