Test Performed by: Dr.S. Asad Ali Gillani

Atif Mughal
Manager Material (Engr)
Central Lab DHA Islamabad- Rawalpindi

Client Reference No.: DHA/Central Lab/Ph-I/58 Dated: 07-06-2024

SOM Lab Ref: CED/SOM/4301 (P-1/1) Dated: 10-06-2024

Test Type: Flexural Strength & Crushing Strength Test **Standard: ASTM-C-875 - 98**

Sample Type: Asbestos Pipes (6 Inches) Brand: Delux Chrysotile

Flexural Load Results

Sample No.	Diameter (mm)		Thickness (mm)	Length of the Tested Sample (unsupported span) (mm)	Flexural Load (kN)
	Outer	Inner			
1	170.0	151.4	9.3	1372	4.70
2	170.0	151.6	9.2	1372	4.70

Crushing Load Results

Sample No.	Diameter (mm)		Thickness (mm)	Length of the Tested Sample (cm)	Crushing Load (kN)
	Outer	Inner			
1	167.0	148.6	9.2	30.0	1.70
2	170.0	151.6	9.2	30.0	1.35

Qaiser Aziz **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Site Engr OZ Developers Lahore.(Const a High-rise Building Bahria Sky at Bahria Orchard ph-4 Lhr)

Client Reference: Nil **SOM Lab Ref:** 4300 (Page-1/1)

Dated: 10-05-2024 **Dated:** 10-06-2024

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	1.494	6	0.748	0.44	0.439	14.17	19.03	71020	71190	95400	95610	1.40	8.0	17.5	
2	1.490	6	0.747	0.44	0.438	14.53	19.18	72810	73140	96160	96600	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

Ali Raza
Lahore.

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

Client Reference: Nil
Dated: 10-06-2024

SOM Lab Ref: 4302 (Page-1/1)
Dated: 10-06-2024

Test: Tension Test & Bend Test
Gauge Length: 8 inch

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	2.610	8	0.988	0.79	0.767	25.48	33.79	71150	73280	94340	97170	1.60	8.0	20.0	
2	2.622	8	0.991	0.79	0.771	25.86	33.74	72200	73980	94200	96520	1.50	8.0	18.8	
3	1.055	5	0.628	0.31	0.310	10.77	14.78	76660	76660	105160	105160	1.30	8.0	16.3	
4	1.052	5	0.627	0.31	0.309	10.09	13.88	71800	72030	98780	99100	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 5	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