

(Duplicate Copy)

Test Performed by: Dr.S. Asad Ali Gillani

Fazeel Mehmood
Resident Engineer

NESPAK Rawalpindi. (Development of DHA-AWT Land Adyala) (M/S CALCO)

Client Reference No.:4592/103/ DHA-AWT/FM/102/39 **Dated:** 09-07-2024

SOM Lab Ref: CED/SOM/4503 (P-1/1) **Dated:** 26-07-2024

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

Sample Type: Asbestos Pipes (6 Inches) **Brand:** Deluxe

Flexural Load Results

Sample No.	Diameter (mm)		Thickness (mm)	Length of the Tested Sample (unsupported span) (mm)	Flexural Load (kN)
	Outer	Inner			
1	175.0	154.6	10.2	1372	5.80

Crushing Load Results

Sample No.	Diameter (mm)		Thickness (mm)	Length of the Tested Sample (cm)	Crushing Load (kN)
	Outer	Inner			
1	175.0	154.6	10.2	30.0	2.67

Kamran Khan, PM

Test Performed By:

Dr. /Engr.

Wasim Abbas

Q-Links Property Construction Pvt.Ltd Lhr.(Construction of Q-High Street)

Client Reference: Qlinks06

SOM Lab

Ref:

4765 (Page-1/1)

Dated: 07-09-2024

Dated:

10-09-2024

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	1.501	6	0.749	0.44	0.441	14.50	19.11	72660	72490	95800	95590	1.40	8.0	17.5	
2	0.668	4	0.500	0.20	0.196	6.32	8.92	69700	71120	98360	100370	1.00	8.0	12.5	
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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

MS Paidar Builders (Pvt) Ltd.

Test Performed By: Dr. /Engr. Wasim Abbas

(Const Of Two Labs Room in Muzaffarharh)(Const Of TCF Vocational Room & Canteen Mahmood Kot)

Client Reference: PBL/UET/2024

SOM Lab

Ref: 4766 (Page-1/1)

Dated: 06-09-2024

Dated: 10-09-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Ittefaq 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	2.674	8	1.000	0.79	0.786	25.03	34.32	69870	70220	95820	96310	1.30	8.0	16.3	
2	1.495	6	0.748	0.44	0.439	14.73	19.22	73830	74000	96320	96530	1.20	8.0	15.0	
3	0.670	4	0.501	0.20	0.197	6.44	9.04	71040	72130	99710	101230	1.00	8.0	12.5	
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BEND TEST:

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

Awais Nazir,XEN

Test Performed By:

Dr. /Engr. Wasm Abbas

GE(Army)-II LRC.(Const Of 1 x 64 Men SM Bk No.2 at Lahore Cantt)

Client Reference: 6003/148/E6

SOM Lab

Ref: 4767 (Page-1a/1)

Dated: 14-05-2024

Dated: 10-09-2024

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	1.477	6	0.743	0.44	0.434	11.18	16.87	56050	56830	84560	85730	1.80	8.0	22.5	
2	1.490	6	0.747	0.44	0.438	11.34	17.20	56820	57080	86200	86590	1.60	8.0	20.0	
3	0.671	4	0.501	0.20	0.197	5.93	8.53	65420	66420	94090	95520	1.30	8.0	16.3	
4	0.673	4	0.502	0.20	0.198	5.93	8.53	65420	66090	94090	95040	1.10	8.0	13.8	
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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

Awais Nazir,XEN

Test Performed By:

Dr. /Engr.

