

Test Performed by: .S. Asad Ali Gillani

Jun Heo  
Project Manager  
LS Networks / LS Cable & System  
DHA Karachi-Pakistan.  
(LESCO`s Project)

Client Reference No.: LSK-KKT-241001

Dated: 01-10-2024

SOM Lab Ref: CED/SOM/4908 (Page 1/1)

Dated: 02-10-2024

Test Type: Load Test

Sample Type: D-Shakal

### Load Test Results

Sr No.	Sample Type	Ultimate Load (kN)	Remarks
1	D-Shakal (Old)	179.50	D-Shakal break at this load
2	D-Shakal (New)	183.7	D-Shakal break at this load

Note: Please always confirm the results on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

**Test Performed by:** Dr.S. Asad Ali Gillani

Engr.Zeshan Arif  
Manager QA/QC  
Blue World City Islamabad

**Client Reference No.:**Ltr/BWC/BB/QA/QC-04

Dated: 02-10-2024

**SOM Lab Ref:** CED/SOM/4905 (P-1/1)

Dated: 02-10-2024

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

**Sample Type:** Asbestos Pipes

Vendor: M/S Mahsood Engineering

**Flexural Load Results**

Sample No.	Diameter (mm)		Thickness (mm)	Length of the Tested Sample (unsupported span) (mm)	Flexural Load (kN)
	Outer	Inner			
1	174	154.6	9.7	1372	5.84

**Crushing Load Results**

Sample No.	Diameter (mm)		Thickness (mm)	Length of the Tested Sample (cm)	Crushing Load (kN)
	Outer	Inner			
1	174	153.6	10.2	30.0	3.25

Engr.M.Imran, RE

Test Performed By: Dr./Engr. Nauman Khurram

Master Consulting Engineers.(7-Storey Residential Block Having Min 100 Rooms Facilities at NNS)

Client Reference: NKB/RE/MCE/STEEL/20

Dated: 01-10-2024

SOM Lab Ref: CED/SOM/4907(Page-1/1)

Dated: 02-10-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

Gauge Length: 200 mm

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)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.569	16	15.96	201	200	96.50	130.50	480	483	649	653	35.0	200	17.5	
2	1.566	16	15.94	201	199	98.00	129.70	487	492	645	651	35.0	200	17.5	
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**BEND TEST:**

16mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Muhammad Arfan Asif

Test Performed By: Dr. /Engr. Yousaf

ER NESPAK Lhr.(Const Of Green Building for EMC,EPD and Allied` New Entities Estb Under PGDP)

Client Reference: 4731/MAA/03/101

SOM Lab

Ref: 4906 (P-1/1)

Dated: 01-10-2024

Dated: 02-10-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Markhor 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.667	4	0.500	0.20	0.196	5.81	8.28	64080	65380	91280	93140	1.20	8.0	15.0	
2	0.668	4	0.500	0.20	0.196	5.76	8.41	63510	64810	92740	94630	1.10	8.0	13.8	
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Witnessed By: M.Irfan (Nespak)

**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Engr.M.Imran, RE

Test Performed By: Dr. /Engr. Nauman Khurram

Master Consulting Engineers.(7-Storey Residential Block Having Min 100 Rooms Facilities at NNS)

Client Reference: NKB/RE/MCE/STEEL/20

SOM Lab

Ref: 4907 (Page-1a/1)

Dated: 01-10-2024

Dated: 02-10-2024

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.490	6	0.747	0.44	0.438	14.37	19.13	72050	72380	95910	96340	1.50	8.0	18.8	
2	1.497	6	0.748	0.44	0.440	14.60	19.11	73170	73170	95800	95800	1.50	8.0	18.8	
3	0.672	4	0.501	0.20	0.197	6.63	8.72	73070	74180	96110	97570	1.20	8.0	15.0	
4	0.666	4	0.500	0.20	0.196	6.65	8.74	73290	74790	96340	98300	1.10	8.0	13.8	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

AL-HADEED CORPORATION  
Gulberg III Lahore.(Const Of Shell F.S Yateem Khana Lahore)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: AHC/780/15

Dated: 01-10-2024

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 4909 (Page-1/1)

