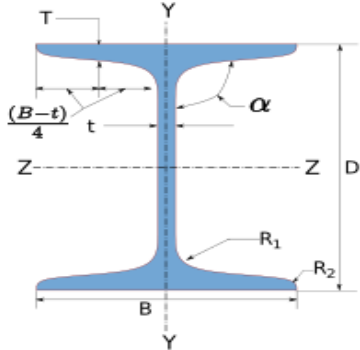


|                 |              |               |            |
|-----------------|--------------|---------------|------------|
| Company Name    | LoremIpsum   | Project Title | Fossee     |
| Group/Team Name | LoremIpsum   | Subtitle      |            |
| Designer        | LoremIpsum   | Job Number    | 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 *            |                                   | SC 250            |             |
|   | Material *                  |                                   | E 250 (Fe 410 W)A |             |
|   | Ultimate strength, fu (MPa) |                                   | 410               |             |
|   | Yield Strength , fy (MPa)   |                                   | 250               |             |
|   | Mass                        | 85.6                              | Iz(mm4)           | 125000000.0 |
|   | Area(mm2) - A               | 10900.0                           | Iy(mm4)           | 32600000.0  |
|   | D(mm)                       | 250.0                             | rz(mm)            | 107.0       |
|   | B(mm)                       | 250.0                             | ry(mm)            | 54.6        |
|   | t(mm)                       | 10.0                              | Zz(mm3)           | 997000.0    |
|   | T(mm)                       | 17                                | Zy(mm3)           | 260000.0    |
|   | FlangeSlope                 | 98                                | Zpz(mm3)          | 1089500.0   |
|   | R1(mm)                      | 23.0                              | Zpy(mm3)          | 260000.0    |
|   | R2(mm)                      | 11.5                              |                   |             |
| 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) | $\text{Thickness of Thicker part}$<br>$= \max(17, 14.0)$<br>$= 17$<br><i>IS800 : 2007 cl.10.5.2.3 Table21,</i><br>$t_{w_{min}} = 5$ | 12       | Pass    |
| Max Weld Size (mm) | $\text{Thickness of Thinner part}$<br>$= \text{Min}(17, 14.0) = 14.0$<br>$t_{w_{max}} = 14.0$                                       | 12       | Pass    |

|                 |              |               |            |
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3 3D View



Figure 1: 3D View