Test Performed by: S. Asad Ali Gillani

Khalid Pervaiz
Moaz Steel Lahore.
(JV-CGGC-Mohmand Hydro Power Project)

Client Reference No.: MZ/JV-CGGC/UET/454 Dated: 26-09-2024

SOM Lab Ref: CED/SOM/4871 (Page 1/1) Dated: 26-09-2024

Test Type: Tensile Test & Thickness Test **Specification:** ASTM A-36

Sample Type: Steel Plate (10mm) **Gauge Length:** 2 inches

Tensile Test Results

Sr. No.	Size of strip (mm)	X Section Area (mm^2)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	Elongation (inch)	% Elongation
1	21.6 x 10.0	216.0	69.2	93.7	320.37	433.79	0.60	30.00

Thickness Test Results

Sr. No.	Sample Type	Thickness (mm)
1	Steel Plate (10mm)	10.0

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

Test Performed by: Dr. S. Asad Ali Gillani

Fazeel Mehmood
Resident Engineer (NESPAK) DHA-AWT LAND ADYALA,
Rawalpindi.
(Development of DHA-AWT-LAND ADYALA)

Reference No.: 4592/103/DHA-AWT/FM/102/57 Dated: 25-09-2024
SOM Lab Ref: CED/SOM/4872(Page-1/2) Dated: 26-09-2024

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

Sample Type: Expansion Joint (Elastomer Seal) Brand : GENDEX

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

S. No	**Sample Size (mm)**	**Ultimate Load (kN)**	**Tensile Strength (Mpa)**	**Elongation at Break**(%)
1	7.3 x 3.4	0.48	19.34	480.0
2	7.0 x 3.4	0.42	17.65	480.0

TEAR STRENGTH (AS PER ASTM-D-624)

S. No	**Sample Size (mm)**	**Ultimate Load (kN)**	**Tear Strength (N/mm)**
1	6.5 x 3.4	0.30	88.0
2	6.5 x 3.4	0.27	79.41

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

S. No.	**Thickness of Sample (mm)**	**Final Thickness (mm)**	**Compression set (%)**
1	3.00	2.87	4.33

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

S. No	**Sample Type**	**Hardness $_{avg}$ (Shore A)**
1	Elastomer Seal	46.0

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

Test Performed by: Dr. S. Asad Ali Gillani

Fazeel Mehmood
Resident Engineer (NESPAK) DHA-AWT LAND ADYALA,
Rawalpindi.
(Development of DHA-AWT-LAND ADYALA)

Reference No.: 4592/103/DHA-AWT/FM/102/57 Dated: 25-09-2024
SOM Lab Ref: CED/SOM/4872(Page-2/2) Dated: 26-09-2024

Sample Type: Aluminum Alloy (Expansion Joint) **Gauge Length:** 2 inches

Tensile Test Results

Sr. No.	**Size of strip (mm)**	**X Section Area (mm^2)**	**Yield Load (kN)**	**Ultimate Load (kN)**	**Yield Stress (MPa)**	**Ultimate Tensile Stress (MPa)**	**Elongation (inch)**	**% Elongation**
1	17.30 x 19.25	333.03	81.0	106.7	243.22	320.40	0.30	15.00

2	16.30 x 19.60	319.48	79.0	103.20	247.28	323.02	0.30	15.00

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine
(Minor Load: 10 Kgf Major Load: 50.0 kgf Scale: A)

Hardness Test Results

Sr #	Sample Type	Hardness Avg
1	Aluminum Alloy (Expansion Joint)	HR –41.0 – A

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

CM Engineering (Pvt) Ltd
Lahore.(Project Tawal Site ID: ATTNK01)

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

Client Reference: Steel/Tawal/340
Dated: 20-09-2024

SOM Lab Ref: 4875 (P-1/3)
Dated: 26-09-2024

Test: Tension Test
Guage Length: 200 mm

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)				
	kg/m	mm	mm	mm^2	mm^2	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.624	16	16.24	201	207	102.70	135.50	511	497	674	655	32.5	200	16.3	
2	0.974	16	12.57	201	124	71.20	88.00	354	574	438	710	25.0	200	12.5	
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BEND TEST:

--	No Bend test performed

Note:-

Only Two Samples Received and Tested

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

CM Engineering (Pvt) Ltd **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
Lahore.(Project Tawal Site ID: TWPLHR0195,TWPJLM0002,TWPJLM0003)

Client Reference: Steel/Tawal/341 **SOM Lab Ref:** 4875 (P-2/3)
Dated: 20-09-2024 **Dated:** 26-09-2024
Test: Tension Test **Test Specification:** ASTM-A-615
Guage Length: 200 mm **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)				
	kg/m	mm	mm	mm^2	mm^2	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.265	20	19.18	314	289	176.00	208.00	561	609	662	720	27.5	200	13.8	
2	1.624	16	16.23	201	207	101.50	134.70	505	491	670	651	32.5	200	16.3	
3	0.974	12	12.57	113	124	81.70	91.20	723	659	807	736	25.0	200	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

