

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

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

**Client Reference:** OMBRe'/Mughal/Steel/010

**Dated:** 24-10-2022

**SOM Lab Ref:** CED/SOM/1148(Page-1/1)

**Dated:** 26-10-2022

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A 615

**Sample Type:** M S Deformed Bar (Ittefaq 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	3.866	25	25.03	491	492	251.00	332.20	511	511	677	676	35.0	200	17.5	
2	3.792	25	24.80	491	483	280.50	352.50	571	581	718	730	32.5	200	16.3	
3	2.383	20	19.66	314	304	189.50	223.70	603	625	712	737	25.0	200	12.5	
4	2.382	20	19.66	314	303	186.70	224.50	594	616	715	740	27.5	200	13.8	
5	1.515	16	15.68	201	193	112.50	137.20	560	583	682	711	25.0	200	12.5	
6	1.553	16	15.87	201	198	119.20	144.50	593	603	719	731	25.0	200	12.5	
7	0.903	12	12.10	113	115	52.70	75.20	466	458	665	654	32.5	200	16.3	
8	0.902	12	12.09	113	115	52.20	75.00	462	455	663	653	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 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)

Beacon Impex II

Test Performed By:

Dr. /Engr. Nauman Khurram

Faisalabad.(Const Of Multi Storey Polyester Building at Beacon Impex II)

Client Reference: Nil

SOM Lab

Ref: 1144 (Page-1/1)

Dated: 24-10-2022

Dated: 26-10-2022

Test: Tension Test &amp; Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Mehran Metro)

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	2.624	8	0.991	0.79	0.771	21.41	32.82	59760	61240	91640	93890	1.30	8.0	16.3	
2	2.621	8	0.990	0.79	0.770	19.16	29.94	53500	54890	83580	85750	1.50	8.0	18.8	
3	1.442	6	0.735	0.44	0.424	10.88	16.82	54520	56580	84310	87490	1.60	8.0	20.0	
4	1.474	6	0.743	0.44	0.433	11.16	17.09	55950	56860	85690	87070	1.30	8.0	16.3	
5	1.029	5	0.620	0.31	0.302	7.95	11.23	56570	58070	79920	82040	1.00	8.0	12.5	
6	1.031	5	0.621	0.31	0.303	7.90	12.35	56210	57510	87900	89930	1.00	8.0	12.5	
7	0.665	4	0.498	0.20	0.195	4.33	6.90	47780	49000	76100	78050	1.00	8.0	12.5	
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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

# 5 Sample bend through 180 degrees Satisfactorily without any crack

**Note:-**Only Ten Samples  
Received and TestedNote: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Manzoor Arshraf

Test Performed By:

Dr. /Engr. Nauman Khurram

PM Zoli International Pvt Ltd,Lahore.(Const Of Zoli International (Pvt.) Ltd.Defence Road Lahore)

Client Reference: Zoli/MT/PUR/1019

SOM Lab

Ref: 1145 (Page-1/1)

Dated: 24-10-2022

Dated: 26-10-2022

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	2.711	8	1.007	0.79	0.797	17.69	29.33	49380	48940	81880	81160	1.50	8.0	18.8	
2	2.709	8	1.007	0.79	0.796	17.99	29.53	50230	49850	82440	81820	1.60	8.0	20.0	
3	1.538	6	0.759	0.44	0.452	11.52	18.42	57740	56210	92330	89880	1.50	8.0	18.8	
4	1.544	6	0.760	0.44	0.454	11.47	18.55	57480	55710	92990	90130	1.50	8.0	18.8	
5	0.681	4	0.505	0.20	0.200	5.68	8.89	62610	62610	98020	98020	1.40	8.0	17.5	
6	0.678	4	0.503	0.20	0.199	5.71	8.82	62950	63270	97230	97720	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 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)

Muddasir Ali  
Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 1146 (Page-1/1)

Dated: 26-10-2022

Dated: 26-10-2022

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	2.044	7	0.875	0.60	0.601	19.22	26.57	70630	70510	97680	97520	1.50	8.0	18.8	
2	0.672	4	0.501	0.20	0.197	6.37	8.66	70260	71330	95550	97000	1.30	8.0	16.3	
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**BEND TEST:**

# 7	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)

Shakeel Ahmad  
Khikhar, DSP/PSO

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

DSP/PSO for Dir/Dy Inspector General Of Police, SPU Punjab, Lahore. (SPU H/Q at Ladhiekey Uchey)

**Client Reference:** 22008/BC/SPU

**SOM Lab**

**Ref:** 1147 (Page-1/1)

**Dated:** 26-10-2022

**Dated:** 26-10-2022

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar (Ittafaq 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	2.666	8	0.998	0.79	0.783	19.62	29.82	54780	55270	83240	83990	1.70	8.0	21.3	
2	2.692	8	1.004	0.79	0.791	19.44	29.46	54270	54200	82250	82140	1.50	8.0	18.8	
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**BEND TEST:**

# 8	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)

Abdul Rehman  
O.K. International,Lahore.(Agroo Tree Life Science Pvt.Ltd)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 1149 (Page-1/1)

