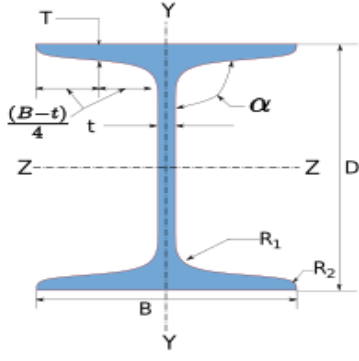


Company Name	LoremIpsum	Project Title	Fossee
Group/Team Name	LoremIpsum	Subtitle	
Designer	LoremIpsum	Job Number	123
Date	18 /05 /2020	Client	LoremIpsum

1 Input Parameters

Module		Column Coverplate Weld Connection		
MainModule		Moment Connection		
Moment(kNm)*		10.0		
Shear(kN)*		10.0		
Axial (kN) *		10.0		
Section				
	Column Section *		HB 450*	
	Material *		E 250 (Fe 410 W)A	
	Ultimate strength, fu (MPa)		410	
	Yield Strength , fy (MPa)		250	
	Mass	92.5	Iz(mm4)	403000000.0
	Area(mm2) - A	11800.0	Iy(mm4)	305000000.0
	D(mm)	450.0	rz(mm)	185.0
	B(mm)	250.0	ry(mm)	50.8
	t(mm)	11.3	Zz(mm3)	1790000.0
	T(mm)	13.7	Zy(mm3)	242000.0
	FlangeSlope	94	Zpz(mm3)	1972600.0
	R1(mm)	15.0	Zpy(mm3)	242000.0
	R2(mm)	7.5		
Weld Details				
Weld Type		Fillet		
Type of weld fabrication		Shop Weld		
Material grade overwrite (MPa) Fu		410.0		

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2 Design Checks

2.1 Weld Design Checks

Check	Required	Provided	Remarks
Min Weld Size (mm)	$\text{Thickness of Thicker part}$ $= \max(13.7, 18.0)$ $= 18.0$ <i>IS800 : 2007 cl.10.5.2.3 Table21,</i> $t_{w_{min}} = 5$	12	Pass
Max Weld Size (mm)	$\text{Thickness of Thinner part}$ $= \min(13.7, 18.0) = 13.7$ $t_{w_{max}} = 13.7$	12	Pass

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3 3D View



Figure 1: 3D View