

Test Performed by: .S. Asad Ali Gillani

Riaz Textile Mills Pvt Ltd.
Lahore, Pakistan.

Client Reference No.: Nil

Dated: 12-02-2024

SOM Lab Ref: CED/SOM/3626 (Page 1/1)

Dated: 12-02-2024

Test Type: Tensile Test

Sample Type: Aluminum Pieces

Gauge Length: 2"

Tensile Test Results

Sr. No.	Size of Steel strip (mm)	X Section Area (mm ²)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	Elongation (inch)	% Elongation
1	15.0 x 0.95	14.25	3.20	4.00	224.56	280.70	0.40	20.00
2	14.70 x 1.00	14.70	3.30	4.20	224.49	285.71	0.40	20.00
3	21.1 x 2.90	61.19	9.30	12.20	151.99	199.38	0.50	25.00
4	21.1 x 2.90	61.19	10.20	13.00	166.69	212.45	0.50	25.00

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

Test Performed by: .S. Asad Ali Gillani

Abdul Azeem
General Manager, Polymer Tek,
45-A, S.I.E. #2, Gujranwala-Pakistan.

Client Reference No.: Nil

Dated: 12-02-2024

SOM Lab Ref: CED/SOM/3630 (Page 1/3)

Dated: 12-02-2024

Test Type: Load Test, Loading Area (10" x 10")

Sample Type: FRP Manhole Cover (24" x 24")

Load Test Results

Sr No.	Sample Type	Ultimate Load (kN)
1	FRP Manhole Cover	17.65

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

Test Performed by: .S. Asad Ali Gillani

Abdul Azeem
General Manager, Polymer Tek,
45-A, S.I.E. #2, Gujranwala-Pakistan.

Client Reference No.: Nil

Dated: 12-02-2024

SOM Lab Ref: CED/SOM/3630 (Page 2/3)

Dated: 12-02-2024

Test Type: Load Test, Loading Area (10" x 10")

Sample Type: FRP Manhole Cover (24" x 24")

Load Test Results

Sr No.	Sample Type	Ultimate Load (kN)
1	FRP Manhole Cover	16.67

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

Test Performed by: .S. Asad Ali Gillani

Abdul Azeem
General Manager, Polymer Tek,
45-A, S.I.E. #2, Gujranwala-Pakistan.

Client Reference No.: Nil

Dated: 12-02-2024

SOM Lab Ref: CED/SOM/3630 (Page 3/3)

Dated: 12-02-2024

Test Type: Load Test, Loading Area (10" x 10")

Sample Type: FRP Manhole Cover (24" x 24")

Load Test Results

Sr No.	Sample Type	Ultimate Load (kN)
1	FRP Manhole Cover	14.71

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

Test Performed by: .S. Asad Ali Gillani

AF Steel RE Rolling Mills

Lahore

Project: Tower –Huawei/Ufone

Client Reference No.: AFS/Letter # 020/24

Dated: 12-02-2024

SOM Lab Ref: CED/SOM/3632 (Page 1/3)

Dated: 12-12-2024

Test Type: Tensile Test & Bend Test

Specification: ASTM A-36

Sample Type: M.S Angles, H.T Angles, C-Channel

Gauge Length: 2 inches

Tensile and Bend Test Results

Sr. No.	Size of Steel strip (mm)	X Section Area (mm ²)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	Elongatio _n (inch)	% Elongatio _n
1	25.00x5.00	125.00	44.00	61.00	352.00	488.00	0.60	30.00
2	32.50x5.30	172.25	60.00	91.00	348.33	528.30	0.50	25.00
3	25.40x4.20	106.68	35.70	47.00	334.65	440.57	0.50	25.00
4	32.50x5.20	169.00	62.00	90.70	366.86	536.69	0.60	30.00
5	29.50x5.40	159.30	52.00	86.50	326.43	543.00	0.50	25.00
6	25.60x6.30	161.28	52.00	81.70	322.42	506.57	0.65	32.50
7	Steel Angle (1-1/2"x1-1/2"x3/16") strip sample Bend through 180 degrees satisfactorily without any crack							
8	Steel Angle (1-3/4"x1-3/4"x3/16") strip sample Bend through 180 degrees satisfactorily without any crack							
9	Steel Angle (1-3/4"x1-3/4"x1/8") strip sample Bend through 180 degrees satisfactorily without any crack							
10	Steel Angle (2"x2"x3/16") strip sample Bend through 180 degrees satisfactorily without any crack							
11	Steel Angle (2-1/2"x2-1/2"x3/16") strip sample Bend through 180 degrees satisfactorily without any crack							
12	C-Channel (4"x2") strip sample Bend through 180 degrees satisfactorily without any crack							

