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

Administration Departments,31-Km Lahore Road Sheikhupura

Client Reference: NIL **Dated:** 12-11-2021

SOM Lab Ref: CED/SOM/5296 (Page-1/1) **Dated:** 15-11-2021

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

Sample Type: Deformed Bar(Afaq Steel) **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	3.944	25	25.28	491	502	244.70	378.20	498	488	770	754	32.5	200	16.3	
2	2.211	16	18.94	201	282	132.50	184.70	659	471	919	656	30.0	200	15.0	
3	0.982	12	12.62	113	125	65.70	84.70	581	526	749	678	20.0	200	10.0	
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BEND TEST:

25mm	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:-

Only Six Samples Received and Tested

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

Haris & Company
Lahore (Edotco Shakarpur USF Project)

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

Client Reference: 0015 **Dated:** 15-11-2021

SOM Lab Ref: CED/SOM/5300 (Page-1/1) **Dated:** 15-11-2021

Test: Tensile 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	3.914	25	25.21	491	499	263.50	346.00	537	529	705	694	25.0	200	12.5	
2	2.216	20	18.96	314	282	139.50	189.50	444	495	603	672	25.0	200	12.5	
3	1.536	16	15.79	201	196	91.70	131.00	456	469	652	670	30.0	200	15.0	
4	0.992	12	12.68	113	126	57.50	85.00	508	456	752	673	32.5	200	16.3	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack
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:-

Only Eight Samples Received and Tested

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

Engr. Mian Mubashar Rafiq
Project Manager, Union Luxury Apartment,Lahore

Test Performed By: **Dr. /Engr.** Dr. Irfan ul hassan

Client Reference: UA/SO/2021/005
Dated: 15-11-2021

SOM Lab Ref: 5297(Page-1/1)
Dated: 15-11-2021

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Afco 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	2.514	8	0.970	0.79	0.739	21.73	34.98	60670	64860	97670	104410	1.30	8.0	16.3	
2	2.523	8	0.971	0.79	0.741	23.92	31.04	66790	71210	86660	92390	1.30	8.0	16.3	
3	1.498	6	0.748	0.44	0.440	16.62	20.97	83290	83290	105100	105100	1.00	8.0	12.5	
4	1.536	6	0.758	0.44	0.451	17.94	21.73	89930	87740	108940	106280	1.00	8.0	12.5	
5	1.546	6	0.760	0.44	0.454	18.81	22.53	94270	91360	112920	109440	0.90	8.0	11.3	
6	1.531	6	0.757	0.44	0.450	17.84	21.48	89420	87430	107660	105270	1.00	8.0	12.5	
7	1.627	6	0.780	0.44	0.478	17.33	21.87	86860	79960	109600	100890	1.10	8.0	13.8	
8	1.570	6	0.766	0.44	0.461	17.64	22.94	88400	84370	114960	109730	0.90	8.0	11.3	
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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
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 6	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

Basharat Munir **Test Performed By:** **Dr. /Engr.** Dr. Irfan ul hassan

Project Manager, Dupak Properaties(Pvt.) Ltd. Defence View apartments at Shanghai Road Lahore

Client Reference: UA/SO/2021/005 **SOM Lab Ref:** 5297(Page-1/1)

Dated: 15-11-2021 **Dated:** 15-11-2021

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	2.514	8	0.970	0.79	0.739	21.73	34.98	60670	64860	97670	104410	1.30	8.0	16.3	
2	2.523	8	0.971	0.79	0.741	23.92	31.04	66790	71210	86660	92390	1.30	8.0	16.3	
3	1.498	6	0.748	0.44	0.440	16.62	20.97	83290	83290	105100	105100	1.00	8.0	12.5	
4	1.536	6	0.758	0.44	0.451	17.94	21.73	89930	87740	108940	106280	1.00	8.0	12.5	
5	1.546	6	0.760	0.44	0.454	18.81	22.53	94270	91360	112920	109440	9.00	8.0	####	
6	1.531	6	0.757	0.44	0.450	17.84	21.48	89420	87430	107660	105270	1.00	8.0	12.5	
7	1.627	6	0.780	0.44	0.478	17.33	21.87	86860	79960	109600	100890	1.10	8.0	13.8	
8	1.570	6	0.766	0.44	0.461	17.64	22.94	88400	84370	114960	109730	0.90	8.0	11.3	
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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
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 6	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

Q-Links Construction **Test Performed By:** **Dr. /Engr.** Asad Ghalani

Project Manager,(Construction of Broadway Height 3 Bahria Orchard Lahhore)

Client Reference: QLC-BO-BH2-2021-092 **SOM Lab Ref:** 5299(Page-1/1)

Dated: 15-11-2021 **Dated:** 15-11-2021

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615 Deformed Bar (SJ Gujjar Steel)

Gauge Length: 8 inch **Sample Type:**

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	2.680	8	1.002	0.79	0.788	25.76	37.18	71920	72100	103790	104050	1.20	8.0	15.0	
2	1.453	6	0.737	0.44	0.427	14.09	18.37	70620	72770	92070	94880	1.30	8.0	16.3	
3	0.689	4	0.507	0.20	0.202	6.95	9.53	76660	75910	105100	104060	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
# 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