

Test Performed By: Dr Asad Ali Gillani

Capt
A/Proj Mngr
Ali Touseef, Retd
Project Management Unit
National Logistics Corporation Torkham, CSC Camp Office, Landi Khana Torkham

Client Reference: 607/Gen/Proj/1

Dated: 04-08-2025

SOM Laboratory Reference: CED/SOM/1634(Page-1/1)

Dated: 11-08-2025

Test: Compression Test

Sample Type: Cat Eyes (Yellow), Aluminium Stud

Test Results

Sr. No.	Sample Type	Top Dimensions (mm)	Bottom Dimensions (mm)	Thickness (mm)	Inclination (Degree)	Compression Load (Kg)
1	Cat Eyes (Yellow)	68.2 x 34.2	99.8 x 100.5	19.7	25.90°	15087
2	Aluminum Stud	83.0 x 31.7	100.4 x 100.6	22.3	24.50°	12273

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

Haroon Rashid, RE
Pioneer Cement Limited (PCL) Site Khushab, Pakistan.

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

Client Reference: PCL/DSB/A2/111
SOM Lab Ref: CED/SOM/1640 (Page-1/4)
Test: Tension Test & Bend Test
Sample Type: Deformed Bar (Aziz Steel)

Dated: 06-08-2025
Dated: 11-08-2025
Test Specification: ASTM-A 615
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	2.418	20	19.80	314	308	180.50	238.70	575	587	760	775	32.5	200	16.3	H # 246
2	2.436	20	19.88	314	310	180.20	238.20	574	581	758	768	35.0	200	17.5	H # 246
3	2.405	20	19.75	314	306	160.80	217.00	512	525	691	709	35.0	200	17.5	H # 251
4	2.393	20	19.70	314	305	150.50	211.70	479	494	674	695	32.5	200	16.3	H # 251
5	2.452	20	19.94	314	312	158.50	220.00	505	508	700	705	30.0	200	15.0	H # 249
6	2.475	20	20.04	314	315	162.00	221.50	516	514	705	703	27.5	200	13.8	H # 249
7	2.463	20	19.99	314	314	149.70	208.00	477	478	662	663	30.0	200	15.0	H # 238
8	2.451	20	19.94	314	312	148.50	207.20	473	476	660	664	32.5	200	16.3	H # 238
9	2.483	20	20.07	314	316	146.30	199.50	466	463	635	631	35.0	200	17.5	H # 749
10	2.470	20	20.02	314	315	152.00	204.00	484	484	649	649	35.0	200	17.5	H # 749

BEND TEST:

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

Haroon Rashid, RE
Pioneer Cement Limited (PCL) Site Khushab, Pakistan.

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

Client Reference: PCL/DSB/A2/111
SOM Lab Ref: CED/SOM/1640 (Page-2/4)

Dated: 06-08-2025
Dated: 11-08-2025

Test: Tension Test & Bend Test
Sample Type: Deformed Bar (Aziz Steel)

Test Specification: ASTM-A 615
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	2.368	20	19.61	314	302	148.50	211.00	473	492	672	699	35.0	200	17.5	H # 748
2	2.332	20	19.45	314	297	148.70	209.00	473	501	665	704	30.0	200	15.0	H # 748
3	2.395	20	19.71	314	305	137.70	196.70	438	452	626	645	37.5	200	18.8	H # 250
4	2.377	20	19.63	314	303	136.00	196.00	433	450	624	648	37.5	200	18.8	H # 250
5	2.440	20	19.89	314	311	165.00	224.00	525	531	713	721	32.5	200	16.3	H # 750
6	2.424	20	19.83	314	309	148.00	207.20	471	480	660	672	32.5	200	16.3	H # 750
7	2.509	20	20.17	314	320	144.20	223.00	459	452	710	698	37.5	200	18.8	H # 738
8	2.492	20	20.10	314	317	140.50	221.50	447	443	705	698	32.5	200	16.3	H # 738
9	2.371	20	19.61	314	302	141.70	198.50	451	470	632	658	30.0	200	15.0	H # 751
10	2.363	20	19.58	314	301	142.50	198.70	454	474	632	660	37.5	200	18.8	H # 751

BEND TEST:

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

Haroon Rashid, RE
Pioneer Cement Limited (PCL) Site Khushab, Pakistan.

