

Engr. Zain-Ul-Abbidin  
Project Manager, DHA-NLD AOP, Lahore

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: DHA-NLD/21/Oct/0001

SOM Lab

Ref: 5248(Page-1/1)

Dated: 30-10-2021

Dated: 03-11-2021

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	2.597	8	0.986	0.79	0.763	23.39	33.33	65310	67620	93060	96350	1.40	8.0	17.5	
2	2.663	8	0.998	0.79	0.783	24.03	36.90	67080	67680	103020	103940	1.20	8.0	15.0	
3	2.574	8	0.981	0.79	0.756	22.40	32.57	62520	65340	90920	95010	1.50	8.0	18.8	
4	1.494	6	0.748	0.44	0.439	13.63	18.60	68320	68470	93250	93460	1.20	8.0	15.0	
5	1.502	6	0.749	0.44	0.441	14.70	19.67	73680	73510	98610	98390	1.40	8.0	17.5	
6	1.485	6	0.745	0.44	0.436	13.56	18.71	67960	68580	93760	94620	1.40	8.0	17.5	
7	0.631	4	0.485	0.20	0.185	6.47	8.15	71380	77170	89930	97220	1.20	8.0	15.0	
8	0.629	4	0.485	0.20	0.185	6.65	8.23	73290	79230	90720	98070	1.10	8.0	13.8	
9	0.646	4	0.492	0.20	0.190	6.80	8.38	74980	78920	92400	97260	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 Twelve 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)

Wajid Mehmood  
Resident Engineer, CM Div., Nespak (Pvt.) Ltd. Lahore

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: 4047/13/WM/09-I/92

SOM Lab

Ref: 5249(Page-1/1)

Dated: 03-11-2021

Dated: 03-11-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (Zia Steel)

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	1.480	6	0.744	0.44	0.435	12.18	18.93	61060	61760	94880	95980	1.30	8.0	16.3	132 Heat
2	1.504	6	0.750	0.44	0.442	12.08	19.27	60550	60280	96570	96130	1.50	8.0	18.8	133 Heat
3	1.500	6	0.749	0.44	0.441	12.44	19.34	62340	62200	96930	96710	1.40	8.0	17.5	134 Heat
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**BEND TEST:**

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

Manzoor Hussain Khan  
MD Fluck Builders

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: 21-fb-13

Dated: 03-11-2021

SOM Lab

Ref: 5250(Page-1/1)

Dated: 03-11-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

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	2.541	8	0.975	0.79	0.747	22.94	32.39	64030	67720	90410	95620	1.30	8.0	16.3	
2	1.503	6	0.750	0.44	0.442	13.51	17.76	67700	67400	89010	88610	1.30	8.0	16.3	
3	0.666	4	0.500	0.20	0.196	7.21	9.04	79470	81100	99710	101740	1.20	8.0	15.0	
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**BEND TEST:**

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