

Khalid Bashir

Test Performed By:

Dr. /Engr.

Nauman Khurram

Ittefaq Building Solutions (Pvt) Ltd. Lahore (Sapphire Diamond Ferozwatwan, Yarn Warehouse)

Client Reference: IBS/SD/ST04

Dated: 08-11-2021

SOM Lab Ref: CED/SOM/5270(Page-1/1)

Dated: 08-11-2021

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	3.905	25	25.16	491	497	254.00	337.50	517	512	688	680	30.0	200	15.0	
2	0.951	12	12.42	113	121	64.70	85.50	572	535	756	706	25.0	200	12.5	
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BEND TEST:

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

Amer Adnan Associates
17-E-II Gulberg III, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 5265(Page-1/1)

Dated: 08-11-2021

Dated: 08-11-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (AFCO 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	2.523	8	0.971	0.79	0.741	22.45	34.56	62670	66810	96470	102850	1.20	8.0	15.0	
2	2.510	8	0.969	0.79	0.738	22.58	35.14	63040	67480	98100	105010	1.30	8.0	16.3	
3	1.431	6	0.732	0.44	0.421	12.59	16.69	63100	65950	83640	87420	1.40	8.0	17.5	
4	1.517	6	0.754	0.44	0.446	12.71	17.43	63720	62860	87370	86200	1.50	8.0	18.8	
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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	

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

Kifayat Hussain Naqvi

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Chief Resident Engineer, Kachhi Canal Remaining Works Consultants-Dera Allah Yar, MM Pakistan

SOM Lab

Client Reference: KCP/CRE/KC6B(3R)/UET/25

Ref: 5266 (Page-1/1)

Dated: 05-11-2021

Dated: 08-11-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Nomee 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	2.660	8	0.998	0.79	0.782	26.01	33.15	72630	73370	92550	93490	1.60	8.0	20.0	
2	2.671	8	1.000	0.79	0.785	26.68	33.84	74480	74950	94480	95080	1.50	8.0	18.8	
3	1.504	6	0.750	0.44	0.442	14.65	18.73	73430	73090	93860	93440	1.00	8.0	12.5	
4	1.500	6	0.749	0.44	0.441	14.58	19.59	73070	72900	98210	97980	1.00	8.0	12.5	
5	1.019	5	0.617	0.31	0.299	10.83	13.66	77020	79850	97180	100760	1.10	8.0	13.8	
6	1.025	5	0.619	0.31	0.301	10.52	13.40	74840	77080	95370	98220	1.20	8.0	15.0	
7	0.666	4	0.500	0.20	0.196	5.73	8.87	63180	64470	97800	99790	1.10	8.0	13.8	
8	0.672	4	0.501	0.20	0.197	5.91	8.89	65200	66190	98020	99510	1.10	8.0	13.8	
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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

Malik Steel

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Malik Steel Sales Depot, Main Peco Road Badami Bagh Lahore

SOM Lab

Client Reference: Nil

Ref:

5268(Page-1/1)

Dated: 08-11-2021

Dated:

08-11-2021

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	1.530	6	0.757	0.44	0.450	12.23	18.45	61320	59950	92480	90430	1.30	8.0	16.3	
2	1.566	6	0.765	0.44	0.460	12.33	18.76	61830	59140	94020	89930	1.20	8.0	15.0	
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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

Muhammad Saleem Awan
 FM (Works Div), SRDC-L, SUPARCO Office Works Division, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
 Gillani

Client Reference: 63301(MTVC)Works/Div/SRDC

SOM Lab

Ref: 5267 (Page-1/1)

Dated: 05-11-2021

Dated: 08-11-2021

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	2.685	8	1.002	0.79	0.789	25.66	35.04	71630	71720	97810	97940	1.40	8.0	17.5	
2	2.698	8	1.005	0.79	0.793	25.86	35.39	72200	71930	98810	98430	1.20	8.0	15.0	
3	1.551	6	0.762	0.44	0.456	15.85	21.07	79450	76670	105610	101910	1.40	8.0	17.5	
4	1.559	6	0.764	0.44	0.458	15.24	20.56	76390	73390	103060	99010	1.20	8.0	15.0	
5	0.721	4	0.520	0.20	0.212	7.61	9.84	83970	79220	108480	102340	1.20	8.0	15.0	
6	0.704	4	0.513	0.20	0.207	7.29	9.50	80370	77660	104770	101220	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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. Rizwan Azam

Client Reference: IHPL/Steel/0147
Dated: 07-11-2021
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 5269(Page-1/5)
Dated: 08-11-2021
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	2.613	8	0.989	0.79	0.768	23.85	32.98	66590	68500	92060	94700	1.40	8.0	17.5	
2	2.622	8	0.991	0.79	0.771	23.77	33.43	66370	68000	93310	95610	1.60	8.0	20.0	
3	2.638	8	0.993	0.79	0.775	23.87	33.38	66650	67940	93200	95000	1.50	8.0	18.8	
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Witnessed By: Ali Hasnain Khan, Jr. Planing Engineer, Kingcrete Builders.

