

Beam 1 - Strong Axis

Shape	b (in.)	h (in.)	\bar{x} top (in.)	\bar{I} (in. ⁴)	A (in. ²)	d (in.)	Ad ² (in. ⁴)	\bar{I} + Ad ² (in. ⁴)
1	1.00	0.25	0.38	0.0013	0.2500	-0.13	0.0039	0.0052
2	1.00	0.25	0.38	0.0013	0.2500	-0.1250	0.0039	0.0052
3	0.50	0.50	0.00	0.0052	0.2500	-0.5000	0.0625	0.0677
				0.0000	0.0000	-0.5000	0.0000	0.0000
				0.0000	0.0000	-0.5000	0.0000	0.0000
				0.0000	0.0000	-0.5000	0.0000	0.0000
				0.0000	0.0000	-0.5000	0.0000	0.0000
				0.0000	0.0000	-0.5000	0.0000	0.0000
				0.0000	0.0000	-0.5000	0.0000	0.0000
				0.0000	0.0000	-0.5000	0.0000	0.0000
Sum:				0.0078	Sum: 0.0703			

\bar{x} top, overall (in.) =

0.50

$I_{built-up}$ (in.⁴) = **0.078**

Beam 1 - Weak Axis

Shape	b (in.)	h (in.)	\bar{y} top (in.)	\bar{I} (in. ⁴)	A (in. ²)	d (in.)	Ad ² (in. ⁴)	$\bar{I} + Ad^2$ (in. ⁴)
1	1.00	0.25	0.00	0.0208	0.2500	0.0000	0.0000	0.0208
2	1.00	0.25	0.00	0.0208	0.2500	0.0000	0.0000	0.0208
3	0.50	0.50	0.00	0.0052	0.2500	0.0000	0.0000	0.0052
				0.0000	0.0000	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
Sum:				0.0469	Sum: 0.0000			

\bar{y} top, overall (in.) =

0.00

$I_{built-up}$ (in.⁴) = **0.047**