

# **METHOD STATEMENT**

**FOR**

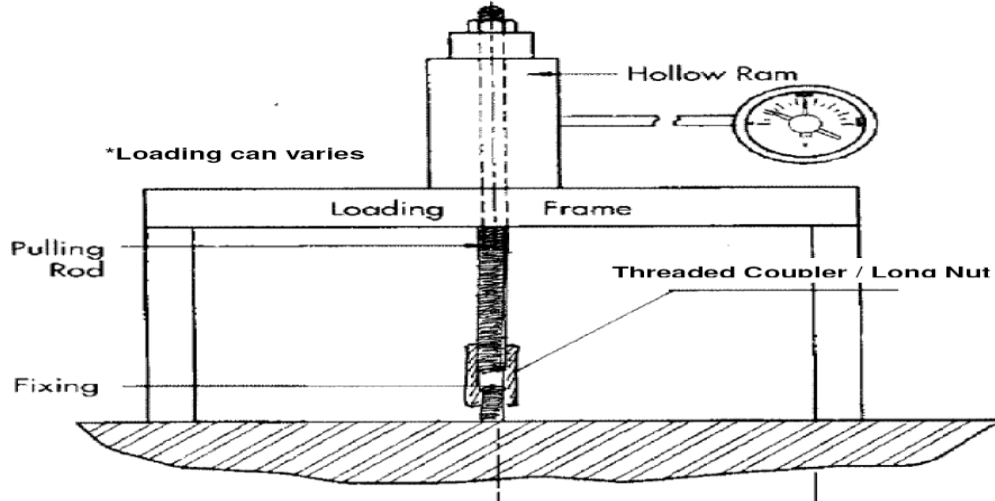
**ANCHOR TESTING**

## **PULL-OUT TEST OF HILTI ANCHORING SYSTEM USING CENTRAL PULL HYDRAULIC JACK (12 Ton, 30 Ton & 60 Ton)**

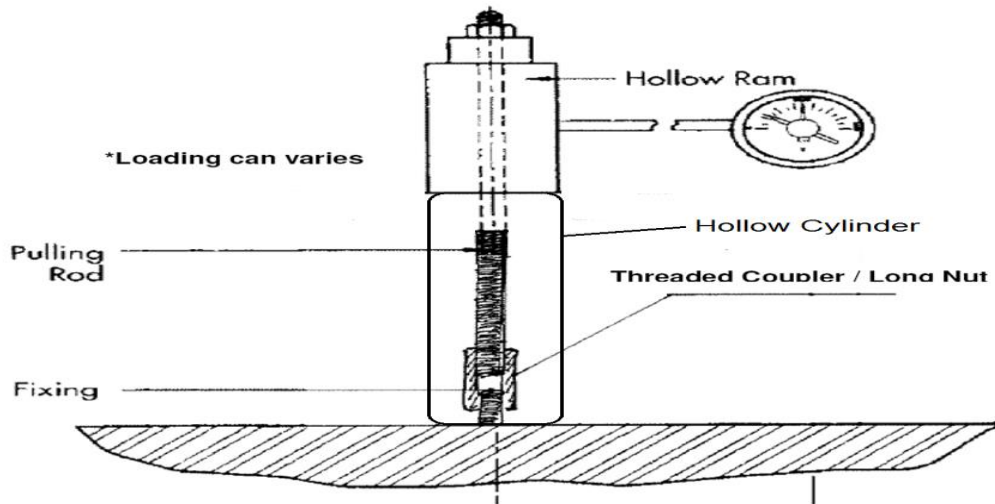
A pull out force applied to the anchor by means of a center pull hydraulic actuated jack.  
Restricted to threaded coupler with diameter  $\leq 16\text{mm}$  and desired load of  $\leq 120\text{kN}$ . (12 Ton)  
Restricted to threaded coupler with diameter  $\leq 30\text{mm}$  and desired load of  $\leq 300\text{kN}$ . (30 Ton)  
Restricted to threaded coupler with diameter  $\leq 50\text{mm}$  and desired load of  $\leq 600\text{kN}$ . (60 Ton)

1. Engage the pulling rod with the fixing using a threaded coupler (Long Nut).
2. Put the loading frame or hollow cylinder through the pulling rod.  
\*\*Note: Additional plate may be used on the base material if necessary for uneven surface.
3. The hollow ram (Load Cell) is engaged through the pulling rod.
4. Tighten the assembly with the nut on the top of the pulling rod.
5. The hollow ram (Load Cell) is engaged to the hydraulic jack by the hydraulic hose.
6. The fixing to be tested is "jacked" to the desired load (kN) by the hydraulic jack and the reading is off from the dial of the jack.
7. Once the reading has stabilized at the desired tensile load (kN), observe that the reading is held for 1 minute before releasing the Hydraulic Jack.

**CONCEPTUAL SKETCH OF CENTRAL PULL HYDRALIC JACK**



**CONCEPTUAL SKETCH OF CENTRAL PULL HYDRALIC JACK**



**Threaded Coupler / Long Nut**

