Test Performed by: .S. Asad Ali Gillani

AREW
Fabrication & Construction (Pvt.) Ltd.
Lahore, Pakistan.

Client Reference No.: Nil Dated: 26-01-2024

SOM Lab Ref: CED/SOM/3582 (Page 1/1) Dated: 29-01-2024

Test Type: Tensile Test

Sample Type: Aluminum Extrusion Profile (ML-H-Type Rail) 40mmx29mm **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	15.9 x 1.6	25.44	4.50	5.50	176.89	216.19	0.20	10.00
2	15.2 x 1.6	24.32	4.60	5.70	189.14	234.38	0.20	10.00

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

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

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

Client Reference: QC/HQ/CIVIL/179 **Dated:** 29-01-2024

SOM Lab Ref: CED/SOM/3580(Page-1/1) **Dated:** 29-01-2024

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	2.470	20	20.03	314	315	153.20	210.00	488	487	668	667	30.0	200	15.0	
2	2.439	20	19.89	314	311	152.70	207.50	486	492	660	668	27.5	200	13.8	
3	1.635	16	16.28	201	208	100.00	137.70	497	481	685	662	25.0	200	12.5	
4	1.632	16	16.27	201	208	94.00	130.70	468	453	650	629	30.0	200	15.0	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	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

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

Assistant Store Keeper M/S Amanah Noor Residence Wapda Town, Lahore.

Client Reference: Nil **SOM Lab Ref:** 3576 (Page-1/1)

Dated: 29-01-2024 **Dated:** 29-01-2024

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	2.609	8	0.988	0.79	0.767	26.91	34.56	75130	77380	96470	99370	1.40	8.0	17.5	
2	1.506	6	0.751	0.44	0.443	16.28	20.59	81600	81050	103210	102510	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

Note:-

Only Four Samples Received and Tested

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

M.Waqas Anwar,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak Lahore.(Dev Of a Controlled Access Corridor Facility From Niazi Interchange to Babu Sabu)

SOM Lab

Client Reference: 3772/103/NBI(P-II)/MWA/04/200 **Ref:** 3577 (Page-1/2)

Dated: 09-01-2024 **Dated:** 29-01-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (AK Supreme)

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	1.027	5	0.620	0.31	0.302	9.07	14.27	64550	66260	101530	104220	1.30	8.0	16.3	
2	1.035	5	0.622	0.31	0.304	9.09	14.34	64690	65970	102040	104050	1.20	8.0	15.0	
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BEND TEST:

# 5	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.Waqas Anwar,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak Lahore.(Dev Of a Controlled Access Corridor Facility From Niazi Interchange to Babu Sabu)

Client Reference: 3772/103/NBI(P-II)/MWA/04/198 **SOM Lab Ref:** 3577 (Page-2/2)

Dated: 09-01-2024 **Dated:** 29-01-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (AK Supreme)

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	0.664	4	0.498	0.20	0.195	6.39	10.06	70480	72290	110950	113790	1.10	8.0	13.8	
2	0.663	4	0.498	0.20	0.195	6.32	10.06	69700	71480	110950	113790	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

M.Waqas Anwar,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak Lahore.(Dev Of a Controlled Access Corridor Facility From Niazi Interchange to Babu Sabu)

Client Reference: 3772/103/NBI(P-I)/MWA/04/153 **SOM Lab Ref:** 3578 (Page-1/5)

Dated: 13-01-2024 **Dated:** 29-01-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Batala Premium)

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	0.668	4	0.500	0.20	0.196	6.63	9.40	73070	74560	103640	105760	1.10	8.0	13.8	
2	0.666	4	0.500	0.20	0.196	6.73	9.50	74190	75710	104770	106900	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

M.Waqas Anwar,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak Lahore.(Dev Of a Controlled Access Corridor Facility From Niazi Interchange to Babu Sabu)

Client Reference: 3772/103/NBI(P-I)/MWA/04/163 **SOM Lab Ref:** 3578 (Page-2/5)

Dated: 16-01-2024 **Dated:** 29-01-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Markhor 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	0.666	4	0.500	0.20	0.196	5.42	7.29	59800	61020	80370	82010	1.10	8.0	13.8	
2	0.663	4	0.498	0.20	0.195	5.47	7.34	60370	61910	80940	83010	1.30	8.0	16.3	
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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

M.Waqas Anwar,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak Lahore.(Dev Of a Controlled Access Corridor Facility From Niazi Interchange to Babu Sabu)

