

Resident Engineer/Team Leader
 Prime Engineering Consultat, Kallurkot Bdrge Project

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

Client Reference: KK-DIK-BR-PJ/2021/275
SOM Lab Ref: CED/SOM/4086(Page-1/1)
Test: Tension Test & bend Test
Sample Type: Deformed Bar(Pak Steel)

Dated: 21-03-2021
Dated: 22-03-2021
Test Specification: ASTM-A 615
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	3.917	25	25.21	491	499	266.70	334.50	543	535	681	671	32.5	200	16.3	
2	2.436	20	19.88	314	310	153.70	210.50	489	496	670	679	30.0	200	15.0	
3	0.893	12	12.04	113	114	51.70	74.70	457	455	660	657	30.0	200	15.0	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
20mm	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

Shahid Builders (Pvt) Ltd.

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Construction of Proposed Trust School For Amir Town Harbanspura, Lahore

Client Reference: SBL/2021/UET-TEDS/1222

SOM Lab

Ref: 4087 (Page-1/1)

Dated: 22-03-2021

Dated:

22-03-2021

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	2.617	8	0.990	0.79	0.769	26.66	35.49	74420	76450	99090	101800	1.60	8.0	20.0	
2	2.616	8	0.990	0.79	0.769	26.32	35.29	73480	75490	98520	101210	1.50	8.0	18.8	
3	1.498	6	0.748	0.44	0.440	13.83	19.13	69340	69340	95910	95910	1.20	8.0	15.0	
4	1.498	6	0.748	0.44	0.440	13.66	18.98	68470	68470	95140	95140	1.10	8.0	13.8	
5	0.674	4	0.502	0.20	0.198	6.22	8.63	68570	69260	95210	96170	1.30	8.0	16.3	
6	0.675	4	0.502	0.20	0.198	6.17	8.63	68010	68700	95210	96170	1.20	8.0	15.0	
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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

Anis Ahmed
Senior Engineer, Mansoor Mazhar & Associates, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: nil

Dated: 22-03-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 4088(Page-1/1)

Dated: 22-03-2021

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	2.589	8	0.984	0.79	0.761	23.36	33.69	65230	67710	94050	97640	1.50	8.0	18.8	
2	1.460	6	0.739	0.44	0.429	12.97	17.91	65000	66660	89780	92080	1.40	8.0	17.5	
3	0.667	4	0.500	0.20	0.196	6.34	8.15	69920	71350	89930	91760	1.40	8.0	17.5	
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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

Wasif Manzoor

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Salman Developers, Site Office: 8-E/III Gulberg-III, Lahore (Project: Grand Square Mall)

Client Reference: nil

SOM Lab

4089(Page-

Ref:

1/1)

Dated: 22-03-2021

Dated:

22-03-2021

Test: Tension Test & Bend 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	2.607	8	0.988	0.79	0.766	27.78	36.82	77550	79980	102790	106010	1.40	8.0	17.5	
2	2.604	8	0.987	0.79	0.765	24.72	32.52	69010	71270	90780	93750	1.20	8.0	15.0	
3	1.467	6	0.741	0.44	0.431	13.02	18.62	65250	66610	93350	95300	1.10	8.0	13.8	
4	1.465	6	0.741	0.44	0.431	13.17	18.93	66020	67400	94880	96870	1.40	8.0	17.5	
5	0.667	4	0.500	0.20	0.196	5.52	8.77	60930	62170	96670	98650	1.20	8.0	15.0	
6	0.662	4	0.498	0.20	0.195	5.52	8.77	60930	62490	96670	99150	1.20	8.0	15.0	
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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. Saleem Tahir
Project Manager, IZHAR Construction (Pvt) Ltd. Lahore

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

Client Reference: ICPL/QFNST/20/03

SOM Lab 4090-4096(Page-1/1)
Ref:

Dated: 20-03-2021

Dated: 22-03-2021

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	2.588	8	0.984	0.79	0.761	25.96	32.13	72480	75250	89700	93120	1.50	8.0	18.8	
2	2.597	8	0.986	0.79	0.763	25.96	32.13	72480	75050	89700	92870	1.50	8.0	18.8	
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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

Engr. Muddasir Tahir
Construction Manager, Zameen Aurum, Lahore

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

Client Reference: ZD/ZA/STR007

SOM Lab

Ref: 4091(Page-1/1)