Dated: 02-10-2024

ASTM-A-615

Deformed Bar (Mughal 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.481	6	0.744	0.44	0.435	14.29	20.10	71640	72460	100760	101920	1.10	8.0	13.8	
2	1.487	6	0.746	0.44	0.437	14.65	20.25	73430	73930	101530	102220	1.10	8.0	13.8	
3	0.671	4	0.501	0.20	0.197	6.70	8.72	73850	74980	96110	97570	1.40	8.0	17.5	
4	0.670	4	0.501	0.20	0.197	6.68	8.72	73630	74750	96110	97570	1.30	8.0	16.3	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Qamar Uz Zaman

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM Aujla & Associates.(Education Complex Royal Palm City H/Scheme Gujranwala)

Client Reference: Nil

SOM Lab

Ref:

4910 (Page-1/3)

Dated: 02-10-2024

Dated:

02-10-2024

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.601	8	0.986	0.79	0.764	26.76	33.10	74700	77250	92400	95550	1.30	8.0	16.3	
2	2.598	8	0.986	0.79	0.763	27.88	33.97	77830	80590	94820	98180	1.40	8.0	17.5	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Qamar Uz Zaman  
 PM Aujla & Associates.(Education Complex Royal Palm City H/Scheme Gujranwala)

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

**Client Reference:** Nil

**SOM Lab**

**Ref:** 4910 (Page-2/3)

**Dated:** 02-10-2024

**Dated:** 02-10-2024

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A-615

ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.561	6	0.764	0.44	0.459	15.65	19.62	78430	75190	98360	94290	1.40	8.0	17.5	
2	1.558	6	0.764	0.44	0.458	16.72	19.95	83800	80500	99990	96060	1.20	8.0	15.0	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)



Qamar Uz Zaman  
 PM Aujla & Associates.(Education Complex Royal Palm City H/Scheme Gujranwala)

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

**Client Reference:** Nil

**SOM Lab**

**Ref:** 4910 (Page-3/3)

**Dated:** 02-10-2024

**Dated:** 02-10-2024

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A-615

ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.673	4	0.502	0.20	0.198	7.03	8.58	77560	78350	94650	95610	1.10	8.0	13.8	
2	0.670	4	0.501	0.20	0.197	6.39	8.05	70480	71560	88800	90160	1.40	8.0	17.5	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Qaiser Aziz

Test Performed By:

Dr. /Engr. Nauman Khurram

SE Team Overc`s Lahore.(Const a High-rise Building"Opera Mall" at Bahria Orchard Ph-4 Lhr)

Client Reference: Nil

SOM Lab

Ref: 4911(Page-1/1)

Dated: 02-10-2024

Dated: 02-10-2024

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.490	6	0.747	0.44	0.438	13.73	18.45	68830	69140	92480	92910	1.20	8.0	15.0	
2	1.487	6	0.746	0.44	0.437	13.78	18.32	69080	69560	91820	92450	1.30	8.0	16.3	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Waseem Akram

Test Performed By:

Dr. /Engr.

Nauman Khurram

Salman Developers (Grand Square Mall).Lahore.(Mian Numan Sb House Land Breeze)

Client Reference: Nil

SOM Lab

Ref:

4912 (Page-1/1)

Dated: 02-10-2024

Dated:

02-10-2024

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.519	6	0.754	0.44	0.446	15.77	19.93	79050	77980	99890	98550	1.30	8.0	16.3	
2	1.522	6	0.754	0.44	0.447	15.82	19.88	79300	78060	99640	98080	1.10	8.0	13.8	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Waseem Akram

Test Performed By:

Dr. /Engr.

Nauman Khurram

Salman Developers (Grand Square Mall).Lahore.(Mian Numan Sb House Land Breeze)

Client Reference: Nil

SOM Lab

Ref:

4913 (Page-1/1)

Dated: 02-10-2024

Dated:

02-10-2024

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.663	4	0.498	0.20	0.195	6.39	8.33	70480	72290	91840	94190	1.20	8.0	15.0	
2	0.664	4	0.498	0.20	0.195	6.37	8.31	70260	72060	91610	93960	1.20	8.0	15.0	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Sub Divisional officer,

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

The Punjab Employees Social Security Institution Lahore.(Strengthening of Column Structure)

**Client Reference:** SS.DC(178)/388

**SOM Lab**

**Ref:** 4914 (Page-1/1)

**Dated:** 02-10-2024

**Dated:** 02-10-2024

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.478	6	0.743	0.44	0.434	14.07	18.55	70510	71490	92990	94280	1.20	8.0	15.0	
2	1.478	6	0.743	0.44	0.434	14.19	18.73	71130	72110	93860	95160	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

