

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/1178(Page-1/4)

Dated: 01-11-2022

Dated: 01-11-2022

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.884	12	12.00	113	113	61.00	75.00	539	540	663	664	32.5	200	16.3	
2	0.884	12	11.97	113	113	61.00	72.00	539	542	637	640	30.0	200	15.0	
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BEND TEST:

12mm	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

StarchPack (Pvt.) Ltd.

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Lead Civil Lahore.(StarchPack Green Project At Kasur)

Client Reference: Nil

Dated: 01-11-2022

SOM Lab Ref: CED/SOM/1178(Page-2/4)

Dated: 01-11-2022

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.881	12	11.94	113	112	61.00	71.00	539	545	628	634	30.0	200	15.0	
2	0.898	12	12.07	113	114	62.00	73.00	548	543	645	639	32.5	200	16.3	
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BEND TEST:

12mm	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

StarchPack (Pvt.) Ltd.

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Lead Civil Lahore.(StarchPack Green Project At Kasur)

Client Reference: Nil

Dated: 01-11-2022

SOM Lab Ref: CED/SOM/1178(Page-3/4)

Dated: 01-11-2022

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.574	16	15.96	201	200	114.70	135.70	570	574	675	679	32.5	200	16.3	
2	1.585	16	16.04	201	202	116.00	136.70	577	575	680	677	27.5	200	13.8	
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BEND TEST:

16mm	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

StarchPack (Pvt.) Ltd.

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Lead Civil Lahore.(StarchPack Green Project At Kasur)

Client Reference: Nil

Dated: 01-11-2022

SOM Lab Ref: CED/SOM/1178(Page-4/4)

Dated: 01-11-2022

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.892	25	25.13	491	496	302.00	353.70	615	609	721	714	32.5	200	16.3	
2	3.862	25	25.03	491	492	291.50	345.70	594	593	704	703	27.5	200	13.8	
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BEND TEST:

25mm	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

Altaf Hussain

Test Performed By:

Dr. /Engr.

Wasim Abbas

M.E AS Enterprises (Project: Style Textile Mill Raiwind)

Client Reference: USD/ASE/16

Dated: 01-11-2022

SOM Lab Ref: CED/SOM/1183(Page-1/1)

Dated: 01-11-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: MS Deformed Bar (Afco & Agha)

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	3.856	25	25.00	491	491	268.00	355.70	546	546	725	725	37.5	200	18.8	
2	3.880	25	25.09	491	494	266.70	353.50	543	540	720	716	37.5	200	18.8	
3	2.494	20	20.11	314	318	164.20	209.70	523	517	667	661	32.5	200	16.3	
4	2.533	20	20.27	314	323	167.50	214.20	533	520	682	664	32.5	200	16.3	
5	1.567	16	15.94	201	200	106.70	135.20	531	535	672	678	37.5	200	18.8	
6	1.558	16	15.90	201	199	104.70	134.50	521	528	669	678	37.5	200	18.8	
7	0.993	12	12.69	113	127	64.50	77.70	570	510	687	614	25.0	200	12.5	
8	1.000	12	12.74	113	127	62.20	75.70	550	489	669	595	27.5	200	13.8	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Twelve Samples Received and Tested</p>
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

Muhammad Aslam Sipra

Test Performed By: Dr. /Engr. Nauman Khurram

AEE-IV CCD No.II Pak PWD Lhr.(Renov/Refurb/Up-Gradation Of Existing B/Wall of Land Of NHMP)

Client Reference: AEE-IV/LCCD-II/148

SOM Lab

Ref: 1179 (Page-1/1)

Dated: 24-10-2022

Dated: 01-11-2022

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.669	4	0.501	0.20	0.197	6.03	9.58	66550	67560	105670	107270	1.10	8.0	13.8	
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BEND TEST:

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

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

Associate Consulting Engineers
(ACE)

Test Performed By:

Dr. /Engr. Asad Ali Gillani

RE (ACE) UAEET Sambrial,Sialkot.(Estb Of UAEET Sambrial,Sialkot)

SOM Lab

Ref: 1180 (Page-1/1)

Client Reference: TE/UAEET/ACE/2022/58

Dated: 31-10-2022

Dated: 01-11-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Deformed Bar (A.F

Gauge Length: 8 inch

Sample Type:

