

New Global Builders

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

Managing Partner Faisalabad.(Const Of Sunshine Medical Tower at Shahdra Lahore)

Client Reference: SMT-1/4923

SOM Lab

Ref: 2958 (Page-1/1)

Dated: 03-10-2023

Dated: 03-10-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	2.616	8	0.990	0.79	0.769	25.35	33.20	70780	72710	92690	95220	1.70	8.0	21.3	
2	2.618	8	0.990	0.79	0.769	25.79	33.49	72000	73970	93490	96040	1.70	8.0	21.3	
3	2.609	8	0.988	0.79	0.767	25.76	33.47	71920	74070	93430	96230	1.60	8.0	20.0	
4	1.481	6	0.744	0.44	0.435	13.99	18.71	70100	70910	93760	94840	1.30	8.0	16.3	
5	1.474	6	0.743	0.44	0.433	14.53	19.16	72810	73990	96060	97610	1.40	8.0	17.5	
6	1.477	6	0.743	0.44	0.434	14.63	19.27	73320	74340	96570	97910	1.50	8.0	18.8	
7	0.670	4	0.501	0.20	0.197	7.19	9.17	79250	80460	101170	102710	1.00	8.0	12.5	
8	0.672	4	0.501	0.20	0.197	7.31	9.35	80600	81830	103080	104650	1.10	8.0	13.8	
9	0.673	4	0.502	0.20	0.198	7.24	9.30	79810	80620	102520	103550	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

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

ASG-RTCC (JV)

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

Lahore.(220KV T/Line Coming Under Right Of Way Of Sambrial Kharian Motorway Project)

Client Reference: ASG-RTCC(JV)/01/10

SOM Lab

Ref: 2960 (Page-1/1)

Dated: 03-10-2023

Dated: 04-10-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 h

Sample Type:

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	3.168	9	1.089	1.00	0.931	30.99	46.10	68350	73410	101660	109200	1.30	8.0	16.3	
2	3.175	9	1.090	1.00	0.933	31.40	46.74	69250	74220	103080	110480	1.40	8.0	17.5	
3	2.639	8	0.994	0.79	0.776	25.33	34.12	70720	72000	95250	96970	1.50	8.0	18.8	
4	2.620	8	0.990	0.79	0.770	24.97	33.64	69720	71540	93910	96350	1.60	8.0	20.0	
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**BEND TEST:**

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

Malik Steel  
Malik Steel Sales Depot Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 2961 (Page-1/5)

Dated: 04-10-2023

Dated: 04-10-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Malik 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	0.663	4	0.498	0.20	0.195	6.03	9.55	66550	68250	105330	108030	0.90	8.00	11.3	H # 21
2	0.664	4	0.498	0.20	0.195	6.19	9.60	68230	69980	105890	108610	0.90	8.00	11.3	H # 21
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**BEND TEST:**

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

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

Malik Steel  
Malik Steel Sales Depot Lahore.

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

Client Reference: Nil

Dated: 04-10-2023

Test: Tension Test & Bend Test  
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2961 (Page-2/5)

Dated: 04-10-2023

ASTM-A-615

Deformed Bar (Malik 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	0.677	4	0.503	0.20	0.199	6.39	9.43	70480	70840	103980	104500	1.00	8.00	12.5	H # 22
2	0.666	4	0.500	0.200	0.196	6.14	9.35	67670	69050	103080	105180	0.90	8.00	11.3	H # 22
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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**BEND TEST:**

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

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

Malik Steel  
Malik Steel Sales Depot Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 2961 (Page-3/5)

Dated: 04-10-2023

Dated: 04-10-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Malik 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	0.664	4	0.498	0.20	0.195	6.27	9.68	69130	70910	106790	109530	1.00	8.00	12.5	H # 23
2	0.668	4	0.500	0.20	0.196	6.07	9.58	66890	68250	105670	107820	1.10	8.00	13.8	H # 23
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**BEND TEST:**

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

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

Malik Steel  
Malik Steel Sales Depot Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 2961 (Page-4/5)

Dated: 04-10-2023

Dated: 04-10-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Malik 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	0.687	4	0.507	0.20	0.202	6.34	9.38	69920	69230	103420	102390	1.00	8.0	12.5	H # 24
2	0.674	4	0.502	0.20	0.198	6.12	9.12	67450	68130	100610	101620	0.90	8.0	11.3	H # 24
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**BEND TEST:**

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

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

Malik Steel  
Malik Steel Sales Depot Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 2961 (Page-5/5)

Dated: 04-10-2023

Dated: 04-10-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Malik 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	0.676	4	0.503	0.20	0.199	6.39	9.17	70480	70840	101170	101680	0.90	8.00	11.3	H # 25
2	0.672	4	0.501	0.20	0.197	5.88	9.07	64860	65850	100050	101570	1.00	8.00	12.5	H # 25
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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**BEND TEST:**

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

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

Smart Builders & Co  
Lahore.(Frontier Corps South Stationed at Wana.KP)

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

Client Reference: Nil

Dated: 03-10-2023

Test: Tension Test & Bend Test  
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2962 (Page-1/1)

