

Arfan Nazir

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

Manager Civil, Nishat Mills Ltd. Nishat Group (Const Of Fabric Godown Extension Unit 35 Lahore)

Client Reference: NDF/FGST/005

SOM Lab Ref:

2472(Page-1/1)

Dated: 19-06-2023

Dated:

20-06-2023

Test: Tension Test

Test Specification:

ASTM-A-615

Guage Length: 200 m

Sample Type:

MS Def Bar (Sheikhoo 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	m	%	
1	2.444	20	19.90	314	311	156.70	207.70	499	504	661	668	30.0	200	15.0	
2	2.439	20	19.89	314	311	156.70	209.20	499	505	666	674	32.5	200	16.3	
3	1.547	16	15.84	201	197	97.70	131.70	486	496	655	669	32.5	200	16.3	
4	1.584	16	16.03	201	202	98.20	135.00	489	487	672	670	37.5	200	18.8	
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**BEND TEST:**

20mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Six Samples Received and Tested</b>
16mm	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)

Anees Akhtar,PM

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

Guarantee Engineers (Pvt) Ltd.(Const Hyundai Residential Project at FIEDMC,M3 IE Faisalbad)

Client Reference: NHH/GE/ST/015

Dated : 13-06-2023

SOM Lab Ref: CED/SOM/2473(Page-1/1)

Dated : 20-06-2023

Test: Tension Test &amp; Bend Test

Test Specification: ASTM-A 615

Sample Type: M S Deformed Bar

Gauge Length: 200 m

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	m	%	
1	2.363	20	19.58	314	301	149.50	212.20	476	497	675	705	30.0	200	15.0	
2	2.363	20	19.58	314	301	147.00	209.70	468	489	667	697	35.0	200	17.5	
3	1.510	16	15.65	201	192	103.20	130.70	513	537	650	680	25.0	200	12.5	
4	1.502	16	15.61	201	191	104.20	131.20	518	545	653	686	30.0	200	15.0	
5	0.866	12	11.85	113	110	49.50	72.50	438	449	641	658	35.0	200	17.5	
6	0.867	12	11.86	113	110	49.20	72.20	435	446	638	654	32.5	200	16.3	
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**BEND TEST:**

20mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:- Only Nine Samples Received and Tested</b>
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)

Mirza Muhammad Shahzad,RE

Test Performed By: Dr. /Engr. Waseem Abbas

Nespak Lahore.(Const Of Multi-Level Grade Separation Flyover at Shahdra Morr Lahore)

Client Reference: 4537/03/MSA/09/65

Dated: 17-06-2023

Test: Tension Test & Bend Test  
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2475 (Page-1/3)

Dated: 20-06-2023

ASTM-A-615

Deformed Bar (Mughal 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	2.644	8	0.995	0.79	0.777	27.37	35.93	76410	77690	100320	101990	1.40	8.00	17.5	D-8445
2	2.628	8	0.991	0.79	0.772	27.24	35.80	76040	77810	99950	102280	1.30	8.00	16.3	D-8445
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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)

Mirza Muhammad Shahzad,RE

Test Performed By: Dr. /Engr. Waseem Abbas

Nespak Lahore.(Const Of Multi-Level Grade Separation Flyover at Shahdra Morr Lahore)

Client Reference: 4537/03/MSA/09/66

SOM Lab

Ref: 2475 (Page-2/3)

Dated: 17-06-2023

Dated: 20-06-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Mughal 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	1.475	6	0.743	0.44	0.433	14.02	18.60	70260	71390	93250	94760	1.30	8.0	16.3	A-211
2	1.459	6	0.739	0.44	0.429	14.17	18.96	71020	72850	95040	97470	1.30	8.0	16.3	A-211
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**BEND TEST:**

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

Mirza Muhammad Shahzad,RE

Test Performed By: Dr. /Engr. Waseem Abbas

Nespak Lahore.(Const Of Multi-Level Grade Separation Flyover at Shahdra Morr Lahore)

Client Reference: 4537/03/MSA/09/67

SOM Lab

Ref: 2475 (Page-3/3)

Dated: 19-06-2023

Dated: 20-06-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Mughal 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	1.479	6	0.744	0.44	0.435	14.09	18.88	70620	71430	94630	95720	1.20	8.0	15.0	E-9368
2	1.473	6	0.743	0.44	0.433	14.07	19.01	70510	71650	95290	96830	1.30	8.0	16.3	E-9363
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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**BEND TEST:**

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

Muhammad Umar Farooq  
Civil Supervisor Ambition Apparel New Unit Lahore.

