

Muhammad Yaseen

Test Performed By: Dr. /Engr. Bilal A. Khokhar

Equator Engineering Services, Engineers & Contractors, Chak Shahzad(Site ID: 51989, 51826)

Client Reference: Equator/Steel/CMPAK/019

Dated: 01-04-2019

SOM Lab Ref: CED/SOM/612(Page-1/1)

Dated: 08-04-2019

Test: Tension and 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	2.248	20	19.08	314	286	128.50	194.50	409	450	619	681	37.5	200	18.8	
2	2.232	20	19.03	314	284	128.50	193.50	409	452	616	681	30.0	200	15.0	
3	1.066	12	13.15	113	136	59.00	85.00	522	435	752	626	35.0	200	17.5	
4	1.107	12	13.40	113	141	76.00	93.50	672	539	827	663	32.5	200	16.3	
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BEND TEST:

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

Resident Engineer,
DKC. NESPAK (Pvt) Ltd.

Test Performed By: Dr. /Engr. Bilal A. Khokhar

Client Reference: SA-394/ DKC/C. Test /SM/50

Dated: 06-04-2019

SOM Lab Ref: CED/SOM/620 (Page-1/1)

Dated: 08-04-2019

Test: Tension Test

Test Specification: ASTM-F-1554

Sample Type: Anchor - 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	3.960	25	25.33	491	504	289.00	445.00	589	574	907	883	12.5	50	25.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

Mustafa Ali

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Manager Coordination, IZHAR Construction (Pvt) Ltd. Lahore

Client Reference: ICPL/CONST- HNMPL/19/28

Dated: 11-04-2019

SOM Lab Ref: CED/SOM/634(Page-1/1)

Dated: 11-04-2019

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	0.898	12	12.05	113	114	60.50	76.50	535	531	676	672	27.5	200	13.8	
2	0.898	12	12.07	113	114	59.50	76.70	526	521	678	671	25.0	200	12.5	
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BEND TEST:

12mm	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 Ishaq

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Junior Research Officer-I, Building Research Station, Lahore

Client Reference: 154-R/865

Dated: 10-04-2019

SOM Lab Ref: CED/SOM/635(Page-2/2)

Dated: 11-04-2019

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Sample Type: Deformed Bar(Pakistan 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	0.909	12	12.15	113	116	56.20	81.50	497	485	721	703	30.0	200	15.0	
2	0.911	12	12.16	113	116	57.00	81.20	504	491	718	700	32.5	200	16.3	
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BEND TEST:

12mm	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 Imran
Executive Engineer/HQ, P.R. H Q. Office Lahore

Test Performed By: Dr. /Engr. Bilal A. Khokhar

Client Reference: W-2/cairn Hospital

SOM Lab

Ref: 611(Page-1/1)

Dated: 06-04-2019

Dated: 08-04-2019

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	1.480	6	0.744	0.44	0.435	16.67	21.36	83540	84500	107040	108280	1.00	8.0	12.5	
2	1.467	6	0.741	0.44	0.431	15.97	20.74	80070	81740	103980	106150	1.00	8.0	12.5	
3	0.686	4	0.507	0.20	0.202	6.60	8.99	72730	72010	99150	98160	1.00	8.0	12.5	
4	0.652	4	0.494	0.20	0.192	7.05	9.48	77790	81030	104540	108900	0.90	8.0	11.3	
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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

Muhammad Saleem
GM, Professional Construction Services (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. Bilal A. Khokhar

Client Reference: PCS/19/Eng-271-B

SOM Lab

Ref: 613(Page-1/3)

Dated: 08-04-2019

Dated: 08-04-2019

Test: Tension Test

Test Specification:

ASTM-A-615

Guage 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	0.656	4	0.496	0.20	0.193	7.46	9.14	82290	85270	100830	104490	0.90	8.0	11.3	
2	0.660	4	0.497	0.20	0.194	7.60	9.25	83860	86450	101960	105110	0.90	8.0	11.3	
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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

Muhammad Saleem
GM, Professional Construction Services (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. Bilal A. Khokhar

Client Reference: PCS/19/Eng-271-C

SOM Lab

Ref: 613(Page-2/3)

Dated: 08-04-2019

Dated: 08-04-2019

Test: Tension Test

Test Specification:

ASTM-A-615

Guage 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	1.485	6	0.745	0.44	0.436	17.25	20.95	86450	87250	105000	105960	1.00	8.0	12.5	
2	1.478	6	0.743	0.44	0.434	14.75	19.01	73940	74960	95290	96610	1.30	8.0	16.3	
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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

Muhammad Saleem
 GM, Professional Construction Services (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. Bilal A. Khokhar

Client Reference: PCS/19/Eng-271-D

SOM Lab

Ref: 613(Page-3/3)

Dated: 08-04-2019

Dated: 08-04-2019

Test: Tension Test

Test Specification:

ASTM-A-615

Guage 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	2.544	8	0.976	0.79	0.748	24.97	32.77	69720	73640	91490	96630	1.40	8.0	17.5	
2	2.562	8	0.979	0.79	0.753	24.79	32.87	69210	72610	91780	96290	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

Maj Adnan khalid®

Test Performed By: Dr. /Engr. Bilal A. Khokhar

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

Client Reference: 408/241/E/Lab/509/101

SOM Lab

Ref: 614(Page-1/1)

