

Maj Adnan Khalid ®

Test Performed By: Dr. /Engr. Ubaid A Mughal

Dy Dir MTL.

Ext. Elec System (U/G) C.B.W,

DHA Ph-VIII - (M/S PEL)

Client Reference: 408/241/E/255/11

Dated: 24-07-2018

SOM Lab Ref: CED/SOM/5118(Page-1/2)

Dated: 24-07-2018

Test: Tension Test

Test Specification: ASTM-F -1554

Sample Type: Anchor Bolt (Y-Type Bolt)

Gauge Length: 50 mm

S.No.	Dia.		Area	Yield Load	Ultimate Load	Yield Stress	Ultimate. Stress	Elongation	Gauge Length	%age Elongation	Reduction of Area (%)
	Original Diameter	Tested Diameter									
	mm	mm	mm ²	kN	kN	MPa	MPa	mm	Mm	%	
1	12	12.0	113.1	31.8	49.00	281	433	12.50	50	25.0	64.0
2	12	12.0	113.1	34.4	53.00	304	469	12.50	50	25.0	65.0
3	12	12.0	113.1	37.7	58.20	333	515	12.50	50	25.0	60.9

Note:-

Only Three Samples
Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Maj Adnan Khalid ®

Test Performed By:

Dr. /Engr. M Yousaf

Dy Dir MTL.

Ext. Elec System (U/G) C.B.W,

DHA Ph-VIII - (M/S PEL)

Client Reference: 408/241/E/255/11

Dated: 24-07-2018

SOM Lab Ref: CED/SOM/5118(Page-2/2)

Dated: 24-07-2018

Test: Hardness Test

Sample Type: Nut & Washer

Hardness Test Detail:

Machine used: Avery Rockwell Hardness Testing Machine

Minor Load = 10 Kgf. Major Laod = 90 Kgf. Scale = B

Hardness Test Results

Sample No.	Sample Type	Hardness Value
1	Nut	HR- 89.67 -B
2	Nut	HR- 90.67 -B
3	Nut	HR- 89.16 -B
4	Washer	HR- 29.50 -B
5	Washer	HR- 30.00 -B
6	Washer	HR- 29.83 -B

Note: Please always confirm the results on web www.uet-civil.edu.pk

Civil Engineer
Sadaqat Limited, Faisalabad

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Civil-C-3

Dated: 23-06-2021

Test: Tension Test

Gauge Length: 8 inch

SOM Lab

Ref: 4543(Page-1/1)

Dated: 24-06-2021

Test Specification: ASTM-A-615

Sample Type: Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.598	8	0.986	0.79	0.763	21.56	32.06	60190	62320	89500	92670	1.50	8.0	18.8	
2	1.532	6	0.757	0.44	0.450	13.40	19.22	67190	65700	96320	94170	1.30	8.0	16.3	
3	0.653	4	0.494	0.20	0.192	7.31	8.89	80600	83960	98020	102110	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

--	No Bend test performed	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk