

Test Performed by: Dr.Asad Ali Gillani

Riaz Ahmad
GM National Technocommercial Services (Pvt) Ltd Lahore

Client Reference No.: NTS/DC-Hardness/DC/24

Dated: 20-02-2024

SOM Lab Ref: CED/SOM/3684(Page 1/3)

Dated: 20-02-2024

Test Type: Hardness Test

Sample Type: Stainless Steel Dia 7.9mm (NTS)

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 #	Sample Type	Sample Size	Hardness Avg
1	Stainless Steel	Dia 7.9mm	HR – 92.0 – B

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

Engr.Sadaqat Ahmad
RE IDAP.(Infra on EPC/Turnkey Basis For PPIC3 Faisalabad)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: PPIC3/IDAP/2024/0005

SOM Lab Ref: 3685 (Page-1/1)

Dated: 15-02-2024

Dated: 20-02-2024

Test: Tension Test

Test Specification: ASTM-A-615

Guage Length: 200 mm

Sample Type: MS Def 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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.622	16	16.24	201	207	112.50	142.70	560	544	710	690	30.0	200	15.0	
2	1.631	16	16.27	201	208	114.20	143.70	568	550	715	692	32.5	200	16.3	
3	0.995	12	12.70	113	127	57.50	85.20	509	454	754	673	30.0	200	15.0	
4	0.984	12	12.63	113	125	57.20	85.70	506	457	758	684	30.0	200	15.0	
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BEND TEST:

16mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six 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

Gul Waqas Shahid

Test Performed By:

Dr. /Engr.

Nauman Khurram

Unirazz Services Lahore.(Const Of PRPL Office Building 4 Ph 1 at Packages, Lahore)

Client Reference: USPL/PRPL/1602-3

Dated: 16-02-2024

SOM Lab Ref: CED/SOM/3683(Page-1/1)

Dated: 20-02-2024

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	2.438	20	19.90	314	311	152.70	204.70	486	491	652	659	32.5	200	16.3	
2	2.467	20	20.00	314	314	157.50	209.20	501	502	666	666	35.0	200	17.5	
3	1.449	16	15.33	201	185	95.20	127.50	473	516	634	691	25.0	200	12.5	
4	1.456	16	15.37	201	185	96.00	128.20	477	518	638	692	27.5	200	13.8	
5	0.905	12	12.12	113	115	58.50	81.20	517	508	718	705	30.0	200	15.0	
6	0.908	12	12.14	113	116	59.50	81.70	526	515	722	707	30.0	200	15.0	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
16mm	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

Syed Mohsin Ali RE

Test Performed By:

Dr. /Engr.

Nauman Khurram

QA/QC Deptt. Bahria Town Lhr. (New Workshop at Block "E" Bahria Orchard)

Client Reference: QA/QC/Steel-3532

SOM Lab

Ref:

3679 (Page-2/2)

Dated: 29-01-2024

Dated:

20-02-2024

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	0.663	4	0.498	0.20	0.195	5.76	8.51	63510	65140	93860	96270	1.20	8.0	15.0	
2	0.666	4	0.500	0.20	0.196	6.03	8.63	66550	67910	95210	97150	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

Syed Mohsin Ali RE

Test Performed By: Dr. /Engr. Nauman Khurram

QA/QC Deptt. Bahria Town Lhr. (Culvert at Overseas Enclave "C" Bahria Town Lahore)

Client Reference: QA/QC/Steel-3533

SOM Lab

Ref: 3679 (Page-1/2)

Dated: 29-01-2024

Dated: 20-02-2024

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	1.042	5	0.624	0.31	0.306	9.70	13.20	69040	69950	93920	95140	1.30	8.0	16.3	
2	1.049	5	0.626	0.31	0.308	9.89	13.40	70350	70810	95370	95990	1.50	8.0	18.8	
3	0.644	4	0.491	0.20	0.189	5.78	8.00	63740	67450	88240	93380	1.30	8.0	16.3	
4	0.645	4	0.492	0.20	0.190	5.76	8.00	63510	66860	88240	92890	1.30	8.0	16.3	
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BEND TEST:

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

Dr.Adil Khan, RE

Test Performed By: Dr. /Engr. Nauman Khurram

Nespak.(Dev Of Internal Infrastructure Of CBD Walton&Flyover Connecting Bab-e-Pakistan To Walton)

Client Reference: 4322/13/DAK/02/144

SOM Lab

Ref: 3680 (Page-1/1)

Dated: 12-02-2024

Dated: 20-02-2024

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	2.660	8	0.998	0.79	0.782	25.08	36.87	70010	70720	102930	103990	1.50	8.0	18.8	
2	2.644	8	0.995	0.79	0.777	25.05	36.80	69920	71090	102730	104450	1.40	8.0	17.5	
3	1.480	6	0.744	0.44	0.435	14.19	18.96	71130	71940	95040	96130	1.00	8.0	12.5	
4	1.505	6	0.750	0.44	0.442	14.12	18.55	70770	70450	92990	92570	1.10	8.0	13.8	
5	1.045	5	0.625	0.31	0.307	10.30	13.32	73250	73960	94790	95710	1.10	8.0	13.8	
6	1.046	5	0.625	0.31	0.307	10.09	13.20	71800	72500	93920	94830	1.00	8.0	12.5	
7	0.671	4	0.501	0.20	0.197	7.65	9.84	84310	85590	108480	110130	1.00	8.0	12.5	
8	0.670	4	0.501	0.20	0.197	7.61	9.76	83970	85250	107580	109210	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

Ashbeel Imran Butt, CO Officer

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Gatwala Commercial Hub Faisalabad.(Const Of Gatwala Commercial Hub)

Client Reference: GCHF/2024/PM/05

SOM Lab

Ref: 3681 (Page-1/1)

Dated: 19-02-2024

Dated: 20-02-2024

Test: Tension Test 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	2.668	8	0.999	0.79	0.784	23.98	38.07	66940	67450	106290	107100	1.30	8.0	16.3	
2	2.667	8	0.999	0.79	0.784	23.47	37.94	65510	66010	105920	106730	1.50	8.0	18.8	
3	1.490	6	0.747	0.44	0.438	12.61	19.16	63210	63500	96060	96500	1.50	8.0	18.8	
4	1.494	6	0.748	0.44	0.439	12.41	18.91	62190	62330	94780	95000	1.50	8.0	18.8	
5	0.668	4	0.500	0.20	0.196	5.71	8.36	62950	64240	92180	94060	1.20	8.0	15.0	
6	0.671	4	0.501	0.20	0.197	5.68	8.31	62610	63570	91610	93010	1.30	8.0	16.3	
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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 Fayyaz

Test Performed By: Dr. /Engr. Nauman Khurram

Admin Linker Developers.(Construction Of Quaid-E-Azam Public School Dream Garden Wazirabad)

Client Reference: Linker/02/24/045

SOM Lab

Ref: 3682(Page-1/1)

Dated: 20-02-2024

Dated: 20-02-2024

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	1.492	6	0.747	0.44	0.438	14.73	20.10	73830	74170	100760	101220	1.00	8.0	12.5	
2	1.487	6	0.746	0.44	0.437	14.65	19.88	73430	73930	99640	100320	1.20	8.0	15.0	
3	0.672	4	0.501	0.20	0.197	6.68	8.53	73630	74750	94090	95520	1.30	8.0	16.3	
4	0.672	4	0.501	0.20	0.197	6.54	8.46	72170	73270	93300	94720	1.10	8.0	13.8	
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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