CM Engineering (Pvt) Ltd
Lahore.(Project E.Co Site ID: MULTAN3189)

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

Client Reference: Steel/E.CO/342
Dated: 20-09-2024

SOM Lab Ref: 4875 (P-3/3)
Dated: 26-09-2024

Test: Tension Test
Guage Length: 200 mm

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)				
	kg/m	mm	mm	mm^2	mm^2	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.208	20	18.92	314	281	154.00	195.70	490	549	623	697	27.5	200	13.8	
2	0.984	12	12.63	113	125	77.50	94.20	686	619	834	752	25.0	200	12.5	
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BEND TEST:

--	No Bend test performed

Note:-

Only Two Samples Received and Tested

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

Ijaz Ahmad, SE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Lucky Core Industries.(Const Of Veterinary Pharmaceutical Building at 30KM Lahore Sheikhupora)

Client Reference: Nil **SOM Lab Ref:** 4878-79 (P-1/1)

Dated: 26-09-2024 **Dated:** 26-09-2024

Test: Tension Test **Test Specification:** ASTM-A-615

Guage Length: 200 mm **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)				
	kg/m	mm	mm	mm^2	mm^2	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.230	19	19.02	284	284	167.20	203.20	589	589	715	716	30.0	200	15.0	
2	2.188	19	18.84	284	279	151.70	188.20	534	545	663	676	30.0	200	15.0	
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BEND TEST:

19mm	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

Allied Bank **Test Performed By:** **Dr. /Engr.** Yousaf

Unit Head PMO ABL-UML-P#199-200.(Const Of ABL Upper Mall Lahore Plot No 199,200)

Client Reference: ABL-UML-AMC-QAQC-90 **SOM Lab Ref:** 4864 (Page-1/1)

Dated: 26-09-2024 **Dated:** 26-09-2024

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	2.616	8	0.990	0.79	0.769	26.76	35.65	74700	76740	99520	102240	1.20	8.0	15.0	
2	2.608	8	0.988	0.79	0.766	26.50	35.27	73990	76310	98470	101550	1.30	8.0	16.3	
3	1.460	6	0.739	0.44	0.429	13.68	18.35	68570	70330	91970	94330	1.50	8.0	18.8	
4	1.470	6	0.742	0.44	0.432	13.99	18.78	70100	71400	94120	95860	1.30	8.0	16.3	
5	1.055	5	0.628	0.31	0.310	10.57	13.99	75210	75210	99500	99500	1.10	8.0	13.8	
6	1.051	5	0.627	0.31	0.309	10.50	14.04	74700	74940	99860	100190	1.30	8.0	16.3	
7	0.697	4	0.511	0.20	0.205	6.42	8.51	70820	69090	93860	91570	1.30	8.0	16.3	
8	0.661	4	0.497	0.20	0.194	6.44	8.28	71040	73240	91280	94100	1.10	8.0	13.8	
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BEND TEST:

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

Only Twelve Samples Received and Tested

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

Resident Engineer **Test Performed By:** **Dr. /Engr.** Yousaf

Al-Imam Enterprises.(Const Of Zonal Office Building of Bank Al Habib Ltd.Main Boulevard Gulberg,Lhr)

SOM Lab Ref: 4865 (Page-1/1)

Client Reference: Alm/BAHL/0926/2609

Dated: 26-09-2024

Dated: 26-09-2024

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Ittehad 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	2.616	8	0.990	0.79	0.769	27.37	34.40	76410	78500	96050	98670	1.10	8.0	13.8	
2	2.615	8	0.989	0.79	0.768	27.32	34.37	76270	78450	95960	98710	1.20	8.0	15.0	
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BEND TEST:

# 8	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. Armughan Khan, DY. Dir **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
WASA,LDA,Lhr.(PCC/Drainage Scheme/Sewerage Scheme UC-270, Arayan Mor Kahna Nepal)

Client Reference: QCD/1952-53 **SOM Lab Ref:** 4866 (Page-1/1)
Dated: 24-09-2024 **Dated:** 26-09-2024

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	0.673	4	0.502	0.20	0.198	6.24	7.85	68800	69490	86560	87430	1.30	8.0	16.3	
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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

Abdul Wali Khan, Coordinator **Test Performed By:** **Dr. /Engr.** Yousaf
Aga Khan Agency for Habitat (AKAH), Agha Khan Estate Office, JKD Project in GBC

Client Reference: Nil **SOM Lab Ref:** 4867 (Page-1/1)
Dated: 26-09-2024 **Dated:** 26-09-2024