Dated: 26-10-2022

Dated: 26-10-2022

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	2.595	8	0.986	0.79	0.763	25.81	33.23	72060	74610	92770	96060	1.30	8.0	16.3	
2	2.590	8	0.984	0.79	0.761	25.94	33.49	72430	75190	93490	97050	1.60	8.0	20.0	
3	1.478	6	0.743	0.44	0.434	15.06	19.54	75470	76510	97950	99300	1.10	8.0	13.8	
4	1.490	6	0.747	0.44	0.438	15.24	19.67	76390	76740	98610	99060	1.40	8.0	17.5	
5	0.665	4	0.498	0.20	0.195	6.17	8.53	68010	69750	94090	96500	1.50	8.0	18.8	
6	0.662	4	0.498	0.20	0.195	6.14	8.41	67670	69410	92740	95120	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)

Ansar Ali  
Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 1151 (Page-1/1)

Dated: 26-10-2022

Dated: 26-10-2022

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	1.487	6	0.746	0.44	0.437	16.28	20.23	81600	82160	101420	102120	1.10	8.0	13.8	
2	1.547	6	0.761	0.44	0.455	18.17	22.22	91050	88050	111390	107720	1.30	8.0	16.3	
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**BEND TEST:**

# 6	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)

M.Asam Zahid  
Salman & Salman Associates,Lahore.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 1150,52 (Page-1/1)

Dated: 26-10-2022

Dated: 26-10-2022

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	2.585	8	0.984	0.79	0.760	25.10	32.82	70070	72830	91640	95250	1.30	8.0	16.3	
2	1.503	6	0.750	0.44	0.442	14.39	18.65	72150	71820	93510	93080	1.60	8.0	20.0	
3	0.672	4	0.501	0.20	0.197	6.75	8.66	74420	75550	95550	97000	1.10	8.0	13.8	
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**BEND TEST:**

--	No Bend test performed	<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 Shahbaz  
Imperium Hospitality (Pvt) Ltd. Lahore.

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

Client Reference: IHPL/Steel/222

SOM Lab

Ref: 1153 (Page-1/3)

Dated: 20-10-2022

Dated: 26-10-2022

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	2.619	8	0.990	0.79	0.770	25.13	36.09	70150	71970	100740	103360	1.30	8.0	16.3	
2	2.634	8	0.993	0.79	0.774	24.69	36.24	68930	70350	101170	103260	1.20	8.0	15.0	
3	2.642	8	0.994	0.79	0.776	25.56	36.97	71350	72630	103220	105080	1.30	8.0	16.3	
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Witnessed By: Engr. Ali Hussnain Khan (K.B) ,Engr.Rafi Ullah Bajwa

**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Five Samples Received and Tested
# 8	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 Shahbaz  
Imperium Hospitality (Pvt) Ltd. Lahore.

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

Client Reference: IHPL/Steel/223  
Dated: 20-10-2022  
Test: Tension Test & Bend Test  
Gauge Length: 8 inch

SOM Lab  
Ref: 1153 (Page-2/3)  
Dated: 26-10-2022  
Test Specification: ASTM-A-615  
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	1.522	6	0.754	0.44	0.447	16.72	21.27	83800	82490	106640	104970	1.20	8.0	15.0	
2	1.474	6	0.743	0.44	0.433	15.90	20.66	79710	81000	103570	105240	1.10	8.0	13.8	
3	1.486	6	0.746	0.44	0.437	15.97	20.64	80070	80620	103470	104180	1.10	8.0	13.8	
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Witnessed By: Engr. Ali Hussnain Khan (K.B) ,Engr.Rafi Ullah Bajwa

**BEND TEST:**

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

Muhammad Shahbaz  
Imperium Hospitality (Pvt) Ltd. Lahore.

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

Client Reference: IHPL/Steel/224  
Dated: 20-10-2022  
Test: Tension Test & Bend Test  
Gauge Length: 8 inch

SOM Lab  
Ref: 1153 (Page-3/3)  
Dated: 26-10-2022  
Test Specification: ASTM-A-615  
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	6.75	9.04	74420	75550	99710	101230	1.10	8.0	13.8	
2	0.665	4	0.498	0.20	0.195	6.44	8.92	71040	72870	98360	100880	1.20	8.0	15.0	
3	0.671	4	0.501	0.20	0.197	6.54	8.82	72170	73270	97230	98720	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: Engr. Ali Hussnain Khan (K.B) ,Engr.Rafi Ullah Bajwa

**BEND TEST:**

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

Metroplan-Asian Jv

Test Performed By: Dr. /Engr. Nauman Khurram

RE Metroplan-Asian Jv.(Hazrat Hameed-ud-Din Haakim Surgical Complex,Sheikh Zayed MCH R.Y.K)

Client Reference: RE/HHHSC/AsCE/UET/07

SOM Lab

Ref: 1154 (Page-1/1)

Dated: 24-10-2022

Dated: 26-10-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Agha 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	1.510	6	0.752	0.44	0.444	15.16	19.08	75980	75300	95650	94790	1.40	8.0	17.5	
2	1.508	6	0.751	0.44	0.443	14.42	18.96	72300	71810	95040	94390	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**BEND TEST:**

# 6	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)