

Engr. Farrukh Alvi

Test Performed By:

Dr. /Engr.

Irfan Ul Hassan

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

Client Reference: HRLE/SKG/2025/Hunza/12-32.465/16-8.535/202

SOM Lab Ref:

897 (P-1/1)

Dated: 07-03-2025

Dated:

07-03-2025

Test: Tension Test

Test Specification:

ASTM-A-615

Guage Length: 200 mm

Sample Type:

Deformed Bar (Hunza 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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.570	16	15.96	201	200	96.70	125.70	481	484	625	629	32.5	200	16.3	
2	1.560	16	15.91	201	199	91.50	116.70	455	461	581	588	32.5	200	16.3	
3	0.896	12	12.05	113	114	58.70	75.20	519	515	665	659	32.5	200	16.3	
4	0.889	12	12.01	113	113	59.80	77.20	529	528	683	682	30.0	200	15.0	
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<u>BEND TEST:</u>															
16mm	Sample bend through 180 degrees Satisfactorily without any crack										Note:- Only Six Samples Received and Tested				
12mm	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															

Muhammad Imran Rana

Test Performed By:

Dr. /Engr.

Irfan Ul Hassan

MD Al-Mustafa Contractor (Pvt) Ltd. Lahore.(Const Of Bonded Warehouse at SDPT,Sambrial)

Client Reference: AMC/UET/2128-28

Dated: 06-03-2025

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab

Ref:

896 (Page-1/1)

Dated:

07-03-2025

Test Specification:

ASTM-A-615

Sample Type:

Def. Bar (FF 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	1.492	6	0.747	0.44	0.438	14.17	18.67	71020	71350	93610	94030	1.50	8.0	18.8	
2	1.472	6	0.743	0.44	0.433	14.48	19.42	72560	73730	97340	98910	1.30	8.0	16.3	
3	0.670	4	0.501	0.20	0.197	6.63	8.77	73070	74180	96670	98140	1.30	8.0	16.3	
4	0.665	4	0.498	0.20	0.195	6.65	8.82	73290	75170	97230	99730	1.20	8.0	15.0	
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<u>BEND TEST:</u>															
# 6	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															

Mohsin Abbas,QAQC Manager

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

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

Client Reference: ZD/QAQC/DTR/2503-000011/05

Dated: 06-03-2025

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab

Ref: 898-899 (Page-1/1)

Dated: 07-03-2025

ASTM-A-615

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	1.518	6	0.754	0.44	0.446	13.71	21.12	68730	67800	105870	104450	1.50	8.0	18.8	H # 09
2	1.514	6	0.753	0.44	0.445	13.71	21.30	68730	67950	106790	105590	1.60	8.0	20.0	H # 09
3	0.675	4	0.502	0.20	0.198	6.65	9.99	73290	74030	110160	111270	1.40	8.0	17.5	H # 15
4	0.673	4	0.502	0.20	0.198	6.47	10.09	71380	72100	111290	112410	1.30	8.0	16.3	H # 15
5	0.627	4	0.484	0.20	0.184	6.80	8.82	74980	81500	97230	105690	0.80	8.0	10.0	PK-RTST
6	0.636	4	0.488	0.20	0.187	6.70	8.97	73850	78990	98920	105800	0.90	8.0	11.3	PK-RTST
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<u>BEND TEST:</u>															
# 6	Sample bend through 180 degrees Satisfactorily without any crack										Note:- Only Nine Samples Received and Tested				
# 4	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															