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	2.651	8	0.996	0.79	0.779	30.91	38.02	86290	87500	106150	107650	0.90	8.0	11.3	
2	2.658	8	0.997	0.79	0.781	32.87	39.16	91780	92840	109340	110600	0.90	8.0	11.3	
3	1.544	6	0.760	0.44	0.454	19.95	20.54	99990	96910	102960	99780	0.80	8.0	10.0	
4	1.533	6	0.758	0.44	0.451	16.43	20.92	82370	80360	104850	102290	1.20	8.0	15.0	
5	1.057	5	0.629	0.31	0.311	12.49	15.41	88840	88560	109650	109300	0.70	8.0	8.8	
6	1.051	5	0.627	0.31	0.309	11.54	14.65	82100	82360	104210	104550	1.20	8.0	15.0	
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Witnessed By: Abdul Wali Khan (Coordinator, QC)

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 5	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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

Abdul Wali Khan, Coordinator **Test Performed By:** **Dr. /Engr.** Yousaf
Aga Khan Agency for Habitat (AKAH), Agha Khan Estate Office, JKD Project in GBC

Client Reference: Nil
Dated: 26-09-2024

SOM Lab Ref: 4868 (Page-1/1)
Dated: 26-09-2024

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	1.039	5	0.623	0.31	0.305	10.24	12.97	72890	74080	92250	93760	1.00	8.0	12.5	
2	1.042	5	0.624	0.31	0.306	10.32	12.97	73390	74350	92250	93460	1.30	8.0	16.3	
3	0.668	4	0.500	0.20	0.196	5.83	8.74	64300	65610	96340	98300	1.10	8.0	13.8	
4	0.671	4	0.501	0.20	0.197	5.88	8.84	64860	65850	97460	98940	1.20	8.0	15.0	
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Witnessed By: Abdul Wali Khan (Coordinator, QC)

BEND TEST:

# 5	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

Engr. Muhammad Kashif Saeed **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
Planning and Co-Engr Muhammad Ramzan Construction.(Bopet Film Line "Novatex" Sheikhpura)

Client Reference: MRC/P51-Steel-04 **SOM Lab Ref:** 4869(Page-1/1)
Dated: 23-09-2024 **Dated:** 26-09-2024

Test: Tension 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	2.563	8	0.979	0.79	0.753	22.94	31.91	64030	67180	89070	93450	1.50	8.0	18.8	
2	2.572	8	0.981	0.79	0.756	23.06	31.88	64370	67270	88990	92990	1.60	8.0	20.0	
3	1.652	6	0.786	0.44	0.485	15.57	20.44	78020	70790	102450	92940	1.30	8.0	16.3	
4	1.649	6	0.786	0.44	0.485	15.67	20.49	78530	71250	102700	93170	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	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

Muhammad Junaid Gulam
Lahore

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

Client Reference: Nil
Dated: Nil

SOM Lab Ref: 4870(Page-1/1)
Dated: 26-09-2024

Test: Tension Test & Bend Test
Gauge Length: 8 inch

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	0.766	4	0.535	0.20	0.225	7.00	8.48	77230	68650	93530	83130	1.00	8.0	12.5	
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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

M. Yasir Kiani, RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

JCP Wahga NESPAK. (Expension Of Joint Check Post Wahga, Lahore)

Client Reference: 4749/031/YK/01/62 **SOM Lab Ref:** 4873 (Page-1/1)

Dated: 23-09-2024 **Dated:** 26-09-2024

Test: Tension 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	2.615	8	0.989	0.79	0.768	24.67	35.22	68870	70840	98320	101140	1.40	8.0	17.5	Markhor
2	2.628	8	0.991	0.79	0.772	24.79	35.29	69210	70830	98520	100820	1.50	8.0	18.8	Markhor
3	2.650	8	0.996	0.79	0.779	22.38	35.88	62470	63350	100170	101590	1.50	8.0	18.8	Aziz
4	2.671	8	1.000	0.79	0.785	24.67	39.45	68870	69310	110130	110830	1.50	8.0	18.8	Aziz
5	1.485	6	0.745	0.44	0.436	12.25	19.29	61420	61980	96670	97560	1.40	8.0	17.5	Aziz
6	1.500	6	0.749	0.44	0.441	12.46	19.67	62440	62300	98610	98390	1.30	8.0	16.3	Aziz
7	0.667	4	0.500	0.20	0.196	5.42	8.18	59800	61020	90150	91990	1.40	8.0	17.5	Aziz
8	0.672	4	0.501	0.20	0.197	5.45	8.28	60140	61060	91280	92670	1.20	8.0	15.0	Aziz
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Witnessed By: Faisal Saddiq (NESPAK)

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Twelve Samples Received and Tested

