

Test Performed by: .S. Asad Ali Gillani

Aamir UI Hassan  
Project Manager  
Techno Time Construction Pvt Ltd Islamabad.

Client Reference No.: UHS/Works-25/1852

Dated: 01-08-2025

SOM Lab Ref: CED/SOM/1738 (Page 1/1)

Dated: 05-09-2025

Test Type: Hardness Test

**Hardness Test Details:**

**Machine used: Avery Rockwell Hardness Testing Machine**

(Minor Load: 10 KgfMajor Load: 60.0 kgf Scale: A)

**Hardness Test Results**

Sample No.	Sample Type	Hardness avg
1	Aluminum Frame (Jinnah Campus)	HR – 15.0– A
2	Aluminum Frame (City Campus)	HR – 15.3– A

**Hardness Test Details:**

**Machine used: Avery Rockwell Hardness Testing Machine**

(Minor Load: 10 KgfMajor Load: 90.0 kgf Scale: B)

**Hardness Test Results**

Sample No.	Sample Type	Hardness avg
1	MS Girder (Jinnah Campus)	HR – 84.0– B

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

Resident Engineer

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

JERS Consultancy (Pvt) Ltd. PWWF Phase-II.(Estb of Workers Welfare Complex,Distt Kasur)

Client Reference: PWWF-P-II-Sunder/J-02

SOM Lab

Ref: 1736 (Page-1/1)

Dated: 04-09-2025

Dated: 05-09-2025

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (SJ 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	1.446	6	0.736	0.44	0.425	16.38	19.29	82110	85010	96670	100080	1.20	8.0	15.0	
2	1.444	6	0.735	0.44	0.424	16.84	19.59	84410	87600	98210	101910	1.30	8.0	16.3	
3	0.682	4	0.505	0.20	0.200	6.80	9.30	74980	74980	102520	102520	1.10	8.0	13.8	
4	0.683	4	0.506	0.20	0.201	6.95	9.43	76660	76280	103980	103460	1.00	8.0	12.5	
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Witnessed By: S/I Ameer (Jers Consultancy)

**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)

Resident Engineer

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

JERS Consultancy (Pvt) Ltd. PWWF Phase-II.(Estb of Workers Welfare Complex,Distt Kasur)

Client Reference: PWWF-P-II-Sunder/L-02

SOM Lab

Ref: 1737 (Page-1/1)

Dated: 04-09-2025

Dated: 05-09-2025

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ASTM-A-615

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	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.514	6	0.753	0.44	0.445	15.70	18.67	78690	77800	93610	92560	1.30	8.0	16.3	
2	1.497	6	0.748	0.44	0.440	15.95	18.86	79970	79970	94530	94530	1.30	8.0	16.3	
3	0.682	4	0.505	0.20	0.200	6.75	9.38	74420	74420	103420	103420	1.10	8.0	13.8	
4	0.690	4	0.508	0.20	0.203	6.70	9.28	73850	72760	102290	100780	0.90	8.0	11.3	
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