Dated: 04-10-2023

ASTM-A-615

Deformed Bar (Amreli 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	2.581	8	0.982	0.79	0.758	26.25	33.76	73280	76370	94250	98230	1.50	8.0	18.8	
2	2.586	8	0.984	0.79	0.760	26.45	33.66	73850	76770	93970	97680	1.40	8.0	17.5	
3	1.484	6	0.745	0.44	0.436	15.16	19.59	75980	76680	98210	99110	1.30	8.0	16.3	
4	1.493	6	0.748	0.44	0.439	15.16	19.64	75980	76150	98460	98690	1.30	8.0	16.3	
5	0.648	4	0.492	0.20	0.190	7.03	8.63	77560	81650	95210	100220	1.00	8.0	12.5	
6	0.647	4	0.492	0.20	0.190	7.36	8.63	81160	85430	95210	100220	1.10	8.0	13.8	
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**BEND TEST:**

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



Mr Anjum Shahzad  
 Unique Apparel Lahore.(Construction Of Building)

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

Client Reference: Nil

Dated: 04-10-2023

Test: Tension Test & Bend Test  
 inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2963 (Page-1/1)

Dated: 04-10-2023

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.595	8	0.986	0.79	0.763	16.99	26.66	47440	49120	74420	77050	1.60	8.00	20.00	
2	1.497	6	0.748	0.44	0.440	10.93	17.28	54780	54780	86610	86610	1.30	8.00	16.33	
3	0.693	4	0.510	0.20	0.204	5.37	7.72	59240	58080	85100	83430	1.30	8.00	16.33	
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**BEND TEST:**

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

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

Abid Rauf, RE

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

Nespak, Gujranwala. (Const Of Dual Carriageway From GT Rd To Lahore-Sialkot Motorway)

Client Reference: 103/EW/GRW/TN/Lab/26

SOM Lab

Ref: 2964 (Page-1/2)

Dated: 30-09-2023

Dated: 04-10-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

inc

Deformed Bar (Amreli

Gauge Length: 8 h

Sample Type:

Brand)

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	2.635	8	0.993	0.79	0.774	31.40	39.06	87650	89460	109050	111310	1.20	8.0	15.0	
2	2.631	8	0.992	0.79	0.773	30.99	38.86	86510	88420	108480	110870	1.30	8.0	16.3	
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**BEND TEST:**

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

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

Abid Rauf, RE

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

Nespak, Gujranwala. (Const Of Dual Carriageway From GT Rd To Lahore-Sialkot Motorway)

Client Reference: 103/EW/GRW/TN/Lab/27

SOM Lab

Ref: 2964 (Page-2/2)

Dated: 30-09-2023

Dated: 04-10-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

inc

Deformed Bar (Mughal

Gauge Length: 8 h

Sample Type:

Brand)

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	1.505	6	0.750	0.44	0.442	15.82	20.03	79300	78940	100400	99950	1.30	8.00	16.3	
2	1.504	6	0.750	0.44	0.442	15.87	20.10	79560	79200	100760	100300	1.30	8.00	16.3	
3	1.036	5	0.622	0.31	0.304	10.11	13.02	71940	73360	92610	94440	1.40	8.00	17.5	
4	1.037	5	0.623	0.31	0.305	10.27	13.17	73030	74230	93700	95240	1.30	8.00	16.3	
5	0.601	4	0.475	0.20	0.177	7.10	8.41	78350	88530	92740	104790	1.00	8.00	12.5	
6	0.606	4	0.476	0.20	0.178	6.68	8.38	73630	82730	92400	103820	1.10	8.00	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

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

Test Performed By: Dr. Wasim Abbas

KGL Construction  
Khyber Grace Pvt. Ltd.  
Islamabad.

Client Reference: Nil

Dated: 04-10-2023

SOM Lab Ref: CED/SOM/2957(Page-1/1)

Dated: 04-10-2023

Test: Tension Test

Test Specification: ASTM-F -1554

Sample Type: Anchor Bolt (Threaded)

Gauge Length: 100 mm

S.No.	Dia.		Area	Yield Load	Ultimate Load	Yield Stress	Ultimate. Stress	Elongation	Gauge Length	%age Elongation	Remarks
	Original Diameter	Tested Diameter									
	mm	mm	mm <sup>2</sup>	kN	kN	MPa	MPa	mm	mm	%	
1	20	15.7	193.5	90.2	112.2	466.2	579.9	22.5	100	22.5	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
								<b>Note:-</b>			
								<b>Only One Sample Received and Tested</b>			
<b>Note: Please always confirm the results of above report on web <a href="http://www.uet-civil.edu.pk">www.uet-civil.edu.pk</a></b>											

Test Performed by:Dr. Asad Ali Gillani

**AREW**  
**Fabrication & Construction Pvt.Ltd**  
**Lahore.**

**Client Reference No.: Nil**  
**SOM Lab Ref: CED/SOM/2959(Page-1/1)**  
**Test: Hardness Test**

**Dated: 04-10-2023**

**Dated: 04-10-2023**

**Sample Type: Extension Profile 2.2mm Thickness C-Channel 50mmx32mmx32mm**

**Hardness Test Details:**

**Machine used: Avery Rockwell Hardness Testing Machine**  
(Minor Load: 10 Kgf      Major Load: 60kgf      Scale: C)

**Test Results**

<b>Sample No.</b>	<b>Sample Type</b>	<b>Hardness avg</b>
<b>1</b>	<b>Extension Profile C-Channel</b>	<b>HR –46.33 –C</b>

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

