Steel Design Calculation Report

Structural Design Codes/References

The codes/references used in this report include:

1. Eurocode 1990
2. Eurocode 1991-1-1
3. Eurocode 1993-1-1

Designed Element/Member

Element/Member Name: {elem_name}

Section Classification

Section Properties

Section Size: {section}

Yield Strength: {yield_str} N/mm^2

Table: Section Properties

Properties	Values	Description
b	data_b	Width (mm)
h	data_h	Height (mm)

Flange Classification

$c_w = h - 2t_w = \{c\_w\}$ mm

$c_w/t_w = \{cwtw\_res\}$ mm $<= 72\epsilon = \{eps\_72\}$
Therefore, the flange is Class 1.

$c_w/t_w = \{cwtw\_res\}$ mm $> 72\epsilon = \{eps\_72\}$
Therefore, the flange is not Class 1.