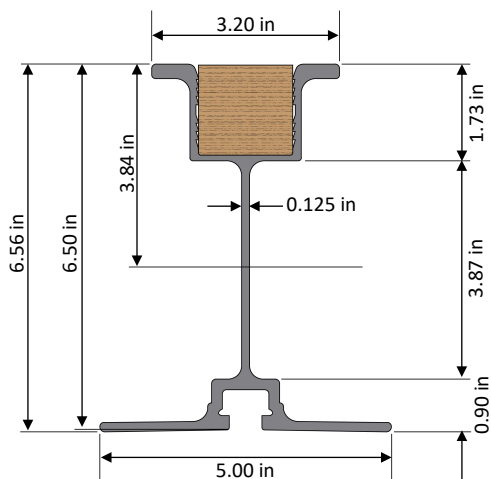


ALUMINUM JOISTS

MAGNUM
DURA-CLAMP
CIRCA-FLEX
HI-LOAD
AL-SPEED

UNISPAN
FORMWORK AND SHORING SYSTEMS



Standard Lengths	Part No.	Standard Lengths	Part No.
2' 0"	02AB	12' 0"	12AB
3' 0"	03AB	13' 0"	13AB
3' 8"	038AB	14' 0"	14AB
4' 0"	04AB	15' 0"	15AB
5' 0"	05AB	16' 0"	16AB
6' 0"	06AB	17' 0"	17AB
7' 0"	07AB	18' 0"	18AB
8' 0"	08AB	20' 0"	20AB
9' 0"	09AB	21' 0"	21AB
10' 0"	10AB	22' 0"	22AB
11' 0"	11AB	24' 0"	24AB

Aluminum Joist - Design Chart

SPAN (ft)	ALLOWABLE DEFLECTION (in)	1 SPAN (lbs/ft)	2 SPAN (lbs/ft)	3 SPAN (lbs/ft)
4.00	0.13	3151 M	2471 R	2808 R
4.50	0.15	2490 M	2196 R	2496 R
5.00	0.17	2017 M	1977 R	2246 R
5.50	0.18	1537 D	1797 R	2042 R
6.00	0.20	1184 D	1647 M	1872 R
6.50	0.22	931 D	1521 M	1728 R
7.00	0.23	745 D	1404 M	1406 D
7.50	0.25	606 D * 606	1223 M	1144 D * 1144
8.00	0.27	499 D * 468	1075 M	942 D * 883
8.50	0.28	416 D * 367	952 M * 855	786 D * 693
9.00	0.30	351 D * 292	845 D * 704	662 D * 551
9.50	0.32	298 D * 235	718 D * 567	563 D * 444
10.00	0.33	256 D * 192	616 D * 462	482 D * 362
10.50	0.35	221 D * 158	532 D * 380	417 D * 298
11.00	0.37	192 D * 131	463 D * 315	362 D * 247
11.50	0.38	168 D * 110	405 D * 264	317 D * 207
12.00	0.40	148 D * 92	356 D * 223	279 D * 174

Notes:

1. R denoted reaction governed. With beam fully supported on 8" (200mm) J-Head. For different support conditions consult engineering for capacity.
2. E denoted half bearing at member end governed.
3. V denoted shear governed.
4. M denoted moment governed.
5. D denoted deflection governed (deflection < L/360).
6. Value with * denoted deflection governs with deflection limited to 6mm (or ¼).
7. Factor of Safety = 2.2:1

Overall height.....	6.50 in
Base width.....	5.00 in
Nominal weight (excluding nailing strip).....	3.20 lb/ft
(including nailing strip).....	4.1 lb/ft
*Allowable bottom flange bearing at beam ends (end reaction).....	6.17 kips
*Allowable bottom flange bearing between beam ends (interior reaction).....	12.35 kips
Allowable Shear.....	7.31 kips
Allowable Bending Moment (bottom flange in compression).....	103.18 kip-in
Allowable Bending Moment (top flange in compression).....	87.29 kip-in

Bolt slots accept ½" (12.7mm) standard square head, hex head or A-bolts.

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