

Saleem Tahir  
PM ICPL (OMBRé' Holding Pvt Ltd Raiwind, Lahore)

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

**Client Reference:** OMBRe'/Ittefaq/Steel/011  
**SOM Lab Ref:** CED/SOM/1315(Page-1/2)  
**Test:** Tension Test & Bend Test  
**Sample Type:** M S Deformed Bar (Ittefaq Steel)

**Dated:** 24-11-2022  
**Dated:** 28-11-2022  
**Test Specification:** ASTM-A 615  
**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	3.889	25	25.11	491	495	318.90	372.20	650	645	758	752	32.5	200	16.3	
2	3.891	25	25.12	491	496	323.00	384.70	658	652	784	777	35.0	200	17.5	
3	2.426	20	19.84	314	309	179.00	221.20	570	580	704	716	30.0	200	15.0	
4	2.438	20	19.88	314	311	182.00	223.50	579	587	711	720	30.0	200	15.0	
5	1.575	16	15.98	201	201	111.20	140.20	553	555	697	699	35.0	200	17.5	
6	1.579	16	16.00	201	201	106.70	135.00	531	531	671	672	30.0	200	15.0	
7	0.887	12	11.99	113	113	51.70	76.20	457	458	674	675	30.0	200	15.0	
8	0.900	12	12.08	113	115	52.50	77.00	464	458	681	672	27.5	200	13.8	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Twelve Samples Received and Tested
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](http://www.uet-civil.edu.pk)

Saleem Tahir  
 PM ICPL (OMBRé' Holding Pvt Ltd Raiwind,Lahore)

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

**Client Reference:** OMBRe'/Mughal/Steel/012

**Dated:** 24-11-2022

**SOM Lab Ref:** CED/SOM/1315(Page-2/2)

**Dated:** 28-11-2022

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A 615

**Sample Type:** M S Deformed Bar (Mughal 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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.919	25	25.21	491	499	259.00	318.70	528	520	649	639	35.0	200	17.5	
2	3.919	25	25.21	491	499	254.00	318.00	517	509	648	637	32.5	200	16.3	
3	1.552	16	15.87	201	198	99.70	123.70	496	505	615	626	35.0	200	17.5	
4	1.540	16	15.81	201	196	101.00	127.00	502	515	632	648	35.0	200	17.5	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six Samples Received and Tested
16mm	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-Storeed Parking Garage SKMCH&RC,Lhr)

**Client Reference:** SKM/PG/UET/11/19

**SOM Lab**

**Ref:** 1313 (Page-1/1)

**Dated:** 28-11-2022

**Dated:** 28-11-2022

**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	2.709	8	1.007	0.79	0.796	26.40	35.93	73710	73150	100320	99560	1.40	8.0	17.5	
2	2.685	8	1.002	0.79	0.789	24.26	33.89	67730	67820	94620	94740	1.60	8.0	20.0	
3	1.488	6	0.746	0.44	0.437	14.55	19.93	72910	73420	99890	100580	1.50	8.0	18.8	
4	1.509	6	0.751	0.44	0.443	13.78	19.47	69080	68610	97590	96930	1.40	8.0	17.5	
5	0.644	4	0.491	0.20	0.189	5.83	8.21	64300	68040	90490	95760	1.40	8.0	17.5	
6	0.654	4	0.494	0.20	0.192	6.12	8.41	67450	70260	92740	96600	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)

Zahid Hameel, Dir

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

Technical Associates Pakistan (Pvt) Ltd.(Const Of New Cardiac Center Within SZMC at R.Y.Khan)

Client Reference: HO/TAPL-NCC/11036

SOM Lab

Ref: 1314 (Page-1/1)

Dated: 25-11-2022

Dated: 28-11-2022

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	2.100	7	0.886	0.60	0.617	17.91	28.19	65840	64020	103600	100750	1.20	8.0	15.0	
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**BEND TEST:**