Dated: 02-04-2019

Dated: 08-04-2019

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	0.666	4	0.500	0.20	0.196	6.09	9.48	67110	68480	104540	106670	1.00	8.0	12.5	
2	0.665	4	0.498	0.20	0.195	6.17	9.45	68010	69750	104200	106880	1.10	8.0	13.8	
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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

Shahid Hussain Abro

Campus Engineer, Engg Cell, Govt College University, Lahore(Boundary Wall at KSK Campus GCU)

Test Performed By: Dr. /Engr. Bilal a. Khokhar

Client Reference: GCU/Engr/004/P

Dated: 04-04-2018

Test: Tension Test

Gauge Length: 8 inch

SOM Lab

Ref: 616(Page-1/1)

Dated: 08-04-2018

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	1.489	6	0.747	0.44	0.438	12.33	18.60	61830	62110	93250	93680	1.50	8.0	18.8	
2	1.506	6	0.751	0.44	0.443	13.48	20.54	67550	67090	102960	102260	1.30	8.0	16.3	
3	0.657	4	0.496	0.20	0.193	6.07	8.46	66890	69310	93300	96680	1.30	8.0	16.3	
4	0.656	4	0.496	0.20	0.193	6.14	8.48	67670	70130	93530	96920	1.40	8.0	17.5	
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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

Maj Adnan khalid®

Test Performed By:

Dr. /Engr.

Bilal A. Khokhar

Dy Dir MTL, Const of Mosque at Sector - N, DHA - VI - (M/S A to Z Const)

Client Reference: 408/241/E/Lab/518

SOM Lab

Ref:

617(Page-1/1)

Dated: 08-04-2019

Dated:

08-04-2019

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	2.619	8	0.990	0.79	0.770	21.61	32.77	60330	61900	91490	93870	1.30	8.0	16.3	
2	2.613	8	0.989	0.79	0.768	23.52	34.63	65650	67540	96670	99440	1.40	8.0	17.5	
3	1.488	6	0.746	0.44	0.437	15.62	21.68	78280	78820	108680	109430	1.00	8.0	12.5	
4	1.481	6	0.744	0.44	0.435	15.09	21.81	75620	76490	109340	110600	1.10	8.0	13.8	
5	0.672	4	0.501	0.20	0.197	5.96	9.33	65760	66760	102860	104420	1.30	8.0	16.3	
6	0.674	4	0.502	0.20	0.198	6.01	9.33	66320	66990	102860	103890	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

Aftab Ahmed
Resident Engineer, Amad Anwar & Partners, Office # 12, 2nd Floor, Divine Center, New Airport Road, Lahore Cantt

Test Performed By:

Dr. /Engr.

Bilal A. Khokhar

Client Reference: 410/4/Business Hub/Ph-VIII/M&F

SOM Lab Ref: 618(Page-1/2)

Dated: 01-04-2019

Dated: 08-04-2019

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	0.646	4	0.492	0.20	0.190	5.76	8.74	63510	66860	96340	101410	1.20	8.0	15.0	
2	0.640	4	0.489	0.20	0.188	5.78	8.74	63740	67810	96340	102480	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

Aftab Ahmed
Resident Engineer, Amad Anwar & Partners, Office # 12, 2nd Floor, Divine Center, New Airport Road, Lahore Cantt

Test Performed By: Dr. /Engr. Bilal A. Khokharhmed

Client Reference: 410/6/Business Hub/Ph-VIII/M&F

SOM Lab Ref: 618(Page-2/2)

Dated: 01-04-2019

Dated: 08-04-2019

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	1.523	6	0.755	0.44	0.448	13.71	19.49	68730	67500	97690	95950	1.40	8.0	17.5	
2	1.529	6	0.756	0.44	0.449	13.81	19.62	69240	67850	98360	96390	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

Shahid Hussain Abro

Campus Engineer, Engg Cell, Govt College University, Lahore(Boundary Wall at KSK Campus GCU)

Test Performed By: Dr. /Engr. Bilal a. Khokhar

Client Reference: GCU/Engr/004/P

Dated: 04-04-2018

Test: Tension Test

Gauge Length: 8 inch

SOM Lab

Ref: 616(Page-1/1)

Dated: 08-04-2018

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	1.489	6	0.747	0.44	0.438	12.33	18.60	61830	62110	93250	93680	1.50	8.0	18.8	
2	1.506	6	0.751	0.44	0.443	13.48	20.54	67550	67090	102960	102260	1.30	8.0	16.3	
3	0.657	4	0.496	0.20	0.193	6.07	8.46	66890	69310	93300	96680	1.30	8.0	16.3	
4	0.656	4	0.496	0.20	0.193	6.14	8.48	67670	70130	93530	96920	1.40	8.0	17.5	
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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

Salman Ahmad Sayal

Architect & Partner, Design Dimensions,(Project: Bank Al Habib Ltd, Canal Road Premises-Faisalabad)

Test Performed By: Dr. /Engr. Bilal A. Khokhar

Client Reference: DD/BAHL-CRDFBD/RS/002

Dated: 08-04-2019

Test: Tension Test & Bend Test

Test Specification:

Gauge Length: 8 inch

Sample Type:

SOM Lab

Ref: 619(page-1/1)

Dated: 08-04-2019

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	2.553	8	0.977	0.79	0.750	25.35	34.30	70780	74550	95760	100870	1.40	8.0	17.5	
2	1.449	6	0.736	0.44	0.426	14.27	18.93	71540	73890	94880	98000	1.40	8.0	17.5	
3	0.646	4	0.492	0.20	0.190	6.14	8.07	67670	71230	89030	93710	0.90	8.0	11.3	
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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