

Engr. Mian Mubashar Rafiq

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

PM Union Developers.(Project: Const.Of UnionLuxury Apartments,Etihad Town Lahore.)

Client Reference: UA/SO/2021/009

SOM Lab

Ref:

5448(Page-1/1)

Dated: 10-12-2021

Dated:

10-12-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Afco Steel)

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	1.482	6	0.745	0.44	0.436	17.02	20.20	85330	86110	101270	102200	0.80	8.0	10.0	
2	1.469	6	0.742	0.44	0.432	16.62	20.25	83290	84830	101530	103410	1.00	8.0	12.5	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

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

Kifayat Hussain Naqvi

Test Performed By: Dr. /Engr. S Asad Ali Gillani

CRE Kachhi Canal Rem.Works Consults-DAY(Earth W,Structure and Lining of Main Canal &Distbtrs)

Client Reference: KCP/CRE/KC-6B(4R)/UET/70

SOM Lab

Ref: 5450(Page-1/1)

Dated: 05-12-2021

Dated: 10-12-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (ITTEFAQ Steel)

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	1.506	6	0.751	0.44	0.443	15.62	20.46	78280	77750	102550	101850	1.00	8.0	12.5	
2	1.504	6	0.750	0.44	0.442	14.34	19.69	71890	71570	98720	98270	1.00	8.0	12.5	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

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

M Sadiq Associates
Construction And Real Estates,Lahore Cantt.(Dreem Galleria)

Test Performed By: Dr. /Engr. Asad Ghalani

Client Reference: Nil

SOM Lab

Ref: 5452(Page-1/1)

Dated: 10-12-2021

Dated: 10-12-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

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	2.618	8	0.990	0.79	0.769	24.54	35.58	68500	70370	99320	102030	1.40	8.0	17.5	
2	1.494	6	0.748	0.44	0.439	16.26	21.07	81500	81680	105610	105850	1.20	8.0	15.0	
3	0.657	4	0.496	0.20	0.193	7.49	8.99	82620	85620	99150	102740	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

Test Performed by: Dr. Asad Gillani

Engr. Zaheer Ud Din Babar,
Dy.General Manager Projects,
Habib Rafiq Engineering (Pvt.)Ltd,Lahore

Client Reference No.: HRLE/SKG/2021/056

Dated: 09-12-2021

SOM Lab Ref: 5449

Dated: 10-12-2021

Test: Tensile Test

Sample Type: M.S Deformed Steel bar with Coupler

Tension Test Results

Sr. No.	Bar Size	Area	Ultimate Load	Ultimate stress	Remarks
	(mm)	(mm ²)	kN	(psi)	
1	25	490.85	254.2	75110	Thread Failure
2	22	380.12	176.0	67154	Coupler breaks at this load

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