1 Input Parameters

Module	Tension Member Design - Bolted to End Gusset
Axial (kN)*	76.0
Length (mm) *	1250.0
Section Profile*	Angles
Section Size*	Ref List of Input Section
Section Material	E 250 (Fe 410 W)A
Ultimate Strength, F_u (MPa)	410
Yield Strength, F_y (MPa)	250
Bolt Details - Input and Design Preference	
Diameter (mm)	[8]
Property Class	[4.6]
Type	Bearing Bolt
Hole Type	Standard
Detailing - Design Preference	
Edge Preparation Method	Sheared or hand flame cut
Are the Members Exposed to Corrosive Influences?	False
Plate Details - Input and Design Preference	
Thickness (mm)	[8, 10, 12, 14, 16, 18, 20, 22, 25, 28, 32, 36, 40, 45, 50, 56, 63, 75, 80, 90, 100, 110, 120]
Material	E 250 (Fe 410 W)A

2 Design Log

2024-09-18 13:03:16 - Osdag - WARNING - : The available depth of the member cannot accommodate the minimum available bolt diameter of 8.0 mm considering the minimum spacing limit [Ref. Cl. 10.2, IS 800:2007].
2024-09-18 13:03:16 - Osdag - INFO - : Reduce the bolt diameter or increase the member depth and re-design.
2024-09-18 13:03:16 - Osdag - ERROR - : Design is unsafe.
2024-09-18 13:03:16 - Osdag - INFO - :==========End Of design==========