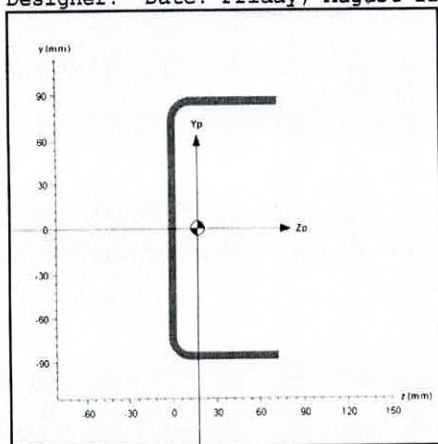




Shape Builder

Section: 2 - 178x76 CPost

Basic Properties		Elastic Section Moduli		Plastic Section Moduli	
A:	$1.841 \times 10^3 \text{ mm}^2$	Zyb:	$48.98 \times 10^3 \text{ mm}^3$	Sy:	$32.30 \times 10^3 \text{ mm}^3$
Iyp:	$1.000 \times 10^6 \text{ mm}^4$	Zyt:	$18.00 \times 10^3 \text{ mm}^3$	Sz:	$113.8 \times 10^3 \text{ mm}^3$
Izp:	$8.512 \times 10^6 \text{ mm}^4$	Zzb:	$95.64 \times 10^3 \text{ mm}^3$	Syp:	$32.30 \times 10^3 \text{ mm}^3$
Iyz:	$-14.55 \times 10^{-12} \text{ mm}^4$	Zzt:	$95.64 \times 10^3 \text{ mm}^3$	Szp:	$113.8 \times 10^3 \text{ mm}^3$
Iy:	$1.000 \times 10^6 \text{ mm}^4$	Zypb:	$48.98 \times 10^3 \text{ mm}^3$		
Iz:	$8.512 \times 10^6 \text{ mm}^4$	Zypt:	$18.00 \times 10^3 \text{ mm}^3$		
Alpha:	0.00 deg	Zzpb:	$95.64 \times 10^3 \text{ mm}^3$		
Cy:	0.0 mm	Zzpt:	$95.64 \times 10^3 \text{ mm}^3$		
Cz:	17.4 mm				

Torsional Properties		Shear Center		Radii of Gyration	
J:	$22.09 \times 10^3 \text{ mm}^4$	Vy:	-0.3 mm	Ry:	23.3 mm
Iw:	$4.781 \times 10^9 \text{ mm}^6$	Vz:	-27.2 mm	Rz:	68.0 mm
				Ryp:	23.3 mm
				Rzp:	68.0 mm

Shape 1 (mm, MPa)

Name:	Cee Shapel				
Shape type:	Cee Shape				
D:	178.0	Bt:	76.0		
Bb:	76.0	Tt:	0.0		
Tb:	0.0	Tw:	6.0		
Radius:	10.0	Alpha:	0.0		
Y Translation:	0.0	Z Translation:	0.0		
Mirror Y:	No	Mirror Z:	No		
β Rotation:	0.00	Transposed:	No		
Negative shape:	No	Fabrication:	Cold Formed		
Design strength: (Normal)	fy: 450	fyw: 0		fu: 480	
Design strength: (High)	fy: 0	fyw: 0		fu: 0	