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

Client Reference: PCL/DSB/A2/111
SOM Lab Ref: CED/SOM/1640 (Page-3/4)
Test: Tension Test & Bend Test
Sample Type: Deformed Bar (Aziz Steel)

Dated: 06-08-2025
Dated: 11-08-2025
Test Specification: ASTM-A 615
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	2.444	20	19.90	314	311	167.20	226.00	532	538	719	727	35.0	200	17.5	H# 746
2	2.445	20	19.91	314	311	161.70	222.70	515	520	709	716	30.0	200	15.0	H# 746
3	2.415	20	19.79	314	308	133.50	196.70	425	434	626	640	35.0	200	17.5	H# 247
4	2.411	20	19.78	314	307	133.50	196.50	425	435	625	640	37.5	200	18.8	H# 247
5	2.443	20	19.91	314	311	170.70	228.50	543	549	727	735	32.5	200	16.3	H# 745
6	2.471	20	20.02	314	315	176.00	231.70	560	560	738	737	32.5	200	16.3	H# 745
7	2.425	20	19.83	314	309	142.50	234.20	454	462	745	758	32.5	200	16.3	H# 237
8	2.401	20	19.73	314	306	140.70	233.50	448	461	743	764	35.0	200	17.5	H# 237
9	2.399	20	19.72	314	306	142.50	234.00	454	467	745	766	32.5	200	16.3	H# 738
10	2.396	20	19.72	314	305	145.00	233.20	462	476	742	764	30.0	200	15.0	H# 738

BEND TEST:

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

Haroon Rashid, RE
Pioneer Cement Limited (PCL) Site Khushab, Pakistan.

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

Client Reference: PCL/DSB/A2/111
SOM Lab Ref: CED/SOM/1640 (Page-4/4)

Dated: 06-08-2025
Dated: 11-08-2025

Test: Tension Test & Bend Test
Sample Type: Deformed Bar (Aziz Steel)

Test Specification: ASTM-A 615
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	2.385	20	19.67	314	304	130.20	217.00	414	429	691	714	35.0	200	17.5	H# 740
2	2.406	20	19.76	314	307	131.00	218.70	417	428	696	714	32.5	200	16.3	H# 740
3	2.458	20	19.97	314	313	136.70	220.20	435	437	701	704	30.0	200	15.0	H# 737
4	2.452	20	19.94	314	312	136.70	220.20	435	438	701	706	32.5	200	16.3	H# 737
5	2.470	20	20.01	314	315	145.20	237.20	462	462	755	754	32.5	200	16.3	H# 241
6	2.471	20	20.02	314	315	143.20	235.50	456	455	750	749	27.5	200	13.8	H# 241
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BEND TEST:

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

Abdullah Saqib

Test Performed By: Dr. /Engr. Ubaid Mughal

Manager Coordination Birudo Engineers.(Multipurpose Commercial Building,Block #05,Askari-V Lhr)

Client Reference: BE/2025/183

SOM Lab

Ref: 1635 (Page-1/1)

Dated: 11-08-2025

Dated: 11-08-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Def. Bar (Aziz

Gauge Length: 8 inch

Sample Type: 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	2.649	8	0.995	0.79	0.778	22.38	37.69	62470	63430	105210	106830	1.40	8.0	17.5	
2	2.635	8	0.993	0.79	0.774	23.09	38.30	64460	65790	106920	109130	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Mehran Ali, RE

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

AZ Engg Associates Hfz Residency.(Const /Widening/Impro of Road From Hafizabad to Gujrat)

Client Reference: AZEA/RE/HFZ/722

SOM Lab

Ref: 1636 (Page-1/1)

Dated: 21-07-2025

Dated: 11-08-2025

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	2.642	8	0.994	0.79	0.776	26.25	34.73	73280	74600	96960	98710	1.30	8.0	16.3	
2	2.633	8	0.993	0.79	0.774	27.14	35.39	75760	77320	98810	100850	1.40	8.0	17.5	
3	1.497	6	0.748	0.44	0.440	15.24	18.01	76390	76390	90290	90290	1.20	8.0	15.0	
4	1.485	6	0.745	0.44	0.436	15.24	17.86	76390	77090	89520	90340	1.10	8.0	13.8	
5	0.665	4	0.498	0.20	0.195	7.19	8.97	79250	81280	98920	101460	1.00	8.0	12.5	
6	0.664	4	0.498	0.20	0.195	7.21	8.97	79470	81510	98920	101460	0.90	8.0	11.3	
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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

