

Khalid Bashir

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Ittefaq Building Solution (Pvt) Ltd. Lahore (Project Name: U. S. Apparel Conteen)

Client Reference: IBS/USAP/ST-01

Dated: 19-12-2020

SOM Lab Ref: CED/SOM/3568 (Page-1/1)

Dated: 06-01-2020

Test: Tension Test Bend Test

Test Specification:

ASTM-F-1554

Sample Type: M S Deformed Bar

Gauge Length:

200 mm

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)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.595	16	16.08	201	203	96.20	136.50	478	474	679	673	40.0	200	20.0	
2	0.961	12	12.48	113	122	61.00	84.70	539	499	749	693	35.0	200	17.5	
3	2.004	19	18.03	284	255	104.20	159.20	368	409	561	624	40.0	200	20.0	
4	1.521	16	15.71	201	194	104.50	134.50	520	540	669	694	37.5	200	18.8	
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**BEND TEST:**

16mm	Sample bend through 180 degrees Satisfactorily without any crack	<p><b>Note:-</b></p> <p><b>Only Six Samples Received and Tested</b></p>
12mm	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)

New Etehad Steel

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Shop No. 1, Al-Fatih Markeet, Saraiy Sultan, Lahore (Abu Bakkar)

Client Reference: nil

Dated: 06-01-2021

SOM Lab Ref: CED/SOM/3574(Page-1/1)

Dated: 06--01-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A -36

Sample Type: Round Bar

Gauge Length: 200 mm

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)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.950	25	25.31	491	503	165.00	260.00	336	329	530	517	62.5	200	31.3	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-  Only One Sample Received and Tested</b>

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

Shahid Jamil

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Construction Manager, Mughals Pakistan (Ovt) Ltd.

Client Reference: 786/MPL-0064/060101/2021

Dated: 06-01-2021

SOM Lab Ref: CED/SOM/3581 (Page-1/1)

Dated: 06-01-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

Gauge Length: 200 mm

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)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.908	25	25.18	491	498	243.70	342.70	496	490	698	689	37.5	200	18.8	
2	3.895	25	25.13	491	496	250.20	346.20	510	505	705	698	35.0	200	17.5	
3	0.890	12	12.01	113	113	60.20	77.50	532	532	685	684	25.0	200	12.5	
4	0.897	12	12.06	113	114	61.20	77.70	541	536	687	680	27.5	200	13.8	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Six Samples Received and Tested</b>
12mm	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)

Khalid Bashir

Test Performed By: Dr. /Engr.

S. Asas Ali  
Gillani

Ittefaq Building Solution (Pvt) Ltd. Lahore (Project Name: U. S. Apparel Conteen)

Client Reference: IBS/USAP/ST-01

SOM Lab

Ref: 3568 (Page-1/1)

Dated: 19-12-2020

Dated: 06-12-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	1.452	6	0.737	0.44	0.427	13.48	19.39	67550	69610	97180	100140	1.20	8.0	15.0	
2	1.474	6	0.743	0.44	0.433	13.53	19.67	67810	68900	98610	100210	1.40	8.0	17.5	
3	0.658	4	0.496	0.20	0.193	6.44	8.56	71040	73620	94420	97850	1.10	8.0	13.8	
4	0.661	4	0.497	0.20	0.194	6.44	8.56	71040	73240	94420	97340	1.20	8.0	15.0	
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**BEND TEST:**

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

Assistant Engineer (Civil)  
GC University, Faisalabad

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: GCUF/EC/2640

SOM Lab

Ref: 3569 (Page-1/1)

Dated: 21-08-2020

Dated: 06-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	1.451	6	0.736	0.44	0.426	13.17	19.13	66020	68190	95910	99060	1.30	8.0	16.3	
2	1.447	6	0.736	0.44	0.425	13.56	19.72	67960	70360	98870	102360	1.10	8.0	13.8	
3	0.664	4	0.498	0.20	0.195	6.44	8.84	71040	72870	97460	99960	1.30	8.0	16.3	
4	0.656	4	0.496	0.20	0.193	6.47	8.79	71380	73970	96900	100410	1.40	8.0	17.5	
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**BEND TEST:**

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

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

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

Client Reference: 6021/153/42/E-6

SOM Lab Ref: 3570(Page-1/1)

Dated: 05-01-2021

Dated: 06-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage 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	0.654	4	0.494	0.20	0.192	5.22	7.44	57560	59950	82060	85480	1.40	8.0	17.5	
2	0.643	4	0.491	0.20	0.189	5.20	7.36	57330	60670	81160	85880	1.50	8.0	18.8	
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**BEND TEST:**

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

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

Resident Engineer  
NESPAK - RHC JV, Bahawalnagar

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

Client Reference: 3158/13/CAA/02/1035

SOM Lab  
Ref: 3571(Page-1/1)

Dated: 31-12-2020

Dated: 06-01-2021

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	2.590	8	0.984	0.79	0.761	25.33	35.49	70720	73420	99090	102870	1.20	8.0	15.0	
2	2.578	8	0.982	0.79	0.758	24.82	35.09	69300	72220	97950	102090	1.40	8.0	17.5	
3	1.521	6	0.754	0.44	0.447	13.22	19.16	66270	65230	96060	94560	1.40	8.0	17.5	
4	1.546	6	0.760	0.44	0.454	12.86	18.60	64480	62500	93250	90370	1.30	8.0	16.3	
5	0.662	4	0.498	0.20	0.195	5.88	8.63	64860	66530	95210	97650	1.30	8.0	16.3	
6	0.664	4	0.498	0.20	0.195	5.78	8.69	63740	65370	95770	98230	1.40	8.0	17.5	
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**BEND TEST:**

