

Test Performed by: S. Asad Ali Gillani

Muhammad Nadeem Akhtar
Resident Engineer
NESPAK Lahore.

(Lahore Ring Road Southern Loop Project)

Client Reference No.: Nespak/LRRA/MNA/SL-3/126

Dated: 07-03-2024

SOM Lab Ref: CED/SOM/3776 (Page 1/1)

Dated: 08-03-2024

Test Type: Tensile Test

Specification: ASTM A-36

Sample Type: MS Plate (8mm)

Gauge Length: 2 inches

Tensile Test Results

Sr. No.	Sample Type	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	MS Plate (8mm)	20.7 x 8.20	169.74	49.0	76.0	288.68	447.74	0.45	22.5
		21.1 x 8.25	174.08	54.0	78.2	310.21	449.23	0.50	25.0

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

Muhammad Qasim

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Officer Lab Tech.Punjab Industrial Estates (Boundary Wall at Bhalwal Industrial Estate)

Client Reference: BIE/PIE/B.wall/1514

Dated: 07-03-2024

SOM Lab Ref: CED/SOM/3778(Page-1/1)

Dated: 08-03-2024

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	2.198	20	18.88	314	280	154.70	196.70	492	553	626	703	30.0	200	15.0	Ittefaq
2	2.215	20	18.96	314	282	157.00	197.70	500	557	629	701	32.5	200	16.3	Ittefaq
3	0.897	12	12.06	113	114	60.70	73.70	537	532	652	645	27.5	200	13.8	Mughal
4	0.896	12	12.06	113	114	61.20	74.50	541	537	659	653	30.0	200	15.0	Mughal
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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

Tanveer Ahmad
 Manager Civil Shangrila Foods (Pvt) Ltd.Karachi

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

Client Reference: Nil

SOM Lab

Ref: 3772 (Page-1/1)

Dated: 08-03-2024

Dated: 08-03-2024

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	0.658	4	0.496	0.20	0.193	7.16	9.81	78910	81770	108140	112060	1.00	8.0	12.5	
2	0.658	4	0.496	0.20	0.193	7.70	9.86	84870	87950	108700	112640	1.00	8.0	12.5	
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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

Nasir Siddique, Admin Officer

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Innovative ® Construction Company, Lahore. (Shoring Works at Kingdom Arena, RUDA)

Client Reference: ICL/KA/PW/0324/01

SOM Lab

Ref:

3773 (Page-1/1)

Dated: 05-03-2024

Dated:

08-03-2024

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	2.646	8	0.995	0.79	0.778	26.25	36.29	73280	74410	101310	102870	1.30	8.0	16.3	
2	1.518	6	0.754	0.44	0.446	15.04	20.41	75370	74350	102290	100920	1.30	8.0	16.3	
3	1.037	5	0.623	0.31	0.305	10.42	13.53	74120	75330	96240	97820	1.40	8.0	17.5	
4	0.390	3	0.383	0.11	0.115	3.94	5.30	79100	75660	106280	101660	0.90	8.0	11.3	
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Witnessed By: Nasir Siddiq, Sajid Ashraf

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

ESS-I-AAR Consultant,RE

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

D.G.Kan.(Const of Ghazi University DG Khan)(Const Of Hostel,Group No.4)

Client Reference: 2598

SOM Lab

Ref:

3774 (Page-1/1)

Dated: 13-01-2024

Dated:

08-03-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Farooq 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	23.92	33.79	66790	66960	94340	94580	1.30	8.0	16.3	
2	1.491	6	0.747	0.44	0.438	14.32	19.67	71790	72120	98610	99060	1.10	8.0	13.8	
3	0.670	4	0.501	0.20	0.197	6.83	9.25	75320	76460	101960	103510	1.10	8.0	13.8	
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BEND TEST:

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

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

Muhammad Moeed Azhar

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

Sub Divisional officer, BSD Punjab Assembly, Lhr. (Children Surgical Block at Mayo Hospital Lhr)

Client Reference: 1072

SOM Lab

Ref: 3775 (Page-1/1)

Dated: 05-03-2024

Dated: 08-03-2024

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	0.644	4	0.491	0.20	0.189	5.76	8.00	63510	67210	88240	93380	1.40	8.0	17.5	
2	0.654	4	0.494	0.20	0.192	5.91	8.15	65200	67920	89930	93680	1.40	8.0	17.5	
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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

