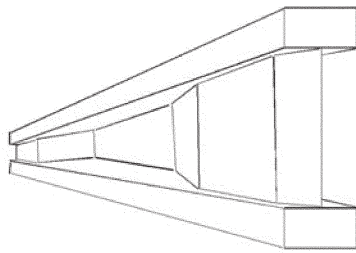


# An outstanding range with outstanding performance

The ILB® system is a framing system that achieves massive spans thanks to its unique design. The light weight nature of the product means you will also reduce transport and handling costs.

Whilst this product is a revolution in the building industry, it is easy to use and fast to install.

There is a wide choice in the range. Whatever the need, ILB® can supply a solution to overcome any design or construction hurdle.



## ILB® DIMENSIONS

ILB® Section	ILB® Dimensions				
	Section Weight	Overall Depth D	Chord RHS size b x d <sub>f</sub>	RHS Wall Thickness t <sub>f</sub>	Web Plate Thickness t <sub>w</sub>
	kg/m	mm	mm	mm	mm
1500 LB 109	109.5	1500	150 X 150	9.0	3.0
1500 LB 86	86.5	1500	150 X 150	6.0	3.0
1500 LB 73	75.1	1500	150 X 150	6.0	2.0
1500 LB 65	66.9	1500	150 X 150	5.0	2.0
1350 LB 49	50.2	1350	125 X 75	5.0	2.0
1200 LB 61	61.7	1200	150 X 100	6.0	2.0
1200 LB 54	55.31	1200	150 X 100	5.0	2.0
1000 LB 50	51.5	1000	150 X 100	5.0	2.0
1000 LB 43	43.8	1000	125 X 75	5.0	2.0
900 LB 55	56.1	900	150 X 100	6.0	2.0
900 LB 49	49.7	900	150 X 100	5.0	2.0
900 LB 42	42.9	900	150 X 100	4.0	2.0
850 LB 41	41.7	850	125 X 75	5.0	2.0
750 LB 39	39.3	750	125 X 75	5.0	2.0
650 LB 37	37.5	650	125 X 75	5.0	2.0
550 LB 35	35.7	550	125 X 75	5.0	2.0
550 LB 30	30.5	550	125 X 75	4.0	2.0
550 LB 25	25.2	550	125 X 75	3.0	2.0
450 LB 23	23.4	450	125 X 75	3.0	2.0

## ILB<sup>®</sup> Properties & Comparison Table

The unique design of an ILB<sup>®</sup> beam is strong yet lightweight. The following table lets you see the savings you can make by using the ILB<sup>®</sup> System. Call us to discuss the project.

Capacity Required		Traditional Option		The ILB Alternative	ILB beam weight (%) of traditional beam to achieve the same stiffness or strength	
Φ MSx		Deflection Stiffness	Strength	ILB Section equivalent	% weight for Stiffness	% weight for Stiffness
$I_x$	Section Capacity					
10 <sup>6</sup> mm <sup>4</sup>	kNm	(Refer Note 3)	(Refer Note 4)			
4410	2040	900 WB 257	900 WB 175	1500 LB 109	42	63
3060	1420	900 WB 175	800 WB 146	1500 LB 86	49	58
3060	1420	900 WB 175	800 WB 146	1500 LB 73	41	50
2580	1200	800 WB 168	800 WB 122	1500 LB 65	35	53
1470	727	800 WB 112	610 UB 101	1350 LB 49	44	49
1660	946	800 WB 146	700 WB 115	1200 LB 61	41	53
1410	800	800 WB 122	610 UB 113	1200 LB 54	44	48
943	655	700 WB 115	610 UB 101	1000 LB 50	43	49
778	527	610 UB 101	530 UB 82	1000 LB 43	42	52
882	688	610 UB 113	610 UB 101	900 LB 55	48	54
747	582	610 UB 101	530 UB 92.4	900 LB 49	48	53
608	460	610 UB 101	530 UB 82	900 LB 42	41	51
547	442	530 UB 92.4	460 UB 74.6	850 LB 41	44	61
416	385	530 UB 82.0	460 UB 67.1	750 LB 39	47	58
303	328	460 UB 67.1	410 UB 59.7	650 LB 37	55	61
208	271	410 UB 59.7	410 UB 53.7	550 LB 35	58	65
170	221	410 UB 53.7	360 UB 44.7	550 LB 30	55	67
131	155	360 UB 50.7	310 UB 40.4	550 LB 25	49	61
82.4	122	310 UB 40.4	310 UB 32	450 LB 23	56	57

**NOTES:**

1. For ILB's G350,  $f_y = 350$  MPa and  $f_u = 430$  MPa;  $f_{yw} = 300$  MPa and  $f_{uw} = 400$  MPa
2. Comparisons based on BHP grade 300PLUS™
3. Stiffness equivalent is a direct comparison of  $I_x$  values and lightest weight alternative
4. Strength equivalent based on direct comparison of  $\phi$ Ms and lightest weight alternative

**PLEASE NOTE: This information is general in nature and does not replace professional advice.**