

Naseem Exports (Pvt.)Ltd.
City Tower Gulberg-II Lahore.

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

Client Reference: NEL/UET/056/21
SOM Lab Ref: CED/SOM/5393(Page-1/1)
Test: Tension Test & Bend Test
Sample Type: M S Deformed Bar (Afco Steel)

Dated: 01-12-2021
Dated: 01-12-2021
Test Specification: ASTM-A 615
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	3.681	25	24.44	491	469	287.00	352.70	585	612	719	753	25.0	200	12.5	
2	3.675	25	24.41	491	468	269.50	342.00	549	576	697	731	25.0	200	12.5	
3	2.439	20	19.89	314	311	196.00	247.00	624	631	786	795	25.0	200	12.5	
4	2.434	20	19.87	314	310	193.00	244.70	614	623	779	790	27.5	200	13.8	
5	1.572	16	15.97	201	200	97.20	131.00	483	486	652	655	35.0	200	17.5	
6	1.559	16	15.90	201	199	98.50	135.00	490	497	671	680	27.5	200	13.8	
7	0.971	12	12.55	113	124	61.70	81.00	546	500	716	656	27.5	200	13.8	
8	0.971	12	12.55	113	124	65.70	83.20	581	532	736	673	25.0	200	12.5	
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Witnessed By: Naveed Ahmad, Imran (Afco Steel)

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	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

Babar Ali

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Const. Manager, Guarantee Engineer (Pvt) Ltd (Beaconhouse School System TNS 2 Gulberg Lahore)

Client Reference: TNS/GE/ST/001

Dated: 30-11-2021

SOM Lab Ref: CED/SOM/5394(Page-1/1)

Dated: 01-12-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S 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	2.193	20	18.85	314	279	125.70	173.50	400	451	552	622	42.5	200	21.3	
2	2.211	20	18.94	314	282	130.70	178.70	416	464	569	635	37.5	200	18.8	
3	0.860	12	11.81	113	110	51.70	70.00	457	472	619	639	35.0	200	17.5	
4	0.891	12	12.03	113	114	54.50	76.70	482	480	678	676	37.5	200	18.8	
5	0.980	12	12.61	113	125	60.70	81.50	537	487	721	653	27.5	200	13.8	
6	0.974	12	12.57	113	124	60.20	81.20	532	486	718	655	30.0	200	15.0	
7	1.013	12	12.82	113	129	70.20	87.20	621	544	771	676	30.0	200	15.0	
8	0.992	12	12.68	113	126	66.20	82.50	585	524	729	653	30.0	200	15.0	
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Witnessed By: Muhammad Ali Khan (Asst. Manager ,Clint: TNS-02)

BEND TEST:

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

Abdul Ghafar

Test Performed By:

Dr. /Engr. Asad Gillani

PM Liberty Builders.(Const. Of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Rd,Lahore)

Client Reference: ST/UET/2021130

SOM Lab

Ref: 5391(Page-1/1)

Dated: 30-11-2021

Dated: 01-12-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Mughal)

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	0.670	4	0.501	0.20	0.197	7.46	8.99	82290	83540	99150	100660	0.80	8.0	10.0	
2	0.667	4	0.500	0.20	0.196	7.84	9.45	86440	88210	104200	106330	1.00	8.0	12.5	
3	0.666	4	0.500	0.20	0.196	7.87	9.40	86780	88550	103640	105760	0.90	8.0	11.3	
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Witnessed By: Billal Ashraf (34104-41417541)

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

GRAINS

Test Performed By: Dr. /Engr. Asad Gillani

Plot # 1580-1571, Tarogil Rd Adda Plot Raiwind Road, Lahore (Quba, Divine Gardens)

Client Reference: Nil

SOM Lab

Ref: 5392(Page-1/1)

Dated: 26-11-2021

Dated: 01-12-2021

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	0.668	4	0.500	0.20	0.196	7.51	9.17	82850	84540	101170	103230	1.00	8.0	12.5	
2	0.672	4	0.501	0.20	0.197	7.44	8.82	82060	83310	97230	98720	1.00	8.0	12.5	
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Witnessed By: Muhammad Haziq Kamran

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

Sub Divisional Officer,

Test Performed By:

Dr. /Engr. Asad Gillani

Building Sub Division No.2,Lahore.(Const. of Garages & Proper Sewerage System In CDOL)

Client Reference: 928/SDO2nd,

SOM Lab

Ref: 5395(Page-1/1)

