Test Performed by: Dr. Wasim Abbas

Engr. Farrukh Alvi,
Dy.General Manager (Works)
Habib Rafiq Engineering (Pvt.) Ltd, Lahore
(101 Tower, Lahore)

Client Reference No.: HRLE/SKG/2025/L-15/200-16/201 Dated: 26-02-2025
SOM Lab Ref: CED/SOM/842(Page-1/1) Dated: 26-02-2025
Test: Tensile Test
Sample Type: M.S Deformed Steel bar with Coupler (Zahid Engineering)

Tension Test Results

Sr. No.	Bar Size	Area	Yield Load	Ultimate Load	Yield stress	Ultimate stress	Remarks
	(mm)	(mm^2)	kN	kN	(Mpa)	(Mpa)	
1	16	201	100.2	121.5	499	604	Steel Sample breaks at this load from the threaded portion
2	16	201	96.5	129.5	480	644	Steel Sample breaks at this load from the threaded portion
3	16	201	97.2	126.7	484	630	Steel Sample breaks at this load from the threaded portion

Witnessed by: M.Irfan QC Engr/HRL, Muhammad Akram (101 Group)
Note: Please always confirm the results on web www.uet-civil.edu.pk

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

RE-Rolling Steel Industries (Pvt) Ltd. Balochistan.

Client Reference: SRS/2025/659 **SOM Lab Ref:** 845 (Page-1/1)

Dated: 25-02-2025 **Dated:** 26-02-2024

Test: Tension Test **Test Specification:** ASTM-A-615

Guage Length: 200 mm **Sample Type:** MS 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)				
	kg/m	mm	mm	mm^2	mm^2	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.225	19	18.98	284	283	126.20	189.20	444	446	666	669	32.5	200	16.3	
2	2.229	19	19.02	284	284	124.20	187.70	437	438	661	661	35.0	200	17.5	
3	1.579	16	16.00	201	201	91.20	145.00	454	454	721	722	35.0	200	17.5	
4	1.575	16	15.98	201	201	91.00	141.00	453	454	701	703	32.5	200	16.3	
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BEND TEST:

19mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Engr. Naveed Sadiq **Test Performed By:** **Dr. /Engr.** Wasim Abbas

RE Orbit Developers.Lahore.(The Springs Atrium,Gulberg Lahore)

Client Reference: Nil **SOM Lab Ref:** 838 (Page-1/1)

Dated: 25-02-2025 **Dated:** 26-02-2025

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	2.643	8	0.995	0.79	0.777	23.60	34.20	65880	66980	95480	97080	1.70	8.0	21.3	
2	2.694	8	1.004	0.79	0.792	26.04	37.18	72710	72530	103790	103530	1.60	8.0	20.0	
3	1.496	6	0.748	0.44	0.440	14.19	20.46	71130	71130	102550	102550	1.10	8.0	13.8	
4	1.492	6	0.747	0.44	0.438	14.17	20.54	71020	71350	102960	103430	1.10	8.0	13.8	
5	0.660	4	0.497	0.20	0.194	6.65	8.89	73290	75560	98020	101050	0.90	8.0	11.3	
6	0.648	4	0.492	0.20	0.190	6.52	8.74	71940	75730	96340	101410	1.00	8.0	12.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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

Supervisor Engineer **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Health Component-PHCIP Primary & Secondary Healthcare Deptt Lhr.(Burial PIT Construcion)

Client Reference: PIU-H/PHCIP/PM/778 **SOM Lab Ref:** 839 (Page-1/1)

Dated: 25-02-2025 **Dated:** 26-02-2025

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	0.646	4	0.492	0.20	0.190	6.63	8.61	73070	76910	94990	99990	1.10	8.0	13.8	
2	0.645	4	0.492	0.20	0.190	6.60	8.66	72730	76560	95550	100580	1.10	8.0	13.8	
3	0.646	4	0.492	0.20	0.190	6.78	8.77	74750	78690	96670	101760	1.20	8.0	15.0	
4	0.644	4	0.491	0.20	0.189	6.70	8.82	73850	78150	97230	102890	1.00	8.0	12.5	
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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

Mohsin Abbas,QAQC Manager **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Zameen Development.(Const. Of DownTown RUMANZA at Plot#RC01,Sec Rumanza,DHA Multan)

Client Reference: ZD/QAQC/DTR/TMD389/04 **SOM Lab Ref:** 840 (Page-1/1)

Dated: 26-02-2025 **Dated:** 26-02-2025

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	1.476	6	0.743	0.44	0.434	13.37	18.32	67040	67970	91820	93090	1.30	8.0	16.3	H # 980
2	1.499	6	0.749	0.44	0.441	13.83	18.65	69340	69180	93510	93290	1.30	8.0	16.3	H # 980
3	0.642	4	0.491	0.20	0.189	5.58	7.65	61490	65070	84310	89210	1.10	8.0	13.8	H # 870
4	0.641	4	0.489	0.20	0.188	7.29	9.12	80370	85500	100610	107030	1.20	8.0	15.0	H # 870
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Engr Muhammad Farooq Memon **Test Performed By:** **Dr. /Engr.** Wasim Abbas
RE Metroplan-Asian JV NSIC Sargodha.(Estb Of NSIC Sargodha)

Client Reference: Met-Asian-JV/IDAP-NSIC-Lab/A/SGD-RE/73 **SOM Lab Ref:** 841 (Page-1/1)
Dated: 16-10-2024 **Dated:** 26-02-2025

