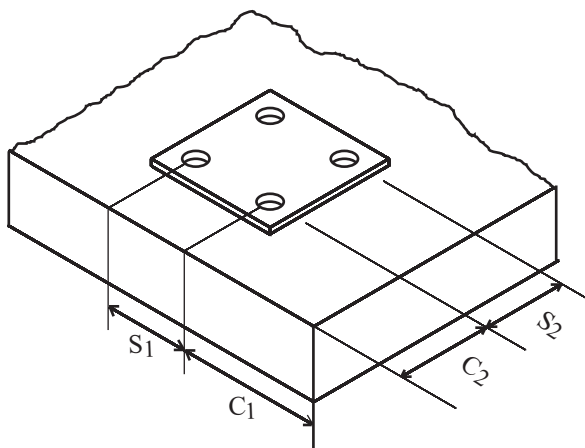


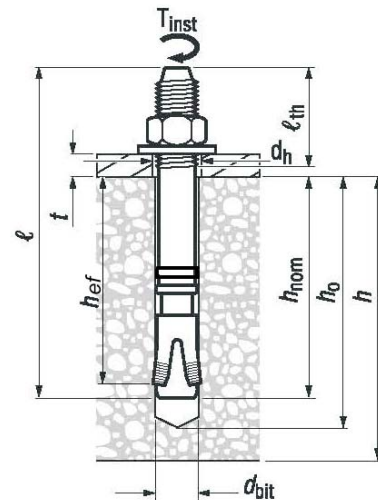
# Fastener Installation Guideline

**In CONCRETE**

**Post - Installed Anchor**



**Fig. 1**



**Fig. 2**

Nomenclatures:

- d<sub>nominal</sub>** = Diameter of Bolt
- h<sub>nominal</sub>** = Embedment Depth = 8 x **d<sub>nominal</sub>** (generally)
- S<sub>critical</sub>** = Spacing between two adjacent CEAs = 2 x **h<sub>nominal</sub>**
- C<sub>critical</sub>** = Concrete Edge Distance = 3 x **h<sub>minimum</sub>** (shear)

Pull and Shear allowable depends on **d<sub>nominal</sub>**, **h<sub>nominal</sub>**, **h<sub>effective</sub>**, **S<sub>critical</sub>**, **C<sub>critical</sub>** and Concrete strength (psi)

**In WOOD**

**Screw**

(Reference : Mark's Handbook of Mechanical Engineering)

- Diameter of Wood Screw = d
- Spacing / Edge distance = 7 x d
- Embedment Depth = 7 x d