Dated: 22-03-2021

Dated: 22-03-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Batala 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	2.623	8	0.991	0.79	0.771	23.96	35.78	66880	68530	99890	102350	1.20	8.0	15.0	
2	2.625	8	0.991	0.79	0.771	24.06	35.17	67160	68820	98180	100600	1.40	8.0	17.5	
3	1.491	6	0.747	0.44	0.438	13.63	19.67	68320	68630	98610	99060	1.20	8.0	15.0	
4	1.490	6	0.747	0.44	0.438	14.07	19.98	70510	70840	100150	100600	1.10	8.0	13.8	
5	0.661	4	0.497	0.20	0.194	6.42	8.87	70820	73010	97800	100820	1.00	8.0	12.5	
6	0.661	4	0.497	0.20	0.194	7.14	9.28	78690	81120	102290	105460	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

Abdul Ghafar
Project Manager Liberty Builders, Lahore

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

Client Reference: ST/UET/ 20210322-40

SOM Lab

Ref: 4092(Page-1/1)

Dated: 22-03-2021

Dated: 22-03-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Batala Premium)

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	2.630	8	0.992	0.79	0.773	23.14	35.12	64600	66020	98040	100190	1.10	8.0	13.8	
2	2.645	8	0.995	0.79	0.777	23.24	35.17	64890	65970	98180	99820	1.20	8.0	15.0	
3	2.642	8	0.994	0.79	0.776	23.65	35.42	66020	67220	98890	100680	1.20	8.0	15.0	
4	0.671	4	0.501	0.20	0.197	6.03	8.97	66550	67560	98920	100430	1.30	8.0	16.3	
5	0.667	4	0.500	0.20	0.196	5.91	8.77	65200	66530	96670	98650	1.10	8.0	13.8	
6	0.660	4	0.497	0.20	0.194	5.81	8.84	64080	66060	97460	100470	1.10	8.0	13.8	
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BEND TEST:

# 8	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

Abdul Ghafar
Project Manager Liberty Builders, Lahore

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

Client Reference: ST/UET/ 20210322-32

SOM Lab

Ref: 4093(Page-1/1)

Dated: 22-03-2021

Dated: 22-03-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Batala Premium)

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	2.661	8	0.998	0.79	0.782	22.14	32.03	61810	62450	89420	90330	1.40	8.0	17.5	
2	2.657	8	0.997	0.79	0.781	22.65	32.93	63240	63960	91920	92980	1.40	8.0	17.5	
3	2.590	8	0.984	0.79	0.761	23.19	32.28	64740	67210	90130	93560	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

# 8	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

BeaCon Impex Private Ltd.
Faisalabad

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

Client Reference: B. I/Civil/21-111
Dated: 18-03-2021
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 4095(Page - 1/1)
Dated: 22-03-2021
Test Specification: ASTM-A-615
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	2.614	8	0.989	0.79	0.768	25.28	33.35	70580	72600	93120	95780	1.50	8.0	18.8	
2	2.626	8	0.991	0.79	0.772	25.33	33.46	70720	72370	93400	95580	1.30	8.0	16.3	
3	1.479	6	0.744	0.44	0.435	16.16	20.69	80990	81920	103720	104920	1.00	8.0	12.5	
4	1.478	6	0.743	0.44	0.434	16.48	21.10	82620	83760	105770	107230	1.00	8.0	12.5	
5	0.672	4	0.501	0.20	0.197	5.96	9.02	65760	66760	99480	101000	1.10	8.0	13.8	
6	0.673	4	0.502	0.20	0.198	5.86	8.97	64640	65290	98920	99920	1.20	8.0	15.0	
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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

Test Performed by: Dr. S. Asad Ali Gillani

Khalid Mahmood
Resident Engineer
NESPAK (Pvt) Ltd.
Resident Construction Supervision for Establishment of Dera Ghazi Khan
Institute of Cardiology

Client Reference: 4161/RE/SFMKB/DGK/259 Dated 17-03-2021

SOM Laboratory Reference: CED/SOM/4094(Page-1/1) Dated 22-03-2021

Test: Tensile Strength, Elongation, Hardness Test,

Sample Type: Bitumen Membrane Sheet

TENSILE STRENGTH AND ELONGATION TEST. (AS PER ASTM-D-412)

Sample Testing Condition	Tensile Strength (Mpa)	% Elongation at Break
Transverse	4.42	84.0
Longitudinal	3.09	70.0

HARDNESS TEST (AS PER ASTM-D-2240)

S. No	Hardness (A Shore)
1	85.0

