

Col (R) Tajamal Hussain Riaz
 RE, Associates Consulting Engineers ACE Limited.

Test Performed By: Dr. /Engr. Dr. Irfan ul Hussan

Client Reference: ACE/RE/CSM/2022/288

SOM Lab Ref: CED/SOM/708

Dated: 01-08-2022

Dated: 02-08-2022

Test: Tension & Bend Test

Test Specification: ASTM-A-615 (Union Steel)

Gauge Length: 8 inch

Sample Type: M S Deformed 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	1.543	6	0.759	0.44	0.453	13.25	18.09	66430	64520	90690	88090	1.60	8.0	20.0	
2	1.537	6	0.759	0.44	0.452	13.35	18.76	66940	65160	94020	91520	1.50	8.0	18.8	
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BEND TEST:

Sr. # 1	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

Manohar Lal

Test Performed By:

Dr. /Engr.

Nauman Khurram

RE Nespak,Lahore(Dualization of Rd From Grw to M-2 Interchange at Kot Sarwar Via Hafizabad)

Client Reference: SA-466F/103/GH/ML/Lab/31

SOM Lab

Ref:

706 (Page-1/1)

Dated: 29-06-2022

Dated:

02-08-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Plain /Deformed

Gauge Length: 8 inch

Sample Type:

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	2.754	8	1.015	0.79	0.809	17.28	25.94	48240	47110	72430	70730	2.00	8.0	25.0	Plain
2	2.734	8	1.011	0.79	0.803	17.20	25.89	48010	47230	72290	71120	2.20	8.0	27.5	Plain
3	0.722	4	0.520	0.20	0.212	7.24	9.14	79810	75290	100830	95120	1.20	8.0	15.0	Deform
4	0.695	4	0.510	0.20	0.204	7.02	9.40	77450	75930	103640	101610	1.10	8.0	13.8	Deform
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BEND TEST:

8 Sample bend through 180 degrees Satisfactorily without any crack

4 Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples
Received and Tested

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

Ghulam Fareed
Lahore.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 707 (Page-1/1)

Dated: 02-08-2022

Dated: 02-08-2022

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	2.687	8	1.003	0.79	0.790	24.57	30.65	68590	68590	85570	85570	1.10	8.0	13.8	
2	1.540	6	0.759	0.44	0.453	16.39	21.20	82160	79800	106280	103230	1.00	8.0	12.5	
3	0.647	4	0.492	0.20	0.190	6.27	8.00	69130	72770	88240	92890	1.00	8.0	12.5	
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BEND TEST:

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

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

Afaq Mahmood, Site Inspector

Test Performed By:

Dr. /Engr.

Nauman Khurram

M/S New Vision Engg Consultant.(Const Of ACCN For College Of Nursing At Kharian Cantt)

Client Reference: NVEC/HO/MES/2022/111

SOM Lab

Ref:

709 (Page-1/1)

Dated: 20-07-2022

Dated:

02-08-2022

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	0.683	4	0.506	0.20	0.201	6.42	9.09	70820	70470	100270	99770	1.00	8.0	12.5	
2	0.676	4	0.503	0.20	0.199	5.83	8.26	64300	64620	91050	91510	1.20	8.0	15.0	
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BEND TEST:

# 4	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