MOLD & DIE TECHNOLOGY **Test Performed By:** Dr. /Engr. **Ubaid A Mughal**

A House of Mechining Solutions, Lahore

Client Reference: Nil **Dated:** 13-02-2019

SOM Lab Ref: CED/SOM/288 (Page-1/1) **Dated:** 13-02-2019

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

Sample Type: M S Plane 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^2	mm^2	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.992	22	22.03	380	381	126.00	183.20	331	331	482	481	37.5	200	18.8	(A)
2	3.163	22	22.65	380	403	127.00	194.20	334	316	511	482	37.5	200	18.8	(B)
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BEND TEST:

--	No Bend test performed

Note:-

Only Two Samples Received and Tested

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

Engr. Suresh Kumar **Test Performed By:** **Dr. /Engr.** **M Yousaf**

Resident Engineer, CAMEOS Consultant, ZMAK Road Project

Client Reference: **ZMAK/CAMEOS/RE/386** **Dated:** **11-02-2019**

SOM Lab Ref: **CED/SOM/296(Page-1/1)** **Dated:** **13-02-2019**

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^2	mm^2	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.857	25	25.00	491	491	233.50	333.70	476	476	680	680	27.5	200	13.8	
2	3.926	25	25.24	491	500	230.00	330.00	469	460	672	660	37.5	200	18.8	
3	2.461	20	19.98	314	314	160.00	217.00	509	511	691	693	32.5	200	16.3	
4	2.471	20	20.02	314	315	160.70	216.70	512	511	690	689	27.5	200	13.8	
5	1.598	16	16.10	201	204	102.20	136.20	508	503	677	670	25.0	200	12.5	
6	1.573	16	15.97	201	200	100.00	135.00	497	500	671	674	27.5	200	13.8	
7	0.900	12	12.08	113	115	56.00	73.00	495	489	645	637	30.0	200	15.0	
8	0.886	12	11.99	113	113	56.30	73.20	498	499	647	649	27.5	200	13.8	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack
20mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Twelve Samples Received and Tested

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

Innovative
Construction Company, Lahore

Test Performed By: Dr. /Engr. **Ubaid A Mughal**

Client Reference: nil
Dated: 13-02-2019

SOM Lab Ref: 287(Page-1/2)
Dated: 1302-2019

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	2.605	8	0.988	0.79	0.766	25.89	34.66	72290	74550	96760	99790	1.30	8.0	16.3	
2	1.476	6	0.743	0.44	0.434	20.90	23.14	104750	106190	115990	117590	0.70	8.0	8.8	
3	1.043	5	0.625	0.31	0.307	12.13	14.93	86300	87150	106250	107280	1.10	8.0	13.8	
4	0.660	4	0.497	0.20	0.194	6.88	9.17	75880	78220	101170	104300	1.10	8.0	13.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 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:-

Only Eight Samples Received and Tested

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

Innovative Construction Company, Lahore

Test Performed By: Dr. /Engr. **Ubaid A Mughal**

Client Reference: nil

Dated: 13-02-2019

SOM Lab Ref: 287(Page-2/2)

Dated: 13-02-2019

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615 Deformed Bar (Karachi Steel)

Gauge Length: 8 inch

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	1.049	5	0.626	0.31	0.308	11.88	14.78	84490	85040	105160	105840	1.20	8.0	15.0	
2	0.657	4	0.496	0.20	0.193	6.83	9.14	75320	78050	100830	104490	1.10	8.0	13.8	
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BEND TEST:

# 5	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Four Samples Received and Tested

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

Battala Steel
Lahore

Test Performed By: Dr. /Engr. **Ubaid A Mughal**

Client Reference: nil
Dated: 13-02-2019

SOM Lab Ref: 289(Page-1/1)
Dated: 13-02-2019

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	2.674	8	1.000	0.79	0.786	24.31	36.26	67870	68220	101230	101740	1.20	8.0	15.0	
2	1.536	6	0.758	0.44	0.451	14.07	20.08	70510	68790	100660	98200	1.10	8.0	13.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Four Samples Received and Tested

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

Muhammad Aftab **Test Performed By:** **Dr. /Engr. M Yousaf**

Project Coordinator, Banu Mukhtar Contracting (Pvt) Ltd. Lahore

Client Reference: **BML/PC/Pioneer Cement/105** **SOM Lab Ref:** **290(Page-1/1)**

Dated: **13-02-2019** **Dated:** **13-02-2019**

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	2.652	8	0.996	0.79	0.779	25.91	33.89	72340	73360	94620	95960	1.40	8.0	17.5	
2	2.649	8	0.995	0.79	0.778	25.86	33.73	72200	73310	94170	95620	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Sub Divisional Officer **Test Performed By:** **Dr. /Engr. M Yousaf**

Buildings Sub Division, Nankana Sahib

Client Reference: 109- **SOM Lab Ref: 291 (Page-1/1)**

Dated: 12-02-2019 **Dated: 13-02-2019**

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	2.674	8	1.000	0.79	0.786	22.17	35.58	61900	62210	99320	99820	1.20	8.0	15.0	
2	2.653	8	0.997	0.79	0.780	22.14	35.22	61810	62610	98320	99580	1.10	8.0	13.8	
3	1.038	5	0.623	0.31	0.305	8.03	12.18	57150	58090	86670	88090	1.30	8.0	16.3	
4	1.002	5	0.612	0.31	0.294	7.85	12.01	55840	58880	85430	90080	1.30	8.0	16.3	
5	0.661	4	0.497	0.20	0.194	5.76	8.28	63510	65480	91280	94100	1.30	8.0	16.3	
6	0.664	4	0.498	0.20	0.195	5.76	7.70	63510	65140	84870	87050	1.00	8.0	12.5	
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BEND TEST:

# 8	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:-

Only Nine Samples Received and Tested

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

KH Adnan Ghias
for Tijaarat Developers, Lahore

Test Performed By: Dr. /Engr. **Ubaid A Mughal**

Client Reference: nil
Dated: 13-02-2019

SOM Lab Ref: 293 (Page-1/1)
Dated: 13-02-2019

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	2.556	8	0.978	0.79	0.751	24.38	32.47	68070	71610	90640	95350	1.60	8.0	20.0	
2	2.548	8	0.977	0.79	0.749	24.08	32.31	67220	70900	90210	95150	1.40	8.0	17.5	
3	1.633	6	0.782	0.44	0.480	15.90	20.41	79710	73070	102290	93770	1.40	8.0	17.5	
4	1.623	6	0.779	0.44	0.477	16.31	20.56	81750	75410	103060	95070	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Zubair Feed (Pvt) Ltd
Depalpur Road Pakpattan

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: nil
Dated: 12-02-2019

SOM Lab Ref: 294 (Page-1/1)
Dated: 13-02-2019

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	1.475	6	0.743	0.44	0.433	11.49	17.40	57590	58520	87220	88630	1.40	8.0	17.5	
2	1.476	6	0.743	0.44	0.434	11.39	17.20	57080	57860	86200	87390	1.50	8.0	18.8	
3	0.668	4	0.500	0.20	0.196	4.59	6.49	50590	51620	71610	73070	1.80	8.0	22.5	
4	0.636	4	0.488	0.20	0.187	3.92	6.60	43280	46290	72730	77790	1.90	8.0	23.8	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Engr M. Umair Waqas Khan **Test Performed By:** **Dr. /Engr.** **M Rizwan Riaz**

Deputy Project Coordinator, Al Hussain Contractors, (Contract No. TLC- 03-2017)

Client Reference: **AHT/TLC-03/842-45** **SOM Lab Ref:** **295(Page-1/2)**

Dated: **12-02-2019** **Dated:** **13-02-2019**

Test: **Tension Test & Bend Test** **Test Specification:** **ASTM-A-615**

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (Fazal 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	3.472	9	1.140	1.00	1.020	44.85	51.50	98920	96980	113580	111350	1.10	8.0	13.8	
2	3.362	9	1.122	1.00	0.988	40.80	48.37	89970	91070	106680	107970	1.00	8.0	12.5	
3	3.345	9	1.119	1.00	0.983	39.32	47.17	86710	88210	104020	105820	1.20	8.0	15.0	
4	3.385	9	1.126	1.00	0.995	35.09	44.90	77380	77770	99030	99530	1.50	8.0	18.8	
5	2.621	8	0.990	0.79	0.770	28.54	35.09	79680	81750	97950	100500	1.20	8.0	15.0	
6	2.658	8	0.997	0.79	0.781	28.75	35.34	80250	81180	98660	99800	1.10	8.0	13.8	
7	2.021	7	0.870	0.60	0.594	20.92	26.93	76890	77670	99000	100000	1.10	8.0	13.8	
8	2.002	7	0.865	0.60	0.588	20.97	26.78	77080	78650	98430	100440	1.00	8.0	12.5	
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BEND TEST:

# 9(S.1,2)	Sample bend through 180 degrees Satisfactorily without any crack
# 9(S.3,4)	Sample bend through 180 degrees Satisfactorily without any crack
# 8(S.5,6)	Sample bend through 180 degrees Satisfactorily without any crack
# 7(S.7,8)	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Sixteen Samples Received and Tested

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

Engr M. Umair Waqas Khan **Test Performed By:** **Dr. /Engr.** **M Rizwan Riaz**

Deputy Project Coordinator, Al Hussain Contractors, (Contract No. TLC- 03-2017)

Client Reference: **AHT/TLC-03/842-45** **SOM Lab Ref:** **295(Page-2/2)**

Dated: **12-02-2019** **Dated:** **13-02-2019**

Test: **Tension Test & Bend Test** **Test Specification:** **ASTM-A-615**

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (Fazal 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	1.478	6	0.743	0.44	0.434	13.58	18.96	68060	69000	95040	96350	1.00	8.0	12.5	
2	1.471	6	0.742	0.44	0.432	14.39	19.54	72150	73480	97950	99760	1.20	8.0	15.0	
3	0.665	4	0.498	0.20	0.195	5.50	9.14	60700	62260	100830	103420	1.30	8.0	16.3	
4	0.663	4	0.498	0.20	0.195	5.61	9.30	61830	63410	102520	105150	1.20	8.0	15.0	
5	0.661	4	0.497	0.20	0.194	5.71	9.14	62950	64900	100830	103950	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Ten Samples Received and Tested

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

Sub Divisional Officer **Test Performed By:** **Dr. /Engr. Ubaid A Mughal**

Buildings Sub Division, No 5, Lahore

Client Reference: 27/5th **SOM Lab Ref: 297 (Page-1/1)**

Dated: 23-01-2019 **Dated: 13-02-2019**

Test: Tension 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	2.521	8	0.971	0.79	0.741	26.12	33.97	72910	77730	94820	101090	1.10	8.0	13.8	
2	1.465	6	0.741	0.44	0.431	10.50	13.32	52630	53730	66780	68180	1.50	8.0	18.8	
3	0.692	4	0.508	0.20	0.203	7.46	9.40	82290	81070	103640	102110	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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