

Muhammad Shabbir

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Construction Manager, Opal Deever Developers Pvt. Ltd. Lahore

Client Reference: ZD/ZO/L/016

Dated: 20-01-2021

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

Dated: 20-01-2021

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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.854	12	11.78	113	109	53.20	74.00	470	489	654	679	27.5	200	13.8	
2	0.846	12	11.72	113	108	52.00	74.20	460	483	656	689	30.0	200	15.0	
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**BEND TEST:**

12mm	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)

M. Ahmad Associates  
Engineering & Contractors, Faisalabad

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

Client Reference: Nil

SOM Lab

Ref: 3683(Page-1/1)

Dated: 20-01-2021

Dated: 20-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

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	2.557	8	0.978	0.79	0.751	21.66	30.96	60480	63620	86430	90920	1.60	8.0	20.0	
2	2.544	8	0.976	0.79	0.748	21.66	30.99	60480	63870	86510	91370	1.50	8.0	18.8	
3	1.478	6	0.743	0.44	0.434	14.65	20.80	73430	74440	104230	105680	1.20	8.0	15.0	
4	1.455	6	0.738	0.44	0.428	13.10	18.20	65660	67500	91210	93760	1.50	8.0	18.8	
5	0.652	4	0.494	0.20	0.192	6.60	8.63	72730	75760	95210	99180	1.20	8.0	15.0	
6	0.654	4	0.494	0.20	0.192	6.29	8.61	69360	72250	94990	98940	1.20	8.0	15.0	
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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)

Muhammad Shabbir  
 Construction Manager, Deever Developers Pvt. Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: ZD/ZO/L/016

Dated: 20-01-2021

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref: 3684(Page-1/1)

Dated: 20-01-2021

ASTM-A-615

Deformed

Bar

Gauge Length: 8 inch

Sample Type:

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	0.574	4	0.464	0.20	0.169	5.42	7.54	59800	70770	83180	98440	1.10	8.0	13.8	
2	0.570	4	0.462	0.20	0.168	5.30	7.56	58460	69590	83410	99300	1.20	8.0	15.0	
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**BEND TEST:**

# 4	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)

Syed Yasir Ali

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

Resident Engineer, NESPAK, (Pvt) Ltd.(Establishment of U.E.T. Sub Campus at Narowal)

Client Reference: 3863/13/SYA/Labtesting/248

SOM Lab

Ref: 3685(Page-1/1)

Dated: 20-01-2021

Dated: 20-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

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	1.404	6	0.725	0.44	0.413	16.28	20.15	81600	86930	101020	107620	1.30	8.0	16.3	
2	1.497	6	0.748	0.44	0.440	16.79	20.46	84160	84160	102550	102550	1.20	8.0	15.0	
3	0.669	4	0.501	0.20	0.197	7.31	9.50	80600	81830	104770	106360	0.90	8.0	11.3	
4	0.661	4	0.497	0.20	0.194	7.24	9.40	79810	82280	103640	106850	1.00	8.0	12.5	
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**BEND TEST:**

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