

Arfan Nazir

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Manager Civil, Nishat Mills Ltd. (Const of Nishat Stitching Bath Division Lahore)

Client Reference: NDF/ST/002

SOM Lab Ref:

946 (Page-1/1)

Dated: 15-09-2022

Dated:

20-09-2022

Test: Tension Test

Test Specification:

ASTM-A-615

Guage Length: 200 mm

Sample Type:

MS Deformed Bar (Agha 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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.909	25	25.18	491	498	242.70	312.20	494	488	636	627	37.5	200	18.8	
2	3.926	25	25.24	491	500	242.00	311.50	493	484	634	623	35.0	200	17.5	
3	2.505	20	20.16	314	319	152.70	197.70	486	479	630	620	25.0	200	12.5	
4	2.518	20	20.21	314	321	158.00	199.20	503	493	634	621	35.0	200	17.5	
5	1.551	16	15.86	201	198	103.50	132.70	515	524	660	672	27.5	200	13.8	
6	1.533	16	15.77	201	195	103.00	134.70	512	528	670	690	30.0	200	15.0	
7	0.883	12	11.97	113	113	61.20	75.50	542	544	668	672	25.0	200	12.5	
8	0.893	12	12.04	113	114	62.20	75.70	550	547	670	666	25.0	200	12.5	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Twelve Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
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](http://www.uet-civil.edu.pk)

Engr. Zaheer Ud Din Babar

**Test Performed By:**

Dr. /Engr. Asad Ali Gillani

Dy. General Manager Projects.HRL Engineering (Pvt.) Ltd.(Const Of sky Gardens Tower,Lahore)

**Client Reference:** HRLE/SKG/2022/060/2151

**SOM Lab Ref:** 947(Page-1/4)

**Dated:** 20-09-2022

**Dated:** 20-09-2022

**Test:** Tension Test

**Test Specification:**

ASTM-A-615

**Guage Length:** 200 mm

**Sample Type:**

MS 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)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	4.687	28	27.57	616	597	251.20	399.70	408	421	649	670	35.0	200	17.5	
2	4.666	28	27.51	616	594	250.20	400.20	406	421	650	674	37.5	200	18.8	
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**BEND TEST:**

28mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Engr. Zaheer Ud Din Babar

**Test Performed By:**

Dr. /Engr. Asad Ali Gillani

Dy. General Manager Projects.HRL Engineering (Pvt.) Ltd.(Const Of sky Gardens Tower,Lahore)

**Client Reference:** HRLE/SKG/2022/059/2151

**SOM Lab Ref:** 947(Page-2/4)

**Dated:** 20-09-2022

**Dated:** 20-09-2022

**Test:** Tension Test

**Test Specification:**

ASTM-A-615

**Guage Length:** 200 mm

**Sample Type:**

MS 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)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.770	25	24.72	491	480	170.70	240.00	348	356	489	500	45.0	200	22.5	
2	3.798	25	24.82	491	484	171.00	243.70	348	354	496	504	50.0	200	25.0	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Engr. Zaheer Ud Din Babar

**Test Performed By:**

Dr. /Engr. Asad Ali Gillani

Dy. General Manager Projects.HRL Engineering (Pvt.) Ltd.(Const Of sky Gardens Tower,Lahore)

**Client Reference:** HRLE/SKG/2022/063/2166

**SOM Lab Ref:** 947(Page-3/4)

**Dated:** 20-09-2022

**Dated:** 20-09-2022

**Test:** Tension Test

**Test Specification:**

ASTM-A-615

**Guage Length:** 200 mm

**Sample Type:**

MS 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)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.146	22	22.60	387	401	173.70	260.00	449	434	672	649	32.5	200	16.3	
2	3.109	22	22.46	387	396	170.00	266.50	439	430	689	673	37.5	200	18.8	
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**BEND TEST:**

22mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Engr. Zaheer Ud Din Babar

**Test Performed By:**

Dr. /Engr. Asad Ali Gillani

Dy. General Manager Projects.HRL Engineering (Pvt.) Ltd.(Const Of sky Gardens Tower,Lahore)

**Client Reference:** HRLE/SKG/2022/062/2166

**SOM Lab Ref:** 947(Page-4/4)

**Dated:** 20-09-2022

**Dated:** 20-09-2022

**Test:** Tension Test

**Test Specification:**

ASTM-A-615

**Guage Length:** 200 mm

**Sample Type:**

MS 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)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.595	16	16.08	201	203	130.70	159.70	650	644	795	787	25.0	200	12.5	
2	1.593	16	16.08	201	203	126.20	149.00	628	622	741	735	25.0	200	12.5	
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**BEND TEST:**

16mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Aamir Shahzad Alvi, PM

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Usman Ibrahim Construction, Lahore. (Const Of HIGH-Q Mall at 3-A Gulberg II, Lahore)

Client Reference: QC/HQ/CIVIL/20

Dated: 20-09-2022

SOM Lab Ref: CED/SOM/952(Page-1/1)

Dated: 20-09-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type:

MS 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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.908	25	25.18	491	498	212.00	301.70	432	426	615	606	32.5	200	16.3	
2	3.921	25	25.22	491	499	219.70	323.50	448	440	659	648	30.0	200	15.0	
3	2.461	20	19.98	314	313	147.00	202.20	468	469	644	646	35.0	200	17.5	
4	2.431	20	19.86	314	310	144.50	199.00	460	467	633	643	35.0	200	17.5	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<p><b>Note:-</b></p> <p>Only Six Samples Received and Tested</p>
20mm	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](http://www.uet-civil.edu.pk)

M Abu Bakar  
Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 944 (Page-1b/1)

Dated: 20-09-2022

Dated: 20-09-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.631	4	0.485	0.20	0.185	5.37	8.33	59240	64050	91840	99290	1.00	8.0	12.5	
2	0.632	4	0.487	0.20	0.186	5.56	8.46	61270	65880	93300	100320	0.60	8.0	7.5	
3	0.583	4	0.467	0.20	0.171	4.84	7.82	53400	62450	86220	100840	0.60	8.0	7.5	
4	0.632	4	0.487	0.20	0.186	5.47	8.41	60370	64910	92740	99720	1.10	8.0	13.8	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Four Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

M Abu Bakar  
Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 944 (Page-1a/1)

Dated: 20-09-2022

Dated: 20-09-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.563	8	0.979	0.79	0.753	20.54	30.94	57350	60160	86370	90620	1.20	8.0	15.0	
2	2.577	8	0.982	0.79	0.757	20.64	30.84	57630	60140	86090	89840	1.20	8.0	15.0	
3	2.544	8	0.976	0.79	0.748	20.44	30.48	57060	60260	85090	89870	1.30	8.0	16.3	
4	2.562	8	0.979	0.79	0.753	20.46	30.65	57120	59920	85570	89780	1.40	8.0	17.5	
5	1.363	6	0.715	0.44	0.401	12.30	19.24	61670	67670	96420	105790	1.30	8.0	16.3	
6	1.344	6	0.709	0.44	0.395	12.10	19.05	60650	67560	95500	106380	1.10	8.0	13.8	
7	1.428	6	0.731	0.44	0.420	11.57	17.76	58000	60760	89010	93250	1.40	8.0	17.5	
8	1.391	6	0.722	0.44	0.409	11.13	17.20	55800	60030	86200	92730	1.50	8.0	18.8	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Eight Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)



Engr. Naveed Sadiq  
RE Orbit Housing.Lahore.(The Springs Apartment Homes)

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

Client Reference: Nil

SOM Lab

Ref: 945 (Page-1/1)

Dated: 19-09-2022

Dated: 20-09-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.637	8	0.993	0.79	0.775	26.93	33.61	75190	76640	93830	95640	1.30	8.0	16.3	
2	2.656	8	0.997	0.79	0.781	28.46	35.29	79460	80370	98520	99660	1.40	8.0	17.5	
3	1.500	6	0.749	0.44	0.441	15.41	19.24	77260	77080	96420	96200	1.50	8.0	18.8	
4	1.502	6	0.749	0.44	0.441	15.62	19.42	78280	78100	97340	97120	1.30	8.0	16.3	
5	0.669	4	0.501	0.20	0.197	7.03	8.61	77560	78750	94990	96430	1.10	8.0	13.8	
6	0.655	4	0.494	0.20	0.192	6.93	8.28	76440	79620	91280	95080	1.00	8.0	12.5	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Syed Mohsin Ali

