

StarchPack (Pvt.) Ltd.  
Lead Civil Lahore.(StarchPack Green Project At Kasur)

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

**Client Reference:** Nil  
**SOM Lab Ref:** CED/SOM/568(Page-1/1)

**Dated:** 28-06-2022  
**Dated:** 28-06-2022

**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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.569	16	15.96	201	200	105.00	126.20	522	525	628	631	32.5	200	16.3	
2	1.561	16	15.91	201	199	104.70	130.00	521	527	647	654	32.5	200	16.3	
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**BEND TEST:**

16mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

StarchPack (Pvt.) Ltd.  
Lead Civil Lahore.(StarchPack Green Project At Kasur)

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

**Client Reference:** Nil

**Dated:** 28-06-2022

**SOM Lab Ref:** CED/SOM/569(Page-1/1)

**Dated:** 28-06-2022

**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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.493	20	20.12	314	318	166.70	211.50	531	525	673	666	32.5	200	16.3	
2	2.494	20	20.11	314	318	166.20	210.50	529	524	670	663	32.5	200	16.3	
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**BEND TEST:**

20mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Engr. Mian Mubashar Rafiq

**Test Performed By:**

Dr. /Engr.

Nauman Khurram

PM Union Developers Lhr.(const. Of Union Luxury Apartments,Etihad Town Lahore.)

**Client Reference:** UA/SO/2022/021

**SOM Lab**

566 (Page-

**Ref:**

1/1)

**Dated:** 24-06-2022

**Dated:**

28-06-2022

**Test:** Tension Test & Bend Test

**Test Specification:**

ASTM-A-615

**Gauge Length:** 8 inch

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.506	6	0.751	0.44	0.443	16.99	21.02	85180	84600	105360	104650	1.10	8.0	13.8	
2	1.501	6	0.749	0.44	0.441	17.23	21.36	86350	86160	107040	106800	1.00	8.0	12.5	
3	0.647	4	0.492	0.20	0.190	6.49	7.97	71610	75380	87910	92530	0.90	8.0	11.3	
4	0.652	4	0.494	0.20	0.192	7.49	8.92	82620	86060	98360	102460	1.00	8.0	12.5	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Safiya Homes Pvt. Ltd.  
31-10A Abu Bakar Block, New Garden Town, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab 567 (Page-  
Ref: 1/1)

Dated: 28-06-2022

Dated: 28-06-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.475	6	0.743	0.44	0.433	14.24	20.10	71380	72540	100760	102390	1.20	8.0	15.0	
2	1.468	6	0.741	0.44	0.431	13.86	20.05	69490	70940	100500	102600	1.40	8.0	17.5	
3	1.025	5	0.619	0.31	0.301	9.96	14.12	70860	72970	100440	103450	1.30	8.0	16.3	
4	1.033	5	0.622	0.31	0.304	9.68	13.83	68900	70260	98410	100360	1.20	8.0	15.0	
5	0.642	4	0.491	0.20	0.189	5.83	8.56	64300	68040	94420	99920	1.30	8.0	16.3	
6	0.645	4	0.492	0.20	0.190	5.81	8.46	64080	67450	93300	98210	1.20	8.0	15.0	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
# 5	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](http://www.uet-civil.edu.pk)

Abid Mann  
Construction Manager One Liberty Lahore.

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

Client Reference: OL/2022/06/28

SOM Lab 570 (Page-1/1)

Dated: 28-06-2022

Dated: 28-06-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.629	8	0.992	0.79	0.773	21.00	36.16	58630	59920	100940	103160	1.10	8.0	13.8	
2	2.571	8	0.981	0.79	0.756	21.20	36.34	59200	61860	101450	106020	1.30	8.0	16.3	
3	1.535	6	0.758	0.44	0.451	10.72	18.09	53750	52440	90690	88480	1.40	8.0	17.5	
4	1.496	6	0.748	0.44	0.440	10.83	17.94	54270	54270	89930	89930	1.50	8.0	18.8	
5	0.683	4	0.506	0.20	0.201	6.65	9.48	73290	72930	104540	104020	1.20	8.0	15.0	
6	0.687	4	0.507	0.20	0.202	6.60	9.50	72730	72010	104770	103730	1.30	8.0	16.3	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Engr.Zahid Nisar Hashmi

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

Head MP.Shaukat Khanum Memorial Trust.(Const.Of Multi-Storied Parking Garage SKMCH&RC,Lhr)

**Client Reference:** SKM/PG/UET/06/10

**SOM Lab** 571 (Page-

**Ref:** 1/1)

**Dated:** 28-06-2022

**Dated:** 28-06-2022

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.607	8	0.988	0.79	0.766	24.64	36.77	68790	70940	102650	105860	1.30	8.0	16.3	
2	2.643	8	0.995	0.79	0.777	26.07	37.72	72770	73990	105300	107060	1.20	8.0	15.0	
3	1.494	6	0.748	0.44	0.439	15.01	21.83	75210	75390	109450	109700	1.20	8.0	15.0	
4	1.472	6	0.743	0.44	0.433	14.48	20.49	72560	73730	102700	104360	1.40	8.0	17.5	
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**Witnessed By:** M.Bilal Khalid SKMCH

**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six Samples Received and Tested
# 6	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](http://www.uet-civil.edu.pk)

Nauman Gull  
 PM Pro-Health,Lahore.(Children`s Heart Hospital And Research Institue)

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

**Client Reference:** T211101-L0016-UET/LHR

**SOM Lab Ref:** 572 (Page-1/1)

**Dated:** 27-06-2022

**Dated:** 28-06-2022

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.691	6	0.795	0.44	0.497	17.13	21.78	85840	76000	109190	96670	1.30	8.0	16.3	
2	1.685	6	0.794	0.44	0.495	16.87	21.71	84560	75170	108830	96740	1.30	8.0	16.3	
3	0.597	4	0.472	0.20	0.175	5.78	7.31	63740	72840	80600	92110	1.10	8.0	13.8	
4	0.599	4	0.473	0.20	0.176	5.76	7.36	63510	72170	81160	92230	1.10	8.0	13.8	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)