Test Performed by: .S. Asad Ali Gillani

AF Steel RE Rolling Mills

Lahore

Project: Solar Structure-SCT/Huawei/Ufone

Client Reference No.: AFS/Letter # 021/24

SOM Lab Ref: CED/SOM/3633 (Page 1/4)

Test Type: Tensile Test & Bend Test

Sample Type: Pipe, Plate, Channel

Dated: 12-02-2024

Dated: 12-12-2024

Specification: ASTM A-36

Gauge Length: 2 inches

Tensile and Bend Test Results

Sr. No.	Size of Steel strip (mm)	X Section Area (mm ²)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	Elongation (inch)	% Elongation
1	20 x 3.00	60.00	18.90	26.50	315.00	441.67	0.60	30.00
2	20 x 3.00	60.00	19.20	26.00	320.00	433.33	0.50	25.00
3	20.5 x 3.10	63.55	21.00	29.00	330.45	456.33	0.50	25.00
4	21.0 x 10.00	210.00	64.70	94.70	308.10	450.95	0.60	30.00
5	24.1 x 4.00	96.40	34.00	48.50	352.70	503.11	0.40	20.00
6	Pipe (OD-1") strip sample Bend through 180 degrees satisfactorily without any crack							
7	Pipe (OD 1-3/4") strip sample Bend through 180 degrees satisfactorily without any crack							
8	Pipe (OD 3") strip sample Bend through 180 degrees satisfactorily without any crack							
9	Plate (10mm) strip sample Bend through 180 degrees satisfactorily without any crack							
10	C-Channel (3"x1-1/2") strip sample Bend through 180 degrees satisfactorily without any crack							

Jaffar Rashid

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

AGM Projects, Izhar Construction (Pvt) Ltd.(Const Of Dolmen Shopping Mall DHA Lahore)

Client Reference: ICPL/CONST-DML/21/458

Dated: 06-02-2024

SOM Lab Ref: CED/SOM/3620(Page-1/2)

Dated: 12-02-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 mm

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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.877	12	11.94	113	112	55.00	74.70	486	492	660	667	30.0	200	15.0	
2	0.883	12	11.97	113	113	56.00	75.20	495	498	665	669	32.5	200	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

12mm	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

Jaffar Rashid

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

AGM Projects, Izhar Construction (Pvt) Ltd.(Const Of Dolmen Shopping Mall DHA Lahore)

Client Reference: ICPL/CONST-DML/21/459

Dated: 06-02-2024

SOM Lab Ref: CED/SOM/3620(Page-2/2)

Dated: 12-02-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 mm

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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.552	16	15.88	201	198	109.50	135.00	545	554	671	682	27.5	200	13.8	
2	1.557	16	15.89	201	198	109.20	135.20	543	551	672	682	32.5	200	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

16mm	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

Waqas Ahmed Ghumman
 High-Q Constructions Lhr.(Const Of High-Q Mall at 3-A Gulberg II Lahore)

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

Client Reference: QC/HQ/CIVIL/182

Dated: 09-02-2024

SOM Lab Ref: CED/SOM/3621(Page-1/1)

Dated: 12-02-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

Gauge Length: 200 mm

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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.503	20	20.15	314	319	173.70	232.50	553	545	740	729	30.0	200	15.0	
2	2.413	20	19.78	314	307	166.70	224.00	531	543	713	729	30.0	200	15.0	
3	0.864	12	11.84	113	110	61.00	76.70	539	555	678	697	35.0	200	17.5	
4	0.883	12	11.97	113	112	63.20	78.20	559	563	691	696	30.0	200	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
12mm	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

M/S CMPAK Limited

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Energy Solution (Pvt) Ltd Lhr.(CMPAK KLP Foundation pad Qaid-e-Azam Industrial Estate Lahore)

Client Reference: CMPAK/NDC/Steel/ESL-TUH-7113

Dated: 12-02-2024

SOM Lab Ref: CED/SOM/3635(Page-1/1)

Dated: 12-02-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

Gauge Length: 200 mm

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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.971	25	25.38	491	506	221.00	332.50	450	437	677	658	32.5	200	16.3	
2	3.976	25	25.39	491	506	234.00	345.70	477	463	704	683	37.5	200	18.8	
3	2.441	20	19.90	314	311	142.20	198.20	453	458	631	638	30.0	200	15.0	
4	2.446	20	19.92	314	312	132.70	197.50	422	426	629	634	32.5	200	16.3	
5	0.908	12	12.13	113	116	64.00	86.50	566	554	765	749	25.0	200	12.5	
6	0.908	12	12.13	113	116	69.20	90.00	612	599	796	779	25.0	200	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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

