

Masonite I-Joists

I-Joist Span Chart

Series	Depth	Class 1 Environments 2.25kN/m ²			Class 2 Environments 2.25kN/m ²		
		400ccs	480ccs	600ccs	400ccs	480ccs	600ccs
HL	220	4.09	3.86	3.55	3.99	3.49	2.79
HL	240	4.32	4.11	3.79	4.22	3.68	2.95
HL	300	4.95	4.72	4.33	4.84	4.31	3.45
H	220	4.45	4.23	3.98	4.18	3.49	2.79
H	240	4.69	4.46	4.20	4.42	3.68	2.95
H	300	5.18	4.94	4.65	5.06	4.31	3.45
H	350	5.69	5.42	5.10	5.17	4.31	3.45
H	400	6.15	5.86	5.52	5.17	4.31	3.45
HI	220	4.85	4.61	4.34	4.20	3.50	2.80
HI	240	5.14	4.89	4.60	4.41	3.68	2.94
HI	300	5.64	5.37	5.06	5.18	4.32	3.45
HI	350	6.18	5.89	5.54	5.18	4.32	3.45
HI	400	6.68	6.36	5.99	5.18	4.32	3.45
MP	220	5.17	4.92	4.64	4.95	4.70	4.42
MP	240	5.47	5.21	4.91	5.24	4.98	4.68
MP	300	6.17	5.88	5.54	5.91	5.62	5.29
MP	350	6.78	6.46	6.09	6.50	6.18	5.81
MP	400	7.34	7.00	6.60	7.05	6.70	6.00

Notes

1. The maximum spans shown above are in metres and indicate the most restrictive single or multiple effective span applications.
2. The deflection restriction has been taken as the lesser of 0.003 x Effective span or 12 mm in accordance with BS 5268.
3. The above tables assume load sharing – i.e. joists at no more than 610mm centres.
4. Maximum spans assume that the joist flanges are adequately restrained laterally and that decking and ceiling are fixed to the joists in accordance with relevant British Standards.
5. Spans are calculated for the uniformly distributed loads indicated only. This figure allows for the dead load of a floor with a 22mm chipboard deck and 15mm plasterboard ceiling, an imposed loading of 1.5kN/m² (from BS6399-1, for domestic floors) and a uniform allowance for lightweight partitions not exceeding 0.8kN/m run. For other conditions please contact the Masonite technical department.
6. Minimum 45 mm end bearing is assumed.
7. All joists in excess of 300mm in depth must have web stiffeners fitted at the bearings in order to achieve these spans. (Page 20)