

Prof.DR.Engr.Abdulah
Yasar,CE

Test Performed By: Dr. /Engr. Wasim Abbas

GC Uni,Lhr.(Const Of New Girls Hostel at Main Campus GCU Lahore)

SOM Lab

Client Reference: GCU/Engr/877/W.O

Ref: 2922 (Page-1/1)

Dated: 22-09-2023

Dated: 26-09-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	1.496	6	0.748	0.44	0.440	14.50	18.78	72660	72660	94120	94120	1.50	8.0	18.8	
2	0.675	4	0.502	0.20	0.198	5.66	8.26	62390	63020	91050	91970	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

Usman Tahir , RE

Test Performed By: Dr. /Engr. Wasim Abbas

VELOSI Engg.(Detailed Design & Resident Supervision Of Regional Campus Of AIOU Sargogha)

Client Reference: VISP/RC/SRG-016

SOM Lab

Ref: 2923 (Page-1/1)

Dated: 25-09-2023

Dated: 26-09-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Ittehad 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	2.661	8	0.998	0.79	0.782	25.45	32.08	71060	71790	89560	90470	1.40	8.0	17.5	
2	1.480	6	0.744	0.44	0.435	14.58	18.30	73070	73910	91720	92770	1.20	8.0	15.0	
3	0.657	4	0.496	0.20	0.193	5.71	8.51	62950	65230	93860	97270	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

Saqib Akram, RE NESPAK

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

Lhr.(Signal Free Corridor From M/Boulevard Gulberg To Walton Rd Underpass at Khalid Butt Chowk)

Client Reference: 3772/103/KBC/SA/04/03

SOM Lab

Ref: 2924 (Page-1/1)

Dated: 11-09-2023

Dated: 26-09-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Batala Premium)

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	2.628	8	0.991	0.79	0.772	24.87	35.68	69440	71060	99600	101930	1.20	8.00	15.00	
2	2.628	8	0.991	0.79	0.772	25.18	36.00	70290	71930	100510	102860	1.30	8.00	16.03	
3	1.465	6	0.741	0.44	0.431	14.68	20.25	73580	75120	101530	103650	1.20	8.00	15.00	
4	1.450	6	0.736	0.44	0.426	14.50	19.93	72660	75050	99890	103170	1.00	8.00	12.05	
5	0.667	4	0.500	0.20	0.196	8.77	11.26	96670	98650	124210	126750	1.00	8.00	12.05	
6	0.666	4	0.500	0.20	0.196	8.97	11.34	98920	100940	125000	127550	1.10	8.00	13.08	
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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

Engr. Khuldon Rashid

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

ENVIRO CONSULT,Lahore.(Impro Of Sewerage System in Abadies Adjacent to Saggian Rd Shahdara)

Client Reference: 211/WASA-LHR/RI-A/2018/25/01

SOM Lab

Ref: 2926 (Page-1/1)

Dated: 25-09-2023

Dated: 26-09-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

inc

Deformed

Gauge Length: 8 h

Sample Type:

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	1.490	6	0.747	0.44	0.438	21.88	27.03	109650	110150	135500	136120	1.20	8.0	15.0	
2	0.638	4	0.488	0.20	0.187	6.83	8.74	75320	80550	96340	103030	1.50	8.0	18.8	
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BEND TEST:

--	No Bend test performed	Note:- Only Two 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

Nespak (Pvt) Ltd.
Resident Engineer

(Const. Of Road Connecting Sub-Division Wazir To Bannu Circular Road Bannu Including 2 No. Bridge along With Approaches) (Package-III)

Reference No.: 4274/021/SA/303
SOM Lab Ref: CED/SOM/2925(Page-1/1)

Dated: 26-09-2023
Dated: 26-09-2023

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

Sample Type: Elastomeric Bearing Pad

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	7.0 x 2.1	0.42	28.57	291.32	500.0
2	7.0 x 2.1	0.45	30.61	312.15	520.0

TEAR STRENGTH (AS PER ASTM-D-624)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	11.0 x 2.0	0.22	110.0
2	11.1 x 2.0	0.25	125.0

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

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	2.90	2.77	4.48

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

S. No	Sample Type	Hardness _{avg} (Shore A)
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1	Elastomeric Bearing Pad	63.0
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