

Saleem Tahir
 PM ICPL.(OMBRe Holding Pvt.Ltd Raiwind,Lahore)

Test Performed By: Dr. /Engr. Bilal

Client Reference: OMBRe/Ittefaq/Steel/002

Dated: 11-02-2022

SOM Lab Ref: CED/SOM/5863(Page-1/1)

Dated: 11-02-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S Deformed Bar (Ittefaq Steel)

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.821	25	24.90	491	487	275.00	349.70	560	565	712	719	27.5	200	13.8	
2	3.821	25	24.90	491	487	291.00	363.00	593	598	739	746	32.5	200	16.3	
3	2.467	20	20.00	314	314	160.00	204.70	509	510	652	652	35.0	200	17.5	
4	2.489	20	20.09	314	317	163.70	207.70	521	517	661	655	32.5	200	16.3	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
20mm	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

Sub Divisional officer,

Test Performed By: Dr. /Engr. Amina Rajpoot

HSD Mianwali(Const./Widg/Impro Of Rd Kalabagh Rd Via Bhullan Wali Wandhi UC Shahbaz Khel)

Client Reference: 20/SDO/Mwi

SOM Lab 5859 (Page-

Ref: 1/1)

Dated: 05-01-2022

Dated: 11-02-2022

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	0.671	4	0.501	0.20	0.197	6.68	8.46	73630	74750	93300	94720	1.00	8.0	12.5	
2	0.667	4	0.500	0.20	0.196	6.90	8.66	76100	77660	95550	97500	1.20	8.0	15.0	
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BEND TEST:

# 4	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

Building Research Station

Test Performed By:

Dr. /Engr.

Amina Rajpoot

Assistant Director-I,Lahore.(New Industrial Estate, Mirpur,Azad Kashmir)

Client Reference: 154-R/299

SOM Lab

5860 (Page-

Ref:

1/1)

Dated: 09-02-2022

Dated:

11-02-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Siraj 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	2.676	8	1.000	0.79	0.786	18.04	26.86	50370	50630	74990	75370	1.30	8.0	16.3	
2	1.537	6	0.759	0.44	0.452	10.72	15.62	53750	52330	78280	76200	1.30	8.0	16.3	
3	0.668	4	0.500	0.20	0.196	4.76	7.10	52500	53570	78350	79950	1.30	8.0	16.3	
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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

Syed Abul Jabbar

Test Performed By:

Dr. /Engr.

Mazhar Saleem

GM Engg. Cotton Web Ltd.Lahore.(New Office Building Lot #3)

Client Reference: Nil

SOM Lab

5861 (Page-

Ref:

1/1)

Dated: 11-02-2022

Dated:

11-02-2022

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	2.641	8	0.994	0.79	0.776	25.83	34.12	72110	73420	95250	96970	1.50	8.0	18.8	
2	2.642	8	0.994	0.79	0.776	25.59	33.59	71430	72720	93770	95460	1.40	8.0	17.5	
3	1.474	6	0.743	0.44	0.433	13.78	18.98	69080	70200	95140	96680	1.20	8.0	15.0	
4	1.483	6	0.745	0.44	0.436	14.32	19.24	71790	72450	96420	97300	1.10	8.0	13.8	
5	0.655	4	0.494	0.20	0.192	6.13	8.38	67560	70370	92400	96250	1.20	8.0	15.0	
6	0.648	4	0.492	0.20	0.190	6.52	8.33	71940	75730	91840	96670	1.10	8.0	13.8	
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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

Engr. Mustafa Ali

Test Performed By:

Dr. /Engr. Amina Rajpoot

Sr.Manager Coordination.Dream Builders.(Const. Of Apartments Building At32-P, Model Town Ext,Lhr)

Client Reference: DB/Const-32P/22/210

SOM Lab 5862 (Page-

Ref: 1/1)

Dated: 10-02-2022

Dated: 11-02-2022

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	2.738	8	1.012	0.79	0.805	28.03	35.39	78260	76800	98810	96970	1.30	8.0	16.3	
2	2.749	8	1.014	0.79	0.808	27.93	35.29	77980	76240	98520	96330	1.40	8.0	17.5	
3	1.496	6	0.748	0.44	0.440	16.11	20.44	80730	80730	102450	102450	1.10	8.0	13.8	
4	1.490	6	0.747	0.44	0.438	15.60	20.20	78180	78530	101270	101730	1.10	8.0	13.8	
5	0.677	4	0.503	0.20	0.199	6.14	9.02	67670	68010	99480	99980	1.00	8.0	12.5	
6	0.676	4	0.503	0.20	0.199	6.17	9.12	68010	68350	100610	101110	1.40	8.0	17.5	
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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

Maj Adnan Khalid (R)

Test Performed By:

