

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

**Test Performed By:** Dr. /Engr. Bilal Khokhar

**Client Reference:** Nil  
**SOM Lab Ref:** CED/SOM/760(Page-1/1)

**Dated:** 16-08-2022

**Dated:** 18-08-2022

**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	0.916	12	12.21	113	117	67.00	78.50	592	573	694	671	25.0	200	12.5	
2	0.908	12	12.14	113	116	65.20	74.20	576	564	656	642	22.5	200	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

12mm	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)

Assistant Engineer (Civil)

**Test Performed By:** Dr. /Engr. Bilal Khokhar

GC Uni Fsd.(Const.Of Admin Block, Mini Sports Complex,Residences & External Dev Of GCU FSD)

**Client Reference:** GCUF/EC/273

**SOM Lab**

**Ref:** 759 (Page-1/2)

**Dated:** 11-08-2022

**Dated:** 18-08-2022

**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	2.766	8	1.017	0.79	0.813	29.62	38.23	82700	80360	106720	103700	1.30	8.0	16.3	
2	2.599	8	0.986	0.79	0.764	25.50	34.42	71200	73630	96100	99370	1.50	8.0	18.8	
3	1.481	6	0.744	0.44	0.435	13.07	18.55	65510	66260	92990	94060	1.50	8.0	18.8	
4	1.480	6	0.744	0.44	0.435	13.52	18.52	67750	68530	92840	93910	1.10	8.0	13.8	
5	0.650	4	0.493	0.20	0.191	6.42	8.12	70820	74160	89590	93810	0.90	8.0	11.3	
6	0.666	4	0.500	0.20	0.196	6.60	8.33	72730	74210	91840	93710	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**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)

Assistant Engineer (Civil)

**Test Performed By:** Dr. /Engr. Bilal Khokhar

GC Uni Fsd.(Const.Of One Number Hostel Block Of GCU,Faisalabad At Chinot Campus)

**Client Reference:** GCUF/EC/272

**SOM Lab**

**Ref:** 759 (Page-2/2)

**Dated:** 11-08-2022

**Dated:** 18-08-2022

**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	2.578	8	0.982	0.79	0.758	23.52	33.10	65650	68430	92400	96310	1.40	8.0	17.5	
2	2.593	8	0.985	0.79	0.762	24.26	33.64	67730	70220	93910	97360	1.20	8.0	15.0	
3	1.473	6	0.743	0.44	0.433	13.30	18.45	66680	67760	92480	93980	1.20	8.0	15.0	
4	1.487	6	0.746	0.44	0.437	13.46	18.50	67450	67910	92740	93380	1.40	8.0	17.5	
5	0.658	4	0.496	0.20	0.193	5.93	8.02	65420	67800	88470	91680	1.00	8.0	12.5	
6	0.696	4	0.511	0.20	0.205	7.08	8.94	78130	76220	98580	96180	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**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)

Yasir Ahmad  
GM-Works FF Steel Lahore.

Test Performed By: Dr. /Engr. Bilal Ahmad

Client Reference: Nil

SOM Lab

Ref: 761 (Page-1/1)

Dated: 16-08-2022

Dated: 18-08-2022

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	1.480	6	0.744	0.44	0.435	13.25	18.52	66430	67190	92840	93910	1.20	8.0	15.0	
2	1.471	6	0.742	0.44	0.432	13.40	18.88	67190	68440	94630	96380	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Two 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)

Khalil Ahmad Khoso

Test Performed By: Dr. /Engr. Bilal Khokhar

RE Metroplan-Asian Jv,MCH,Layyah(Estb Of 200 Bedded Mother & Child Hospital(MCH),Layyah)

Client Reference: Metroplan-Asian Jv-MCH-Layyah-RE-112

SOM Lab

Ref: 762 (Page-1/1)

Dated: 15-08-2022

Dated: 18-08-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (AF 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	2.703	8	1.005	0.79	0.794	24.26	34.17	67730	67390	95390	94910	1.30	8.0	16.3	
2	2.714	8	1.008	0.79	0.798	24.28	33.61	67790	67110	93830	92890	1.40	8.0	17.5	
3	2.692	8	1.004	0.79	0.791	24.33	34.00	67930	67850	94910	94790	1.20	8.0	15.0	
4	2.726	8	1.010	0.79	0.801	26.63	36.31	74330	73310	101370	99980	1.30	8.0	16.3	
5	1.518	6	0.754	0.44	0.446	14.09	19.49	70620	69670	97690	96380	1.30	8.0	16.3	
6	1.509	6	0.751	0.44	0.443	13.27	19.03	66530	66080	95400	94750	1.20	8.0	15.0	
7	1.516	6	0.754	0.44	0.446	13.68	19.72	68570	67650	98870	97540	1.20	8.0	15.0	
8	0.657	4	0.496	0.20	0.193	6.47	8.87	71380	73970	97800	101340	1.00	8.0	12.5	
9	0.661	4	0.497	0.20	0.194	6.32	8.56	69700	71850	94420	97340	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

