

Altat Hussain

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

M.E., A. S. Enterprises Project: STYLE TEXTILE MILL RAIWIND (A. A. Associates)

Client Reference: USD/ASE/16

Dated: 31-10-2019

SOM Lab Ref: CED/SOM/1664(Page-1/1)

Dated: 31-10-2019

Test: Tension Test & Bend Test

Test Specification: ASTM-F-1554

Sample Type: Deformed Bar (AFCO Steel)

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.622	25	24.23	491	461	204.20	288.20	416	443	587	626	37.5	200	18.8	
2	3.617	25	24.22	491	461	202.70	289.00	413	440	589	628	35.0	200	17.5	
3	2.357	20	19.55	314	300	159.70	202.20	508	532	644	674	27.5	200	13.8	
4	2.356	20	19.55	314	300	157.00	200.00	500	524	637	667	30.0	200	15.0	
5	1.521	16	15.71	201	194	91.70	125.00	456	474	622	646	35.0	200	17.5	
6	1.515	16	15.67	201	193	90.20	123.20	449	468	613	639	30.0	200	15.0	
7	0.842	12	11.69	113	107	56.20	74.50	497	524	659	695	27.5	200	13.8	
8	0.846	12	11.71	113	108	56.70	75.50	501	527	668	701	25.0	200	12.5	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
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

Engr. Zohaib Ul Hassan
Coordinator, SAMPAK International (Pvt) Ltd. Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillai

Client Reference: III -20-HW/4229

Dated: 30-10-2019

SOM Lab Ref: CED/SOM/1665(Page-1/1)

Dated: 31-10-2019

Test: Tension Test & bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar(AAGHA Steel)

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.448	20	19.93	314	312	178.20	224.70	567	572	715	721	30.0	200	15.0	
2	2.452	20	19.94	314	312	179.70	224.70	572	576	715	720	32.5	200	16.3	
3	1.546	16	15.84	201	197	96.70	134.50	481	491	669	683	37.5	200	18.8	
4	1.553	16	15.87	201	198	97.50	135.00	485	493	671	683	35.0	200	17.5	
5	0.851	12	11.75	113	108	63.70	78.00	563	588	690	720	27.5	200	13.8	
6	0.894	12	12.04	113	114	64.20	80.20	568	565	709	705	25.0	200	12.5	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
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