

Engr. Haseeb Afzal

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

Project Manager HMB Developers Pvt Ltd.(Commercial Tower, FTC Lahore)

Client Reference: HMBDPL/S.O/05/23/42(LHR)

SOM Lab

Ref: 2260 (Page-1/1)

Dated: 26-05-2023

Dated: 26-05-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Bully # 1310)

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	2.651	8	0.996	0.79	0.779	24.84	34.53	69350	70330	96390	97750	1.40	8.0	17.5	
2	2.660	8	0.998	0.79	0.782	24.79	34.51	69210	69920	96330	97320	1.50	8.0	18.8	
3	1.502	6	0.749	0.44	0.441	14.93	19.64	74860	74690	98460	98240	1.40	8.0	17.5	
4	1.478	6	0.743	0.44	0.434	14.39	18.91	72150	73150	94780	96090	1.30	8.0	16.3	
5	0.671	4	0.501	0.20	0.197	6.19	8.51	68230	69270	93860	95290	1.50	8.0	18.8	
6	0.671	4	0.501	0.20	0.197	6.07	8.38	66890	67900	92400	93810	1.50	8.0	18.8	
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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

M.Arif Sahi, PM/Team Leader

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

Barqaab Consulting Services (Pvt) Ltd.(500/220kV Nowshehra HVAC Grid Station)

SOM Lab

Client Reference: WB-05A/BQB/NTDC/0553

Ref: 2261 (Page-1/1)

Dated: 23-05-2023

Dated: 26-05-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Fazal 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	1.034	5	0.622	0.31	0.304	11.13	13.78	79200	80760	98050	99990	1.00	8.0	12.5	
2	1.031	5	0.621	0.31	0.303	11.64	14.04	82820	84730	99860	102170	0.90	8.0	11.3	
3	0.651	4	0.493	0.20	0.191	6.93	8.56	76440	80040	94420	98870	0.90	8.0	11.3	
4	0.650	4	0.493	0.20	0.191	6.83	8.51	75320	78860	93860	98290	1.00	8.0	12.5	
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BEND TEST:

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

Aziz Industries
Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 2262 (Page-1/1)

Dated: 26-05-2023

Dated: 26-05-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	2.644	8	0.995	0.79	0.777	22.53	37.16	62890	63950	103730	105470	1.40	8.0	17.5	
2	2.637	8	0.993	0.79	0.775	22.53	37.26	62890	64110	104010	106030	1.30	8.0	16.3	
3	1.506	6	0.751	0.44	0.443	12.95	21.02	64890	64450	105360	104650	1.50	8.0	18.8	
4	1.491	6	0.747	0.44	0.438	12.84	19.90	64380	64680	99740	100190	1.50	8.0	18.8	
5	0.660	4	0.497	0.20	0.194	5.73	8.66	63180	65130	95550	98500	1.30	8.0	16.3	
6	0.670	4	0.501	0.20	0.197	5.86	8.89	64640	65620	98020	99510	1.30	8.0	16.3	
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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