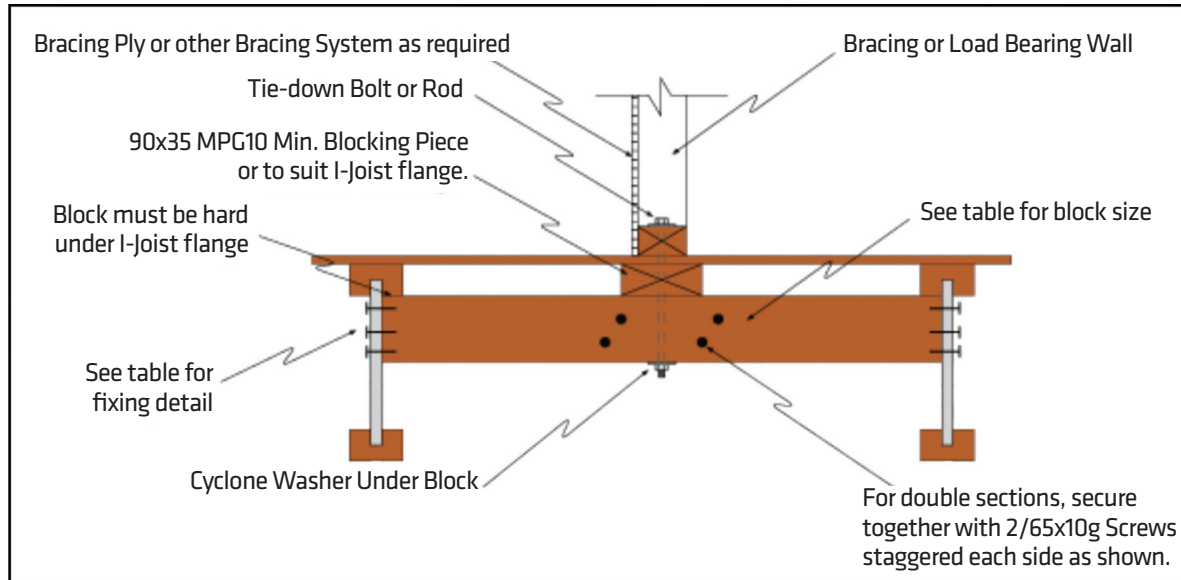


Wall Tie-Down Detail

This detail must be used in conjunction with LP Technical Guide for Residential Floors and Roofs.



Size of block	Nails	Screws	Uplift Capacity (kN)	
			At End	Internal
90x45 MGP12	2/75x3.15	-	3.81	4.41
90x45 MGP12	-	2/75 BS	6.41	7.00
90x45 MGP12	-	3/75 BS	8.20	8.80
2/90x35 MGP12	4/75x3.15	-	4.72	5.32
2/90x35 MGP12	-	4/75 BS	9.92	10.52
2/90x35 MGP12	-	6/75 BS	13.50	14.10

NOTES:

1. At End refers to the block located within 600mm of a joist end. Internal refers to the block located more than 600mm from an end.
2. BS = No 14 Type 17 Batten Screws.
3. The standard uplift required for a bracing wall is assumed at 13kN. It can be achieved with an M10 or M12 tie-down rod or bolts. If the rod is centered between LP I-joists, the tie-down is equally shared to the joists with 6.5kN at each joist connection. The worst case would be the rod located directly beside one joist, in which case 13kN needs to be achieved at that connection.
4. This detail is suitable for tie-downs located at 1.2m or larger on center spacing only.
5. No holes are to be drilled through flanges of joists. If the wall is directly over a joist and the rod must go through a flange, a secondary joist must be installed directly beside the damaged joist.
6. The LP I-joists must be designed to support all downward and upward loads.

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