AF Steel Re Rolling Mills
Lahore.(Project: Solar Structure-SCT/Huawei/Ufone)

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

Client Reference: AFS/Letter # 021/24

SOM Lab

Ref: 3633 (Page-4/4)

Dated: 12-02-2024

Dated: 12-02-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Def.Bar (Anchor Bolt

Gauge Length: 8 inch

Sample Type:

3/4")

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	1.520	6	0.754	0.44	0.447	12.64	18.30	63360	62370	91720	90280	1.60	8.0	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

Muhammad Nadeem Bhatti

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

MP PROJEX Lahore.(TAWAL PAKISTAN) Site IDs: TWPFSD0014,TWPSKT002,TWPTTS004u

Client Reference: PCP/Eng-091

SOM Lab

Ref: 3619 (Page-1/4)

Dated: 31-01-2024

Dated: 12-02-2024

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	2.671	8	1.000	0.79	0.785	23.96	35.17	66880	67300	98180	98810	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

Muhammad Nadeem Bhatti

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

MP PROJEX Lahore.(TAWAL PAKISTAN) Site IDs: TWPFSD0014,TWPSKT002,TWPTTS004u

Client Reference: PCP/Eng-091

SOM Lab

Ref: 3619 (Page-2/4)

Dated: 31-01-2024

Dated: 12-02-2024

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	1.497	6	0.748	0.44	0.440	15.21	20.08	76240	76240	100660	100660	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

Muhammad Nadeem Bhatti

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

MP PROJEX Lahore.(TAWAL PAKISTAN) Site IDs: TWPFSD0014,TWPSKT002,TWPTTS004u

Client Reference: PCP/Eng-091

SOM Lab

Ref: 3619 (Page-3/4)

Dated: 31-01-2024

Dated: 12-02-2024

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	1.034	5	0.622	0.31	0.304	9.43	13.46	67090	68410	95730	97620	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

Muhammad Nadeem Bhatti

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

MP PROJEX Lahore.(TAWAL PAKISTAN) Site IDs: TWPFSD0014,TWPSKT002,TWPTTS004u

Client Reference: PCP/Eng-091

SOM Lab

Ref: 3619 (Page-4/4)

Dated: 31-01-2024

Dated: 12-02-2024

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	0.665	4	0.498	0.20	0.195	6.95	9.48	76660	78630	104540	107220	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

ENVIRO CONSULT

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

RE Lhr,(Enhan Of Pumping Capacity and Impro Of Civil Structures Of Different D/Station Of WASA)

Client Reference: 340-WASA-FDA/16

SOM Lab

Ref: 3622 (Page-1/1)

Dated: 31-01-2024

Dated: 12-02-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Aziz 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	2.661	8	0.998	0.79	0.782	25.50	40.90	71200	71930	114170	115340	1.30	8.0	16.3	
2	2.663	8	0.998	0.79	0.783	25.43	40.77	71000	71640	113830	114850	1.20	8.0	15.0	
3	1.484	6	0.745	0.44	0.436	13.20	20.31	66170	66780	101780	102720	1.40	8.0	17.5	
4	1.483	6	0.745	0.44	0.436	13.20	20.34	66170	66780	101940	102870	1.30	8.0	16.3	
5	0.668	4	0.500	0.20	0.196	6.12	8.92	67450	68820	98360	100370	1.40	8.0	17.5	
6	0.672	4	0.501	0.20	0.197	6.03	8.82	66550	67560	97230	98720	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine 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

ENVIRO CONSULT

Test Performed By: Dr. /Engr. Wasim Abbas

RE ENVIRO CONSULT (SMC-PVT) Ltd,(Rehb and Impro Of Drainage Channel Of Faosalabad City)

Client Reference: ENVIRO/342/2024/06

SOM Lab

Ref: 3623 (Page-1/1)

Dated: 29-01-2024

Dated: 12-02-2024

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	2.631	8	0.992	0.79	0.773	26.15	34.81	73000	74600	97190	99320	1.30	8.0	16.3	
2	2.642	8	0.994	0.79	0.776	26.30	34.86	73420	74750	97330	99080	1.50	8.0	18.8	
3	1.501	6	0.749	0.44	0.441	15.01	19.47	75210	75040	97590	97370	1.30	8.0	16.3	
4	1.502	6	0.749	0.44	0.441	15.09	19.62	75620	75450	98360	98140	1.20	8.0	15.0	
5	1.071	5	0.633	0.31	0.315	10.06	13.71	71580	70450	97540	95990	1.40	8.0	17.5	
6	1.080	5	0.635	0.31	0.317	10.32	13.78	73390	71770	98050	95890	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Allied Bank
 Manager ABL-UMLP-199&200.(Const Of ABL Upper Mall Lahore)