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

Muhammad Naeem khan,AEE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Evacuee Trust Property Board GOP.(Consrv/Preservation of Existing Agarwal Ashram Building)

Client Reference: 6211 **SOM Lab Ref:** 4874 (Page-1/1)

Dated: 26-09-2024 **Dated:** 26-09-2024

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	1.491	6	0.747	0.44	0.438	13.99	19.44	70100	70420	97440	97880	1.40	8.0	17.5	
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BEND TEST:

# 6	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

Sheikh Maqbool, RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
NESPAK Lahore.(Renovation of Gaddafi Stadium Lahore Project)

Client Reference: RE/GSRP/4521/04/MH/16 **SOM Lab Ref:** 4876(Page-1/1)
Dated: 26-09-2024 **Dated:** 26-09-2024

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615
Gauge Length: 8 inch **Sample Type:** Deformed Bar (Mughal 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	2.557	8	0.978	0.79	0.751	24.84	32.52	69350	72960	90780	95500	1.50	8.0	18.8	
2	2.552	8	0.977	0.79	0.750	25.38	32.62	70860	74640	91070	95920	1.50	8.0	18.8	
3	0.671	4	0.501	0.20	0.197	6.68	8.61	73630	74750	94990	96430	1.40	8.0	17.5	
4	0.664	4	0.498	0.20	0.195	6.47	8.56	71380	73210	94420	96850	1.20	8.0	15.0	
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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

Farrukh Jamal **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

PM UNICON Consulting Services.(Const of Ban of Punjab Building at C-Block,Model Town Lahore)

Client Reference: Nil

Dated: 24-09-2024

SOM Lab Ref: 4877(Page-1/1)

Dated: 26-09-2024

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	2.684	8	1.002	0.79	0.789	25.50	34.10	71200	71290	95190	95310	1.50	8.0	18.8	
2	2.672	8	1.000	0.79	0.785	25.45	34.02	71060	71510	94970	95570	1.30	8.0	16.3	
3	1.499	6	0.749	0.44	0.441	13.93	18.96	69850	69690	95040	94820	1.60	8.0	20.0	
4	1.501	6	0.749	0.44	0.441	13.83	18.91	69340	69180	94780	94570	1.50	8.0	18.8	
5	0.674	4	0.502	0.20	0.198	6.22	8.18	68570	69260	90150	91060	1.30	8.0	16.3	
6	0.671	4	0.501	0.20	0.197	6.24	8.21	68800	69840	90490	91870	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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

Ijaz Ahmad, SE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Lucky Core Industries.(Const Of Veterinary Pharmaceutical Building at 30KM Lahore Sheikhupora)

Client Reference: Nil **SOM Lab Ref:** 4878 (Page-1/1)

Dated: 26-09-2024 **Dated:** 26-09-2024

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	2.642	8	0.994	0.79	0.776	28.71	37.48	80140	81590	104640	106530	1.50	8.0	18.8	
2	2.657	8	0.997	0.79	0.781	32.93	39.37	91920	92980	109910	111170	1.40	8.0	17.5	
3	1.492	6	0.747	0.44	0.438	16.92	20.34	84820	85210	101940	102400	1.30	8.0	16.3	
4	1.487	6	0.746	0.44	0.437	15.26	19.06	76490	77020	95550	96200	1.10	8.0	13.8	
5	1.053	5	0.627	0.31	0.309	11.79	14.58	83910	84180	103710	104040	1.30	8.0	16.3	
6	1.123	5	0.648	0.31	0.330	12.51	15.16	88990	83590	107840	101310	1.30	8.0	16.3	
7	0.584	4	0.468	0.20	0.172	6.47	8.18	71380	83000	90150	104830	1.00	8.0	12.5	
8	0.584	4	0.468	0.20	0.172	6.68	7.95	73630	85620	87680	101950	1.00	8.0	12.5	
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BEND TEST:

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

Only Three Samples Received and Tested

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

Atique Ahmad, ER
NESPAK Lahore.(Rehb of Mahmood Booti Dumpsite)

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

Client Reference: 4490/13/CAA/05/223
Dated: 23-09-2024

SOM Lab Ref: 4880(Page-1/1)
Dated: 26-09-2024

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Mughal 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	2.642	8	0.994	0.79	0.776	23.62	34.00	65940	67130	94910	96620	1.60	8.0	20.0	
2	2.607	8	0.988	0.79	0.766	24.21	34.68	67590	69710	96820	99850	1.40	8.0	17.5	
3	0.656	4	0.496	0.20	0.193	6.44	8.48	71040	73620	93530	96920	1.10	8.0	13.8	
4	0.662	4	0.498	0.20	0.195	6.44	8.23	71040	72870	90720	93040	1.20	8.0	15.0	
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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