Client Reference: 3772/103/NBI(P-I)/MWA/04/154 **SOM Lab Ref:** 3578 (Page-3/5)

Dated: 13-01-2024 **Dated:** 29-01-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Batala Premium)

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	1.053	5	0.627	0.31	0.309	11.79	15.04	83910	84180	106970	107320	1.10	8.0	13.8	
2	1.054	5	0.628	0.31	0.310	11.90	14.88	84630	84630	105880	105880	1.30	8.0	16.3	
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BEND TEST:

# 5	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.Waqas Anwar,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak Lahore.(Dev Of a Controlled Access Corridor Facility From Niazi Interchange to Babu Sabu)

Client Reference: 3772/103/NBI(P-I)/MWA/04/155 **SOM Lab Ref:** 3578 (Page-4/5)

Dated: 13-01-2024 **Dated:** 29-01-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Batala Premium)

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	1.477	6	0.743	0.44	0.434	15.06	19.64	75470	76510	98460	99820	1.20	8.0	15.0	
2	1.465	6	0.741	0.44	0.431	14.70	19.11	73680	75220	95800	97800	1.30	8.0	16.3	
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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.Waqas Anwar,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak Lahore.(Dev Of a Controlled Access Corridor Facility From Niazi Interchange to Babu Sabu)

Client Reference: 3772/103/NBI(P-I)/MWA/04/164 **SOM Lab Ref:** 3578 (Page-5/5)

Dated: 16-01-2024 **Dated:** 29-01-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Markhor 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	2.683	8	1.002	0.79	0.788	24.93	37.92	69610	69790	105860	106130	1.10	8.0	13.8	
2	2.696	8	1.004	0.79	0.792	25.59	38.25	71430	71250	106780	106510	1.30	8.0	16.3	
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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

Sub Divisional officer, **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

BSD No.15,Lhr.(Addition/Alteration To Distt Courts Lahore)(Const Of O.H.R)

Client Reference: 91 **SOM Lab Ref:** 3579 (Page-1/1)

Dated: 24-01-2024 **Dated:** 29-01-2024

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	1.474	6	0.743	0.44	0.433	14.50	19.06	72660	73830	95550	97090	1.30	8.0	16.3	
2	1.481	6	0.744	0.44	0.435	15.01	19.37	75210	76080	97080	98200	1.20	8.0	15.0	
3	0.665	4	0.498	0.20	0.195	6.52	8.33	71940	73790	91840	94190	1.20	8.0	15.0	
4	0.663	4	0.498	0.20	0.195	6.34	8.36	69920	71710	92180	94540	1.30	8.0	16.3	
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BEND TEST:

# 6	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.Zahid Aziz,ME **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak QABP,SKP.(Infrastructure Devl.Of Quaid-E-Azam Business Park On Motorway M-2)

Client Reference: 4163/11/ZA/01/01 **SOM Lab Ref:** 3583 (Page-1/1)

Dated: 25-01-2024 **Dated:** 29-01-2024

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	0.666	4	0.500	0.20	0.196	6.34	8.12	69920	71350	89590	91420	1.00	8.0	12.5	
2	0.666	4	0.500	0.20	0.196	6.34	8.00	69920	71350	88240	90040	1.10	8.0	13.8	
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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

Amjad Saeed,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak Fsd.(Provision Of Exit Ramp/Flyover From Existing Abdullahpur Flyover,Faisalabad)

Client Reference: 4699/ERAF/AS/24/055 **SOM Lab Ref:** 3584-86 (Page-1/3)

Dated: 18-01-2024 **Dated:** 29-01-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Etihad 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	17.18	20.46	86100	86890	102550	103490	1.10	8.0	13.8	
2	1.476	6	0.743	0.44	0.434	16.82	20.08	84310	85470	100660	102050	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

Amjad Saeed,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak Fsd.(Provision Of Exit Ramp/Flyover From Existing Abdullahpur Flyover,Faisalabad)

Client Reference: 4699/ERAF/AS/24/052 **SOM Lab Ref:** 3584-86 (Page-2/3)