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

RE QA/QC Deptt. Bahria Town Lahore. (Muhammad Ali Jinnah Masjid Block D Bahria Orchard)

Client Reference: QA/QC-Steel-2815

SOM Lab

Ref:

948 (Page-1/1)

Dated: 19-09-2022

Dated:

20-09-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.671	8	1.000	0.79	0.785	24.36	33.20	68020	68450	92690	93280	1.50	8.0	18.8	
2	2.643	8	0.995	0.79	0.777	24.26	33.10	67730	68870	92400	93950	1.50	8.0	18.8	
3	1.493	6	0.748	0.44	0.439	14.95	20.46	74960	75130	102550	102780	1.40	8.0	17.5	
4	1.530	6	0.757	0.44	0.450	15.57	21.15	78020	76290	106020	103670	1.30	8.0	16.3	
5	0.672	4	0.501	0.20	0.197	6.85	9.07	75540	76690	100050	101570	1.20	8.0	15.0	
6	0.657	4	0.496	0.20	0.193	6.54	8.89	72170	74790	98020	101580	1.10	8.0	13.8	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Zahid Mughal  
C/O M/S Amanah Noor Residence Wapda Town, Lahore.

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

**Client Reference:** Nil

**SOM Lab**

**Ref:** 949 (Page-1/1)

**Dated:** 20-09-2022

**Dated:** 20-09-2022

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.613	8	0.989	0.79	0.768	23.72	33.81	66220	68120	94400	97100	1.40	8.0	17.5	
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**BEND TEST:**

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

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Engr.Zahid Nisar Hashmi

**Test Performed By:**

Dr. /Engr. Rehan Ashraf

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

**Client Reference:** SKM/PG/UET/09/15

**SOM Lab**

**Ref:** 950 (Page-1/1)

**Dated:** 20-09-2022

**Dated:** 20-09-2022

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.700	8	1.005	0.79	0.793	25.05	34.83	69920	69660	97240	96870	1.40	8.0	17.5	
2	2.687	8	1.003	0.79	0.790	24.67	35.42	68870	68870	98890	98890	1.30	8.0	16.3	
3	1.046	5	0.625	0.31	0.307	9.38	13.17	66720	67370	93700	94620	1.30	8.0	16.3	
4	1.017	5	0.617	0.31	0.299	8.84	12.76	62880	65190	90800	94140	1.20	8.0	15.0	
5	0.672	4	0.501	0.20	0.197	5.68	8.53	62610	63570	94090	95520	1.20	8.0	15.0	
6	0.667	4	0.500	0.20	0.196	5.91	8.74	65200	66530	96340	98300	1.30	8.0	16.3	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
# 5	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Awais  
Lahore.

Test Performed By: Dr. /Engr. Rehan Ashraf

Client Reference: Nil

SOM Lab

Ref: 951 (Page-1/1)

Dated: 20-09-2022

Dated: 20-09-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.646	4	0.492	0.20	0.190	7.41	9.30	81720	86020	102520	107910	1.10	8.0	13.8	Agha
2	0.700	4	0.512	0.20	0.206	6.78	10.09	74750	72580	111290	108040	1.20	8.0	15.0	Ittifaq
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Four 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](http://www.uet-civil.edu.pk)

Abdullah Mohammad Khadim

Test Performed By: Dr. /Engr. Nauman Khurram

RE PAFDA Dar Engg.(Punjab Agriculture Food and Drug Authority's Science Enclave,Lahore)

Client Reference: DB-78-DAR-RE-ME-2022-09

SOM Lab

Ref: 953 (Page-1/1)

Dated: 19-09-2022

Dated: 20-09-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.032	5	0.621	0.31	0.303	9.45	13.25	67230	68780	94280	96460	1.30	8.0	16.3	
2	1.031	5	0.621	0.31	0.303	9.65	13.43	68680	70270	95510	97720	1.20	8.0	15.0	
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**BEND TEST:**

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

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

