

M/S Sufi Steel
Lahore

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

Client Reference: Nil

SOM Lab

Ref: 1542 (Page-1/1)

Dated: 06-01-2023

Dated: 06-01-2023

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	2.659	8	0.997	0.79	0.781	24.43	34.12	68220	69000	95250	96350	1.30	8.0	16.3	
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BEND TEST:

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

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

Canal44
Luxury Apartments Lahore (Abbas Developers)

Test Performed By: Dr. /Engr. Irfan UI Hassan

Client Reference: Nil

SOM Lab

Ref: 1544 (Page-1/1)

Dated: 06-01-2023

Dated: 06-01-2023

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	2.666	8	0.998	0.79	0.783	26.91	35.98	75130	75800	100460	101360	1.30	8.0	16.3	
2	2.709	8	1.007	0.79	0.796	27.42	36.65	76550	75980	102310	101540	1.20	8.0	15.0	
3	1.512	6	0.752	0.44	0.444	13.76	18.86	68980	68360	94530	93680	1.50	8.0	18.8	
4	1.499	6	0.749	0.44	0.441	14.26	19.13	71480	71320	95910	95690	1.30	8.0	16.3	
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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	

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

Muhammad Aman Ullah,RE

Test Performed By: Dr. /Engr. Irfan UI Hassan

Nespak Lhr.(Bridge at Butcher Khana Distributary Along Chenab Rd Jinnah Sec LDA Housing Scheme)

Client Reference: 4047/13/MA/09/01

SOM Lab

Ref: 1546 (Page-1/1)

Dated: 04-01-2023

Dated: 06-01-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (SJ 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	2.676	8	1.000	0.79	0.786	26.81	34.98	74850	75230	97670	98170	1.50	8.0	18.8	
2	2.667	8	0.999	0.79	0.784	26.61	34.71	74280	74850	96900	97640	1.50	8.0	18.8	
3	1.514	6	0.753	0.44	0.445	14.88	19.13	74600	73760	95910	94830	1.50	8.0	18.8	
4	1.505	6	0.750	0.44	0.442	14.93	19.11	74860	74520	95800	95370	1.50	8.0	18.8	
5	1.056	5	0.628	0.31	0.310	10.50	14.07	74700	74700	100080	100080	1.40	8.0	17.5	
6	1.061	5	0.630	0.31	0.312	10.60	14.24	75420	74940	101310	100660	1.40	8.0	17.5	
7	0.670	4	0.501	0.20	0.197	7.14	9.60	78690	79890	105890	107500	1.00	8.0	12.5	
8	0.674	4	0.502	0.20	0.198	7.19	9.63	79250	80050	106230	107300	1.10	8.0	13.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 5	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

Seref Dover, Country Manager

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

SA-RA Group, (ADB-201-2018(Lot 1)220Kv Double Circuit Transmission Line From D.I Khan To Zhob)

Client Reference: MIG/2023/106

SOM Lab

Ref: 1547 (P-1/1)

Dated: 06-01-20232

Dated: 06-01-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar(AI-Moiz 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	2.654	8	0.997	0.79	0.780	23.65	34.56	66020	66870	96470	97710	1.50	8.0	18.8	
2	2.672	8	1.000	0.79	0.785	25.79	34.32	72000	72460	95820	96430	1.60	8.0	20.0	
3	0.674	4	0.502	0.20	0.198	6.03	8.56	66550	67220	94420	95380	1.60	8.0	20.0	
4	0.674	4	0.502	0.20	0.198	6.29	8.58	69360	70060	94650	95610	1.60	8.0	20.0	
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Witnessed By: Engr. Noman Asghar (J.E NESPAK) & Engr M Rizwan (Assistant Manager (SA-RA Energy))

BEND TEST:

Sr. (1-2)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Eight Samples Received and Tested
Sr. (3-4)	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

Test Performed by: Dr. S. Asad Ali Gillani

Engineer Faiz Ur Rehman
Quality Assurance Specialist-Roads
CDM Smith Int.Peshawar.
(Project:Bridge Girdge Of Jamrud Bypass Road)

Reference No.: USAID/CDM/CL/67
SOM Lab Ref: CED/SOM/1541(Page-1/1)

Dated: 27-12-2022
Dated: 06-01-2023

Test: Tensile Test, Elongation at Break, Tear Test, Hardness Test & Comp. Set Test

Sample Type: Elastomeric Bearing Pad

TENSILE STRENGTH AND ELONGATION TEST. (AS PER ASTM-D-412)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tensile Strength (Mpa)	Tensile Strength (kg/cm ²)	Elongation at Break(%)
1	7.8 x 3.0	0.68	29.05	256.32	380.0
2	6.6 x 3.0	0.65	32.82	334.75	360.0

TEAR STRENGTH (AS PER ASTM-D-624)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	11.8 x 3.0	0.52	173.33
2	11.5 x 3.0	0.47	156.66

- COMPRESSION SET TEST (AS PER ASTM-D-395)

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	3.00	2.64	12.0

- HARDNESS TEST (AS PER ASTM-D-2240)

S. No	Sample Type	Hardness (Shore A)
1	Elastomeric Bearing Pad	61.6

Test Performed by: Dr. Irfan Ul Hassan

Madina Hardware & Co
Lahore.

Client Reference No.: Nil

Dated: 06-01-2023

SOM Lab Ref: CED/SOM/1543

Dated: 06-01-2023

Test: Tensile Test

Sample Type: Threaded Rod- M12

Gauge Length: 8 Inches

Tension Test Results

Sr. No.	Diameter	Area	Yield Load	Ultimate Load	Yield stress	Ultimate stress	Elongation
	(mm)	(mm ²)	KN	KN	(Mpa)	(Mpa)	%
1	12	113	46.5	62.2	411.50	550.40	12.5

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

Test Performed by: .S. Asad Ali Gillani

Engr. Nadeem Mehmood
Civil & Urban Engineers
Lahore

Client Reference No.: Nil

Dated: 05-01-2023

SOM Lab Ref: CED/SOM/1545 (Page 1/1)

Dated: 06-01-2023

Test Type: Tension Test

Sample Type: Aluminum-Zinc Alloy Coated Sheet (t 0.5mm) Specification: ASTM-A 792

Tension Test Results

Sample No.	Sample Size	Area (mm ²)	Yield Load (kN)	Ultimate Load (kN)	Yield Strength (MPa)	Ultimate Strength (MPa)	Elongation (%)
1	14x0.5	7.00	2.82	2.95	402.86	421.43	15.00
2	14x0.5	7.00	2.65	2.81	378.57	401.43	15.00
3	13x0.5	6.50	2.15	2.3	330.77	353.85	10.00
4	14x0.5	7.00	2.55	2.65	364.29	378.57	12.50
5	14x0.5	7.00	2.97	3.17	424.29	452.86	15.00

Witness by Arif Shahzad (Asst. Office Manager Civil & Urban Engrs) and M Tahir Ismail (G.M Banu Mukhtar Steel Pvt Ltd.)

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

