

Khalid Bashir

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Ittefaq Building Solution (Pvt) Ltd. Lahore (Project Name: McDonalds Restaurant DHA Rehbar)

Client Reference: IBS/MCRehbar/ST02

Dated: 18-01-2021

SOM Lab Ref: CED/SOM/3671 (Page-1/1)

Dated: 18-01-2021

Test: Tension Test Bend Test

Test Specification: ASTM-F-1554

Sample Type: M S 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	3.990	25	25.43	491	508	261.20	346.50	532	515	706	683	32.5	200	16.3	
2	2.215	20	18.95	314	282	133.70	183.00	426	474	583	649	32.5	200	16.3	
3	1.578	16	16.00	201	201	102.50	142.50	510	511	709	710	32.5	200	16.3	
4	0.969	12	12.54	113	123	62.50	83.90	553	507	742	680	35.0	200	17.5	
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**BEND TEST:**

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

Project Manager

Test Performed By: Dr. /Engr.

Nauman Khurram

Construction of Residence for Mr. Asif Jamal at Plot No. 1034, Sector K DHA Lahore

Client Reference: Nil

SOM Lab

Ref: 3661(Page-1/1)

Dated: 15-01-2021

Dated: 18-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	1.474	6	0.743	0.44	0.433	13.88	18.37	69590	70720	92070	93560	1.40	8.0	17.5	
2	1.475	6	0.743	0.44	0.433	13.81	18.17	69240	70360	91050	92520	1.30	8.0	16.3	
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**BEND TEST:**

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

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

Jamil Waris  
Imperium Hospitality (Pvt) Ltd. Lahore

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

Client Reference: IHPL/Steel/040

SOM Lab  
Ref: 3662(Page-1/1)

Dated: 12-01-2021

Dated: 18-01-2021

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	1.539	6	0.759	0.44	0.452	14.09	20.36	70620	68740	102040	99330	1.20	8.0	15.0	
2	1.525	6	0.755	0.44	0.448	14.09	20.41	70620	69350	102290	100470	1.30	8.0	16.3	
3	1.544	6	0.760	0.44	0.454	14.32	20.69	71790	69580	103720	100530	1.10	8.0	13.8	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Four Samples Received and Tested</b>

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. S. Asad Ali Gillani

Client Reference: IHPL/Steel/037

SOM Lab  
Ref: 3663(Page-1/1)

Dated: 08-01-2021

Dated: 18-01-2021

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	0.655	4	0.494	0.20	0.192	6.65	9.50	73290	76350	104770	109130	1.00	8.0	12.5	
2	0.679	4	0.505	0.20	0.200	8.23	10.40	90720	90720	114660	114660	0.80	8.0	10.0	
3	0.673	4	0.502	0.20	0.198	7.65	9.99	84310	85160	110160	111270	0.90	8.0	11.3	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Four Samples Received and Tested</b>

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

Jamil Waris  
Imperium Hospitality (Pvt) Ltd. Lahore

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

Client Reference: IHPL/Steel/038

SOM Lab  
Ref: 3664(Page-1/1)

Dated: 12-01-2021

Dated: 18-01-2021

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	2.640	8	0.994	0.79	0.776	24.94	37.00	69640	70900	103300	105170	1.30	8.0	16.3	
2	2.604	8	0.987	0.79	0.765	24.79	36.54	69210	71470	102020	105360	1.20	8.0	15.0	
3	2.622	8	0.991	0.79	0.771	24.77	36.82	69160	70860	102790	105320	1.30	8.0	16.3	
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**BEND TEST:**

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

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

Sajjad Ali Memon  
Resident Engineer, Pillar & Sons, DHA Multan

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: P&S/OTH/GEN/00012

SOM Lab

Ref: 3665(Page-1/1)

Dated: 15-01-2021

Dated: 18-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	22.22	29.99	62040	63650	83730	85900	1.60	8.0	20.0	
2	2.655	8	0.997	0.79	0.780	22.78	30.70	63610	64420	85720	86820	1.40	8.0	17.5	
3	1.480	6	0.744	0.44	0.435	13.50	21.33	67650	68430	106890	108120	1.30	8.0	16.3	
4	1.494	6	0.748	0.44	0.439	13.78	21.41	69080	69240	107300	107540	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>  <b>Only Six Samples Received and Tested</b>
# 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)

M/S AA & Associates  
295-Q, Commercial Area, DHA, Lahore

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

Client Reference: nil  
Dated: 18-01-2021

SOM Lab  
Ref: 3668(Page-1/1)  
Dated: 18-01-2021

Test: Tension Test & Bend Test Test Specification:

ASTM-A-615  
Deformed  
Bar

Gauge Length: 8 inch Sample Type:

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	2.608	8	0.988	0.79	0.766	23.31	33.00	65090	67120	92120	95010	1.50	8.0	18.8	
2	1.487	6	0.746	0.44	0.437	15.60	19.98	78180	78710	100150	100830	1.10	8.0	13.8	
3	0.672	4	0.501	0.20	0.197	7.21	8.92	79470	80690	98360	99860	1.20	8.0	15.0	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:- Only Six Samples Received and Tested</b>
# 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)

M/S A A & Associates

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

Real Estate, Construction Interior Works, Const. Supplies & Project Management, D H A Lahore

Client Reference: nil

SOM Lab

Ref: 3668(Page-1/1)

Dated: 18-01-2021

Dated:

18-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	2.608	8	0.988	0.79	0.766	23.31	33.00	65090	67120	92120	95010	1.50	8.0	18.8	
2	1.487	6	0.746	0.44	0.437	15.60	20.05	78180	78710	100500	101190	1.10	8.0	13.8	
3	0.672	4	0.501	0.20	0.197	7.21	8.92	79470	80690	98360	99860	1.20	8.0	15.0	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  <b>Only Six Samples Received and Tested</b>
# 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)



Zain ul Hassan  
Assist Manager, Cotton Web Ltd.

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

Client Reference: nil

SOM Lab

Ref: 3669(Page-1/1)

Dated: 18-01-2021

Dated: 18-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	1.525	6	0.755	0.44	0.448	17.79	21.56	89160	87570	108070	106140	1.10	8.0	13.8	
2	1.526	6	0.755	0.44	0.448	17.76	21.61	89010	87420	108320	106390	1.00	8.0	12.5	
3	0.664	4	0.498	0.20	0.195	7.46	9.23	82290	84390	101730	104340	1.00	8.0	12.5	
4	0.666	4	0.500	0.20	0.196	7.49	9.28	82620	84310	102290	104380	1.10	8.0	13.8	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:- Only Six Samples Received and Tested</b>
# 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)

M/S Abbas Co. Enterprises  
Islamabad

Test Performed By: Dr. /Engr.

S. Asas Ali  
Gillani

Client Reference: nil

SOM Lab

Ref: 3670 (Page-1/1)

Dated: 18-01-2021

Dated: 18-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	1.521	6	0.754	0.44	0.447	15.04	18.67	75370	74190	93610	92140	1.30	8.0	16.3	
2	1.581	6	0.769	0.44	0.465	15.39	18.91	77160	73010	94780	89690	1.40	8.0	17.5	
3	0.669	4	0.501	0.20	0.197	5.63	8.31	62050	63000	91610	93010	1.50	8.0	18.8	
4	0.665	4	0.498	0.20	0.195	5.66	8.33	62390	63990	91840	94190	1.60	8.0	20.0	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  <b>Only Six Samples Received and Tested</b>
# 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)

Test Performed by: Dr. Asad Ali Gillani

General Manager  
United Wire Products Co.  
G. T. Road Salamatpura Bus Stop.Lahore

Client Reference No.: Nil

Dated: 18-01-2021

SOM Lab Ref: CED/SOM/3672 (Page 1/2)

Dated: 18-01-2021

Test Type: Tensile Test

Sample Type: Hot Dip Wire (SWG-16)

#### Tensile Test Results

Sample No.	Sample Type	Sample Dia (mm)	Ultimate Load (kN)	Ultimate Tensile Strength (MPa)	Ultimate Tensile Stress (ksi)
1	Hot Dip Wire SWG-16	1.6	0.5	248	35.94

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

Test Performed by: Dr. Asad Ali Gillani

General Manager  
United Wire Products Co.  
G. T. Road Salamatpura Bus Stop.Lahore

Client Reference No.: Nil

Dated: 18-01-2021

SOM Lab Ref: CED/SOM/3672 (Page 2/2)

Dated: 18-01-2021

Test Type: Tensile Test

Sample Type: Hot Dip Wire (SWG-16)

**Tensile Test Results**

Sample No.	Sample Type	Sample Dia (mm)	Ultimate Load (kN)	Ultimate Tensile Strength (MPa)	Ultimate Tensile Stress (ksi)
1	Hot Dip Wire SWG-16	1.6	0.5	248	35.94

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