Syed Yasir Ali Sherazi

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

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

Client Reference: NTT-HO/ADB301C-R/SI-017

SOM Lab

Ref:

3777 (Page-1/1)

Dated: 07-03-2024

Dated:

08-03-2024

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	3.307	9	1.112	1.00	0.972	32.54	42.15	71760	73830	92960	95640	1.50	8.0	18.8	
2	3.289	9	1.110	1.00	0.967	32.11	41.61	70820	73240	91770	94900	1.40	8.0	17.5	
3	1.471	6	0.742	0.44	0.432	14.85	19.49	74450	75830	97690	99500	1.50	8.0	18.8	
4	1.468	6	0.741	0.44	0.431	14.73	19.47	73830	75380	97590	99630	1.50	8.0	18.8	
5	1.077	5	0.635	0.31	0.317	9.48	13.12	67450	65960	93340	91280	1.40	8.0	17.5	
6	1.078	5	0.635	0.31	0.317	9.63	13.22	68540	67020	94060	91990	1.40	8.0	17.5	
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Witnessed By: Sohaib Ali (NESPAK,Sub Engineer)

BEND TEST:

# 9	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

Metroplan-Asian JV

Test Performed By: Dr. /Engr. Rizwan Riaz

Site Office JHL ET,Lahore.(Estb Of Emergency &Trauma Cum Cardiac Center Ext of Jinnah Hospital)

Client Reference: Metroplan-Asian JV JIC-JHL-RE-145-2024

SOM Lab

Ref: 3779(Page-1/1)

Dated: 07-03-2024

Dated: 08-03-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (SHeikhoo 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	1.521	6	0.754	0.44	0.447	15.19	19.62	76130	74940	98360	96820	1.30	8.0	16.3	
2	1.496	6	0.748	0.44	0.440	15.04	19.42	75370	75370	97340	97340	1.40	8.0	17.5	
3	0.658	4	0.496	0.20	0.193	7.00	8.99	77230	80030	99150	102740	1.20	8.0	15.0	
4	0.659	4	0.497	0.20	0.194	6.90	8.97	76100	78460	98920	101980	1.10	8.0	13.8	
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BEND TEST:

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

Metroplan-Asian JV

Test Performed By: Dr. /Engr. Rizwan Riaz

Site Office JHL ET,Lahore.(Estb Of Emergency &Trauma Cum Cardiac Center Ext of Jinnah Hospital)

Client Reference: Metroplan-Asian JV JIC-JHL-RE-147-2024

SOM Lab

Ref: 3780(Page-1/1)

Dated: 08-03-2024

Dated: 08-03-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Pak 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	0.656	4	0.496	0.20	0.193	6.68	8.92	73630	76300	98360	101930	1.20	8.0	15.0	
2	0.659	4	0.497	0.20	0.194	6.60	8.79	72730	74980	96900	99890	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

Asif Pervaiz Butt
 RE Ritz Developers Pvt. Ltd.Lahore

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

Client Reference: Nil

SOM Lab

Ref: 3781 (Page-1/2)

Dated: 08-03-2024

Dated: 08-03-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (AF 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	2.584	8	0.983	0.79	0.759	23.09	33.33	64460	67090	93060	96860	1.40	8.0	17.5	
2	2.656	8	0.997	0.79	0.781	22.78	32.59	63610	64340	90980	92030	1.50	8.0	18.8	
3	2.587	8	0.984	0.79	0.760	23.31	33.38	65090	67650	93200	96880	1.20	8.0	15.0	
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BEND TEST:

# 8	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

Asif Pervaiz Butt
 RE Ritz Developers Pvt. Ltd.Lahore

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

Client Reference: Nil

SOM Lab

Ref: 3781 (Page-2/2)

Dated: 08-03-2024

Dated: 08-03-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (AF 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	0.644	4	0.491	0.20	0.189	7.03	9.12	77560	82080	100610	106460	1.20	8.0	15.0	
2	0.644	4	0.491	0.20	0.189	7.10	9.14	78350	82910	100830	106700	1.00	8.0	12.5	
3	0.655	4	0.494	0.20	0.192	7.41	9.40	81720	85130	103640	107960	1.00	8.0	12.5	
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BEND TEST:

# 4	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