

SJ Steel Re Rolling Mills
Lahore.(Fauji Cement DG Khan)

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: Nil
SOM Lab Ref: CED/SOM/1444(Page-1/1)

Dated: 28-12-2022

Dated: 21-12-2022

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	4.835	28	28.01	616	616	285.00	406.50	463	463	660	660	45.0	200	22.5	
2	1.592	16	16.07	201	203	102.20	137.70	508	504	685	679	35.0	200	17.5	
3	0.996	12	12.71	113	127	64.00	81.20	566	505	718	640	27.5	200	13.8	
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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

Naveed Ahmad

Test Performed By:

Dr. /Engr.

Nauman Khurram

Asst Dir Lab DHA Bahawalpur Cantonment.(Pelican Mall DHA Bahawalpur)

Client Reference: 530/QC/MTL

SOM Lab

Ref:

1445 (Page-1/1)

Dated: 21-12-2022

Dated:

21-11-2022

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	1.066	5	0.631	0.31	0.313	10.40	14.42	73970	73270	102620	101640	1.30	8.0	16.3	
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BEND TEST:

# 5	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

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

Naveed Ahmad

Test Performed By:

Dr. /Engr.

Nauman Khurram

Asst Dir Lab DHA Bahawalpur Cantonment.(Masjid Sec-A)(AN Sahara Const Pvt Ltd)

Client Reference: 530/QC/MTL

SOM Lab

Ref:

1446 (Page-1/1)

Dated: 21-12-2022

Dated:

21-11-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Ittehad 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	2.704	8	1.006	0.79	0.795	26.88	34.22	75050	74570	95530	94930	1.40	8.0	17.5	
2	1.522	6	0.754	0.44	0.447	14.53	18.30	72810	71670	91720	90280	1.50	8.0	18.8	
3	0.668	4	0.500	0.20	0.196	6.09	8.97	67110	68480	98920	100940	1.20	8.0	15.0	
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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

Naveed Ahmad

Test Performed By:

Dr. /Engr.

Nauman Khurram

Asst Dir Lab DHA Bahawalpur Cantonment.(Resident Unit)(Mayco Engineers Const)

Client Reference: 530/QC/MTL

SOM Lab

Ref:

1447 (Page-1/1)

Dated: 21-12-2022

Dated:

21-11-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Kamran 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	2.739	8	1.012	0.79	0.805	23.55	34.12	65740	64520	95250	93480	1.50	8.0	18.8	
2	1.501	6	0.749	0.44	0.441	13.61	19.49	68210	68060	97690	97470	1.40	8.0	17.5	
3	0.674	4	0.502	0.20	0.198	5.52	7.46	60930	61540	82290	83120	1.30	8.0	16.3	
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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

Engr.Zahid Nisar Hashmi

Test Performed By:

Dr. /Engr. Waseem Abbass

Head MP.Shaukat Khanum Memorial Trust.(Const.Of Multi-Storied Parking Garage SKMCH&RC,Lhr)

Client Reference: SKM/PG/UET/12/20

SOM Lab

Ref: 1449 (Page-1/1)

Dated: 20-12-2022

Dated: 21-12-2022

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	1.469	6	0.742	0.44	0.432	14.48	19.67	72560	73900	98610	100440	1.30	8.0	16.3	
2	1.523	6	0.755	0.44	0.448	15.62	21.07	78280	76880	105610	103730	1.40	8.0	17.5	
3	1.051	5	0.627	0.31	0.309	10.11	13.40	71940	72180	95370	95680	1.50	8.0	18.8	
4	1.039	5	0.623	0.31	0.305	10.04	13.20	71440	72610	93920	95460	1.10	8.0	13.8	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 5	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. Asad Ali Gillani

Client Reference: IHPL/Steel/228
Dated: 19-12-2022
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 1450 (Page-1/2)
Dated: 21-12-2022
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	1.439	6	0.734	0.44	0.423	13.61	18.57	68210	70960	93100	96840	1.20	8.0	15.0	
2	1.483	6	0.745	0.44	0.436	14.12	19.22	70770	71420	96320	97200	1.40	8.0	17.5	
3	1.485	6	0.745	0.44	0.436	14.32	19.24	71790	72450	96420	97300	1.40	8.0	17.5	
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Witnessed By: Engr.Rafi Ullah

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. Asad Ali Gillani

Client Reference: IHPL/Steel/229
Dated: 19-12-2022
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 1450 (Page-2/2)
Dated: 21-12-2022
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	6.73	9.28	74190	74940	102290	103330	1.10	8.0	13.8	
2	0.668	4	0.500	0.20	0.196	7.10	9.84	78350	79950	108480	110690	1.00	8.0	12.5	
3	0.671	4	0.501	0.20	0.197	6.63	9.12	73070	74180	100610	102140	1.10	8.0	13.8	
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Witnessed By: Engr.Rafi Ullah

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

Engr Zafar Iqbal

Test Performed By:

Dr. /Engr.