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

Project Engineer  
Multan Cricket Stadium Multan, ( HMS Enerprises)

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: PCB/MCS/HMS/2

SOM Lab

Ref: 3572(Page-1/1)

Dated: 04-01-2021

Dated: 06-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	1.500	6	0.749	0.44	0.441	13.99	19.83	70100	69950	99380	99160	1.50	8.0	18.8	
2	0.642	4	0.491	0.20	0.189	6.01	7.75	66320	70180	85430	90400	1.50	8.0	18.8	
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Witnessed By: Sohaib Ali, NESPAK

**BEND TEST:**

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

Muhammad Saleem  
 GM, Professional Construction Services (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: PCS/2020/Eng-104

SOM Lab  
 Ref: 3580(Page-1/1)

Dated: 23-12-2020

Dated: 06-01-2021

Test: Tension 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	0.676	4	0.503	0.20	0.199	7.14	8.84	78690	79080	97460	97950	1.10	8.0	13.8	
2	0.684	4	0.506	0.20	0.201	6.27	8.10	69130	68790	89370	88920	1.30	8.0	16.3	
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**BEND TEST:**

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

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

Abrar Hussain  
G. M - Engineering, Mughals Pakistan (Ovt) Ltd.

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

Client Reference: 786/MPL-0064/060101/2021

SOM Lab  
Ref: 3581(Page-1/1)

Dated: 06-01-2021

Dated: 06-01-2021

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	2.623	8	0.991	0.79	0.771	23.04	37.58	64320	65900	104930	107510	1.20	8.0	15.0	
2	2.643	8	0.995	0.79	0.777	22.91	36.80	63950	65020	102730	104450	1.30	8.0	16.3	
3	0.661	4	0.497	0.20	0.194	6.75	8.36	74420	76720	92180	95030	1.20	8.0	15.0	
4	0.662	4	0.498	0.20	0.195	6.68	8.33	73630	75520	91840	94190	1.20	8.0	15.0	
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**BEND TEST:**

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

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

Muhammad Sohail Anjum  
Project Manager, P-156, Gulberg-II, Lahore

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

Client Reference: P-156-190

SOM Lab

Ref: 3582(Page-1/1)

Dated: 06-01-2021

Dated: 06-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.496	8	0.967	0.79	0.734	29.46	40.64	82250	88520	113460	122120	1.00	8.0	12.5	
2	2.583	8	0.983	0.79	0.759	25.66	35.24	71630	74560	98380	102400	1.10	8.0	13.8	
3	1.473	6	0.743	0.44	0.433	13.78	17.69	69080	70200	88650	90080	1.30	8.0	16.3	
4	1.470	6	0.742	0.44	0.432	15.24	19.75	76390	77800	98970	100800	1.00	8.0	12.5	
5	0.674	4	0.502	0.20	0.198	7.16	8.92	78910	79710	98360	99350	1.00	8.0	12.5	
6	0.662	4	0.498	0.20	0.195	7.29	9.04	80370	82430	99710	102260	0.90	8.0	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

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

Test Performed by: Dr.S. Asad ali Gillani

Khamees Ali Mangnejo,  
Chief Resident Engineer,  
Mangi Dam Project,

ACE – CAMEOS – KASIB JOINT VENTURE

Project: Construction of Mangi Dam and Water Conveyance System (PKG-I)

Client Reference No.: CRE/MDP/Tech-4765-69

Dated: 15-12-2020

SOM Lab Ref: CED/SOM/3467-3596(Page 1/1)

Dated: 06-01-2021

Test Type: Hardness Test

Sample Type: Steel Plate & Rock Bolt, Nut & Pipe

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine

(Minor Load: 10 Kgf Major Load: 90.0 kgf Scale: B)

Hardness Test Results

Sample No.	Sample Type	Hardness
1	Plate	HR – 67.66 – B
2	Rock Bolt”	HR – 90.00 – B
3	Nut	HR – 67.33 – B
4	Pipe	HR – 75.66 – B

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

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

Maj Adnan Khalid ®

Dy Dir MTL.

Testing of Anchor Bolt - Const. of (U/G) External Elec. works, Alongwith Street Light System,  
Pkg. E -3, Sector – F-2, DHA Ph.- IX, Prism – 9, - (M/S FWO)

Client Reference: 408/241/E/1059/890

Dated: 18-12-2020

SOM Lab Ref: CED/SOM/3573(Page-1/1)

Dated: 06-01-2021

Test: Tension Test

Test Specification: ASTM-F -606

Sample Type: Y Bolt

Gauge Length: 45 mm

S.No.	Dia.		Area	Yield Load	Ultimate Load	Yield Stress	Ultimate. Stress	Elongation	Gauge Length	%age Elongation	Reduction of Area (%)
	Original Diameter	Tested Diameter									
	mm	mm	mm <sup>2</sup>	kN	kN	MPa	MPa	mm	mm	%	
1	12	8	50.27	17.7	23.0	253	457	17.0	45.0	37.7	52.7
2	12	8	50.27	19.0	27.0	377	537	16.0	45.0	35.5	57.8
3	12	8	50.27	18.5	23.7	368	471	15.0	45.0	33.3	51.0

**Note:-**

**Only Three 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)

