

Kashif Shahzad
 Manager-Technical Gharibwal Cement Ltd.Lahore

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

Client Reference: GCL/Purchase/UET/016
SOM Lab Ref: CED/SOM/1740-1745 (P-1/1)

Dated: 05-09-2025
Dated: 08-09-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: 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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.882	25	25.08	491	494	245.20	357.20	500	497	728	724	35.0	200	17.5	sample # 1
2	3.857	25	25.01	491	491	245.70	358.00	501	501	729	729	35.0	200	17.5	sample # 2
3	3.872	25	25.06	491	493	224.70	377.50	458	456	769	766	25.0	200	12.5	sample # 3
4	3.877	25	25.08	491	494	222.00	376.50	452	450	767	763	32.5	200	16.3	sample # 4
5	3.852	25	25.00	491	491	224.00	378.50	456	457	771	772	32.5	200	16.3	sample # 5
6	3.879	25	25.08	491	494	248.00	358.00	505	502	729	725	35.0	200	17.5	sample # 6
7	3.870	25	25.05	491	493	221.00	376.50	450	449	767	764	32.5	200	16.3	sample # 7
8	3.860	25	25.02	491	492	221.00	376.50	450	450	767	766	32.5	200	16.3	sample # 8
9	3.858	25	25.02	491	492	221.00	376.50	450	450	767	766	32.5	200	16.3	sample # 9
10	3.849	25	24.99	491	490	243.00	355.20	495	496	724	725	30.0	200	15.0	sample # 10

Witnessed By: Aftab Iqbal (Manager Project,Head GCL),Kashif Shahzad (Manager Tech, GCL),Mudassar Maqsood (Aziz Steel)

BEND TEST:

--	No Bend test performed	Note:- Only Ten Samples Received and Tested

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

Engr. Abdullah

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

P & C Engineer Ittefaq Building Solution Pvt Ltd.(AM International, Raiwind Road Lahore)

Client Reference: Nil

SOM Lab

Ref: 1741 (Page-1/3)

Dated: 08-09-2025

Dated: 08-09-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Aziz 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	0.671	4	0.501	0.20	0.197	5.86	8.72	64640	65620	96110	97570	1.10	8.0	13.8	
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BEND TEST:

# 4	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

Engr. Abdullah

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

P & C Engineer Ittefaq Building Solution Pvt Ltd.(AM International, Raiwind Road Lahore)

Client Reference: Nil

SOM Lab

Ref: 1741 (Page-2/3)

Dated: 08-09-2025

Dated: 08-09-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Aziz 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	1.451	6	0.736	0.44	0.426	12.01	17.02	60190	62170	85330	88130	1.30	8.0	16.3	
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BEND TEST:

# 6	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

Engr. Abdullah

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

P & C Engineer Ittefaq Building Solution Pvt Ltd.(AM International, Raiwind Road Lahore)

Client Reference: Nil

SOM Lab

Ref: 1741 (Page-3/3)

Dated: 08-09-2025

Dated: 08-09-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Aziz 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	2.609	8	0.988	0.79	0.767	23.39	31.69	65310	67270	88480	91130	1.30	8.0	16.3	
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BEND TEST:

# 8	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

Noor UI Huda

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

Professional Construction Services (Pvt) Ltd.(Academic Block,Admission & Marketing Office,Namal Uni Mainwali)

Client Reference: PCS/25/Eng-68-B

SOM Lab

Ref: 1742 (Page-1/1)

Dated: 05-09-2025

Dated: 08-08-2025

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	1.484	6	0.745	0.44	0.436	14.32	19.67	71790	72450	98610	99520	1.20	8.0	15.0	
2	1.470	6	0.742	0.44	0.432	13.91	19.34	69750	71040	96930	98720	1.20	8.0	15.0	
3	0.672	4	0.501	0.20	0.197	6.24	8.36	68800	69840	92180	93580	1.20	8.0	15.0	
4	0.665	4	0.498	0.20	0.195	6.17	8.28	68010	69750	91280	93620	1.50	8.0	18.8	
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BEND TEST:

--	No Bend test performed	Note:- Only Four Samples Received and Tested

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

Engr.Saad Siddiqui

Test Performed By: Dr. /Engr. Nauman Khurram

Sr.M P&D Alkhidmat Foundation Pakistan.(Const of Alkhidmat Saeeda Niaz Hospital Shadiwal Gujrat)

Client Reference: AKFP-D-2587

SOM Lab

Ref: 1743 (Page-1/1)

Dated: 30-08-2025

Dated: 08-09-2025

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	2.673	8	1.000	0.79	0.786	25.10	34.22	70070	70420	95530	96020	1.60	8.0	20.0	
2	1.494	6	0.748	0.44	0.439	14.50	20.25	72660	72820	101530	101760	1.00	8.0	12.5	
3	0.647	4	0.492	0.20	0.190	6.78	8.38	74750	78690	92400	97260	1.00	8.0	12.5	
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BEND TEST:

--	No Bend test performed	Note:- Only Three Samples Received and Tested

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

Khalid Bashir

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Ittefaq Building Solution Pvt Ltd.(Project: COLORBUG 49-M-1,Kot Lakhpat,Lahore)

Client Reference: IBS/CGB/ST001

SOM Lab

Ref:

1744 (Page-1/1)

Dated: 08-09-2025

Dated:

08-09-2025

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	2.654	8	0.997	0.79	0.780	26.52	36.54	74050	75000	102020	103330	1.40	8.0	17.5	
2	1.498	6	0.748	0.44	0.440	12.71	18.65	63720	63720	93510	93510	1.50	8.0	18.8	
3	0.656	4	0.496	0.20	0.193	6.32	8.61	69700	72220	94990	98430	1.10	8.0	13.8	
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BEND TEST:

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

Engineer Muhammad Irshad

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

Dy Dir Dev. DHA Gujranwala.(Const Of PSO Service Station at Sec E Block CZ-3)

Client Reference: 111/3/DD/Dev/Zaroon Const Svcs/PSO/11

SOM Lab

Ref: 1746 (Page-1/1)

Dated: 05-09-2025

Dated: 08-09-2025

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Ittehad 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	1.028	5	0.620	0.31	0.302	11.23	13.83	79920	82040	98410	101020	1.10	8.0	13.8	
2	1.103	5	0.642	0.31	0.324	13.07	15.55	92970	88960	110600	105820	1.00	8.0	12.5	
3	0.643	4	0.491	0.20	0.189	6.12	7.75	67450	71370	85430	90400	1.10	8.0	13.8	
4	0.640	4	0.489	0.20	0.188	6.07	8.10	66890	71150	89370	95070	1.20	8.0	15.0	
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BEND TEST:

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