Wasm Abbas

GE(Army)-II LRC.(Const Of 1 x 64 Men SM Bk No.2 at Lahore Cantt)

Client Reference: 6003/148/E6

SOM Lab

Ref:

4767 (Page-1b/1)

Dated: 14-05-2024

Dated:

10-09-2024

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	1.439	6	0.734	0.44	0.423	12.49	19.34	62590	65110	96930	100820	1.40	8.0	17.5	
2	1.506	6	0.751	0.44	0.443	12.30	19.13	61670	61260	95910	95260	1.40	8.0	17.5	
3	1.041	5	0.624	0.31	0.306	9.86	15.95	70130	71050	113500	114980	1.00	8.0	12.5	
4	1.015	5	0.616	0.31	0.298	9.60	15.19	68320	71070	108060	112410	0.90	8.0	11.3	
5	0.659	4	0.497	0.20	0.194	6.54	9.68	72170	74400	106790	110090	0.80	8.0	10.0	
6	0.656	4	0.496	0.20	0.193	6.65	9.65	73290	75950	106450	110310	0.80	8.0	10.0	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
# 5	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

AAK Enterprises
Lahore.

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: Nil

SOM Lab

Ref: 4768 (Page-1/1)

Dated: 06-09-2024

Dated: 10-09-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

MS Round

Gauge Length: 8 inch

Sample Type: Bar

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	1.497	6	0.748	0.44	0.440	12.92	20.90	64740	64740	104750	104750	1.10	8.0	13.8	
2	1.500	6	0.749	0.44	0.441	13.02	20.90	65250	65100	104750	104510	1.20	8.0	15.0	
3	0.671	4	0.501	0.20	0.197	6.68	10.45	73630	74750	115220	116970	1.00	8.0	12.5	
4	0.670	4	0.501	0.20	0.197	6.70	10.37	73850	74980	114320	116060	0.90	8.0	11.3	
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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

Nasir Nadeem, AGM

Test Performed By:

Dr. /Engr.

Wasm Abbas

Design & Const Deptt-HO City School (Pvt) Ltd.(Project-Iqbal Campus Sialkot Ph-II)

Client Reference: TCS/D&C/HO/001/SKT/2029

SOM Lab

Ref:

4769 (Page-1/1)

Dated: 10-09-2024

Dated:

10-09-2024

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	2.681	8	1.002	0.79	0.788	25.25	35.80	70490	70670	99950	100200	1.30	8.0	16.3	
2	2.636	8	0.993	0.79	0.775	24.64	34.81	68790	70120	97190	99070	1.20	8.0	15.0	
3	1.486	6	0.746	0.44	0.437	14.55	19.59	72910	73420	98210	98880	1.00	8.0	12.5	
4	1.492	6	0.747	0.44	0.438	15.01	20.03	75210	75560	100400	100860	1.10	8.0	13.8	
5	0.670	4	0.501	0.20	0.197	7.05	9.04	77790	78970	99710	101230	1.00	8.0	12.5	
6	0.669	4	0.501	0.20	0.197	7.16	9.07	78910	80110	100050	101570	1.00	8.0	12.5	
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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

Safdar Rashid, RE

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

Nespak Consult Site Office Narowal.(KBCMA College Veterinary &Animal Science Narowal Campus)

Client Reference: 4650/311/SR/23

SOM Lab

Ref: 4771 (Page-1/2)

Dated: 01-08-2024

Dated: 10-09-2024

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	2.625	8	0.991	0.79	0.771	25.20	34.07	70350	72080	95110	97450	1.50	8.0	18.8	
2	1.523	6	0.755	0.44	0.448	15.90	21.10	79710	78290	105770	103880	1.20	8.0	15.0	
3	0.672	4	0.501	0.20	0.197	5.71	8.18	62950	63910	90150	91530	1.00	8.0	12.5	
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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

Safdar Rashid, RE

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Nespak Consult Site Office Narowal.(KBCMA College Veterinary &Animal Science Narowal Campus)

Client Reference: 4650/311/SR/33

SOM Lab

Ref: 4771 (Page-2/2)

Dated: 02-09-2024

Dated: 10-09-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Aziz 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	2.691	8	1.004	0.79	0.791	25.18	33.86	70290	70200	94540	94420	1.50	8.0	18.8	
2	1.492	6	0.747	0.44	0.438	16.38	21.27	82110	82490	106640	107120	1.20	8.0	15.0	
3	0.666	4	0.500	0.20	0.196	5.86	8.22	64640	65960	90600	92450	1.20	8.0	15.0	
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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