Dated: 19-11-2021

Dated: 01-12-2021

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	1.426	6	0.730	0.44	0.419	10.77	16.48	54010	56720	82620	86760	1.10	8.0	13.8	
2	1.430	6	0.731	0.44	0.420	10.70	16.72	53650	56210	83800	87790	1.30	8.0	16.3	
3	0.677	4	0.503	0.20	0.199	5.15	7.39	56770	57050	81500	81910	1.30	8.0	16.3	
4	0.682	4	0.505	0.20	0.200	5.20	6.88	57330	57330	75880	75880	0.90	8.0	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Ravi Associates,

Test Performed By: Dr. /Engr. Asad Gillani

Proprietor, Lahore Cantt. (Project: 1x128 Airmen Barrach Is under Const at PAF Base Vehari)

Client Reference: Nil

SOM Lab

Ref: 5396 (Page-1/1)

Dated: 01-12-2021

Dated: 01-12-2021

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	2.596	8	0.986	0.79	0.763	26.01	33.51	72630	75200	93540	96850	1.50	8.0	18.8	
2	2.603	8	0.987	0.79	0.765	25.66	33.40	71630	73970	93260	96310	1.50	8.0	18.8	
3	1.630	6	0.781	0.44	0.479	18.86	23.45	94530	86830	117520	107950	1.10	8.0	13.8	
4	1.620	6	0.778	0.44	0.476	18.88	23.50	94630	87470	117770	108870	1.00	8.0	12.5	
5	1.016	5	0.617	0.31	0.299	10.77	13.20	76660	79480	93920	97370	1.30	8.0	16.3	
6	1.017	5	0.617	0.31	0.299	10.77	13.17	76660	79480	93700	97150	1.30	8.0	16.3	
7	0.655	4	0.494	0.20	0.192	6.98	9.07	77000	80210	100050	104210	1.20	8.0	15.0	
8	0.655	4	0.494	0.20	0.192	7.00	9.07	77230	80440	100050	104210	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

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

Ravi Associates,

Test Performed By: Dr. /Engr. Asad Gillani

Proprietor, Lahore Cantt. (Project: Const Of MRR Site #17 Of 4090 SQN Arifwala at PAF Base Rafiqui)

Client Reference: Nil

SOM Lab

Ref: 5397 (Page-1/1)

Dated: 01-12-2021

Dated: 01-12-2021

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	2.605	8	0.988	0.79	0.766	25.91	33.64	72340	74610	93910	96850	1.50	8.0	18.8	
2	2.611	8	0.988	0.79	0.767	25.81	33.40	72060	74220	93260	96050	1.70	8.0	21.3	
3	1.631	6	0.781	0.44	0.479	19.01	23.55	95290	87540	118030	108420	1.10	8.0	13.8	
4	1.638	6	0.783	0.44	0.481	19.03	23.60	95400	87260	118290	108200	1.10	8.0	13.8	
5	1.022	5	0.618	0.31	0.300	10.77	13.25	76660	79210	94280	97420	1.30	8.0	16.3	
6	1.023	5	0.619	0.31	0.301	10.83	13.27	77020	79320	94420	97250	1.30	8.0	16.3	
7	0.655	4	0.494	0.20	0.192	6.88	8.94	75880	79040	98580	102690	1.10	8.0	13.8	
8	0.651	4	0.493	0.20	0.191	6.93	8.94	76440	80040	98580	103230	0.90	8.0	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

--	No Bend test performed	Note:- Only Eight 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 Gillani

Highway Sub Division D.G.Kan.(Const. Of Pile Foundation Bridge at Basti Gajjuji & Tiggyani)

Client Reference: '2451

SOM Lab

Ref: 5398(Page-1/1)

Dated: 21-10-2021

Dated: 01-12-2021

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	2.674	8	1.000	0.79	0.786	26.50	35.47	73990	74370	99030	99540	1.60	8.0	20.0	
2	2.659	8	0.997	0.79	0.781	25.69	34.73	71720	72540	96960	98070	1.30	8.0	16.3	
3	1.516	6	0.754	0.44	0.446	14.14	20.18	70870	69920	101170	99810	1.30	8.0	16.3	
4	1.502	6	0.749	0.44	0.441	13.86	19.90	69490	69330	99740	99510	1.30	8.0	16.3	
5	0.673	4	0.502	0.20	0.198	6.42	8.94	70820	71540	98580	99580	1.10	8.0	13.8	
6	0.669	4	0.501	0.20	0.197	6.39	8.94	70480	71560	98580	100080	1.30	8.0	16.3	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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