Dr. /Engr. Amina Rajpoot

Dy Dir MTL DHA Lhr,(Const. Of 1K Houses NGV DRGCC (52 Units) DHA Ph-VI (M/s Linker Dev))

Client Reference: 408/241/32/Lab/43/481

SOM Lab 5864 (Page-

Ref: 1/1)

Dated: 11-02-2022

Dated: 11-02-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (AFCCO 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	1.525	6	0.755	0.44	0.448	16.92	21.56	84820	83300	108070	106140	1.00	8.0	12.5	
2	1.511	6	0.752	0.44	0.444	16.51	21.33	82780	82030	106890	105930	1.20	8.0	15.0	
3	0.665	4	0.498	0.20	0.195	6.83	8.89	75320	77250	98020	100530	1.10	8.0	13.8	
4	0.662	4	0.498	0.20	0.195	6.98	8.97	77000	78980	98920	101460	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

Test Performed by: Dr. S. Asad Ali Gillani

Longman Industrial Sales

Lahore.

(Source: Longman Industrial Sales)

Reference No.: Nil

Dated: 09-02-2022

SOM Lab Ref: CED/SOM/5865(Page-1/3)

Dated: 11-02-2022

Test: Tensile Test, Elongation at Break, Tear Test & Hardness Test

Sample Type: Rubber Water Stopper (350*6mm)

TENSILE STRENGTH AND ELONGATION TEST. (AS PER ASTM-D-412)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tensile Strength (Mpa)	Tensile Strength (kg/cm ²)	Elongation at Break(%)
1	8.5 x 6.0	1.22	23.92	243.91	440.0

TEAR STRENGTH (AS PER ASTM-D-624)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	14.6 x 6.0	1.10	183.3

- HARDNESS TEST (AS PER ASTM-D-2240)

S. No	Sample Type	Hardness (Shore A)
1	Rubber Water Stopper	55.0

Test Performed by: Dr. S. Asad Ali Gillani

Longman Industrial Sales
Lahore.
(Source: Longman Industrial Sales)

Reference No.: Nil

Dated: 09-02-2022

SOM Lab Ref: CED/SOM/5865(Page-2/3)

Dated: 11-02-2022

Test: Tensile Test, Elongation at Break, Tear Test & Hardness Test

Sample Type: Rubber Water Stopper (350*10mm)

TENSILE STRENGTH AND ELONGATION TEST. (AS PER ASTM-D-412)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tensile Strength (Mpa)	Tensile Strength (kg/cm ²)	Elongation at Break(%)
1	10.7 x 10.0	2.07	19.34	197.21	420.0

TEAR STRENGTH (AS PER ASTM-D-624)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	16.2 x 10.0	1.52	152.0

- HARDNESS TEST (AS PER ASTM-D-2240)

S. No	Sample Type	Hardness (Shore A)
1	Rubber Water Stopper	51.0

Test Performed by: Dr. S. Asad Ali Gillani

Longman Industrial Sales
Lahore.
(Source: Longman Industrial Sales)

Reference No.: Nil

Dated: 09-02-2022

SOM Lab Ref: CED/SOM/5865(Page-3/3)

Dated: 11-02-2022

Test: Tensile Test, Elongation at Break Test

Sample Type: (Corrugated HDPE) Water Proof Membrane (1.5mm)

TENSILE STRENGTH AND ELONGATION TEST.

S. No	Mark	Sample Size (mm)	Ultimate Load (kN)	Tensile Strength (Mpa)	Tensile Strength (kg/cm ²)	Elongation at Break(%)
1	H	12.9 x 1.5	1.52	78.55	800.98	120.0
2	V	10.9 x1.5	1.27	77.67	792.01	120.0

Test Performed By: Dr. Asad Ali Gillani

Muhammad Bilal

RE Unique Engineering Consultants.

Lahore.

Client Reference: Nil

Dated: 11-02-2022

SOM Lab Ref: CED/SOM/5866(Page-1/1)

Dated: 11-02-2022

Test: Tension Test

Sample Type: Anchors Bolt (Threaded)

Gauge Length: 100 mm

S.No.	Dia.		Area	Yield Load	Ultimate Load	Yield Stress	Ultimate. Stress	Elongation	Gauge Length	%age Elongation	Remarks
	Original Diameter	Tested Diameter									
	mm	mm	mm ²	kN	kN	MPa	MPa	mm	mm	%	
1	20	16.0	201	157.00	193.70	781	963	5.0	100	5.0	
2	20	16.0	201	139.00	190.20	691	946	10.0	100	10.0	
3	16	12.0	113	71.00	121.20	628	1072	7.5	100	7.5	
4	16	12.0	113	70.20	119.00	621	1052	7.5	100	7.5	

Note:-

Only Four Samples
Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