Mohsin Abbas

Test Performed By: Dr. /Engr. Ubaid Mughal

QAQC Manager Zameen Development.(Const. Of Phoenix Project by Zameen Development,Lahore)

Client Reference: ZD/QAQC/SS-2508-000058/Phoenix/15

SOM Lab

Ref: 1637 (Page-1/1)

Dated: 11-08-2025

Dated: 11-08-2025

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	2.778	8	1.019	0.79	0.816	23.53	39.35	65680	63590	109850	106350	1.20	8.0	15.0	SS-36
2	2.791	8	1.022	0.79	0.820	23.52	39.70	65650	63250	110840	106790	1.20	8.0	15.0	SS-36
3	0.665	4	0.498	0.20	0.195	6.12	9.23	67450	69180	101730	104340	1.30	8.0	16.3	SS-52
4	0.674	4	0.502	0.20	0.198	6.29	9.23	69360	70060	101730	102760	1.10	8.0	13.8	SS-52
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BEND TEST:

# 8	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

Memar Associates
Canal Road Faisalabad.(UBL Susan Road Fsd)

Test Performed By: Dr. /Engr. Ubaid Mughal

Client Reference: Memar/UBL/S-01

SOM Lab

Ref: 1638 (Page-1/1)

Dated: 09-08-2025

Dated: 11-08-2025

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	2.616	8	0.990	0.79	0.769	24.03	34.10	67080	68910	95190	97790	1.40	8.0	17.5	
2	2.644	8	0.995	0.79	0.777	24.41	34.45	68160	69300	96190	97800	1.30	8.0	16.3	
3	1.476	6	0.743	0.44	0.434	12.86	19.75	64480	65380	98970	100340	1.00	8.0	12.5	
4	1.484	6	0.745	0.44	0.436	12.92	19.85	64740	65330	99480	100400	1.30	8.0	16.3	
5	0.665	4	0.498	0.20	0.195	6.09	8.18	67110	68830	90150	92460	1.40	8.0	17.5	
6	0.665	4	0.498	0.20	0.195	6.17	8.26	68010	69750	91050	93390	1.20	8.0	15.0	
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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

Sub Divisional officer,

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

BSD No.2 Gujranwala.(Improvement Workforce Readiness in Punjab Project, GCT Gujranwala)

Client Reference: 2086/G-21

SOM Lab

Ref: 1639 (Page-1/1)

Dated: 01-08-2025

Dated: 11-08-2025

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	2.625	8	0.991	0.79	0.771	29.43	38.79	82160	84180	108280	110950	1.30	8.0	16.3	
2	1.478	6	0.743	0.44	0.434	14.65	19.47	73430	74440	97590	98940	1.00	8.0	12.5	
3	0.646	4	0.492	0.20	0.190	7.39	9.25	81500	85790	101960	107320	1.00	8.0	12.5	
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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

Engr. Sulemaan Khan

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

RE Asian Consultings Engrs.(Const Of additional Block at WW Boys and Girls School at Labour Colony Gujranwala)

Client Reference: AsCE-PWWF-GWJ-004

SOM Lab

Ref: 1641-1653 (P-1/1)

Dated: 08-08-2025

Dated: 11-08-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Farooq 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	2.623	8	0.991	0.79	0.771	21.78	35.85	60820	62320	100090	102550	1.30	8.0	16.3	
2	2.617	8	0.990	0.79	0.769	22.53	35.68	62890	64610	99600	102320	1.40	8.0	17.5	
3	0.693	4	0.510	0.20	0.204	6.01	9.40	66320	65020	103640	101610	1.30	8.0	16.3	
4	0.689	4	0.507	0.20	0.202	6.03	9.30	66550	65890	102520	101500	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

# 8	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

Engr. Sulemaan

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

RE Asian Consultings Engrs.(Const Of additional Block at WW Boys and Girls School at Labour Colony Gujranwala)

Client Reference: AsCE-PWWF-GWJ-004

SOM Lab

Ref: 1642 (Page-1/1)

Dated: 08-08-2025

Dated: 11-08-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Farooq 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	1.534	6	0.758	0.44	0.451	11.34	16.51	56820	55430	82780	80760	1.40	8.0	17.5	
2	1.525	6	0.755	0.44	0.448	10.93	16.56	54780	53800	83030	81550	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 6	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