

Table 11.3.2-1 — Additional symbols for the purposes of 11.3

Symbol	Description			Unit
A_{w}	total fillet weld throat area		mm²	
ď	attachment inside diameter for circular hollow attachment			mm
do	attachment outside diameter for circular hollow attachment		mm	
Do	outside diameter of run pipe	Isn't it pipe wall thickness?		mm
e _{ord}	nominal attachment wall thickness			mm
L ₁	half length of attachment in circumferential direction of the run pipe for rectangular attachment			mm

EN 13480-3:2002 (E) lesue 1 (2002-05)

and

$$A_m = A_T / 2 \tag{11.3.4-4}$$

$$\gamma = D_{o} / (2e_{ord}) \tag{11.3.4-5}$$

$$\tau = e_{\text{ord,T}} / e_{\text{ord}}$$
 Can anyone explain this formula. What is T for?

Does it represent attachment? (11.3.4-6)

$$\beta = d_o / D_o \tag{11.3.4-7}$$

$$C = A_o(2\gamma)^{n_1} \beta^{n_2} \tau^{n_3} \text{ but not less than 1,0}$$
 (11.3.4-8)

$$J = \min \left\{ Z_T ; \pi \left(\frac{d_o}{2} \right)^2 e_{ord} \right\}$$
 (11.3.4-9)

a) Hollow circular attachments

$$\sigma_{\text{MT}} = \frac{B_{\text{W}}W}{A_{\text{T}}} + \frac{B_{\text{N}}M_{\text{N}}}{Z_{\text{T}}} + \frac{B_{\text{L}}M_{\text{L}}}{Z_{\text{T}}} + \frac{Q_{1}}{A_{\text{m}}} + \frac{Q_{2}}{A_{\text{m}}} + \frac{B_{\text{T}}M_{\text{T}}}{\overline{J}_{\text{N}}}$$

$$\sigma_{\text{NT}} = \frac{C_{\text{W}}W}{A_{\text{T}}} + \frac{C_{\text{N}}W}{Z_{\text{N}}} + \frac{C_{\text{L}}M_{\text{L}}}{Z_{\text{T}}} + \frac{Q_{1}}{A_{\text{m}}} + \frac{Q_{2}}{A_{\text{m}}} + \frac{C_{\text{T}}M_{\text{T}}}{\overline{J}_{\text{C}}}$$
Is this Jbar and J given by formula

$$\sigma_{\text{PT}} = K_{\text{T}} \sigma_{\text{NT}}$$
 given by formula (11.3.4-9) are the same? (11.3.5-3)

$$\sigma_{NT}^{"} = \frac{C_W W^{"}}{A_T} + \frac{C_N M_N^{"}}{Z_T} + \frac{C_L M_L^{"}}{Z_T} + \frac{Q_1^{"}}{A_m} + \frac{Q_2^{"}}{A_m} + \frac{C_T M_T^{"}}{\tilde{J}^{V}}$$
(11.3.5-4)

In addition to the modified equations above, the following equations shall be also satisf

$$\sigma_{
m NT}^{**} \leq$$
 2,0 $R_{
m eH}$, at temperature

f) With hollow round cross section

$$\frac{Q_{1}^{**}}{2L_{1}L_{a}} + \frac{Q_{2}^{**}}{2L_{2}L_{b}} + \frac{M_{T}^{**}}{\bar{J}} \leq R_{\text{eH}}, \text{ at temperature}$$

$$\text{Seem this formula is for rectangular attachment.}$$

$$\text{Confusing, require clarification}$$

$$\frac{Q_{1}^{**} + Q_{2}^{**}}{A_{W}} + M_{TT}^{**} \leq R_{\text{cH}}, \text{ at temperature}$$

$$\text{This formula might be for hollow round}$$

11.4 Alternative calculation methods cross sections?

If 11.3 gives no satisfactorily results, or in case of non-compliance with the give

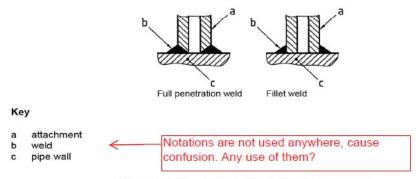


Figure 11.3.3-1 — Hollow circular attachment welds

11.3.3.2 Rectangular attachments