

End-plate thickness (ANSI/AISC 358-10, 6.10)

**Step 6.** Select an end-plate thickness,  $t_p$ , not less than the required value.

**31.8 mm  $\geq$  30.6 mm ✓**

**Step 5.** Determine the required end-plate thickness,  $t_{p, req'd}$ .

$t_{p, req'd} : \underline{30.6} \text{ mm}$

where:

**$M_f$ :** Moment at the face of the column.

**$M_f$  :** 643.49 kN·m

**$\phi_d$ :** Resistance factor for ductile limit states.

**$\phi_d$  :** 1.00

**$F_{yp}$ :** Specified minimum yield stress of the end-plate material.

**$F_{yp}$  :** 250.00 MPa

**$Y_p$ :** End-plate yield line mechanism parameter from AISC 358-10 Tables 6.2, 6.3 or 6.4

**$Y_p$  :** 3055.1 mm

Case 1 ( $d_e \leq s$ )

Note: If  $p_{fi} > s$ , use  $p_{fi} = s$ .

**$s$  :** 95.9 mm

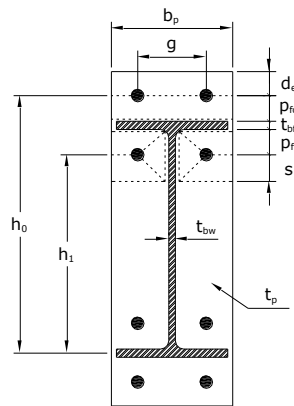
**$b_p$  :** 245 mm

**$h_0$  :** 439.3 mm

**$h_1$  :** 333.8 mm

**$g$  :** 150 mm

**$p_{fi}$  :** 46 mm



**$p_{fo}$  :** 46 mm