

Sohail Afzal

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Sr. Project Manager, IZHAR Construction (Pvt) Ltd. , Izhar Group of Companies Lahore

Client Reference: ICPL/CONST-DML/21/38**Dated:** 18-02-2021**SOM Lab Ref:** CED/SOM/3877(Page-1/1)**Dated:** 18-02-2021**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	3.798	25	24.82	491	484	265.20	319.00	540	548	650	660	27.5	200	13.8	
2	3.857	25	25.01	491	491	264.20	336.70	538	538	686	686	27.5	200	13.8	
3	2.983	22	22.00	380	380	211.70	257.50	557	558	677	678	35.0	200	17.5	
4	2.973	22	21.96	380	379	213.20	259.00	561	563	681	684	37.5	200	18.8	
5	1.554	16	15.88	201	198	110.50	136.00	550	559	676	687	30.0	200	15.0	
6	1.572	16	15.97	201	200	105.70	127.70	526	528	635	638	27.5	200	13.8	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
22mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	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
Highway Sub Division, Isa Khel

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

Client Reference: 84-

SOM Lab 3873(Page-

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Dated: 13-02-2021

Dated: 18-02-2021

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	2.636	8	0.993	0.79	0.775	19.67	33.89	54930	55990	94620	96460	1.20	8.0	15.0	
2	1.491	6	0.747	0.44	0.438	15.70	19.88	78690	79050	99640	100090	1.50	8.0	18.8	
3	0.666	4	0.500	0.20	0.196	6.09	9.14	67110	68480	100830	102890	1.30	8.0	16.3	
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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

Z. H. Kazmi

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Principal Architect, Z. H. Kazmi & Associates, Lahore

Client Reference: nil

SOM Lab

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Ref:

1/1)

Dated: 18-02-2021

Dated:

18-02-2021

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	2.638	8	0.993	0.79	0.775	27.22	36.11	75980	77460	100800	102750	1.00	8.0	12.5	
2	2.641	8	0.994	0.79	0.776	27.32	34.12	76270	77650	95250	96970	1.20	8.0	15.0	
3	1.500	6	0.749	0.44	0.441	16.59	21.92	83130	82940	109850	109610	1.30	8.0	16.3	
4	1.505	6	0.750	0.44	0.442	15.67	21.20	78530	78180	106280	105800	1.20	8.0	15.0	
5	0.660	4	0.497	0.20	0.194	6.46	9.65	71270	73470	106450	109740	1.30	8.0	16.3	
6	0.665	4	0.498	0.20	0.195	5.83	8.41	64300	65950	92740	95120	1.40	8.0	17.5	
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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

Asst. Resident Engineer
AKA, Sec - N, DHAB, Bahawalpur

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

Client Reference: ARE/AKA/205/Sec-N/51

SOM Lab 3876(Page-

Ref: 1/1)

Dated: 16-02-2021

Dated: 18-02-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Mughal 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	2.645	8	0.995	0.79	0.777	26.37	34.35	73620	74850	95900	97510	1.30	8.0	16.3	
2	2.614	8	0.989	0.79	0.768	27.90	34.81	77890	80120	97190	99970	1.30	8.0	16.3	
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BEND TEST:

# 8	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

Test Performed By: Dr. S. Asad Ali Gillani

Basharat Munir

Project Manager,

Dupak Properties (Pvt) Ltd.

Defence View Apartments Shanghai
Road Lahore

Client Reference: Dupak/DVA/054

Dated: 18-02-2021

SOM Lab Ref: CED/SOM/3874(Page-1/1)

Dated: 18-02-2021

Test Type: Hardness Test

Sample Type: Aluminum Alloy 60G3

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine

(Minor Load: 10 Kgf Major Load: 50.0 kgf Scale: A)

Hardness Test Results

Sample No.	Sample Type	Hardness
1	Aluminum Alloy 60G3	HR – 12.66 – A
2	Aluminum Alloy 60G3	HR – 13.5 – A

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

Test Performed by: Dr. M Irfan Ul Hassan

Engr. Tajammal Farooq

Resident Engineer (AZEZA)

Sargodha Mianwali Road

Mianwali

Client Reference No.: RE/MWI-174

Dated: 10-02-2021

SOM Lab Ref: CED/SOM/3878(Page-1/1)

Dated: 18-02-2021

Test: Tensile Test, Elongation at Break, Tear Test, Comp. Set Test & Hardness Test

Sample Type: Testing of Bearing Pad (Rainbow Rubber Industry)

TENSILE STRENGTH TEST (AS PER ASTM-D-412)

S. No	Sample Size (mm x mm)	Tensile Strength at (kN)	Tensile Strength (MPa)	% age Elongation
1	4.0 x 2.8	0.22	19.64	520.0

TEAR STRENGTH (AS PER ASTM-D-624)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	12.5 x 3.0	0.17	56.6

- COMPRESSION SET TEST (AS PER ASTM-D-395)

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	3.80	3.75	2.60

- HARDNESS TEST (AS PER ASTM-D-2240)

S. No	Sample Type	Hardness (Shore A)
1	Elastomeric Bearing Pad	62.5

