



## Geometric Properties

Area	783.478	mm <sup>2</sup>
Centroid <sub>z</sub>	25.4	mm
Centroid <sub>y</sub>	38.1	mm

## Moment of Inertia

I <sub>z</sub>	6.23174 x 10 <sup>5</sup>	mm <sup>4</sup>
I <sub>y</sub>	3.27579 x 10 <sup>5</sup>	mm <sup>4</sup>
I <sub>zy</sub>	0	mm <sup>4</sup>
r <sub>z</sub>	28.2027	mm
r <sub>y</sub>	20.4477	mm

## Section Moduli

S <sub>zt</sub>	1.63563 x 10 <sup>4</sup>	mm <sup>3</sup>
S <sub>zb</sub>	1.63563 x 10 <sup>4</sup>	mm <sup>3</sup>
S <sub>yt</sub>	1.28968 x 10 <sup>4</sup>	mm <sup>3</sup>
S <sub>yb</sub>	1.28968 x 10 <sup>4</sup>	mm <sup>3</sup>
Z <sub>zp</sub>	1.9944 x 10 <sup>4</sup>	mm <sup>3</sup>
Z <sub>yp</sub>	1.49689 x 10 <sup>4</sup>	mm <sup>3</sup>
PNA <sub>z</sub>	0	mm
PNA <sub>y</sub>	0	mm

## Shear Properties

A <sub>z</sub>	238.228	mm <sup>2</sup>
A <sub>y</sub>	433.145	mm <sup>2</sup>
A <sub>pl,z</sub>	309.164	mm <sup>2</sup>
A <sub>pl,y</sub>	474.314	mm <sup>2</sup>
SC <sub>z</sub>	0	mm
SC <sub>y</sub>	0	mm
Q <sub>z</sub>	9971.98	mm <sup>3</sup>
Q <sub>y</sub>	7484.44	mm <sup>3</sup>

## Torsion and Warping Properties

J	<b>i</b>	6.68114 x10 <sup>5</sup> mm <sup>4</sup>
r	<b>i</b>	34.0223 mm
I <sub>w</sub>	<b>i</b>	1.00763 x10 <sup>7</sup> mm <sup>6</sup>
β <sub>z, pos</sub>	<b>i</b>	0 mm
β <sub>y, pos</sub>	<b>i</b>	0 mm

### Section Capacity

R <sub>y, base</sub>	<b>i</b>	100 MPa
M <sub>pl, z</sub>	<b>i</b>	1.9944 kN-m
M <sub>pl, y</sub>	<b>i</b>	1.49689 kN-m
V <sub>pl, z</sub>	<b>i</b>	17.8387 kN
V <sub>pl, y</sub>	<b>i</b>	27.3679 kN
N <sub>pl, x</sub>	<b>i</b>	78.3478 kN