

(B)

So we have $\frac{124}{t}$ MPa on weld throat, shear



$$\frac{(345)(0.58)}{(3)} = \frac{124}{t} \text{ MPa}$$

F.S.

$$t = 1.86 \text{ mm}$$

$$h = t / 0.707 = 2.63 \text{ mm}$$

∴ spec 3mm