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Five Samples Received and Tested
# 8	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. Rizwan Azam

Client Reference: IHPL/Steel/0146
Dated: 07-11-2021
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 5269(Page-2/5)
Dated: 08-11-2021
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	0.675	4	0.502	0.20	0.198	6.44	9.02	71040	71760	99480	100490	1.00	8.0	12.5	
2	0.668	4	0.500	0.20	0.196	6.37	8.92	70260	71690	98360	100370	1.10	8.0	13.8	
3	0.673	4	0.502	0.20	0.198	6.27	8.72	69130	69830	96110	97080	1.00	8.0	12.5	
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Witnessed By: Ali Hasnain Khan, Jr. Planing Engineer, Kingcrete Builders.

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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. Rizwan Azam

Client Reference: IHPL/Steel/0144
Dated: 07-11-2021
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 5269(Page-3/5)
Dated: 08-11-2021
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	1.493	6	0.748	0.44	0.439	14.98	21.02	75110	75280	105360	105600	1.20	8.0	15.0	
2	1.553	6	0.762	0.44	0.456	16.41	22.19	82260	79380	111230	107330	1.00	8.0	12.5	
3	1.492	6	0.747	0.44	0.438	15.14	21.05	75880	76220	105510	105990	1.10	8.0	13.8	
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Witnessed By: Ali Hasnain Khan, Jr. Planing Engineer, Kingcrete Builders.

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. Rizwan Azam

Client Reference: IHPL/Steel/0143
Dated: 05-11-2021
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 5269(Page-4/5)
Dated: 08-11-2021
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	1.461	6	0.739	0.44	0.429	14.27	19.67	71540	73370	98610	101140	1.00	8.0	12.5	
2	1.490	6	0.747	0.44	0.438	13.12	18.47	65760	66060	92590	93010	1.20	8.0	15.0	
3	1.500	6	0.749	0.44	0.441	14.14	19.47	70870	70710	97590	97370	1.20	8.0	15.0	
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Witnessed By: Ali Hasnain Khan, Jr. Planing Engineer, Kingcrete Builders.

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. Rizwan Azam

Client Reference: IHPL/Steel/0141
Dated: 05-11-2021
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 5269(Page-5/5)
Dated: 08-11-2021
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	0.674	4	0.502	0.20	0.198	6.29	8.92	69360	70060	98360	99350	1.10	8.0	13.8	
2	0.667	4	0.500	0.20	0.196	6.44	8.92	71040	72490	98360	100370	1.10	8.0	13.8	
3	0.669	4	0.501	0.20	0.197	6.54	8.82	72170	73270	97230	98720	1.10	8.0	13.8	
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Witnessed By: Ali Hasnain Khan, Jr. Planing Engineer, Kingcrete Builders.

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

Jalees Kamran
Quality Manager, Ibrahim Nizami Steel Wire Industry (Pvt.) Ltd.

Test Performed By: Dr. /Engr.

Nauman
Khurram

Client Reference: Nil

Dated: 08-11-2021

Test: Tension Tests

Guage Length: 50 mm

SOM Lab Ref:

Dated:

ASTM-A - 82

H T Wire

5271(Page-
1/1)

08-11-2021

Test Specification:

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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.608	10	9.90	50.26	77.00	107.91	113.79	2147	1402	2264	1478	5.0	200	2.5	
2	0.612	10	9.96	50.26	77.92	106.93	122.62	2128	1373	2440	1574	12.5	200	6.3	
3	0.607	10	9.92	50.26	77.28	108.89	115.76	2167	1410	2303	1499	2.5	200	1.3	
4	0.548	10	9.43	50	70	106.93	110.85	2128	1533	2206	1589	2.5	200	1.3	
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BEND TEST:

A	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Eight Samples Received and Tested
B	Sample bend through 180 degrees Satisfactorily without any crack	
C	Sample bend through 180 degrees Satisfactorily without any crack	
D	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

Jalees Kamran
Quality Manager, Ibrahim Nizami Steel Wire Industry (Pvt.) Ltd.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab Ref: 5271(Page-1/1)
Dated: 08-11-2021

Dated: 08-11-2021

Test: Tension Tests

Test Specification: ASTM-A - 82

Guage Length: 50 mm

Sample Type: H T Wire

S.No.	Weight	Dia.	Area	Yield Load	Ultimate Load	Yield Stress	Ult. Stress	Elongation	Gauge Length	%age Elongation	Remarks
		Calculated	Calculated			(according to measured area)	(according to measured area)				
	kg/m	mm	mm ²	kN	kN	MPa	MPa	mm	mm	%	
1	0.608	9.90	77.00	107.91	113.79	1402	1478	5.0	200	2.5	A
2	0.612	9.96	77.92	106.93	122.62	1373	1574	12.5	200	6.3	B
3	0.607	9.92	77.28	108.89	115.76	1410	1499	2.5	200	1.3	C
4	0.548	9.43	70	106.93	110.85	1533	1589	2.5	200	1.3	D
-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	

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