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

Client Reference: ABL-UML-AMC-QAQC-61

SOM Lab

Ref: 3625 (Page-1/1)

Dated: 12-02-2024

Dated: 12-02-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

ASTM-A-615

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	2.607	8	0.988	0.79	0.766	28.77	32.93	80310	82830	91920	94800	1.50	8.0	18.8	Amreli
2	2.614	8	0.989	0.79	0.768	28.46	32.69	79460	81730	91270	93880	1.40	8.0	17.5	Amreli
3	1.641	6	0.783	0.44	0.482	19.44	25.25	97440	88950	126560	115530	1.00	8.0	12.5	Kamran
4	1.643	6	0.784	0.44	0.483	18.81	22.29	94270	85880	111750	101800	1.20	8.0	15.0	Kamran
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Engr. Muhammad Fiaz

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

SDO PESSI Lhr.(Const Of Lift Wall For Bed Lift at Khawaja Farid Social Security Hospital at Multan)

Client Reference: SS.W.W (.)/24/119

SOM Lab

Ref: 3627 (Page-1/1)

Dated: 06-02-2024

Dated: 12-02-2024

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	0.662	4	0.498	0.20	0.195	5.73	8.82	63180	64800	97230	99730	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 4	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

Muhammad Rafique

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

General Manager NETRACON Tech.Lahore (Design Supply and Installation Of 220kV D/C T/B OHTL)

Client Reference: NTT-HO/ADB301C-R/SI-014

SOM Lab

Ref: 3628 (Page-1/1)

Dated: 06-02-2024

Dated: 12-02-2024

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	0.672	4	0.501	0.20	0.197	6.75	8.92	74420	75550	98360	99860	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: Sohaib Ali (NESPAK)

BEND TEST:

# 4	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

Mirza Muhammad Shahzad
RE NESPAK Lhr.(Const Of 4-Lane Bridge Ravi River,Lahore)

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

Client Reference: 4537/03/MSA/09/193

SOM Lab

Ref: 3629 (Page-1/2)

Dated: 06-02-2024

Dated: 12-02-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Alpha 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	2.667	8	0.999	0.79	0.784	23.87	37.38	66650	67160	104360	105150	1.50	8.0	18.8	
2	2.673	8	1.000	0.79	0.786	23.87	37.31	66650	66990	104160	104690	1.60	8.0	20.0	
3	1.064	5	0.631	0.31	0.313	9.28	14.17	66000	65360	100810	99840	1.40	8.0	17.5	
4	1.062	5	0.630	0.31	0.312	9.30	14.19	66140	65720	100950	100300	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Mirza Muhammad Shahzad
 RE NESPAK Lhr.(Const Of 4-Lane Bridge Ravi River,Lahore)

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

Client Reference: 4537/03/MSA/09/194

SOM Lab

Ref: 3629 (Page-2/2)

Dated: 06-02-2024

Dated: 12-02-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Aziz Steel)

ASTM-A-615

Deformed Bar (Aziz 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	1.517	6	0.754	0.44	0.446	12.92	20.03	64740	63870	100400	99050	1.50	8.0	18.8	H NO 139
2	1.559	6	0.764	0.44	0.458	13.00	19.95	65150	62590	99990	96060	1.50	8.0	18.8	H No 649
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four 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

Sub Divisional officer,

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

BSD No.17,GOR-I Lhr.(Const Of Balance Work Punjab Small Industries Corporation House,Lahore)

Client Reference: SDO/986

SOM Lab

Ref: 3631 (Page-1/1)

Dated: 10-02-2024

Dated: 12-02-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

ASTM-A-615

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	1.493	6	0.748	0.44	0.439	14.90	19.69	74700	74870	98720	98940	1.00	8.0	12.5	
2	1.493	6	0.748	0.44	0.439	14.53	19.85	72810	72980	99480	99710	1.30	8.0	16.3	
3	0.687	4	0.507	0.20	0.202	7.44	9.02	82060	81250	99480	98500	1.00	8.0	12.5	
4	0.672	4	0.501	0.20	0.197	6.37	8.51	70260	71330	93860	95290	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

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

Engineer Muhammad Irshad
Dy Dir Dev. DHA Gujranwala.(Const Of Northern Gate)

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

Client Reference: 111/3/AD/Dev/Makhdoomi/127

SOM Lab

Ref: 3634 (Page-1/1)

