

Engr Bilal Shahid

Test Performed By:

Dr. /Engr.

Numan Khurram

Ittefaq Building Solutions (Pvt) Ltd. Lahore (Project: Superior House)

Client Reference: Superior House/01

Dated: 02-08-2019

SOM Lab Ref: CED/SOM/1228(Page-1/1)

Dated: 02-08-2019

Test: Tension Test

Test Specification:

ASTM-A-615

Sample Type: M S 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	2.214	19	18.95	284	282	155.50	199.00	548	552	702	706	2.5	200	1.3	D-6203
2	2.222	19	18.98	284	283	154.00	199.50	543	545	704	705	25.0	200	12.5	D-6203
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C-3683
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C-3683
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D-5062
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D-5062
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B-5098
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B-5098
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Witnessed By: Kashif Ramzan

BEND TEST:

-- No Bend test performed

Note:-

Only Four Samples Received and Tested

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

Haseeb ul Rehman
 ESP Sallution , Macrise (Pvt) Ltd, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: MAC/ M31C/EPS 290/Lab/008

Dated: 02-08-2019

SOM Lab Ref: CED/SOM/1234 (Page-1/2)

Dated: 02-08-2019

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S 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	2.970	22	21.94	380	378	179.20	253.70	471	475	667	672	37.5	200	18.8	
2	2.974	22	21.96	380	379	179.70	253.00	473	475	666	668	35.0	200	17.5	
3	2.367	20	19.59	314	302	180.20	225.20	574	598	717	747	25.0	200	12.5	
4	2.375	20	19.63	314	303	179.50	222.20	571	594	707	735	27.5	200	13.8	
5	0.883	13	11.97	133	113	56.20	76.20	423	500	574	678	30.0	200	15.0	
6	0.895	13	12.05	133	114	68.20	84.20	514	599	634	739	25.0	200	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

22mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
13mm	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

Haseeb ul Rehman
 ESP Sallution , Macrise (Pvt) Ltd, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: MAC/ M31C/EPS 290/Lab/007

Dated: 02-08-2019

SOM Lab Ref: CED/SOM/1234 (Page-2/2)

Dated: 02-08-2019

Test: Tension Test & Bend Test

Test Specification: ASTM-F-1554

Sample Type: J Bolt

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	1.406	16	15.10	201	179	70.50	105.70	351	394	526	591	20.0	50	40.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

Engr Bilal Shahid
 Ittefaq Building Solutions (Pvt) Ltd. Lahore (Project: Superior House)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Superior House/01

SOM Lab
 Ref: 1228(Page-1/1)

Dated: 02-08-2019

Dated: 02-08-2019

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	2.625	6	0.991	0.44	0.771	15.67	19.67	78530	44820	98610	56280	1.20	8.0	15.0	
2	0.679	4	0.505	0.20	0.200	6.09	9.30	67110	67110	102520	102520	1.00	8.0	12.5	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four 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

Maj Adnan khalid®

Test Performed By: Dr. /Engr.

Nauman
Khurram

Dy Dir MTL, Infra Development Works, Sector - E, DHA Phase IX - (M/S Inland)

Client Reference: 408/241/E/Lab/658/83

SOM Lab

Ref: 1229(Page-1/1)

Dated: 31-07-2019

Dated: 02-08-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (City 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	2.634	8	0.993	0.79	0.774	21.87	34.68	61040	62310	96820	98820	1.20	8.0	15.0	
2	2.763	8	1.017	0.79	0.812	21.78	34.91	60820	59170	97470	94830	1.20	8.0	15.0	
3	1.451	6	0.736	0.44	0.426	12.39	19.13	62080	64120	95910	99060	1.30	8.0	16.3	
4	1.454	6	0.737	0.44	0.427	12.30	19.22	61670	63550	96320	99250	1.30	8.0	16.3	
5	0.664	4	0.498	0.20	0.195	5.96	9.35	65760	67450	103080	105720	1.10	8.0	13.8	
6	0.662	4	0.498	0.20	0.195	5.91	9.33	65200	66870	102860	105490	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

M Abubakar
Maintenance Engineer-II, University of The Punjab, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: nil

SOM Lab

Ref: 1230(Page-1/1)

Dated: 30-07-2019

Dated: 02-08-2019

Test: Tension 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	0.669	4	0.501	0.20	0.197	5.07	7.29	55870	56720	80370	81600	1.00	8.0	12.5	
2	0.670	4	0.501	0.20	0.197	5.05	7.29	55650	56490	80370	81600	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Prof . Dr. Aman Ullah Khan

Acting Project Director, Air University, Multan Campus, 4-5th Floor, Khan Centre, Abdali Road, Multan

Test Performed By:

Dr. /Engr. Nauman Khurram

Client Reference: MUX/AUMC/AB1/2018/104

Dated: 01-08-2019

SOM Lab

Ref: 1231(P-1/1)

Dated: 02-08-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Itteaq 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	2.590	8	0.984	0.79	0.761	25.18	33.05	70290	72970	92260	95780	1.30	8.0	16.3	
2	2.612	8	0.989	0.79	0.768	27.54	34.53	76900	79100	96390	99150	1.20	8.0	15.0	
3	1.489	6	0.747	0.44	0.438	16.97	21.15	85070	85460	106020	106510	1.00	8.0	12.5	
4	1.503	6	0.750	0.44	0.442	15.72	20.00	78790	78430	100250	99800	1.00	8.0	12.5	
5	1.033	5	0.622	0.31	0.304	10.16	12.54	72310	73730	89200	90960	1.20	8.0	15.0	
6	1.037	5	0.623	0.31	0.305	10.35	12.74	73610	74820	90650	92140	1.10	8.0	13.8	
7	0.660	4	0.497	0.20	0.194	4.86	7.10	53620	55280	78350	80770	1.50	8.0	18.8	
8	0.662	4	0.498	0.20	0.195	4.81	7.16	53060	54420	78910	80940	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Managing Director
M/S Malik Habib & Brothers

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: MHB/QA-QC/64 Men Barracks/05

SOM Lab
Ref: 1232(Page-1/1)

Dated: 31-07-2019

Dated: 02-08-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Moiz 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	1.159	5	0.659	0.31	0.341	12.10	15.39	86090	78260	109510	99550	1.10	8.0	13.8	
2	1.144	5	0.654	0.31	0.336	11.72	14.90	83400	76950	106030	97820	1.20	8.0	15.0	
3	0.669	4	0.501	0.20	0.197	7.21	9.55	79470	80690	105330	106930	0.80	8.0	10.0	
4	0.678	4	0.503	0.20	0.199	7.24	9.50	79810	80210	104770	105290	1.00	8.0	12.5	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

# 5	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

Waqas Ali

Test Performed By:

Dr. /Engr.

Nauman
Khurram

Supply Chain Ececutive, International Petrochemicals (Pvt) Ltd. PACHEM, Global (Pvt) Ltd. Lahore

Client Reference: Nil

SOM Lab

Ref:

1235(Page-1/1)

Dated: nil

Dated:

02-08-2019

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	0.586	4	0.468	0.20	0.172	5.86	8.21	64640	75160	90490	105220	1.00	8.0	12.5	
2	0.592	4	0.471	0.20	0.174	5.96	8.38	65760	75590	92400	106210	0.90	8.0	11.3	
3	0.594	4	0.472	0.20	0.175	5.76	8.02	63510	72590	88470	101100	0.80	8.0	10.0	
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BEND TEST:

--	No Bend test performed	Note:- Only Three Samples Received and Tested

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