

Maqsood Ahmad
Executive Engineer, State Bank of Pakistan, Sialkot

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

Client Reference: ED/18260/SKT-NB/2021

SOM Lab 4021(Page-

Ref: 1/1)

Dated: 05-03-2021

Dated: 12-03-2021

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.703	8	1.005	0.79	0.794	28.54	35.52	79680	79280	99180	98680	1.60	8.0	20.0	
2	2.700	8	1.005	0.79	0.793	28.34	35.39	79120	78820	98810	98430	1.50	8.0	18.8	
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BEND TEST:

# 8	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

Secretary
Engineers Town Society Ltd., Lahore

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

Client Reference: 8349-

SOM Lab 4022 (Page-

Ref: 1/1)

Dated: 11-03-2021

Dated: 12-03-2021

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.662	4	0.498	0.20	0.195	7.19	9.25	79250	81280	101960	104570	1.00	8.0	12.5	
2	0.663	4	0.498	0.20	0.195	7.39	9.12	81500	83590	100610	103190	1.20	8.0	15.0	
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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

Maj Adnan khalid®

Test Performed By:

Dr. /Engr. S. Asad Ali Gillani

Dy Dir MTL, Const. of Addl Rooms at DHA MTL, Sector - B, Town Ph-IX (M/S Tahira Const.)

Client Reference: 408/241/E/Lab/49/34

SOM Lab 4023(Page-

Ref: 1/1)

Dated: 11-03-2021

Dated: 12-03-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Ittefaq 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	1.505	6	0.750	0.44	0.442	12.95	19.88	64890	64600	99640	99190	1.40	8.0	17.5	
2	1.508	6	0.751	0.44	0.443	13.02	19.90	65250	64810	99740	99060	1.40	8.0	17.5	
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BEND TEST:

--	No Bend test performed	Note:- Only Two Samples Received and Tested

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

Engr. Irfan Ali
 Manager Project, Ittefaq Construction Services, Lahore

Test Performed By:

Dr. /Engr.

M. Irfan UI Hassan

Client Reference: ICS/H.O/B.T.P/41

SOM Lab Ref:

4024(Page-1/1)

Dated: 11-03-2021

Dated:

12-03-2021

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.686	8	1.002	0.79	0.789	23.16	36.95	64660	64740	103160	103290	1.30	8.0	16.3	
2	2.698	8	1.005	0.79	0.793	23.24	37.00	64890	64640	103300	102910	1.20	8.0	15.0	
3	0.151	6	0.237	0.44	0.044	13.22	21.30	66270	662680	106790	1067850	1.20	8.0	15.0	
4	1.561	6	0.764	0.44	0.459	13.46	21.56	67450	64660	108070	103590	1.30	8.0	16.3	
5	0.653	4	0.494	0.20	0.192	5.78	9.04	63740	66390	99710	103860	1.20	8.0	15.0	
6	0.651	4	0.493	0.20	0.191	5.71	8.99	62950	65920	99150	103820	1.20	8.0	15.0	
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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

Brig Saeed Ahmed Malik SI(M). ©
Resident Engineer, NESPAK (Pvt) Ltd. Lahore

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

Client Reference: 4084/BSAM/104/338

SOM Lab 4026(Page-

Ref: 1/1)

Dated: 11-03-2021

Dated: 12-03-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Kamran 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	2.682	8	1.002	0.79	0.788	26.81	35.95	74850	75040	100370	100630	1.30	8.0	16.3	
2	2.677	8	1.001	0.79	0.787	25.69	35.85	71720	71990	100090	100470	1.40	8.0	17.5	
3	1.504	6	0.750	0.44	0.442	13.61	20.13	68210	67910	100910	100460	1.30	8.0	16.3	
4	1.503	6	0.750	0.44	0.442	13.61	20.15	68210	67910	101020	100560	1.40	8.0	17.5	
5	0.672	4	0.501	0.20	0.197	5.88	8.69	64860	65850	95770	97230	1.20	8.0	15.0	
6	0.669	4	0.501	0.20	0.197	5.93	8.74	65420	66420	96340	97800	1.20	8.0	15.0	
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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

Project Manager
M/S ZKB - Rellable JV, PICIIP - Sialkot

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

Client Reference: Nespak/SAH/ZKB-Reliable/UET/008

SOM Lab 4027(Page-1/1)
Ref: 1/1

Dated: 12-03-2021

Dated: 12-03-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage Length: 8 inch

Sample Type:

Deformed Bar (ITTEHAD 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	2.708	8	1.007	0.79	0.796	29.10	35.83	81250	80640	100030	99280	1.30	8.0	16.3	
2	2.719	8	1.009	0.79	0.799	27.47	34.35	76700	75830	95900	94820	1.10	8.0	13.8	
3	0.661	4	0.497	0.20	0.194	5.83	8.82	64300	66290	97230	100240	1.20	8.0	15.0	
4	0.658	4	0.496	0.20	0.193	5.81	8.87	64080	66400	97800	101340	1.10	8.0	13.8	
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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

Test Performed by: Dr. M. Irfan UI Hassan

H & B Fasteners
Lahore

Client Reference No.: Nil

Dated: 12-03-2021

SOM Lab Ref: CED/SOM/4025(Page 1/1)

Dated: 12-03-2021

Test Type: Tensile Test

Sample Type: Step Bolt JD Grade 5.8(16mm Diameter)

Test Specification: ASTM – F-606

Tensile Test Results

Sample No.	Sample Type	Tested Diameter of Bolt (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	% Elongation
1	Step- Bolt (200 x 16mm)	10.0	39.7	505.48	15.0
2	Step- Bolt (200 x 16mm)	10.0	38.2	486.38	25.0
3	Step- Bolt (200 x 16mm)	10.0	40.7	518.21	15.0
4	Step- Bolt (200 x 16mm)	10.0	41.5	528.0	25.0
5	Step- Bolt (200 x 16mm)	10.0	40.5	515.66	30.0
6	Step- Bolt (200 x 16mm)	10.0	35.5	452.0	30.0
7	Step- Bolt (200 x 16mm)	10.0	38.7	492.74	25.0
8	Step- Bolt (200 x 16mm)	10.0	35.5	452.00	30.0
9	Step- Bolt (200 x 16mm)	10.0	38.7	492.7	25.0

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