

TUF-S / TU-S

HPL

1. Pre-drill the panel

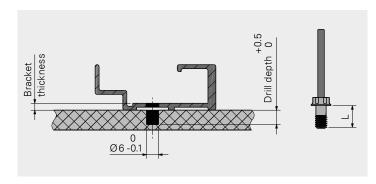
Pre-drill a \varnothing 6.0 mm blind-hole using a milling cutter or a SFS drill bit combined with the SFS depth locator universal



1.2



The geometry of the drill hole shall be checked minimum on 1% of all drillings. **Nominal measure:** \emptyset **5.9 – 6.0 mm** (Can be measured with a vernier caliper)



For CNC milling, a milling cutter Ø 6.0 mm with tolerance h6 is recommended

1.1



1.1 Use a blind-hole drill bit

1.2 Do not use a drill bit with a point angle

1.3 Do not use a worn-out drill bit TUF-S Drill depth + Bracket thickness = TUF-S Length TU-S Drill depth + Bracket thickness -0.5 mm = TU-S Length

Example: 5.5 mm Drill depth + 3.5 mm = TUF-S-6x**9**-A4 6.0 mm Drill depth + 3.5 mm – 0.5 mm = TU-S-6x**9**-A4

Life expectancy for SFS VHM drill bits: min. 500 drills

1.4





1.4
Panel must lie on a hard surface and be fully supported

1.5





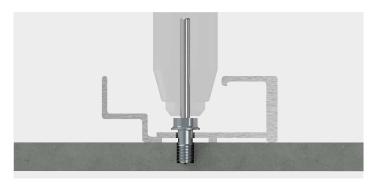
1.5 Keep a right angle during the drill process 1.6

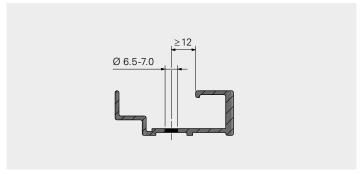


1.6 Remove debris from drill hole

2. Position the hanger

Position the pre-drilled hanger over the hole in the panel and push through the TU-Fastener









2.2
Before setting there can be a small gap between the TU-Fastener head and hanger

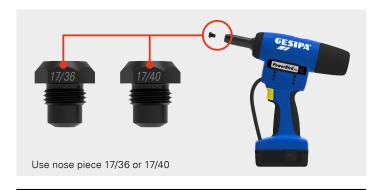


2.3
Do not apply force to the TU-Fastener before setting as this may cause damage to the panel face

3. Remove mandrel

Remove the mandrel using a battery riveting tool from GESIPA $^{\! \otimes}$ (e.g. PowerBird $^{\! \oplus}$ Pro)





3.1





3.1
Panel must lie on
a hard surface and
be fully supported







3.2 Keep a right angle during the setting process

Apply positive pressure to the GESIPA® battery riveting tool towards the panel during mandrel removal