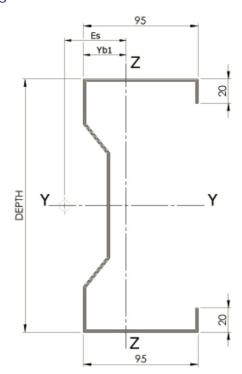


## **EAVES BEAM SECTION PROPERTIES**

Distance from Shear Centre to web centre



GROSS SECTION PROPERTIES FOR 180 DEEP EAVES BEAM			
Cross-section area	А	811.5	mm <sup>2</sup>
Position of the z-z axis with regard to the web:	yb1	33.1	mm
Second moment of area about strong axis y-y	Igry	4305590	mm <sup>4</sup>
Second moment of area about weak axis z-z	Igrz	831420	mm <sup>4</sup>
Radii of gyration strong axis y-y	iy	72.8	mm
Radii of gyration weak axis z-z	iz	32.0	mm
Elastic modulus about strong axis y-y	Wy	48377.4	mm <sup>3</sup>
Elastic modulus about weak axis z-z	Wz	13876.2	mm <sup>3</sup>
Warping constant	Iw	6544483607	mm <sup>6</sup>
Torsion constant	It	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** 870.3 mm<sup>2</sup> Cross-section area Α Position of the z-z axis with regard to the web: yb1 32.2 mm Second moment of area about strong axis y-y 6133238 mm<sup>4</sup> Igry Second moment of area about weak axis z-z 840805 mm<sup>4</sup> Igrz Radii of gyration strong axis y-y 83.9 mm iy Radii of gyration weak axis z-z iz 31.1 mm Elastic modulus about strong axis y-y Wy 58973.4 mm<sup>3</sup> Elastic modulus about weak axis z-z Wz 13828.8 mm<sup>3</sup> Warping constant 9145964005 mm<sup>6</sup> lw Torsion constant Ιt 1114.4 mm<sup>4</sup>

Es

51.4 mm