

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore.

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

Client Reference: IHPL/Steel/0211

SOM Lab

Ref: 768 (Page-1/3)

Dated: 15-08-2022

Dated: 19-08-2022

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	0.663	4	0.498	0.20	0.195	6.07	8.31	66890	68600	91610	93960	1.00	8.0	12.5	
2	0.662	4	0.498	0.20	0.195	6.29	8.63	69360	71140	95210	97650	1.00	8.0	12.5	
3	0.662	4	0.498	0.20	0.195	6.47	8.48	71380	73210	93530	95920	1.10	8.0	13.8	
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Witnessed By: Engr.Rafi Ullah (IHPL) & Ali Hussnain Khan (K.B)

BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Five 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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore.

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

Client Reference: IHPL/Steel/0209

SOM Lab

Ref: 768 (Page-2/3)

Dated: 15-08-2022

Dated: 19-08-2022

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	1.445	6	0.736	0.44	0.425	13.71	19.29	68730	71150	96670	100080	1.30	8.0	16.3	
2	1.449	6	0.736	0.44	0.426	13.81	19.37	69240	71510	97080	100270	1.20	8.0	15.0	
3	1.461	6	0.739	0.44	0.429	14.27	19.88	71540	73370	99640	102190	1.30	8.0	16.3	
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Witnessed By: Engr.Rafi Ullah (IHPL) & Ali Hussnain Khan (K.B)

BEND TEST:

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

Note:-

Only Five Samples
Received and Tested

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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore.

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

Client Reference: IHPL/Steel/0212
Dated: 15-08-2022
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 768 (Page-3/3)
Dated: 19-08-2022
Test Specification: ASTM-A-615
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	2.597	8	0.986	0.79	0.763	24.77	35.29	69160	71600	98520	102010	1.30	8.0	16.3	
2	2.597	8	0.986	0.79	0.763	24.67	35.14	68870	71310	98100	101570	1.50	8.0	18.8	
3	2.598	8	0.986	0.79	0.763	24.11	33.61	67310	69690	93830	97150	1.40	8.0	17.5	
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Witnessed By: Engr.Rafi Ullah (IHPL) & Ali Hussnain Khan (K.B)

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Five Samples Received and Tested
# 8	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. Naveed Sadiq

Test Performed By:

Dr. /Engr. Rehan Ashraf

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

Client Reference: Nil

SOM Lab

Ref: 769 (Page-1/1)

Dated: 19-08-2022

Dated: 19-08-2022

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	1.482	6	0.745	0.44	0.436	12.95	19.13	64890	65490	95910	96790	1.40	8.0	17.5	
2	1.462	6	0.740	0.44	0.430	12.81	18.86	64230	65720	94530	96730	1.50	8.0	18.8	
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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

Assistant Project Director,PMU

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

SBP Lhr.(Up-Gradation Of Sports Facilities In Punjab At One Up-Gradation Of Punjab Stadium,Lhr)

Client Reference: ADP/PMU/SBP/LHR/293

SOM Lab

Ref: 770(Page-1/1)

Dated: 18-07-2022

Dated: 19-08-2022

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	1.467	6	0.741	0.44	0.431	12.81	18.60	64230	65570	93250	95200	1.30	8.0	16.3	
2	0.662	4	0.498	0.20	0.195	5.96	8.21	65760	67450	90490	92810	1.30	8.0	16.3	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four 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

Test Performed by: Dr.Asad Ali Gillani

Babar Ijaz Khan

RE NESPAK

Islamabad.

Project: Dualization of Taxila to HMC Farooqia RD L=10.56Km Tehsil Taxila Distt. Rawalpindi
(Group-I) (Annual Dev Program of Highway Circle-I Rwp)

Reference No.: 4085/103/HMC/BIK/104/27

Dated: 21-07-2022

SOM Lab Ref: CED/SOM/659(Page-1/1)

Dated: 22-07-2022

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

Sample Type: Elastomeric Bearing Pad (AES)

TENSILE STRENGTH AND ELONGATION TEST. (AS PER ASTM-D-412)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tensile Strength (Mpa)	Tensile Strength (kg/cm ²)	Elongation at Break(%)
1	8.0 x 3.0	0.45	18.75	191.19	480.0
2	8.0 x 3.0	0.52	27.66	220.93	520.0

TEAR STRENGTH (AS PER ASTM-D-624)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	13.0 x 3.0	0.42	140.0
2	13.0 x 3.0	0.42	140.0

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

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	3.0	2.89	3.66

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

S. No	Sample Type	Hardness (Shore A)
1	Elastomeric Bearing Pad	63.0