

Stressing Sheet

Client:

Project:

Anchor Type:

Anchor No.: _____

Testing Date: _____

Lock-off Date: _____



Unit 6/28 Glenwood Drive
Thornton NSW 2322
Ph: (02) 4028 6391
Fax: (02) 4028 6393

1 Anchor Data

No. strands = 1
UTS (kN) =
SWL (kN) =
Bond length: L_b (m) =
Free length: L_f (m) =
Bearing Plate thick (m) =
Jack length: L_j (m) =

2 Proof Testing

Jack Type =
Gauge Type =

Load		Pressure	Theoretical Elongations (mm)			Time min(hr:min)	Measured Elongation	
			L _j + .9L _f	L _j + L _f	L _j + L _f +0.5L _b		Ram mm	Net mm
%SWL	kN	MPa						
10						n/a		
25						n/a		
50						n/a		
75						n/a		
100						1 ()		
						2 ()		
						3 ()		
						4 ()		
						5 ()		
						6 ()		
						10 ()		
						15 ()		
10						n/a		

3 Lock-off

Load		Pressure	Theoretical Elongations (mm)			Measured Elongation	
			L _j + .9L _f	L _j + L _f	L _j + L _f +0.5L _b	Ram mm	Net mm
%SWL	kN	MPa					
10	0.0	0					
#DIV/0!		0					
10	0.0	0					

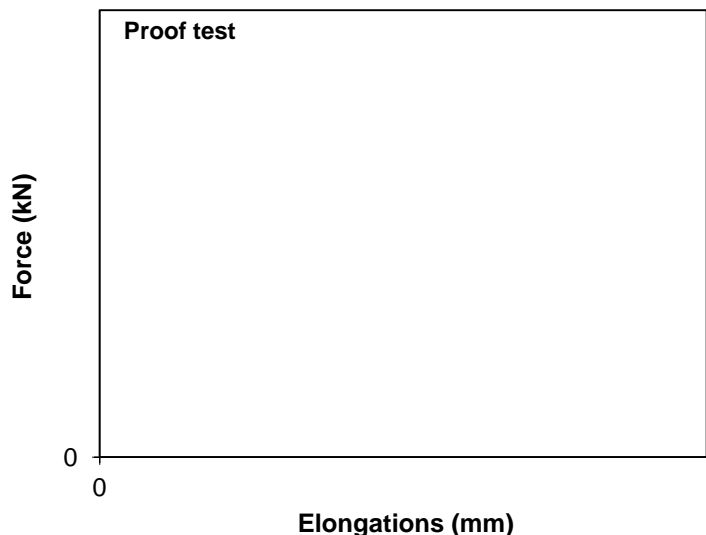
Nut draw-in (mm) =

---◆--- 0.9L_f -◆- L_f —●— L_f+0.5*L_b

4 Lift-off

Measured	
Pressure	Load
MPa	kN

5 Remarks



Point 1: UTS is the ultimate tensile strength of the bar

SWL is the safe working load of the bar

Bond length is what length of the bar that has been grouted

Free length means what percentage of the bar isn't grouted

Jack length is what the full extension of the ram is.

Bearing plate thickness is the plate that is on top of the ram and locked off by a nut.

Point 2: In the chart in section two, starting left to right.

Load is tested in stages 10% through to 100% of the swl of the bar e.g 10% of 350kn is 35kn so that is the first stage of testing and so forth.

Pressure in mpa is the reading that is registered on the gauge at your testing stages in the previous step.

Theoretical Elongations (Leigh I think we should remove)

Time self explanatory

Measured elongation: Ram is the extension of the ram from the main section of the test jack to the bearing plate.

Net is the creep of the jack for the time held, for example 15mm extension at end of time held 13mm. This gives you net.

Point 3: Lock off is what your anchor is tensioned to by your bearing plate and nut. For example 10% of 350kn is 35kn and that is the designated lock off I

Point 4: Lift off is where you plot your elongation to force which is KN's. For instance elongation 10mm at 100kn is where your first plot point will be marked on the gric

Hope this helps, but the best I can explain it without doing practical on testing procedures.



load by the engineer.

1.