



**GROSS SECTION PROPERTIES FOR 180 DEEP EAVES BEAM**

Cross-section area	A	811.5	mm <sup>2</sup>
Position of the z-z axis with regard to the web:	y <sub>b1</sub>	33.1	mm
Second moment of area about strong axis y-y	I <sub>gry</sub>	4305590	mm <sup>4</sup>
Second moment of area about weak axis z-z	I <sub>grz</sub>	831420	mm <sup>4</sup>
Radii of gyration strong axis y-y	i <sub>y</sub>	72.8	mm
Radii of gyration weak axis z-z	i <sub>z</sub>	32.0	mm
Elastic modulus about strong axis y-y	W <sub>y</sub>	48377.4	mm <sup>3</sup>
Elastic modulus about weak axis z-z	W <sub>z</sub>	13876.2	mm <sup>3</sup>
Warping constant	I <sub>w</sub>	6544483607	mm <sup>6</sup>
Torsion constant	I <sub>t</sub>	1039.2	mm <sup>4</sup>
Distance from Shear Centre to web centre	Es	57.3	mm

**GROSS SECTION PROPERTIES FOR 210 DEEP EAVES BEAM**

Cross-section area	A	870.3	mm <sup>2</sup>
Position of the z-z axis with regard to the web:	y <sub>b1</sub>	32.2	mm
Second moment of area about strong axis y-y	I <sub>gry</sub>	6133238	mm <sup>4</sup>
Second moment of area about weak axis z-z	I <sub>grz</sub>	840805	mm <sup>4</sup>
Radii of gyration strong axis y-y	i <sub>y</sub>	83.9	mm
Radii of gyration weak axis z-z	i <sub>z</sub>	31.1	mm
Elastic modulus about strong axis y-y	W <sub>y</sub>	58973.4	mm <sup>3</sup>
Elastic modulus about weak axis z-z	W <sub>z</sub>	13828.8	mm <sup>3</sup>
Warping constant	I <sub>w</sub>	9145964005	mm <sup>6</sup>
Torsion constant	I <sub>t</sub>	1114.4	mm <sup>4</sup>
Distance from Shear Centre to web centre	Es	51.4	mm