

**Test Performed by:** S. Asad Ali Gillani

Metal House  
67-D-1, Gulberg III, Lahore.

**Client Reference No.:** Nil

Dated: 25-06-2024

**SOM Lab Ref:** CED/SOM/4346 (Page 1/1)

Dated:26-06-2024

**Test Type:** Tensile Test

**Sample Type:** Aluminum "C" Channel

**Gauge Length:** 2 inches

**Tensile Test Results**

<b>Sr. No</b>	<b>Sample Type</b>	<b>Size of strip (mm)</b>	<b>X Section Area (mm<sup>2</sup>)</b>	<b>Yield Load (kN)</b>	<b>Ultimate Load (kN)</b>	<b>Yield Stress (MPa)</b>	<b>Ultimate Tensile Stress (MPa)</b>	<b>Elongation (inch)</b>	<b>% Elongation</b>
1	C Channel (New)	22.2 x 3.8	84.36	15.00	19.20	177.81	227.60	0.30	15.00
2	C Channel (old)	22.9 x 3.8	87.02	16.20	21.20	186.16	243.62	0.30	15.00

Allied Bank

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

Unit Head PMO ABL-UML-P#199-200.(Const Of ABL Upper Mall Lahore Plot No 199,200)

Client Reference: ABL-UML-AMC-QAQC-83

SOM Lab

Ref: 4345 (Page-1/1)

Dated: 24-06-2024

Dated: 25-06-2024

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	2.696	8	1.004	0.79	0.792	26.10	34.32	72850	72670	95820	95580	1.50	8.0	18.8	
2	2.638	8	0.993	0.79	0.775	27.42	34.15	76550	78040	95340	97180	1.40	8.0	17.5	
3	1.462	6	0.740	0.44	0.430	13.97	18.65	70000	71630	93510	95680	1.30	8.0	16.3	
4	1.481	6	0.744	0.44	0.435	14.22	18.98	71280	72100	95140	96230	1.20	8.0	15.0	
5	0.997	5	0.611	0.31	0.293	9.53	12.79	67810	71740	91020	96300	1.30	8.0	16.3	
6	1.021	5	0.618	0.31	0.300	9.94	13.20	70710	73070	93920	97050	1.30	8.0	16.3	
7	0.659	4	0.497	0.20	0.194	5.98	8.21	65990	68030	90490	93290	1.20	8.0	15.0	
8	0.659	4	0.497	0.20	0.194	6.12	8.26	67450	69530	91050	93870	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 Twelve Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 5	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)

ITTEFAQ

Test Performed By:

Dr. /Engr. Irfan Ul Hassan

Building Solution Pvt Ltd.(Project: Learning Alliance School)

Client Reference: Nil

SOM Lab

Ref: 4347 (Page-1/1)

Dated: 25-06-2024

Dated: 25-06-2024

Test: Tension Test &amp; 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	2.612	8	0.989	0.79	0.768	24.67	39.88	68870	70840	111330	114520	1.10	8.0	13.8	
2	1.465	6	0.741	0.44	0.431	12.92	20.76	64740	66090	104080	106250	1.30	8.0	16.3	
3	0.679	4	0.505	0.20	0.200	5.91	8.92	65200	65200	98360	98360	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>  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](http://www.uet-civil.edu.pk)