



**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Assistant Engineer  
 B & W Department  
 UET Lahore  
 (Emergency Stair in Admin Block UET Lahore)

Reference # CED/TFL **34876** (Dr. M Rizwan Riaz)  
 Reference of the request letter # B&W/AENC/1336

Dated: 30-04-2020  
 Dated: 23-04-2020

**Tension Test Report** (Page – 1/2)

Date of Test 11-05-2020  
 Gauge length 2 inches  
 Description H, I Beam and C Channel Steel Strip Tensile Test as per ASTM A-36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)		(mm)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	H-Beam	8x8	28.00x11.30	316.40	10300	17000	319.35	527.09	0.80	40.00	
2			28.10x11.20	314.72	10600	16800	330.41	523.67	0.70	35.00	
3	I-Beam	8x4	28.70x6.65	190.86	6600	10600	339.24	544.84	0.65	32.50	
4			28.60x6.65	190.19	6500	10300	335.27	531.27	0.60	30.00	
5	C Channel	8x4	30.10x9.35	281.44	9000	15700	313.71	547.26	0.50	25.00	
6			28.70x9.35	268.35	8900	14300	325.36	522.77	0.50	25.00	
<b>Only Six Samples for Tensile Test</b>											
<b>Bend Test</b>											

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

Note:

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- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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To,  
Assistant Engineer  
B & W Department  
UET Lahore  
(Emergency Stair in Admin Block UET Lahore)

Reference # CED/TFL **34876** (Dr. M Rizwan Riaz)  
Reference of the request letter # B&W/AENC/1336

Dated: 30-04-2020  
Dated: 23-04-2020

**Weight & Size Test Report** (Page – 2/2)

Date of Test 11-05-2020  
Gauge length -----  
Description H, I Beam and C Channel Weight and Size Test

Sr. No.	Designation		Weight (g)	Length (cm)	Weight per Unit Length (kg/m)	Depth (d) mm	Flange Width (b <sub>f</sub> ) mm	Flange Thickness (t <sub>f</sub> ) mm	Web Thickness (t <sub>w</sub> ) mm	Remark
	(inch)									
1	H-Beam	8x8	25000	48.50	51.55	203.30	202.90	12.50	9.10	
2	I-Beam	8x4	7900	29.70	26.60	203.50	101.50	10.90	6.65	
-	C Channel	8x4	7701	30.90	24.92	202.20	76.50	9.80	9.35	
-			-	-	-	-	-	-	-	
-			-	-	-	-	-	-	-	
-			-	-	-	-	-	-	-	
-	-		-	-	-	-	-	-	-	
-	-		-	-	-	-	-	-	-	
<b>Only Three Samples for Test</b>										

**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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To,  
M/S Building Standards  
Lahore  
(University of Lahore – UOL)  
Reference # CED/TFL **34881** (Dr. Qasim Khan)  
Reference of the request letter # GT/LTR/200504-020

Dated: 04-05-2020

Dated: 04-05-2020

**Tension Test Report** (Page – 1/1)

Date of Test 11-05-2020  
Gauge length 2 inches  
Description Steel Plate Welded Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm <sup>2</sup> )	(kg)	(MPa)	(inch)		
1	5	25.00x4.90	122.50	5400	432.44	0.80	40.00	Failure at the location other than Weld
2		25.00x4.90	122.50	5200	416.42	0.70	35.00	Failure at the location other than Weld
3	8 (A)	24.60x8.00	196.80	8400	418.72	0.60	30.00	Failure at the location other than Weld
4		24.60x8.00	196.80	8600	428.69	0.60	30.00	Failure at the location other than Weld
5	8 (B)	24.90x8.00	199.20	9200	453.07	0.60	30.00	Failure at the location other than Weld
6		24.90x8.00	199.20	9100	448.15	0.60	30.00	Failure at the location other than Weld
7	10	25.00x10.30	257.50	11100	422.88	0.60	30.00	Failure at the location other than Weld
8		25.00x10.30	257.50	10600	403.83	0.50	25.00	Failure at the location other than Weld
<b>Only eight samples for tensile test</b>								
<b>Bend Test</b>								

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
M/S Building Standards  
Lahore  
(Fast Cable Project at Ijtema Chowk, Raiwind Road, Lahore)

Reference # CED/TFL **34882** (Dr. Qasim Khan)  
Reference of the request letter # GT/LTR/200504-019

Dated: 04-05-2020  
Dated: 04-05-2020

**Tension Test Report** (Page – 1/1)

Date of Test 11-05-2020  
Gauge length 2 inches  
Description Steel Angle & Steel Plate Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)	(mm)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Steel Angle	25.00x5.80	145.00	4400	6600	297.68	446.52	0.70	35.00	
2		25.00x5.80	145.00	4400	6500	297.68	439.76	0.60	30.00	
3	Steel Plate	25.10x4.10	102.91	3000	4500	285.98	428.97	0.70	35.00	
4		25.10x4.10	102.91	3100	4550	295.51	433.73	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Four Samples for Tensile Test</b>										
<b>Bend Test</b>										

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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Ref: CED/TFL/05/34886

Dated: 06-05-2020

Dated of Test: 11-05-2020

To  
**Sr. Const. Engineer - VII**  
**WASA, LDA.,**  
**Lahore**

**Subject: - TESTING OF RPC (REINFORCED RECYCLED PLASTIC COMPOSITE MATERIAL) MANHOLE COVER**

Reference to your letter no. CD-VII/293-96, Dated: 28/04/2020 on the above mentioned subject. Two RPC (Reinforced Recycled Plastic Composite Material) Manhole Covers as received by us have been tested as requested by the client and results are given below.

<b>Sample No.</b>	<b>:</b>	<b>1</b>
<b>Diameter of sample</b>	<b>:</b>	<b>64.00 cm</b>
<b>Diameter of loading plate</b>	<b>:</b>	<b>55.20 cm</b>
<b>Loading pattern</b>	<b>:</b>	<b>Uniformly distributed load</b>
<b>Failure Load</b>	<b>:</b>	<b>27200 (kg)</b>
<b>Sample No.</b>	<b>:</b>	<b>2</b>
<b>Diameter of sample</b>	<b>:</b>	<b>64.00 cm</b>
<b>Diameter of loading plate</b>	<b>:</b>	<b>55.20 cm</b>
<b>Loading pattern</b>	<b>:</b>	<b>Uniformly distributed load</b>
<b>Failure Load</b>	<b>:</b>	<b>33800 (kg)</b>

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