

Sub Divisional Officer
Buildings Sub Division No. 12, Lahore

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

Client Reference: 206/SDO12th

SOM Lab Ref: 2484(Page-1/1)

Dated: 21-03-2020

Dated: 13-05-2020

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	2.669	8	0.999	0.79	0.784	28.54	37.46	79680	80290	104580	105380	1.40	8.0	17.5	
2	2.638	8	0.993	0.79	0.775	29.38	37.99	82020	83600	106060	108120	1.40	8.0	17.5	
3	1.478	6	0.743	0.44	0.434	15.82	19.54	79300	80400	97950	99300	1.20	8.0	15.0	
4	1.465	6	0.741	0.44	0.431	15.57	19.37	78020	79650	97080	99110	1.40	8.0	17.5	
5	0.690	4	0.508	0.20	0.203	7.05	9.02	77790	76640	99480	98010	1.20	8.0	15.0	
6	0.689	4	0.507	0.20	0.202	7.05	9.04	77790	77020	99710	98720	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

Athar Ullah Gohar
Construction Manager, Hi Tech Corporation, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: Nil

Dated: 13-05-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2485(Page-1/1)

Dated: 13-05-2020

ASTM-A-615

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	0.648	4	0.492	0.20	0.190	5.78	8.72	63740	67090	96110	101170	1.30	8.0	16.3	
2	0.650	4	0.493	0.20	0.191	6.12	9.04	67450	70630	99710	104410	1.40	8.0	17.5	
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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

Umair Yousaf

Project Manager, MA Engineer Services, Lahore (Project: Commercial Plaza at Al Rehman Garden Lahore)

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Client Reference: MA/UETL/003

SOM Lab Ref: 2486 (Page-1/1)

Dated: 13-05-2020

Dated: 13-05-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Af 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	2.606	8	0.988	0.79	0.766	22.27	32.84	62180	64130	91690	94570	1.40	8.0	17.5	
2	2.615	8	0.989	0.79	0.768	21.89	32.03	61100	62850	89420	91980	1.30	8.0	16.3	
3	0.632	4	0.487	0.20	0.186	6.01	8.58	66320	71320	94650	101770	1.00	8.0	12.5	
4	0.630	4	0.485	0.20	0.185	6.01	8.58	66320	71700	94650	102320	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
# 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

Faisal Hameed

Resident Engineer, Metroplan-Asian JV, Sire Office Talagang Road Mianwali

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Client Reference: Metroplan Asian JV-Nexus-MMCH-RE-185

Dated: 12-05-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref:

Dated:

ASTM-A-615

Deformed Bar (Moiz Steel)

2487,2488(Page-2/3)

13-05-2020

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	1.500	6	0.749	0.44	0.441	13.83	19.26	69340	69180	96520	96300	1.50	8.0	18.8	
2	1.497	6	0.748	0.44	0.440	13.86	19.37	69490	69490	97080	97080	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

Faisal Hameed

Resident Engineer, Metroplan-Asian JV, Sire Office Talagang Road Mianwali

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: Metroplan Asian JV-Nexus-MMCH-RE-183

Dated: 12-05-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref:

Dated:

ASTM-A-615

Deformed Bar (Moiz Steel)

2487,2488(Page-

3/3)

13-05-2020

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	1.506	6	0.751	0.44	0.443	14.88	19.93	74600	74100	99890	99220	1.50	8.0	18.8	
2	1.504	6	0.750	0.44	0.442	14.70	19.95	73680	73350	99990	99540	1.60	8.0	20.0	
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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

Faisal Hameed

Resident Engineer, Metroplan-Asian JV, Sire Office Talagang Road Mianwali

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: Metroplan Asian JV-Nexus-MMCH-RE-180

Dated: 12-05-2020

Test: Tension Test & Bend Test

Test Specification:

Gauge Length: 8 inch

Sample Type:

SOM Lab 2487-2488(Page-1/3)

Ref: 1/3
Dated: 13-05-2020

ASTM-A-615
Deformed Bar (SJ 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	1.503	6	0.750	0.44	0.442	15.01	20.36	75210	74870	102040	101580	1.10	8.0	13.8	
2	1.519	6	0.754	0.44	0.446	14.98	20.46	75110	74100	102550	101170	1.00	8.0	12.5	
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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

Basharat Munir

Project Manager, Dupak Properties (Pvt) Ltd. Defence View Apartments at Shanghai Road Lahore

Test Performed By:

Dr. /Engr.

S Asad Ali
Gillani

Client Reference: Dupak/DVA/047

SOM Lab Ref: 2489(Page-1/1)

Dated: 13-05-2020

Dated: 13-05-2020

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	1.475	6	0.743	0.44	0.433	12.35	19.06	61930	62930	95550	97090	1.50	8.0	18.8	
2	1.445	6	0.736	0.44	0.425	12.28	19.83	61570	63740	99380	102890	1.40	8.0	17.5	
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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

Test Performed by: Dr.Asad Ali Gillani

Engr. Nasir Ahmed Chishty
Chief Resident Engineer
Osmani & Co. (Pvt) Ltd
HQ PD Swat Motorway Project, FWO
Capt. Karanal Sher Khan Interchange M1
C/O TCS Office Risalpur Cantt.

Client Reference No.: 372/CRE/QAT/SMP/2020

Dated: 07-05-2020

SOM Lab Ref: CED/SOM/2490 (Page 1/1)

Dated: 13-05-2020

Test: Tensile Test, Tear Strength Test, Hardness Test & Comp. Set Test

Sample Type: Expansion Joint

-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	6.5 x 3.2	0.70	33.65	343.13	540

- COMPRESSION SET TEST (AS PER ASTM-D-395)

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	3.2	3.1	3.125

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

S. No	Sample Type	Hardness (Shore A)
1	Bearing Pad	48.33

Test Performed by: Dr.Asad Ali Gillani

Nasir Ahmed Chishty
Chief Resident Engineer
Osmani & Co. (Pvt) Ltd
PD Office SMP, FWO
Capt. Karanal Sher Khan Interchange M1
C/O TCS Office Risalpur Cantt.

Client Reference No.: 370/CRE/QAT/SMP/2020

Dated: 07-05-2020

SOM Lab Ref: CED/SOM/2491 (Page 1/1)

Dated: 13-05-2020

Test: Tensile Test, Elongation at Break, Comp. Set Test & Hardness Test

Sample Type: Elastomeric Bearing Pad

-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	6.5 x 3.0	0.72	36.92	376.47	510

- TEAR STRENGTH (AS PER ASTM-D-624)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	12.5 x 3.0	0.30	100

- COMPRESSION SET TEST (AS PER ASTM-D-395)

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	3.0	2.95	1.667

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

S. No	Sample Type	Hardness (Shore A)
1	Bearing Pad	61.66

