

$$\left(\frac{|\sigma_x|S}{\kappa_x R_{eH}}\right)^{e1} + \left(\frac{|\sigma_y|S}{\kappa_y R_{eH}}\right)^{e2} - B\left(\frac{\sigma_x \sigma_y S^2}{R_{eH}^2}\right) + \left(\frac{|\tau|S\sqrt{3}}{\kappa_\tau R_{eH}}\right)^{e3} \leq 1.0$$

Notes:

Tensile stress need to be considered as the actual values

$$\left(\frac{\sigma_x S}{\kappa_x R_{eH}}\right)^{e1} \leq 1.0$$

$$\left(\frac{\sigma_y S}{\kappa_y R_{eH}}\right)^{e2} \leq 1.0$$

Notes:

The buckling utilization factor is taken as zero, where the normal stress is tensile.