Dated: 16-01-2024 **Dated:** 29-01-2024

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	2.700	8	1.005	0.79	0.793	26.83	36.67	74900	74620	102360	101980	1.30	8.0	16.3	
2	2.710	8	1.007	0.79	0.796	27.22	36.92	75980	75410	103080	102300	1.30	8.0	16.3	
3	1.025	5	0.619	0.31	0.301	10.19	13.48	72520	74690	95880	98740	1.30	8.0	16.3	
4	1.020	5	0.618	0.31	0.300	10.14	13.40	72160	74570	95370	98550	1.20	8.0	15.0	
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BEND TEST:

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

Amjad Saeed,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak Fsd.(Provision Of Exit Ramp/Flyover From Existing Abdullahpur Flyover,Faisalabad)

Client Reference: 4699/ERAF/AS/24/057 **SOM Lab Ref:** 3584-86 (Page-3/3)

Dated: 20-01-2024 **Dated:** 29-01-2024

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	2.667	8	0.999	0.79	0.784	24.33	38.63	67930	68450	107860	108680	1.40	8.0	17.5	
2	2.663	8	0.998	0.79	0.783	24.08	38.71	67220	67820	108060	109020	1.30	8.0	16.3	
3	1.497	6	0.748	0.44	0.440	13.53	21.15	67810	67810	106020	106020	1.30	8.0	16.3	
4	1.496	6	0.748	0.44	0.440	13.35	20.92	66940	66940	104850	104850	1.20	8.0	15.0	
5	0.677	4	0.503	0.20	0.199	6.39	9.28	70480	70840	102290	102810	1.30	8.0	16.3	
6	0.673	4	0.502	0.20	0.198	6.27	9.12	69130	69830	100610	101620	1.10	8.0	13.8	
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BEND TEST:

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

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

Innovative ® Construction Company

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

Director Project,Lahore.(Const Of Allied Bank Sargodha)

SOM Lab

Client Reference: ICL/ABL Sargodha **Ref:** 3585 (Page-1/1)

Dated: 29-01-2024 **Dated:** 29-01-2024

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	2.660	8	0.998	0.79	0.782	25.50	33.64	71200	71930	93910	94870	1.40	8.0	17.5	
2	2.658	8	0.997	0.79	0.781	25.48	33.86	71150	71970	94540	95630	1.50	8.0	18.8	
3	1.487	6	0.746	0.44	0.437	14.73	18.40	73830	74340	92230	92860	1.40	8.0	17.5	
4	1.483	6	0.745	0.44	0.436	14.37	18.60	72050	72710	93250	94110	1.50	8.0	18.8	
5	1.044	5	0.625	0.31	0.307	10.81	13.78	76880	77630	98050	99010	1.50	8.0	18.8	
6	1.040	5	0.624	0.31	0.306	10.45	13.37	74340	75310	95150	96390	1.30	8.0	16.3	
7	0.664	4	0.498	0.20	0.195	6.44	8.36	71040	72870	92180	94540	1.20	8.0	15.0	
8	0.662	4	0.498	0.20	0.195	6.52	8.38	71940	73790	92400	94770	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
# 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

Engineer Muhammad Irfan
Dy Dir Infra. DHA Gujranwala.(Sec C)

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

Client Reference: 111/15/DD/RS/Lab/Pkg-2A/1971
Dated: 29-01-2024

SOM Lab Ref: 3587 (Page-2/2)
Dated: 29-01-2024

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Batala 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	0.663	4	0.498	0.20	0.195	6.52	9.65	71940	73790	106450	109180	1.30	8.0	16.3	
2	0.673	4	0.502	0.20	0.198	5.83	8.00	64300	64950	88240	89130	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

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)

SOM Lab

Client Reference: NTT-HO/ADB301C-R/SI-012 **Ref:** 3588 (Page-1/1)

Dated: 29-01-2024 **Dated:** 29-01-2024

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	2.689	8	1.003	0.79	0.790	26.35	35.24	73570	73570	98380	98380	1.40	8.0	17.5	
2	2.017	7	0.869	0.60	0.593	20.87	27.12	76700	77610	99670	100850	1.50	8.0	18.8	
3	1.472	6	0.743	0.44	0.433	13.83	18.67	69340	70460	93610	95120	1.30	8.0	16.3	
4	1.044	5	0.625	0.31	0.307	10.21	13.30	72670	73380	94640	95570	1.10	8.0	13.8	
5	0.665	4	0.498	0.20	0.195	5.93	9.09	65420	67100	100270	102840	1.00	8.0	12.5	
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Witnessed By: Sohaib Ali (NESPAK,Sub Engineer)

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 7	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 Two Samples Received and Tested

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