

Client Reference No.: 4936/SEW(2024-2025)/CRE/FSD/74

Dated: 12-09-2025

SOM Lab Ref: CED/SOM/1798

Dated: 19-09-2025

Test Type: Load Test of RPC Manhole Cover & Frame

Test Standard: Non-standard test was performed as per requirement of the client [Application of load at the center of the Manhole Cover through round steel plate Diameter 15"]

Test Performed by: Dr. Asad Ali Gillani

Ishtiaq Ahmed

Chief Resident Engineer

NESPAK (Pvt.) Ltd

(Design & Resident Supervision of the Project Development Schemes to Cater Sewerage Issues of Faisalabad City)

This is with reference to your above-mentioned letter and SOM receipt No. 1798 dated: 19-09-2025. The sample of RPC Cover & Frame submitted in the Laboratory has been tested and the result is provided below.

Load Test Result

Weight of RPC Cover With Frame	Size of Cover (Outer Dia)	Size of Frame (Internal Dia)	Average Thickness of RPC Cover	Maximum Load	Observations/Remarks
49.40 Kg	635 mm	650 mm	72.2 mm	8000 kg	The sample was cracked at this load

Arsalan Khurshid

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

SC For Sufi Muhammad Haroon Haris. (Const of Fauzia and Haris Residence at Green Fort-1 Raiwind Rd Lhr)

Client Reference: Green Fort-1/UET/Steel Test

SOM Lab

Ref: 1797 (Page-1/1)

Dated: 19-09-2025

Dated: 19-09-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Sheikhoo 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	2.642	8	0.994	0.79	0.776	25.99	34.86	72570	73880	97330	99080	1.30	8.0	16.3	
2	2.649	8	0.995	0.79	0.778	25.59	34.58	71430	72530	96530	98020	1.30	8.0	16.3	
3	0.660	4	0.497	0.20	0.194	6.95	8.77	76660	79040	96670	99660	1.40	8.0	17.5	
4	0.660	4	0.497	0.20	0.194	7.00	8.74	77230	79620	96340	99310	1.40	8.0	17.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six 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

Aamir Ali, APM

Test Performed By: Dr. /Engr. Ubaid Mughal

PMU NLC Nathe Khalsa Multan Road Lahore.(Commercial Building Nlc Logistic Park Nathe Khalsa)

Client Reference: 27103/Lab/NLC/NK/Lhr/04

SOM Lab

Ref: 1799 (Page-1/1)

Dated: 18-09-2025

Dated: 19-09-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (FF 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	1.499	6	0.749	0.44	0.441	14.34	19.95	71890	71730	99990	99770	1.20	8.0	15.0	
2	1.507	6	0.751	0.44	0.443	14.39	19.93	72150	71660	99890	99220	1.30	8.0	16.3	
3	0.583	4	0.467	0.20	0.171	5.56	7.26	61270	71650	80040	93610	1.40	8.0	17.5	
4	0.578	4	0.465	0.20	0.170	5.58	7.29	61490	72340	80370	94560	1.30	8.0	16.3	
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BEND TEST:

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

Aamir Ali, APM

Test Performed By: Dr. /Engr. Ubaid Mughal

PMU NLC Nathe Khalsa Multan Road Lahore.(Residential Building Nlc Logistic Park Nathe Khalsa)

Client Reference: 27102/Lab/NLC/NK/Lhr/03

SOM Lab

Ref: 1800 (Page-1/1)

Dated: 18-09-2025

Dated: 19-09-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (FF 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	1.550	6	0.762	0.44	0.456	13.61	17.71	68210	65820	88750	85640	1.20	8.0	15.0	
2	1.553	6	0.762	0.44	0.456	13.63	17.74	68320	65920	88910	85790	1.20	8.0	15.0	
3	0.661	4	0.497	0.20	0.194	6.22	8.33	68570	70690	91840	94680	1.20	8.0	15.0	
4	0.657	4	0.496	0.20	0.193	6.17	8.28	68010	70480	91280	94590	1.20	8.0	15.0	
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BEND TEST:

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

Hamid Javid

Test Performed By: Dr. /Engr. Nauman Khurram

AE B&R GE(Air) Rafiqui.(Const Of 02xSmart House Lema Block at PAF Base Rafiqui)

Client Reference: 6954/07/E-6

SOM Lab

Ref: 1801 (Page-1/3)

Dated: 11-09-2025

Dated: 19-09-2025

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	1.495	6	0.748	0.44	0.439	14.07	21.43	70510	70670	107400	107650	1.20	8.0	15.0	
2	0.628	4	0.485	0.20	0.185	5.98	9.53	65990	71340	105100	113620	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

Hamid Javid

Test Performed By: Dr. /Engr. Nauman Khurram

AE B&R GE(Air) Rafiqui.(Const Of 02xSmart House Juliet Block at PAF Base Rafiqui)

Client Reference: 6953/07/E-6

SOM Lab

Ref: 1801 (Page-2/3)

Dated: 11-09-2025

Dated: 19-09-2025

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	1.516	6	0.754	0.44	0.446	13.91	21.38	69750	68810	107150	105710	1.40	8.0	17.5	
2	0.631	4	0.485	0.20	0.185	6.14	9.60	67670	73160	105890	114480	1.10	8.0	13.8	
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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

Hamid Javid

Test Performed By: Dr. /Engr. Nauman Khurram

AE B&R GE(Air) Rafiqui.(Const Of 02xSmart House Juliet Block at PAF Base Rafiqui)

Client Reference: 6953/07/E-6

SOM Lab

Ref: 1801 (Page-2/3)

Dated: 11-09-2025

Dated: 19-09-2025

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	1.516	6	0.754	0.44	0.446	13.91	21.38	69750	68810	107150	105710	1.40	8.0	17.5	
2	0.631	4	0.485	0.20	0.185	6.14	9.60	67670	73160	105890	114480	1.10	8.0	13.8	
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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

Hamid Javid

Test Performed By: Dr. /Engr. Nauman Khurram

AE B&R GE(Air) Rafiqui.(Extension of Troops Training Center at PAF Base Rafiqui)

Client Reference: 6970/06/E-6

SOM Lab

Ref: 1801 (Page-3/3)

Dated: 11-09-2025

Dated: 19-09-2025

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	1.496	6	0.748	0.44	0.440	12.81	20.29	64230	64230	101680	101680	1.20	8.0	15.0	
2	0.588	4	0.469	0.20	0.173	5.17	7.92	56990	65890	87340	100970	1.20	8.0	15.0	
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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

Aqib Javeed
Datta Builders Saggian Pull Lahore.

Test Performed By: Dr. /Engr. Ubaid Mughal

Client Reference: Nil

SOM Lab

Ref: 1802 (Page-1/1)

Dated: 19-09-2025

Dated: 19-09-2025

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	1.458	6	0.738	0.44	0.428	14.09	17.89	70620	72600	89670	92190	1.60	8.0	20.0	Hunza
2	1.507	6	0.751	0.44	0.443	14.29	18.57	71640	71150	93100	92470	1.30	8.0	16.3	Mughal
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BEND TEST:

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