

Syed Yasir Ali
Resident Engineer, NESPAK, (Pvt) Ltd.(U.E.T. Sub Campus at Narowal)

Test Performed By:

Dr. /Engr. M Irfan UI Hassan

Client Reference: 3863/13/SYA/Labtesting/89

Dated: 08-09-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2938(Page-1/1)

Dated: 10-09-2020

ASTM-A-615

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)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.490	6	0.747	0.44	0.438	18.14	21.20	90950	91370	106280	106760	1.00	8.0	12.5	
2	1.469	6	0.742	0.44	0.432	17.74	20.90	88910	90550	104750	106690	1.10	8.0	13.8	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Executive Engineer (B & W)
UVAS, Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: E.E/580

Dated: 10-09-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2939 (Page-1/1)

Dated: 10-09-2020

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.571	8	0.981	0.79	0.756	28.75	36.21	80250	83860	101080	105630	1.10	8.0	13.8	
2	2.588	8	0.984	0.79	0.761	28.29	35.88	78970	81980	100170	103990	1.20	8.0	15.0	
3	1.497	6	0.748	0.44	0.440	16.72	20.51	83800	83800	102800	102800	0.90	8.0	11.3	
4	1.500	6	0.749	0.44	0.441	16.31	20.18	81750	81570	101170	100940	1.10	8.0	13.8	
5	0.670	4	0.501	0.20	0.197	8.00	9.38	88240	89590	103420	104990	0.90	8.0	11.3	
6	0.665	4	0.498	0.20	0.195	7.97	9.33	87910	90160	102860	105490	0.90	8.0	11.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Engr. Atif Irfan Shaikh
Project Director, Banu Mukhtar Contracting (Pvt) Ltd., Lahore

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

Client Reference: BML-002-Civil-002

SOM Lab

Ref: 2940(Page-1/1)

Dated: 08-09-2020

Dated: 10-09-2020

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.517	6	0.754	0.44	0.446	14.65	19.80	73430	72440	99230	97890	1.40	8.0	17.5	
2	1.503	6	0.750	0.44	0.442	14.63	19.80	73320	72990	99230	98780	1.30	8.0	16.3	
3	1.027	5	0.620	0.31	0.302	9.55	14.04	67960	69760	99860	102510	1.30	8.0	16.3	
4	1.037	5	0.623	0.31	0.305	9.60	14.14	68320	69440	100590	102240	1.30	8.0	16.3	
5	0.662	4	0.498	0.20	0.195	6.98	9.28	77000	78980	102290	104920	1.30	8.0	16.3	
6	0.662	4	0.498	0.20	0.195	6.95	9.25	76660	78630	101960	104570	1.20	8.0	15.0	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Executive Engineer PWD,
Highways Division Bhimber AK.

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

Client Reference: nil

SOM Lab

Ref: 2941(Page-1/1)

Dated: 10-09-2020

Dated: 10-09-2020

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.621	8	0.990	0.79	0.770	26.81	36.60	74850	76790	102170	104820	1.30	8.0	16.3	
2	2.678	8	1.001	0.79	0.787	26.61	36.46	74280	74560	101800	102180	1.30	8.0	16.3	
3	0.660	4	0.497	0.20	0.194	6.85	9.94	75540	77880	109600	112990	1.00	8.0	12.5	
4	0.662	4	0.498	0.20	0.195	6.52	9.28	71940	73790	102290	104920	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six 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

Muhammad Saleem
Project Director (North-3) PAEC, Chashma

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

Client Reference: KCI-Works-81(326)17/1919
Dated: 08-09-2020
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 2942(Page-1/1)
Dated: 10-09-2020
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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.675	8	1.000	0.79	0.786	22.88	34.10	63890	64220	95190	95680	1.60	8.0	20.0	
2	2.678	8	1.001	0.79	0.787	22.88	34.35	63890	64130	95900	96270	1.50	8.0	18.8	
3	1.536	6	0.758	0.44	0.451	13.99	19.49	70100	68390	97690	95310	1.20	8.0	15.0	
4	1.536	6	0.758	0.44	0.451	13.99	19.37	70100	68390	97080	94710	1.20	8.0	15.0	
5	1.038	5	0.623	0.31	0.305	9.60	13.48	68320	69440	95880	97450	1.30	8.0	16.3	
6	1.050	5	0.627	0.31	0.309	10.24	13.97	72890	73120	99360	99680	1.30	8.0	16.3	
7	0.654	4	0.494	0.20	0.192	6.07	8.69	66890	69670	95770	99760	1.20	8.0	15.0	
8	0.656	4	0.496	0.20	0.193	6.01	8.72	66320	68730	96110	99600	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 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