calculations

Here, the thickness of the plate is 7mm.
So, I is obtained by equaling crushing estrength to the shear strength of the joint.

- \Rightarrow 120×10⁶ x 0.007 = $\frac{\pi}{4}$. d x 60×10⁶
- =) d= 17-82 mm

since the next standard size is 19 mm

i diameter of the hole = 19 mm

Coversponding sivet diameter = 19 mm

To calculate the pitch (p)

$$S_{t}(p-d)t^{2} = S_{s} \times 2(\frac{\pi}{4})d^{2}$$

=) $(90\times10^{6}(p-0.019)\times0.007) = 60\times10^{6}\times2\times17\times0.019^{2}$

To calculate Head diameter (D)

=) D= 1.5 x 19 mm

To calculate margin(m)

To calculate Pd