Dated: 26-01-2024

Dated: 12-02-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

ASTM-A-615

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	2.648	8	0.995	0.79	0.778	29.77	36.85	83100	84380	102880	104460	1.50	8.0	18.8	
2	2.678	8	1.001	0.79	0.787	27.42	34.66	76550	76850	96760	97130	1.50	8.0	18.8	
3	1.511	6	0.752	0.44	0.444	15.16	19.22	75980	75300	96320	95450	1.40	8.0	17.5	
4	1.566	6	0.765	0.44	0.460	17.58	21.61	88140	84310	108320	103610	1.30	8.0	16.3	
5	0.668	4	0.500	0.20	0.196	7.10	8.84	78350	79950	97460	99450	1.30	8.0	16.3	
6	0.668	4	0.500	0.20	0.196	7.00	8.66	77230	78800	95550	97500	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine 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

Park View Enclave (Pvt) Ltd.
Park View City Malot Islamabad.

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

Client Reference: Nil

SOM Lab

Ref: 3637 (Page-1/1)

Dated: 06-02-2024

Dated: 12-02-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Aziz 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	23.87	38.60	66650	67510	107770	109150	1.30	8.0	16.3	
2	1.504	6	0.750	0.44	0.442	12.86	19.95	64480	64190	99990	99540	1.50	8.0	18.8	
3	0.670	4	0.501	0.20	0.197	6.19	9.14	68230	69270	100830	102370	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Engr. Muhammad Ashraf Bhatti

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

CM Barqaab Consult.Services (Pvt) Ltd.(500/220/132kV Nokhar S/Station,ADB Loan No.3677-Pak)

Client Reference: 500KV/SS/N-LHR/BQB/210

SOM Lab

Ref: 3639 (Page-1/1)

Dated: 11-02-2024

Dated: 12-02-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (FF 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	2.580	8	0.982	0.79	0.758	26.01	35.34	72630	75690	98660	102830	1.40	8.0	17.5	
2	2.624	8	0.991	0.79	0.771	26.12	35.37	72910	74710	98750	101180	1.50	8.0	18.8	
3	1.515	6	0.753	0.44	0.445	14.09	19.18	70620	69820	96160	95080	1.30	8.0	16.3	
4	1.475	6	0.743	0.44	0.433	13.88	18.57	69590	70720	93100	94600	1.40	8.0	17.5	
5	1.478	6	0.743	0.44	0.434	14.48	19.18	72560	73560	96160	97490	1.30	8.0	16.3	
6	1.043	5	0.625	0.31	0.307	10.11	13.78	71940	72650	98050	99010	1.30	8.0	16.3	
7	1.037	5	0.623	0.31	0.305	10.01	13.68	71220	72390	97330	98920	1.40	8.0	17.5	
8	0.662	4	0.498	0.20	0.195	6.54	8.56	72170	74020	94420	96850	1.30	8.0	16.3	
9	0.663	4	0.498	0.20	0.195	6.52	8.53	71940	73790	94090	96500	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: M. Farhan (Barqaab),Mamnoon (NTDC)

BEND TEST:

Sr.# (1)	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Sixteen Samples Received and Tested</p>
Sr.# (3-5)	Sample bend through 180 degrees Satisfactorily without any crack	
Sr.# (6)	Sample bend through 180 degrees Satisfactorily without any crack	
Sr.# (8)	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

Manohar Lal

Test Performed By: Dr. /Engr. Wasim Abbas

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

Client Reference: SA-466F/103/GH/ML/Lab/90

SOM Lab

Ref: 3646 (Page-1/1)

Dated: 30-01-2024

Dated: 12-02-2024

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	2.670	8	1.000	0.79	0.785	24.72	33.79	69010	69450	94340	94940	1.50	8.0	18.8	
2	2.672	8	1.000	0.79	0.785	25.20	33.51	70350	70800	93540	94140	1.50	8.0	18.8	
3	1.502	6	0.749	0.44	0.441	15.97	20.15	80070	79890	101020	100790	1.10	8.0	13.8	
4	1.499	6	0.749	0.44	0.441	15.41	19.13	77260	77080	95910	95690	1.30	8.0	16.3	
5	0.996	5	0.611	0.31	0.293	10.93	13.20	77750	82260	93920	99370	1.10	8.0	13.8	
6	0.999	5	0.612	0.31	0.294	10.98	13.32	78110	82360	94790	99950	1.10	8.0	13.8	
7	0.672	4	0.501	0.20	0.197	7.75	10.04	85430	86730	110720	112410	1.30	8.0	16.3	
8	0.682	4	0.505	0.20	0.200	7.49	9.63	82620	82620	106230	106230	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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