Abdul Ghafar
Project Manager Liberty Builders, Lahore

Test Performed By: **Dr. /Engr.** **Nauman Khurram**

Client Reference: **ST/UET/ 20210108-A**
Dated: **08-01-2021**

SOM Lab Ref: **3595(Page-1/1)**
Dated: **08-01-2021**

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	2.571	8	0.981	0.79	0.756	24.43	35.65	68220	71280	99520	103990	1.40	8.0	17.5	
2	2.616	8	0.990	0.79	0.769	24.26	35.04	67730	69580	97810	100480	1.50	8.0	18.8	
3	2.602	8	0.987	0.79	0.765	24.49	36.49	68360	70590	101880	105210	1.50	8.0	18.8	
4	1.488	6	0.746	0.44	0.437	16.87	22.48	84560	85140	112660	113440	1.60	8.0	20.0	
5	1.466	6	0.741	0.44	0.431	15.97	21.83	80070	81740	109450	111730	1.50	8.0	18.8	
6	1.500	6	0.749	0.44	0.441	16.43	21.99	82370	82180	110210	109960	1.10	8.0	13.8	
7	0.661	4	0.497	0.20	0.194	6.93	8.92	76440	78800	98360	101400	1.00	8.0	12.5	
8	0.665	4	0.498	0.20	0.195	6.98	9.12	77000	78980	100610	103190	1.00	8.0	12.5	
9	0.671	4	0.501	0.20	0.197	6.57	9.04	72510	73610	99710	101230	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
# 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

Khalid Bashir **Test Performed By:** **Dr. /Engr.** **S. Asas Ali Gillani**

Ittefaq Building Solution (Pvt) Ltd. Lahore (Project Name: ATS-02)

Client Reference: **IBS/ATS-02/ST-00** **SOM Lab Ref:** **3596 (Page-1/1)**

Dated: **04-01-2021** **Dated:** **08-01-2021**

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

Gauge Length: **8 inch** **Sample Type:** **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	2.645	8	0.995	0.79	0.777	25.08	35.47	70010	71180	99030	100690	1.30	8.0	16.3	
2	1.055	5	0.628	0.31	0.310	9.68	13.17	68900	68900	93700	93700	1.30	8.0	16.3	
3	0.658	4	0.496	0.20	0.193	6.03	8.28	66550	68960	91280	94590	1.50	8.0	18.8	
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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
# 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. Mustehson Ali Khan **Test Performed By:** **Dr. /Engr.** **S. Asas Ali Gillani**

Site Engineer, Flag Square Builder, Etihad Town Raiwind Road, Lahore

Client Reference: **FBS/01/ST** **SOM Lab Ref:** **3597 (Page-1/1)**

Dated: **08-01-2021** **Dated:** **08-01-2021**

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

Gauge Length: **8 inch** **Sample Type:** **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	2.590	8	0.984	0.79	0.761	29.51	37.38	82390	85530	104360	108330	1.20	8.0	15.0	
2	2.629	8	0.992	0.79	0.773	25.86	36.60	72200	73790	102170	104410	1.10	8.0	13.8	
3	1.460	6	0.739	0.44	0.429	16.28	22.58	81600	83690	113180	116080	1.10	8.0	13.8	
4	1.526	6	0.755	0.44	0.448	19.54	23.45	97950	96200	117520	115420	1.10	8.0	13.8	
5	0.673	4	0.502	0.20	0.198	7.16	9.28	78910	79710	102290	103330	1.00	8.0	12.5	
6	0.686	4	0.507	0.20	0.202	6.70	8.87	73850	73120	97800	96830	1.00	8.0	12.5	
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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

T. M. Khan **Test Performed By:** **Dr. /Engr.** **S. Asas Ali Gillani**

Senior Admin Manager, Expert Advertising & Packaging (Pvt) Ltd. Lahore

Client Reference: **nil** **SOM Lab Ref:** **3598 (Page-1/1)**

Dated: **08-01-2021** **Dated:** **08-01-2021**

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

Gauge Length: **8 inch** **Sample Type:** **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	2.621	8	0.990	0.79	0.770	25.05	32.01	69920	71740	89360	91680	1.50	8.0	18.8	
2	1.432	6	0.732	0.44	0.421	13.76	19.08	68980	72090	95650	99970	1.50	8.0	18.8	
3	0.655	4	0.494	0.20	0.192	5.96	8.18	65760	68500	90150	93910	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 Six Samples Received and Tested

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

Syed Salman Liaqat **Test Performed By:** **Dr. /Engr.** **S. Asad Ali Gillani**

Resident Engineer, NESPAK (Pvt) Ltd., Jhall Road Flyover, Sahiwal

Client Reference: **4116/03/SSL/2020/81** **SOM Lab Ref:** **3599(Page-1/1)**

Dated: **07-01-2021** **Dated:** **05-01-2021**

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

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (SGI, 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	2.908	8	1.043	0.79	0.855	26.15	40.67	73000	67450	113550	104920	1.40	8.0	17.5	
2	1.511	6	0.752	0.44	0.444	13.12	20.64	65760	65170	103470	102540	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

Note:-

Only Four Samples Received and Tested

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

Sajid Khawaja
Resident Engineer, EA Consulting (Pvt) Ltd.

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

Client Reference: **EA/FGEHA/LHE/068**
Dated: **08-01-2021**

SOM Lab Ref: **3600(Page-1/1)**
Dated: **08-01-2021**

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

Gauge Length: **8 inch** **Sample Type:** **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	2.618	8	0.990	0.79	0.769	22.40	34.10	62520	64230	95190	97790	1.60	8.0	20.0	
2	2.630	8	0.992	0.79	0.773	22.85	34.53	63810	65210	96390	98510	1.70	8.0	21.3	
3	2.626	8	0.991	0.79	0.772	22.55	34.35	62950	64420	95900	98140	1.80	8.0	22.5	
4	1.530	6	0.757	0.44	0.450	14.55	18.76	72910	71290	94020	91930	1.50	8.0	18.8	
5	1.463	6	0.740	0.44	0.430	14.80	18.62	74190	75920	93350	95520	1.30	8.0	16.3	
6	1.451	6	0.736	0.44	0.426	15.46	19.24	77510	80060	96420	99590	1.50	8.0	18.8	
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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

Note:-

Only Eight Samples Received and Tested

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

Syed Tasawur Hussain Naqvi **Test Performed By:** **Dr. /Engr.** **S. Asad Ali Gillani**

Assistant Executive Engineer-III, CCD. PAK PWD, Gujranwala

Client Reference: **AEE-II/CCD/GA/Work/NHMP/P-I/Lab/19** **SOM Lab Ref:** **3602(Page-1/1)**

Dated: **28-12-2020** **Dated:** **08-01-2021**

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

Gauge Length: **8 inch** **Sample Type:** **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	28.82	37.33	80450	80550	104210	104350	1.50	8.0	18.8	
2	2.669	8	0.999	0.79	0.784	25.91	32.62	72340	72900	91070	91760	1.50	8.0	18.8	
3	1.497	6	0.748	0.44	0.440	14.65	20.80	73430	73430	104230	104230	1.20	8.0	15.0	
4	1.501	6	0.749	0.44	0.441	14.70	20.80	73680	73510	104230	104000	1.10	8.0	13.8	
5	1.051	5	0.627	0.31	0.309	10.57	13.66	75210	75450	97180	97490	1.10	8.0	13.8	
6	1.047	5	0.626	0.31	0.308	10.60	13.81	75420	75910	98270	98910	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

Note:-

Only Nine Samples Received and Tested

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