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615
Gauge Length: 8 inch **Sample Type:** Deformed Bar (Prime 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	1.498	6	0.748	0.44	0.440	12.71	20.03	63720	63720	100400	100400	1.40	8.0	17.5	
2	1.493	6	0.748	0.44	0.439	12.76	20.08	63970	64120	100660	100890	1.50	8.0	18.8	
3	0.651	4	0.493	0.20	0.191	5.71	8.89	62950	65920	98020	102640	1.30	8.0	16.3	
4	0.649	4	0.493	0.20	0.191	5.68	8.89	62610	65560	98020	102640	1.20	8.0	15.0	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Manohar Lal **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

RE Nespak,Hafizabad.(Dualization of Rd From Guj to M-2 Interchange at Kot Sarwar Via Hafizabad)

Client Reference: SA-466F/103/GH/RFO/ML/Lab/110 **SOM Lab Ref:** 843 (Page-1/1)

Dated: 10-02-2025 **Dated:** 26-02-2025

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	2.662	8	0.998	0.79	0.782	26.63	34.20	74330	75090	95480	96450	1.30	8.0	16.3	
2	2.653	8	0.997	0.79	0.780	26.52	34.15	74050	75000	95340	96560	1.30	8.0	16.3	
3	1.514	6	0.753	0.44	0.445	16.08	20.08	80580	79670	100660	99530	1.20	8.0	15.0	
4	1.508	6	0.751	0.44	0.443	16.02	20.03	80320	79780	100400	99720	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six 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

AZEA Hafizabad Residency.(Const/Wid/Impro Of Roads From Hafizabad to Gujrat Via Head Khanki)

Client Reference: AZEA/RE/HFZ/601 **SOM Lab Ref:** 844 (Page-1/1)

Dated: 12-02-2025 **Dated:** 26-02-2025

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	2.645	8	0.995	0.79	0.777	25.64	33.46	71570	72770	93400	94960	1.20	8.0	15.0	
2	2.670	8	1.000	0.79	0.785	25.56	33.20	71350	71800	92690	93280	1.50	8.0	18.8	
3	1.483	6	0.745	0.44	0.436	14.83	18.98	74350	75030	95140	96010	1.20	8.0	15.0	
4	1.497	6	0.748	0.44	0.440	14.73	18.93	73830	73830	94880	94880	1.30	8.0	16.3	
5	0.659	4	0.497	0.20	0.194	5.45	8.69	60140	62000	95770	98740	1.30	8.0	16.3	
6	0.658	4	0.496	0.20	0.193	5.45	8.66	60140	62320	95550	99010	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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

Engr. M Shahzad Toheed **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Classic Builders & Dev City Centre Multan.(Extensuion Of Basement Floor City Centre Multan Cantt)

Client Reference: Nil **SOM Lab Ref:** 846 (Page-1/1)

Dated: 24-02-2025 **Dated:** 26-02-2025

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	2.652	8	0.996	0.79	0.779	26.40	32.93	73710	74750	91920	93220	1.20	8.0	15.0	
2	2.660	8	0.998	0.79	0.782	22.43	32.42	62610	63250	90500	91420	1.40	8.0	17.5	
3	0.666	4	0.500	0.20	0.196	6.98	8.56	77000	78570	94420	96350	1.20	8.0	15.0	
4	0.669	4	0.501	0.20	0.197	7.08	8.84	78130	79320	97460	98940	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Ravi Construction Company **Test Performed By:** **Dr. /Engr.** Irfan ul Hassan
Lahore.(Project: Repetify 2 QABP, Sheikhpura)(Novatex Limited)

Client Reference: Nil **SOM Lab Ref:** 847 (Page-1/1)
Dated: 24-02-2025 **Dated:** 26-02-2025

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615
Gauge Length: 8 inch **Sample Type:** Deformed Bar (Al Moiz 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	2.736	8	1.012	0.79	0.804	25.69	35.98	71720	70470	100460	98710	1.50	8.0	18.8	
2	2.728	8	1.011	0.79	0.802	25.66	36.00	71630	70560	100510	99010	1.20	8.0	15.0	
3	1.476	6	0.743	0.44	0.434	14.39	19.16	72150	73150	96060	97390	1.50	8.0	18.8	
4	1.478	6	0.743	0.44	0.434	14.53	19.16	72810	73820	96060	97390	1.40	8.0	17.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Adnan Nadeem **Test Performed By:** **Dr. /Engr.** Nauman Khurram

C.E.O Haider Planners & Builders Pvt Ltd.(Al Manzoor Mall)

Client Reference: Nil **SOM Lab Ref:** 848 (Page-1/1)

Dated: 25-02-2025 **Dated:** 26-02-2025

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	2.632	8	0.992	0.79	0.773	26.76	35.39	74700	76350	98810	100980	1.30	8.0	16.3	
2	1.492	6	0.747	0.44	0.438	14.44	18.93	72400	72730	94880	95320	1.20	8.0	15.0	
3	1.044	5	0.625	0.31	0.307	9.28	13.66	66000	66640	97180	98130	1.50	8.0	18.8	
4	0.676	4	0.503	0.20	0.199	6.19	9.38	68230	68580	103420	103940	1.40	8.0	17.5	
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BEND TEST:

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

Only Eight Samples Received and Tested

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