



Height, $H := 75 \text{ mm}$

Length, $L := 190 \text{ mm}$

Diameter of Shackle Pin, $D_{pin} := 51 \text{ mm}$ (Using Crosby, G-2130, WLL 25 Tonne shackle)

Diameter of Pin Hole, $D_H := 54 \text{ mm}$

Total thickness of Padeye at Hole (including cheek plates), $t := 55 \text{ mm}$

Diameter of Cheek Plate, $D_{ch} := 100 \text{ mm}$

$R_{pl} := 60 \text{ mm}$

$R_{ch} := 50 \text{ mm}$

$t_{pl} := 35 \text{ mm}$

Weld throat thickness, $a := 5 \text{ mm}$

$t_{ch} := 10 \text{ mm}$

Radius of pad-eye, $R_{pad} := \frac{R_{pl} \cdot t_{pl} + 2 \cdot R_{ch} \cdot t_{ch}}{t}$

$R_{pad} = 56.364 \text{ mm}$