Sr.# (1-4)	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Eighteen Samples Received and Tested
Sr.# (5-7)	Sample bend through 180 degrees Satisfactorily without any crack	
Sr.# (8-9)	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. Mustafa Ali

Test Performed By: Dr. /Engr. Bilal Khokhar

Sr. MC Dream Builders.(Const.Of Apartments Building At 32-P Model Town Ext,Lahore)

Client Reference: DB/CONST-32P/22/818

SOM Lab

Ref: 763 (Page-1/1)

Dated: 18-08-2022

Dated: 18-08-2022

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	1.458	6	0.738	0.44	0.428	15.70	19.62	78690	80890	98360	101120	1.00	8.0	12.5	
2	1.480	6	0.744	0.44	0.435	15.69	19.95	78640	79540	99990	101140	1.00	8.0	12.5	
3	0.650	4	0.493	0.20	0.191	6.14	9.23	67670	70860	101730	106520	1.00	8.0	12.5	
4	0.656	4	0.496	0.20	0.193	6.19	9.38	68230	70710	103420	107170	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**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)

Muhammad Hassan Khan RE

Test Performed By: Dr. /Engr. Bilal Khokhar

NESPAK Ghulab Devi Underpass,Lhr.(Const Of Underpass At GDH And Add Lanes On Lahore Bridge)

Client Reference: 3772/103/GD/RE/05/322

SOM Lab

Ref: 764 (Page-1/1)

Dated: 17-08-2022

Dated: 18-08-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (FF 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	0.658	4	0.496	0.20	0.193	6.03	8.43	66550	68960	92960	96340	1.10	8.0	13.8	
2	0.653	4	0.494	0.20	0.192	6.19	8.51	68230	71080	93860	97770	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**BEND TEST:**

# 4	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)

Muhammad Hassan Khan

Test Performed By:

Dr. /Engr. Nauman Khurram

RE Nespak Lhr.(Const Of Underpass At Ghulab Devi Hospital And Additional Lanes On Lhr Bridge)

Client Reference: 3772/103/GD/RE/05/321

SOM Lab

Ref: 765 (Page-1/1)

Dated: 17-08-2022

Dated: 18-08-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (S.J 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	1.496	6	0.748	0.44	0.440	14.83	20.41	74350	74350	102290	102290	1.50	8.0	18.8	
2	1.495	6	0.748	0.44	0.439	14.93	20.61	74860	75030	103310	103550	1.50	8.0	18.8	
3	0.682	4	0.505	0.20	0.200	7.14	9.40	78690	78690	103640	103640	1.10	8.0	13.8	
4	0.679	4	0.505	0.20	0.200	7.05	9.33	77790	77790	102860	102860	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**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)



Syed Mohsin Ali RE

Test Performed By:

Dr. /Engr. S Asad Ali Gillani

QA/QC Deptt. Bahria Town Lhr. (Water Course At Block D Ext. & Disposal at Cnt Block Bahria Orchard)

Client Reference: QA/QC/Steel/2775

SOM Lab

Ref: 766 (Page-1/1)

Dated: 18-08-2022

Dated: 18-08-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (S.j 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	1.192	6	0.668	0.44	0.350	11.47	14.75	57480	72270	73940	92950	1.20	8.0	15.0	
2	0.622	4	0.483	0.20	0.183	6.63	9.68	73070	79860	106790	116710	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**BEND TEST:**

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

Engr. Tayyab Naseer  
QA/QC Manager Zameen Developments.(Construction Of MALL-35)

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

**Client Reference:** ZD/MALL-35/GSW/01

**SOM Lab**

**Ref:** 767 (Page-1/1)

**Dated:** 18-08-2022

**Dated:** 18-08-2022

**Test:** Tension Test & Bend Test

**Test Specification:**

ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:**

Deformed Bar (Pak 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	1.534	6	0.758	0.44	0.451	13.35	18.30	66940	65300	91720	89480	1.30	8.0	16.3	
2	1.487	5	0.746	0.31	0.437	11.69	15.72	83180	59010	111830	79330	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Two 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)