

Osmani & Compny (Pvt) Ltd.

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

Engr's Repres Muridke.(Const Of Greenfield Aerodrome For General Aviation Activities at Muridke)

Client Reference: OCL/CAA/MAD-ER/01-2K23/18

Dated : 11-01-2023

SOM Lab Ref: CED/SOM/1715(Page-1/1)

Dated : 07-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Islamabad Premium)

Gauge Length: 200 m

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	m	%	
1	2.257	20	19.12	314	287	109.50	179.70	349	382	572	627	30.0	200	15.0	
2	2.262	20	19.16	314	288	113.50	180.70	361	394	575	628	35.0	200	17.5	
3	1.521	16	15.71	201	194	74.20	114.00	369	384	567	589	37.5	200	18.8	
4	1.516	16	15.68	201	193	74.50	114.20	371	386	568	592	37.5	200	18.8	
5	0.987	12	12.65	113	126	48.50	68.00	429	386	601	541	37.5	200	18.8	
6	0.995	12	12.70	113	127	46.50	70.20	411	368	621	555	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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. Shahzad Khaleeq Awan
Sr.PM Izhar Const. Pvt.Ltd.(Const. Of DB-32 at DHA Lahore)

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

Client Reference: Nil

Dated: 27-01-2023

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab

Ref: 1716 (Page-1/1)

Dated: 07-02-2023

Test Specification: ASTM-A-615

Deformed

Sample Type: 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	2.663	8	0.998	0.79	0.783	25.99	33.71	72570	73220	94110	94950	1.50	8.00	18.8	
2	2.640	8	0.994	0.79	0.776	24.87	33.38	69440	70690	93200	94880	1.50	8.00	18.8	
3	1.466	6	0.741	0.44	0.431	14.24	19.47	71380	72870	97590	99630	1.40	8.00	17.5	
4	1.454	6	0.737	0.44	0.427	14.22	19.52	71280	73450	97850	100830	1.40	8.00	17.5	
5	1.021	5	0.618	0.31	0.300	9.76	13.56	69410	71720	96460	99670	1.50	8.00	18.8	
6	1.020	5	0.618	0.31	0.300	9.81	13.58	69770	72090	96600	99820	1.40	8.00	17.5	
7	0.675	4	0.502	0.20	0.198	6.63	9.02	73070	73810	99480	100490	1.40	8.00	17.5	
8	0.672	4	0.501	0.20	0.197	6.44	8.92	71040	72130	98360	99860	1.30	8.00	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	
# 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

Syed Mohsin Ali RE

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

QA/QC Deptt. Bahria Town Lhr. (Muhammad Ali Jinnah Masjid Block D Bahria Orchard)

Client Reference: QA/QC/Steel-3011

SOM Lab

Ref: 1717(Page-1/1)

Dated: 02-02-2023

Dated: 07-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type: 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	2.646	8	0.995	0.79	0.778	23.29	34.86	65030	66030	97330	98830	1.60	8.00	20.0	
2	2.642	8	0.994	0.79	0.776	23.16	34.86	64660	65830	97330	99080	1.60	8.00	20.0	
3	1.553	6	0.762	0.44	0.456	13.58	19.42	68060	65670	97340	93920	1.70	8.00	21.3	
4	1.552	6	0.762	0.44	0.456	13.48	19.42	67550	65180	97340	93920	1.80	8.00	22.5	
5	0.670	4	0.501	0.20	0.197	6.07	8.41	66890	67900	92740	94150	1.50	8.00	18.8	
6	0.667	4	0.500	0.20	0.196	5.96	8.36	65760	67100	92180	94060	1.50	8.00	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Engineer Muhammad Irshad
Asst Dir Dev. DHA Gujranwala.(Sector G)

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

Client Reference: 111/15/AD/RS/Pkg-2B/1250

SOM Lab

Ref: 1718 (Page-1/1)

Dated: 06-02-2023

Dated: 07-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.636	8	0.993	0.79	0.775	27.88	34.30	77830	79340	95760	97620	1.20	8.00	15.00	
2	2.599	8	0.986	0.79	0.764	27.68	34.02	77270	79890	94970	98200	1.50	8.00	18.88	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

# 8	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

M. Tariq Shahzad
 Exec Dir Projects, The Lake City Developers (Pvt) Ltd Lahore.

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

Client Reference: LCRG/Test/018

SOM Lab

Ref: 1719 (Page-1/3)

Dated: 07-02-2023

Dated: 07-02-2023

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	2.645	8	0.995	0.79	0.777	26.07	35.52	72770	73990	99180	100840	1.20	8.00	15.00	
2	2.643	8	0.995	0.79	0.777	26.20	35.75	73140	74360	99800	101470	1.30	8.00	16.33	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

# 8	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

M. Tariq Shahzad
 Exec Dir Projects, The Lake City Developers (Pvt) Ltd Lahore.

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

Client Reference: LCRG/Test/017

SOM Lab

Ref: 1719 (Page-2/3)

Dated: 07-02-2023

Dated: 07-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	1.511	6	0.752	0.444	0.444	14.50	19.13	72660	72000	95910	95040	1.40	8.0	17.5	
2	1.507	6	0.751	0.443	0.443	14.24	19.01	71380	70900	95290	94650	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

M. Tariq Shahzad
 Exec Dir Projects, The Lake City Developers (Pvt) Ltd Lahore.

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

Client Reference: LCRG/Test/016

SOM Lab

Ref: 1719 (Page-3/3)

Dated: 07-02-2023

Dated: 07-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	0.673	4	0.502	0.20	0.198	6.29	8.23	69360	70060	90720	91630	1.50	8.0	18.8	
2	0.668	4	0.500	0.20	0.196	6.27	8.23	69130	70540	90720	92570	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Ayhan Sarica
PM A-BM Const.(New Pet Line Project Sadhoke Gujranwala)

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

Client Reference: ABMP-10/2023

Dated: 06-02-2023

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab

Ref: 1720(Page-1/1)

Dated: 07-02-2023

Test Specification: ASTM-A-615

Deformed

Bar

Sample Type:

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	0.667	4	0.500	0.20	0.196	6.19	8.56	68230	69630	94420	96350	1.30	8.00	16.3	
2	0.666	4	0.500	0.20	0.196	6.17	8.53	68010	69400	94090	96010	1.40	8.00	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: IHPL/Steel/233

SOM Lab

Ref: 1721 (Page-1/2)

Dated: 06-02-2023

Dated: 07-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Deformed

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	1.499	6	0.749	0.44	0.441	14.12	20.49	70770	70610	102700	102470	1.20	8.0	15.0	
2	1.496	6	0.748	0.44	0.440	13.99	20.29	70100	70100	101680	101680	1.30	8.0	16.3	
3	1.493	6	0.748	0.44	0.439	14.04	19.90	70360	70520	99740	99970	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Witnessed By: Engr.Fahad Hussain

BEND TEST:

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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: IHPL/Steel/232

SOM Lab

Ref: 1721 (Page-2/2)

Dated: 06-02-2023

Dated: 07-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Deformed

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	0.668	4	0.500	0.20	0.196	7.39	9.33	81500	83160	102860	104950	1.10	8.0	13.8	
2	0.666	4	0.500	0.20	0.196	7.31	9.25	80600	82240	101960	104040	1.00	8.0	12.5	
3	0.661	4	0.497	0.20	0.194	7.31	9.25	80600	83090	101960	105110	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Witnessed By: Engr.Fahad Hussain

BEND TEST:

# 4	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