

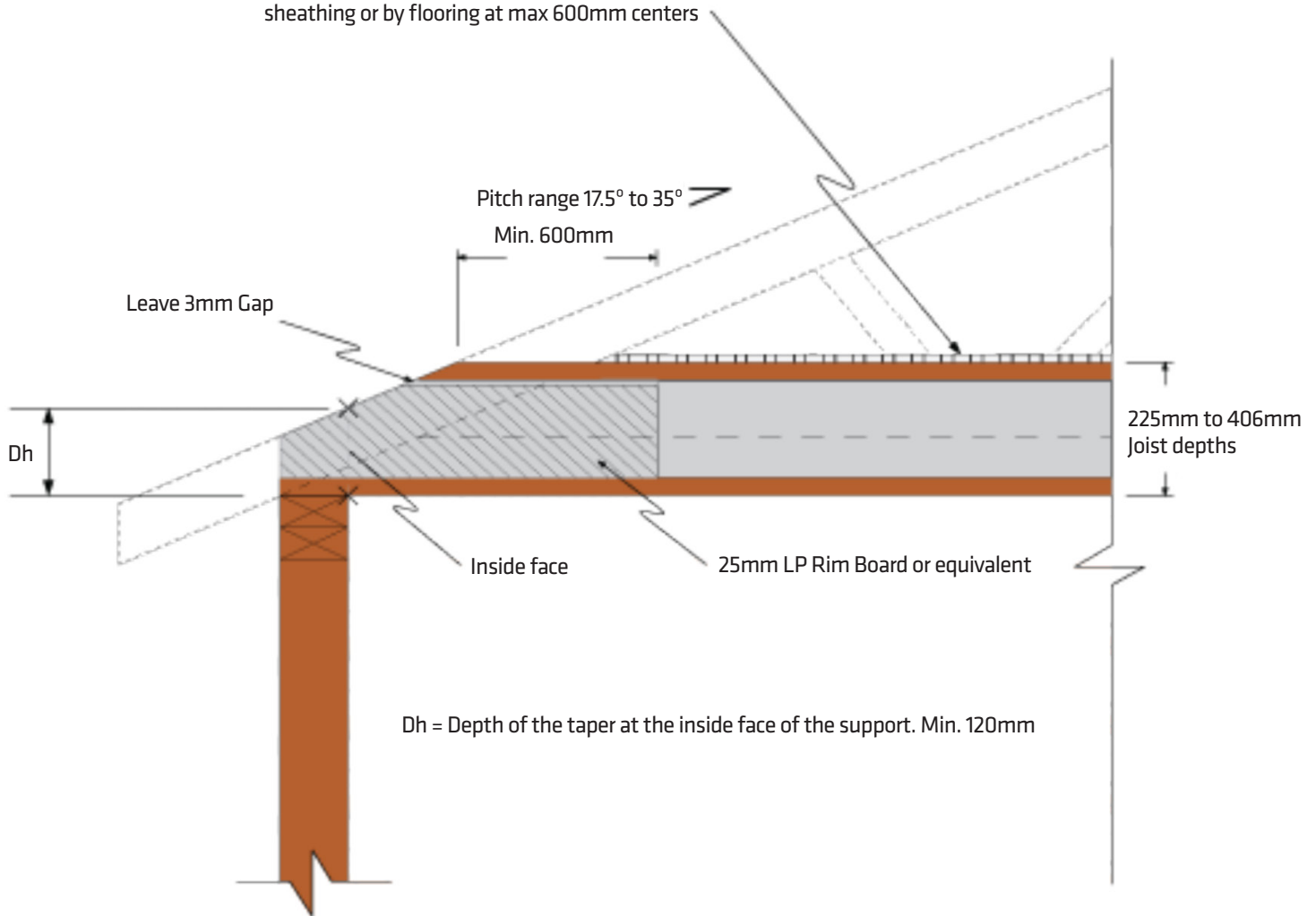


# Tech Note #4

## LP® SolidStart® I-Joist Taper Cut Detail

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

Top flange must be continuously braced either by sheathing or by flooring at max 600mm centers



See the next page for LP I-joist reaction capacities

**CONTACT US: e-mail: [intlsales@lpcorp.com](mailto:intlsales@lpcorp.com) [LPCorp.com/AU](http://LPCorp.com/AU)**

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## Maximum Reaction Capacity at Support for Given Load Combination (kN)

(Roof Pitch=17.5 to 35 deg; Min. Bearing Width=70mm;  
Both Sides Reinforced with 25mm LP Rim Board or equivalent)

I-Joist Depth D (mm)	End Heel Height Dh (mm)	Permanent Loads (k1=0.57)	Floor Live Loads (k1=0.8)	Roof Live Loads (k1=0.94)	Wind Uplift (k1=1.0)
225	225	6.715	9.424	11.073	11.780
	190	6.715	9.424	11.073	11.780
	150	6.371	8.942	10.507	11.178
	120	4.709	6.610	7.766	8.262
240	241	7.202	10.108	11.877	12.635
	190	7.202	10.108	11.877	12.635
	150	6.371	8.942	10.507	11.178
	120	4.709	6.610	7.766	8.262
300	302	8.502	11.932	14.020	14.915
	270	8.502	11.932	14.020	14.915
	230	8.502	11.932	14.020	14.915
	190	8.502	11.932	14.020	14.915
	150	6.371	8.942	10.507	11.178
	120	4.709	6.610	7.766	8.262
356	356	9.585	13.452	15.806	16.815
	300	9.585	13.452	15.806	16.815
	240	9.585	13.452	15.806	16.815
	210	9.585	13.452	15.806	16.815
	180	8.034	11.275	13.248	14.094
	150	6.371	8.942	10.507	11.178
	120	4.709	6.610	7.766	8.262
406	406	10.668	14.972	17.592	18.715
	350	10.668	14.972	17.592	18.715
	290	10.668	14.972	17.592	18.715
	240	10.668	14.972	17.592	18.715
	210	9.696	13.608	15.989	17.010
	180	8.034	11.275	13.248	14.094
	150	6.371	8.942	10.507	11.178
	120	4.709	6.610	7.766	8.262

### Assumptions:

1. The details in the table are only suitable for the pitch range given.
2. The Heel Depth is measured from the taper cut to the underside of the joist bottom flange at the inside face of the wall.
3. The reinforcement sheet must extend a minimum 600mm beyond to top edge of the taper cut.
4. The reinforcement is fixed using an appropriate adhesive, conforming to AS/NZS 4364-2010. Nail using 75x3.05mm nails, staggered each side and clinched,
5. For 225 and 240 joists, 2 rows of nails @ 200mm centres. For 300 to 406, use 3 rows of nails.