

Sana Miraj (Lead Engineer)
Building Standards Ltd Lahore.

Test Performed By: Dr. /Engr. Irfan UI Hassan

Client Reference: BS/250827-028

SOM Lab Ref:

1702(Page-1/2)

Dated: 27-08-2025

Dated:

28-08-2025

Test: Tension Test

Test Specification:

ASTM-A-615

Guage Length: 200 mm

Sample Type:

MS 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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.972	12	12.57	113	124	73.00	90.50	646	589	801	730	22.5	200	11.3	
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BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Sana Miraj (Lead Engineer)
Building Standards Ltd Lahore.

Test Performed By: Dr. /Engr. Irfan Ul Hassan

Client Reference: BS/250827-029

Dated: 27-08-2025

Test: Tension Test

Gauge Length: 200 mm

SOM Lab Ref:

Dated:

ASTM-A-615

MS Deformed Bar

1702(Page-
2/2)

28-08-2025

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.167	20	18.75	314	276	143.50	186.20	457	520	593	675	30.0	200	15.0	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Assistant Executive Engineer
Pakistan Railways Wazirabad.

Test Performed By: Dr. /Engr. Irfan UI Hassan

Client Reference: W/3
Dated: 21-08-2025

SOM Lab
Ref: 1700 (Page-1/1)
Dated: 28-08-2025

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
Sample Type: Def. 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.662	4	0.498	0.20	0.195	7.82	9.19	86220	88430	101390	103990	1.10	8.0	13.8	
2	0.663	4	0.498	0.20	0.195	7.90	9.30	87120	89350	102520	105150	1.00	8.0	12.5	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Memar Associates
Canal Road Faisalabad.(UBL Wapda City)

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

Client Reference: Memar/UBL/WC-01

SOM Lab

Ref: 1704 (Page-1/1)

Dated: 27-08-2025

Dated: 28-08-2025

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Def. 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.708	8	1.007	0.79	0.796	25.05	34.10	69920	69400	95190	94480	1.40	8.0	17.5	
2	2.711	8	1.007	0.79	0.797	24.28	33.54	67790	67190	93630	92810	1.50	8.0	18.8	
3	1.475	6	0.743	0.44	0.433	13.35	18.76	66940	68020	94020	95540	1.30	8.0	16.3	
4	1.471	6	0.742	0.44	0.432	13.35	18.76	66940	68180	94020	95760	1.30	8.0	16.3	
5	0.675	4	0.502	0.20	0.198	5.86	8.25	64640	65290	90940	91860	1.30	8.0	16.3	
6	0.675	4	0.502	0.20	0.198	5.98	8.31	65990	66650	91610	92540	1.40	8.0	17.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Ghulam Abbas, XEN

Test Performed By: Dr. /Engr. Nauman Khurram

GE(Army)-II LRC.(Const Of 8xE Type Flats Block No.2 at PMAD Colony Lahore)

Client Reference: 6003/36/E6

SOM Lab

Ref: 1705 (Page-1/1)

Dated: 18-08-2025

Dated: 28-08-2025

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.500	6	0.749	0.44	0.441	12.15	19.64	60910	60770	98460	98240	1.60	8.0	20.0	
2	1.493	6	0.748	0.44	0.439	12.18	19.47	61060	61200	97590	97810	1.60	8.0	20.0	
3	1.048	5	0.626	0.31	0.308	10.32	16.08	73390	73870	114370	115110	1.10	8.0	13.8	
4	1.049	5	0.626	0.31	0.308	10.40	16.16	73970	74450	114950	115690	1.20	8.0	15.0	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 5	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