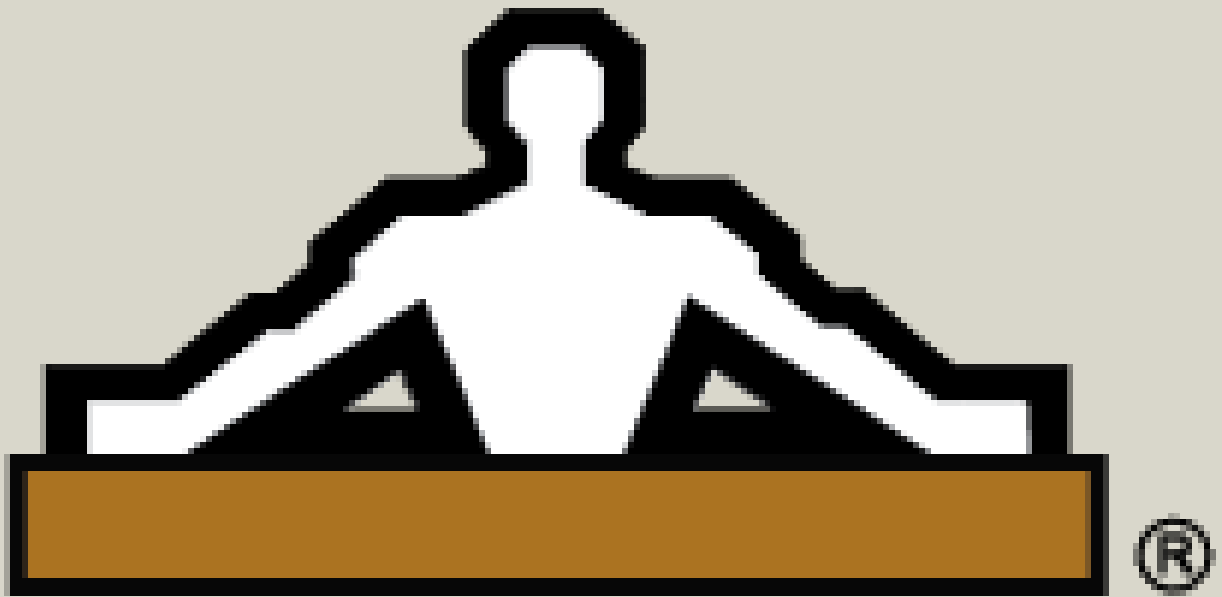




MASONITE BEAMS



The mark of
responsible forestry
Please contact us for our
FSC® certified products

Flat Roof Span Tables

FLAT ROOF DESIGN NOTES:

1. All spans quoted are 'clear spans' measured on plan between bearings.
2. Flat roof table covers pitches up to 10°.
3. Maximum spans assume that the joist flanges are adequately restrained laterally by deck and ceiling.
4. Spans are calculated for the uniformly distributed loads indicated only. This allows for the dead load of the roof with a single ply membrane over a 18mm OSB deck, 15mm ceiling plasterboard and insulation. An imposed load of 0.75kN/m² has been included. This does not make allowance for snow drift loading against on higher buildings. This condition must be assessed by an Engineer or Building Designer.
5. All spans quoted assume imposed loads are of short-term duration
6. Deflection limited to 0.3% of the span.
7. The roof may need strapping down to resist wind uplift. The specification of this is the responsibility of the Building Designer.

Flat Roof Span Table

Dead = 0.5kN/m²;
Live = 0.75kN/m² short-term

P5 Particle Board Web

Joist centres (mm)

Depth	Joist Type	Width	400	600
220	HL220	47	5510	4760
	H220	47	5800	5000
	HM220	60	6270	5400
	HI220	70	6590	5660
	HB220	97	7290	6260
240	HL240	47	5930	5120
	H240	47	6250	5390
	HM240	60	6750	5820
	HI240	70	7090	6100
	HB240	97	7860	6750
300	HL300	47	7140	6170
	H300	47	7510	6490
	HM300	60	8130	7010
	HI300	70	8520	7350
	HB300	97	9460	8140
350	H350	47	8080	6990
	HM350	60	9180	8330
	HI350	70	9650	8400
	HB350	97	10700	9220
400	H400	47	9450	8180
	HM400	60	10200	8820
	HI400	70	10720	9260
	HB400	97	11880	10240

Flat Roof Span Table

Dead = 0.5kN/m²;
Live = 0.75kN/m² short-term

Depth	OSB Web	Width	Joist centres (mm)	
	Joist Type		400	600
220	HL220	47	5580	4830
	H220	47	5880	5090
	HM220	60	6360	5500
	HI220	70	6680	5770
	HB220	97	7420	6400
240	HL240	47	6000	5200
	H240	47	5880	5480
	HM240	60	6360	5920
	HI240	70	7190	6220
	HB240	97	7980	6890
300	HL300	47	7220	6260
	H300	47	7600	6590
	HM300	60	8220	7120
	HI300	70	8640	7480
	HB300	97	9590	8290
350	H350	47	8590	7450
	HM350	60	9290	8450
	HI350	70	9760	8450
	HB350	97	10840	9380
400	H400	47	9540	8280
	HM400	60	10320	8940
	HI400	70	10850	9400
	HB400	97	12030	10410
450	HB450	97	13170	11400
500	HB500	97	14270	12360