

Khalid Mahmood

Resident Engineer, NESPAK JV Turk Pak Resident Const. Supervision for Establishment of D. G. Khan (M/s ZKB)

Test Performed By:

Dr. /Engr.

Nauman Khurram

Client Reference: 4161/RE/SFMKB/DGK/169

SOM Lab Ref: 3550(Page-1/1)

Dated: 31-12-2020

Dated: 04-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(SJ 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	2.661	8	0.998	0.79	0.782	28.24	36.75	78830	79640	102590	103640	1.40	8.0	17.5	
2	2.655	8	0.997	0.79	0.780	28.13	36.56	78550	79550	102080	103390	1.50	8.0	18.8	
3	1.513	6	0.753	0.44	0.445	16.51	20.87	82780	81850	104590	103420	1.20	8.0	15.0	
4	1.497	6	0.748	0.44	0.440	16.21	20.34	81240	81240	101940	101940	1.10	8.0	13.8	
5	0.673	4	0.502	0.20	0.198	6.73	8.48	74190	74940	93530	94470	1.00	8.0	12.5	
6	0.594	4	0.472	0.20	0.175	6.52	8.21	71940	82220	90490	103420	1.10	8.0	13.8	
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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

Muhammad Rabi Yousaf
Chughtai
Lt Commander PN, GE (Navy) Lahore

Test Performed By: Dr. /Engr. M. Irfan UI Hassan

Client Reference: 6021/153/35/E-6

SOM Lab Ref: 3553(Page-1/1)

Dated: 18-12-2020

Dated: 04-01-2021

Test: Tension Test & Bend Test
Guage Length: 8 inch

Test Specification: ASTM-A-615
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	1.504	6	0.750	0.44	0.442	15.49	19.24	77670	77310	96420	95980	1.10	8.0	13.8	
2	1.494	6	0.748	0.44	0.439	15.80	19.67	79200	79380	98610	98840	1.20	8.0	15.0	
3	1.033	5	0.622	0.31	0.304	10.81	13.32	76880	78390	94790	96660	1.10	8.0	13.8	
4	1.043	5	0.625	0.31	0.307	10.91	13.25	77600	78360	94280	95200	1.20	8.0	15.0	
5	0.664	4	0.498	0.20	0.195	5.22	11.34	57560	59030	125000	128200	1.90	8.0	23.8	
6	0.667	4	0.500	0.20	0.196	5.15	7.56	56770	57930	83410	85110	1.40	8.0	17.5	
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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

Ali Ahmad
Project Engineer, Multan Construction Services (Pvt) Ltd. Multan

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: MCS/UET/TST

SOM Lab Ref: 3554(Page-1/1)

Dated: 04-12-2020

Dated: 04-01-2021

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
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	0.650	4	0.493	0.20	0.191	6.49	8.36	71610	74980	92180	96520	1.00	8.0	12.5	
2	0.651	4	0.493	0.20	0.191	6.44	8.26	71040	74390	91050	95340	1.00	8.0	12.5	
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BEND TEST:

# 4	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