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	0.663	4	0.498	0.20	0.195	6.44	8.74	71040	72870	96340	98810	1.10	8.0	13.8	
2	0.663	4	0.498	0.20	0.195	6.54	8.92	72170	74020	98360	100880	1.10	8.0	13.8	
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Witnessed By: Zohaib Riaz (Junior Engineer, QA/QC ACE Consultant)

BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four 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

Engr. Major Zia-UI-Islam ®

Test Performed By:

Dr. /Engr. Asad Ali Gillani

PD GCC,Overseas Const.Co, Lahore.(Project Gulberg City Cerntr, Lahore)

Client Reference: Nil

SOM Lab

Ref: 1181 (Page-1/1)

Dated: 01-11-2022

Dated: 01-11-2022

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	2.640	8	0.994	0.79	0.776	24.87	35.32	69440	70690	98610	100390	1.40	8.0	17.5	
2	0.673	4	0.502	0.20	0.198	6.78	8.66	74750	75510	95550	96510	1.10	8.0	13.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four 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

Sub Divisional officer,

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

Highway Sub Div Vehova.(Const Of Metalled Rd From Nutkani Rd Fateh Khan Via Sattar Dumra)

Client Reference: 616

SOM Lab

Ref: 1184 (Page-1/1)

Dated: 19-10-2022

Dated: 01-11-2022

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.672	4	0.501	0.20	0.197	5.71	7.82	62950	63910	86220	87530	1.20	8.0	15.0	
2	0.678	4	0.503	0.20	0.199	5.76	7.80	63510	63830	85990	86430	1.30	8.0	16.3	
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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

Associate Consulting Engineers
(ACE)

Test Performed By: Dr. /Engr. Wasim Abbas

RE (ACE) UAEET Sambrial, Sialkot. (Estb Of UAEET Sambrial, Sialkot)

SOM Lab

Ref: 1185 (Page-1/1)

Client Reference: TE/UAEET/ACE/2022/63

Dated: 31-10-2022

Dated: 01-11-2022

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	2.668	8	0.999	0.79	0.784	24.79	35.52	69210	69740	99180	99940	1.50	8.0	18.8	
2	1.489	6	0.747	0.44	0.438	14.22	19.27	71280	71610	96570	97010	1.30	8.0	16.3	
3	0.672	4	0.501	0.20	0.197	5.73	8.79	63180	64140	96900	98370	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

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

Imran Khokhar

Sialkot.

Client Reference: Nil

Dated: 01-11-2022

SOM Lab Ref: CED/SOM/1177(Page-1/1)

Dated: 01-11-2022

Test: Tension Test

Sample Type: Plain Wire (SS)

Gauge Length: 50 mm

S.No.	Measured Diameter	Area	Yield Load	Ultimate Load	Yield Stress	Ultimate. Stress	Elongation	Gauge Length	%age Elongation	Remarks
	mm	mm ²	kN	kN	MPa	MPa	mm	mm	%	
1	6.5	33.18	18.9	24.7	569.57	744.36	15.0	50	30.0	
2	4.5	15.90	9.0	10.7	565.88	672.77	15.0	50	30.0	
3	4.0	12.56	7.5	9.0	596.83	716.20	16.3	50	32.5	
4	3.5	9.62	5.7	7.0	592.45	727.57	12.5	50	25.0	

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine

(Minor Load: 10 Kgf Major Load: 100kgf Scale: B)

Test Results

Sample No.	Sample Type	Diameter	Hardness
1	Plain Wire	6.5	HR – 98.5 –B
2	Plain Wire	4.5	HR – 93.83 –B
3	Plain Wire	4.0	HR – 94.83–B
4	Plain Wire	3.5	HR – 93.16–B

Test Performed by: Asad Ali Gillani

United Wire Industries (Pvt) Ltd.

Admin Manager, Lahore.

Client Reference No.: UWIL/D-1784

Dated: 01-11-2022

SOM Lab Ref: CED/SOM/1182

Dated: 01-11-2022

Test: Tensile Test

Sample Type: H.T Wire.(Pre Stressed Concrete Wire)

Test Specification: ASTM-A – 421

Gauge Length: 50mm

Tension Test Results

Sr. No.	Dia	Area	Yield Load	Ultimate Load	Yield stress	Ultimate stress	Elongation
	(mm)	(mm ²)	KN	KN	(Mpa)	(Mpa)	%
1	4.0	12.56	18.7	22.5	1488.10	1790.49	5.0

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

