Sub Divisional officer, **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

BSD No.02,Multan (Estb Of 200 Bedded Mother & Child Hospital at Ghalla Godam Multan)

Client Reference: 1163/SDO 2nd **SOM Lab Ref:** 1622 (Page-1/1)

Dated: 02-01-2023 **Dated:** 20-01-2023

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (SJ 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	2.714	8	1.008	0.79	0.798	26.81	35.47	74850	74100	99030	98040	1.40	8.0	17.5	
2	2.673	8	1.000	0.79	0.786	25.76	35.22	71920	72280	98320	98820	1.40	8.0	17.5	
3	1.520	6	0.754	0.44	0.447	14.48	19.54	72560	71420	97950	96420	1.40	8.0	17.5	
4	1.522	6	0.754	0.44	0.447	14.48	19.69	72560	71420	98720	97170	1.30	8.0	16.3	
5	0.672	4	0.501	0.20	0.197	6.39	8.63	70480	71560	95210	96660	1.20	8.0	15.0	
6	0.670	4	0.501	0.20	0.197	6.37	8.58	70260	71330	94650	96090	1.10	8.0	13.8	
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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

Sub Divisional officer, **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

BSD No.15,Lhr.(Const of Bachelor Accommodation And Judicial Rest House at Dharampura)

Client Reference: 2618 **SOM Lab Ref:** 1623 (Page-1/1)

Dated: 18-01-2023 **Dated:** 20-01-2023

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	2.680	8	1.002	0.79	0.788	26.83	35.63	74900	75090	99460	99710	1.30	8.0	16.3	
2	2.666	8	0.998	0.79	0.783	25.91	34.96	72340	72990	97610	98480	1.40	8.0	17.5	
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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

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

Dir Project Ghurkki Trust & Teaching Hospital Lahore.(Const Of Ghurkki Medical and dental College)

Client Reference: Nil **SOM Lab Ref:** 1624 (Page-1/1)

Dated: 19-01-2023 **Dated:** 20-01-2023

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	0.665	4	0.498	0.20	0.195	6.80	8.56	74980	76900	94420	96850	1.30	8.0	16.3	
2	0.668	4	0.500	0.20	0.196	6.80	8.66	74980	76510	95550	97500	1.20	8.0	15.0	
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BEND TEST:

# 4	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

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

Building Standards Lahore.(Extension Of Warehouse Building at Allied Engg & Services Lahore)

Client Reference: GT/LTR/230120-008 **SOM Lab Ref:** 1625 (Page-1/1)

Dated: 20-01-2023 **Dated:** 20-01-2023

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	1.501	6	0.749	0.44	0.441	17.45	21.71	87480	87280	108830	108590	1.00	8.0	12.5	
2	1.492	6	0.747	0.44	0.438	17.53	21.76	87880	88290	109090	109590	1.00	8.0	12.5	
3	0.665	4	0.498	0.20	0.195	7.19	8.72	79250	81280	96110	98580	1.10	8.0	13.8	
4	0.669	4	0.501	0.20	0.197	7.10	8.63	78350	79540	95210	96660	1.00	8.0	12.5	
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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

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

PM Imperium Developers,Lahore.(Const Of Sixty6 at Gulberh-III,Lahore)

Client Reference: IMP/PM/66/04/106 **SOM Lab Ref:** 1627 (Page-1/2)

Dated: 20-01-2023 **Dated:** 20-01-2023

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	1.487	6	0.746	0.44	0.437	15.16	20.95	75980	76500	105000	105720	1.10	8.0	13.8	
2	1.488	6	0.746	0.44	0.437	15.39	21.05	77160	77680	105510	106240	1.30	8.0	16.3	
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Witnessed By: M. Husnain Imran ,Site Engineer (Imperium Developers)

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

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

PM Imperium Developers,Lahore.(Const Of Sixty6 at Gulberh-III,Lahore)

Client Reference: IMP/PM/66/04/105 **SOM Lab Ref:** 1627 (Page-2/2)

Dated: 20-01-2023 **Dated:** 20-01-2023

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	2.614	8	0.989	0.79	0.768	24.52	35.60	68440	70400	99380	102220	1.20	8.0	15.0	
2	2.617	8	0.990	0.79	0.769	23.98	35.32	66940	68760	98610	101300	1.30	8.0	16.3	
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Witnessed By: M. Husnain Imran ,Site Engineer (Imperium Developers)

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

Sub Divisional officer, **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

BSD No.2,Lhr.(Const of Boundary Wall Around Safari Zoo Raiwind Lahore)

Client Reference: 1281 -2nd **SOM Lab Ref:** 1628 (Page-1/1)

Dated: 27-09-2022 **Dated:** 20-01-2023

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	0.666	4	0.500	0.20	0.196	6.52	8.26	71940	73410	91050	92910	1.20	8.0	15.0	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Two Samples Received and Tested

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

Syed Mubashar Hassan **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

RE Nespak.(Dualization Of Sargodha Khushab Mianwali Road Group-I From KM 206.94 to 211.50)

Client Reference: RE/4376-E/MH/4a/211 **SOM Lab Ref:** 1629 (Page-1/1)

Dated: 12-01-2023 **Dated:** 20-01-2023

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Amreli 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	2.680	8	1.002	0.79	0.788	26.14	34.32	72970	73150	95820	96060	1.50	8.0	18.8	
2	2.678	8	1.001	0.79	0.787	25.84	34.42	72140	72420	96100	96470	1.40	8.0	17.5	
3	1.541	6	0.759	0.44	0.453	14.78	19.49	74090	71960	97690	94890	1.30	8.0	16.3	
4	1.540	6	0.759	0.44	0.453	14.85	19.67	74450	72310	98610	95780	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 Six 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

Muhammad Riaz Anwar, Lt Col ®
Deputy Director Works(South)
Works Sec CWO Malir Cantt Karachi

Reference No.: 1637Brdg/Culv/33 Dated: 13-01-2023
SOM Lab Ref: CED/SOM/1626(Page-1/1) Dated: 20-01-2023

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

Sample Type: Elastomeric Bearing Pad (Size 400 x 300) (M/S GENDEX)

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	6.7 x 2.1	0.27	19.18	195.57	520.0
2	6.7 x 2.1	0.29	20.61	210.16	540.0

TEAR STRENGTH (AS PER ASTM-D-624)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	12.0 x 2.5	0.20	80.0
2	12.0 x 2.5	0.22	88.0

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

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	3.05	2.91	4.59

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

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