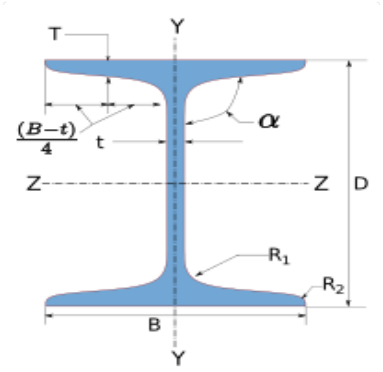
| | | | |
|---|---|---|---|
| Company Name | LoremIpsum | Project Title | Fossee |
| Group/Team Name | LoremIpsum | Subtitle | |
| Designer | LoremIpsum | Job Number | 123 |
| Date | 18 /05 /2020 | Client | LoremIpsum |

# 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 * | PBP 400X230.9 | |
| | Material * | E 250 (Fe 410 W)A | |
| | Ultimate strength, fu (MPa) | 410 | |
| | Yield Strength , fy (MPa) | 250 | |
| | Mass 230.92 | Iz(mm4) | 702552000.0 |
| | Area(mm2) - A 29420.0 | Iy(mm4) | 282018200.0 |
| | D(mm) 372.0 | rz(mm) | 154.5 |
| | B(mm) 402.0 | ry(mm) | 97.89999999999999 |
| | t(mm) 26.0 | Zz(mm3) | 3777160.0 |
| | T(mm) 26 | Zy(mm3) | 1403080.0 |
| | FlangeSlope 90 | Zpz(mm3) | 4312250.0 |
| | R1(mm) 1.5 | Zpy(mm3) | 1403080.0 |
| | R2(mm) 0.0 | | |
| **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) | $Thickness\ of\ Thicker\ part$ $= max(26, 18.0)$ $= 26$ $IS800:2007\ cl.10.5.2.3\ Table21,$ $t_{w_{min}} = 6$ | 16 | Pass |
| Max Weld Size (mm) | $Thickness\ of\ Thinner\ part$ $= Min(26, 18.0) = 18.0$ $t_{w_{max}} = 18.0$ | 16 | Pass |

| | | | |
|---|---|---|---|
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## 3 3D View


Figure 1: 3D View