# 7	Sample bend through 180 degrees Satisfactorily without any crack	<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)

Umair Ahmad  
Project Manager. DHA Gujranwala. (Sector C)

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

Client Reference: 111/15/PE/RS/Pkg- 2A/842

SOM Lab

Ref: 1317 (Page-1/1)

Dated: 17-11-2022

Dated: 28-11-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Nomee 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	2.610	8	0.988	0.79	0.767	28.34	36.65	79120	81490	102310	105380	1.40	8.0	17.5	
2	2.609	8	0.988	0.79	0.767	27.98	36.31	78120	80460	101370	104410	1.50	8.0	18.8	
3	1.511	6	0.752	0.44	0.444	15.06	19.83	75470	74790	99380	98490	1.20	8.0	15.0	
4	1.513	6	0.753	0.44	0.445	14.93	19.95	74860	74020	99990	98870	1.10	8.0	13.8	
5	0.675	4	0.502	0.20	0.198	5.76	8.72	63510	64160	96110	97080	1.30	8.0	16.3	
6	0.673	4	0.502	0.20	0.198	6.29	9.38	69360	70060	103420	104460	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)

Sub Divisional officer,

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

BSD No.15,Lhr.(Addition/Alteration To Lhr High Court Lahore,Const Of Main Drain For Storm Water)

**Client Reference:** 2311

**SOM Lab**

**Ref:** 1318 (Page-1/1)

**Dated:** 22-11-2022

**Dated:** 28-11-2022

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.672	4	0.501	0.20	0.197	5.35	8.15	59020	59920	89930	91300	1.20	8.0	15.0	
2	0.671	4	0.501	0.20	0.197	5.30	8.15	58460	59350	89930	91300	1.30	8.0	16.3	
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**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)

Asif Pervaiz Butt  
RE Ritz Developers Pvt. Ltd.

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

Client Reference: Nil  
Dated: 28-11-2022  
Test: Tension Test & Bend Test  
Gauge Length: 8 inch

SOM Lab  
Ref: 1319 (Page-1/1)  
Dated: 28-11-2022  
Test Specification: ASTM-A-615  
Sample Type: Deformed Bar (Kamran 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	2.689	8	1.003	0.79	0.790	26.42	34.07	73770	73770	95110	95110	1.30	8.0	16.3	
2	2.686	8	1.002	0.79	0.789	25.43	35.19	71000	71090	98240	98360	1.40	8.0	17.5	
3	2.650	8	0.996	0.79	0.779	24.06	31.91	67160	68110	89070	90330	1.40	8.0	17.5	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Four 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)

Test Performed by: Dr.S.Asad Ali Gillani

Muhammad Ali,  
M/S Super Horse. (Horse Riding Aluminum Stirrups Used by Riders)

Client Reference No.: Nil

Dated: 28-11-2022

SOM Lab Ref: CED/SOM/1316 (Page 1/1)

Dated: 28-11-2022

Test Type: Load Test

Sample Type: Aluminum Stirrups

### Load Test Results

Sample No.	Sample Type		Ultimate Breaking Load (kN)	Ultimate Breaking Load (Kg)	Remarks
1	Aluminum Stirrups (7g)	L	5.0	510	Aluminum Stirrup Breaks from the top end
		R	5.85	596	Aluminum Stirrup Breaks from the top end
2	Aluminum Stirrups (9g)	L	5.60	571	Aluminum Stirrup Breaks from the top end
		R	5.70	581	Aluminum Stirrup Breaks from the Bottom part
3	Aluminum Stirrups (7g)	L	5.05	515	Aluminum Stirrup Breaks from the top end
		R	5.35	545	Aluminum Stirrup Breaks from the top end
4	Aluminum Stirrups (9g)	L	4.20	428	Aluminum Stirrup Breaks from the top end
		R	4.45	454	Aluminum Stirrup Breaks from the top end