Burhan Shrif

PM United LifeStyle Pvt. Ltd.(Sky Scraper By United Life Style at Johar Town Lahore)

Client Reference: ULS/2021-22/012

SOM Lab

Ref:

1451 (Page-1/1)

Dated: 21-12-2022

Dated:

21-12-2022

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	0.652	4	0.494	0.20	0.192	6.14	8.10	67670	70490	89370	93090	1.20	8.0	15.0	
2	0.648	4	0.492	0.20	0.190	6.13	8.10	67560	71120	89370	94070	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Qasim Masood, QC

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Engneer, IDAP.(Estb Of Pilot Program For Hub And Spoke Model At Zahir Pir)

Client Reference: PM/HSMZP/IDAP/2022/15699

SOM Lab

Ref:

1452 (Page-1/1)

Dated: 20-12-2022

Dated:

21-12-2022

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	2.693	8	1.004	0.79	0.791	23.14	36.60	64600	64520	102170	102040	1.30	8.0	16.3	F.M.Star
2	2.675	8	1.000	0.79	0.786	22.31	34.35	62300	62610	95900	96390	1.40	8.0	17.5	F.M.Star
3	1.526	6	0.755	0.44	0.448	13.30	21.12	66680	65490	105870	103980	1.40	8.0	17.5	F.M.Star
4	1.519	6	0.754	0.44	0.446	13.20	21.38	66170	65280	107150	105710	1.10	8.0	13.8	F.M.Star
5	1.517	6	0.754	0.44	0.446	14.02	19.90	70260	69310	99740	98400	1.20	8.0	15.0	F.F Steel
6	1.518	6	0.754	0.44	0.446	15.04	21.02	75370	74350	105360	103940	1.20	8.0	15.0	F.F Steel
7	0.672	4	0.501	0.20	0.197	5.78	9.07	63740	64710	100050	101570	1.20	8.0	15.0	F.M.Star
8	0.669	4	0.501	0.20	0.197	5.81	9.02	64080	65050	99480	101000	1.10	8.0	13.8	F.M.Star
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Witnessed By: Atiq-Ur-Rehman (Manager Projects, IDAP)

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Twelve Samples Received and Tested</p>
# 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	

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

Engr. Mian Mubashar Rafiq

Test Performed By:

Dr. /Engr.

Nauman Khurram

PM Union Developers Lhr.(const. Of Union Luxury Apartments,Etihad Town Lahore.)

Client Reference: UA/SO/2022/035

SOM Lab

Ref:

1453 (Page-1/1)

Dated: 19-12-2022

Dated:

21-12-2022

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	1.530	6	0.757	0.44	0.450	16.48	20.90	82620	80790	104750	102420	1.30	8.0	16.3	
2	1.544	6	0.760	0.44	0.454	16.16	20.05	80990	78490	100500	97410	1.30	8.0	16.3	
3	1.516	6	0.754	0.44	0.446	16.72	19.83	83800	82670	99380	98040	1.00	8.0	12.5	
4	1.525	6	0.755	0.44	0.448	16.67	21.46	83540	82050	107560	105640	1.10	8.0	13.8	
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BEND TEST:

# 6	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

Test Performed by: Dr.Asad Ali Gillani

Riaz Ahmad

GM National Technocommercial Svcs (Pvt) Ltd.Lahore

Client Reference No.: NTS/MT/DC Parts/2022

Dated: 20-12-2022

SOM Lab Ref: CED/SOM/1448(Page 1/1)

Dated: 21-12-2022

Test Type: Hardness Test

Sample Type: Washer Joint,Pin Straight Threaded Stricker,Piston,Sleeve Outer,Pin Transit,
Plate Instruction,Screw Machine,Carrier Spring,Register Spring.

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine

(Minor Load: 10 Kgf Major Load: 90.0 kgf Scale: B)

Hardness Test Results

Sr #	Marks	Sample Size	Hardness
1	Washer Joint	Thk 03mm	HR – 72.50 – B
2	Pin Straight Threaded Stricker	Dia 10mm	HR – 80.16 – B
3	Piston	Dia 10mm	HR – 93.83 – B
4	Plate Instruction	PI Thk 0.20mm	HR – 79.0 – B
5	Register Spring	Dia 22.0mm	HR – 88.83 – B

(Minor Load: 10 Kgf Major Load: 140.0 kgf Scale: C)

Hardness Test Results

Sr #	Marks	Sample Size	Hardness
6	Sleeve Outer	Dia 50.0mm	HR – 35.6 – C
7	Pin Transit	Wire Dia 3.2mm	HR – 31.16 – C
8	Screw Machine	Dia 0.20mm	HR – 26.66 – C
9	Carrier Spring	Hex .14mm	HR – 93.33 – C

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

