

Abdul Wali  
Coordinator QC AKAH

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

Client Reference: Nil

SOM Lab

Ref: 161 (Page-1/1)

Dated: Nil

Dated: 06-11-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.659	8	0.997	0.79	0.781	32.62	39.40	91070	92120	109990	111260	1.20	8.0	15.0	
2	2.630	8	0.992	0.79	0.773	32.23	39.22	89990	91960	109480	111890	1.30	8.0	16.3	
3	1.513	6	0.753	0.44	0.445	18.14	22.12	90950	89930	110880	109630	1.30	8.0	16.3	
4	1.519	6	0.754	0.44	0.446	18.65	22.43	93510	92250	112410	110900	1.20	8.0	15.0	
5	1.065	5	0.631	0.31	0.313	11.72	14.58	83400	82600	103710	102710	1.10	8.0	13.8	
6	1.058	5	0.629	0.31	0.311	11.47	14.58	81590	81330	103710	103370	1.00	8.0	12.5	
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Witnessed By: Abdul Wali Khan (Coordinator QC AKAH), Hassan (Ittehad)

**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Six Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Abdul Wali  
Coordinator QC AKAH.(JKs Const. Project in GBC Executed by AKAH)

**Test Performed By:** Dr. /Engr. Nauman Khurram

**Client Reference:** Nil

**SOM Lab**

**Ref:** 162 (Page-1/1)

**Dated:** Nil

**Dated:** 06-11-2024

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar

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	1.061	5	0.630	0.31	0.312	10.77	13.66	76660	76170	97180	96560	1.40	8.0	17.5	
2	1.014	5	0.616	0.31	0.298	11.37	13.99	80860	84120	99500	103510	1.20	8.0	15.0	
3	0.660	4	0.497	0.20	0.194	5.91	8.58	65200	67220	94650	97580	1.20	8.0	15.0	
4	0.665	4	0.498	0.20	0.195	5.86	8.66	64640	66290	95550	98000	1.50	8.0	18.8	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Four Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Abdul Wali  
Coordinator QC AKAH.(Const of JKs in GBC Project)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 164 (Page-1/1)

Dated: Nil

Dated: 06-11-2024

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	2.613	8	0.989	0.79	0.768	25.96	34.73	72480	74560	96960	99730	1.30	8.0	16.3	
2	2.601	8	0.986	0.79	0.764	25.43	34.37	71000	73420	95960	99230	1.20	8.0	15.0	
3	1.608	6	0.776	0.44	0.473	15.51	21.15	77770	72340	106020	98630	1.20	8.0	15.0	
4	1.601	6	0.774	0.44	0.470	15.36	21.12	77000	72090	105870	99110	1.20	8.0	15.0	
5	1.067	5	0.632	0.31	0.314	10.09	14.09	71800	70880	100230	98950	1.40	8.0	17.5	
6	1.059	5	0.629	0.31	0.311	10.06	13.97	71580	71350	99360	99040	1.30	8.0	16.3	
7	0.599	4	0.473	0.20	0.176	5.78	7.72	63740	72430	85100	96700	1.30	8.0	16.3	
8	0.600	4	0.473	0.20	0.176	5.76	7.67	63510	72170	84530	96060	1.30	8.0	16.3	
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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	
# 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](http://www.uet-civil.edu.pk)