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

Client Reference: AA-NU-ST-01

SOM Lab

Ref: 2476 (Page-1/1)

Dated: 20-06-2023

Dated: 20-06-2023

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	2.660	8	0.998	0.79	0.782	34.45	40.08	96190	97170	111900	113040	1.30	8.0	16.3	
2	2.676	8	1.000	0.79	0.786	33.64	39.52	93910	94390	110330	110890	1.40	8.0	17.5	
3	1.486	6	0.746	0.44	0.437	14.14	18.52	70870	71360	92840	93480	1.40	8.0	17.5	
4	1.487	6	0.746	0.44	0.437	14.34	18.57	71890	72390	93100	93740	1.40	8.0	17.5	
5	0.666	4	0.500	0.20	0.196	6.85	9.14	75540	77080	100830	102890	1.00	8.0	12.5	
6	0.669	4	0.501	0.20	0.197	6.88	9.09	75880	77030	100270	101800	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)

Ilyas Majeed Sheikh  
Chairman Eagle Developers.(City Galleria.Gujranwala)

Test Performed By: Dr. /Engr. Waseem Abbas

Client Reference: Nil

SOM Lab

Ref: 2477 (Page-1/1)

Dated: 20-06-2023

Dated: 20-06-2023

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	2.566	8	0.980	0.79	0.754	24.43	34.15	68220	71470	95340	99890	1.00	8.00	12.5	
2	2.605	8	0.988	0.79	0.766	24.41	34.73	68160	70290	96960	100000	1.20	8.00	15.0	
3	1.504	6	0.750	0.44	0.442	15.16	20.74	75980	75640	103980	103510	1.00	8.00	12.5	
4	1.504	6	0.750	0.44	0.442	15.11	20.56	75720	75380	103060	102590	1.10	8.00	13.8	
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**BEND TEST:**

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

Gorrya Builders  
Lahore

Test Performed By: Dr. /Engr. Waseem Abbas

Client Reference: Nil

SOM Lab

Ref: 2478 (Page-1/1)

Dated: 20-06-2023

Dated: 20-06-2023

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	1.496	6	0.748	0.44	0.440	16.26	20.54	81500	81500	102960	102960	1.00	8.0	12.5		
2	0.672	4	0.501	0.20	0.197	6.65	8.56	73290	74410	94420	95860	1.10	8.0	13.8		
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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)



Umar Rehman

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

Zikria Const. Company.(Beaconhouse School Campus D Block Gulberg Greens Islamabad)

Client Reference: Nil

SOM Lab

Ref: 2479 (Page-2/2)

Dated: 20-06-2023

Dated: 20-06-2023

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	0.675	4	0.502	0.20	0.198	6.68	8.53	73630	74370	94090	95040	1.20	8.0	15.0	
2	0.672	4	0.501	0.20	0.197	6.73	8.46	74190	75320	93300	94720	1.30	8.0	16.3	
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**BEND TEST:**

# 4	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)

Umar Rehman

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

Zikria Const. Company.(Beaconhouse School Campus D Block Gulberg Greens Islamabad)

Client Reference: Nil

SOM Lab

Ref: 2479 (Page-1/2)

Dated: 20-06-2023

Dated: 20-06-2023

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	1.536	6	0.758	0.44	0.451	15.41	19.13	77260	75370	95910	93570	1.20	8.0	15.0	
2	1.537	6	0.759	0.44	0.452	15.44	19.42	77410	75360	97340	94750	1.20	8.0	15.0	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  <b>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)

Osmani & Compny (Pvt) Ltd.

Test Performed By: Dr. /Engr. Waseem Abbas

Engr Repres, Const Of Muridke Greenfield Aerodrome For General aviation Activities At Muridke)

Client Reference: OCL/CAA/MAD-ER/01-2K23/24

SOM Lab

Ref: 2480 (Page-1/1)

Dated: 18-06-2023

Dated: 20-06-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Prime Supreme)

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	1.015	5	0.616	0.31	0.298	7.97	11.88	56710	59000	84490	87890	1.20	8.00	15.0	
2	1.015	5	0.616	0.31	0.298	7.49	11.62	53310	55450	82680	86010	1.50	8.00	18.8	
3	0.660	4	0.497	0.20	0.194	5.05	7.37	55650	57370	81270	83790	1.10	8.00	13.8	
4	0.651	4	0.493	0.20	0.191	4.84	7.24	53400	55910	79810	83570	1.10	8.00	13.8	
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**BEND TEST:**

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