Engr. Saeed -ur-Rehman **Test Performed By:** **Dr. /Engr.** **S. Asad Ali Gillani**

Assistant Manager, Volka Food International Ltd. Multan

Client Reference: nil **Dated:** 23-09-2019

SOM Lab Ref: CED/SOM/1516(Page-1/1) **Dated:** 03-10-2019

Test: Tension Test & Bend Test **Test Specification:** ASTM-A 615

Sample Type: Deformed Bar(FF 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	3.977	25	25.41	491	507	256.00	344.50	522	505	702	680	32.5	200	16.3	
2	3.958	25	25.34	491	504	255.70	342.70	521	508	698	680	32.5	200	16.3	
3	1.027	12	12.91	113	131	64.50	84.50	570	493	747	646	32.5	200	16.3	
4	1.020	12	12.86	113	130	63.70	83.00	563	491	734	639	30.0	200	15.0	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Sub Divisional Officer
Buildings Sub Division, Jaranwala

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

Client Reference: **1522/J**
Dated: **09-09-2019**

SOM Lab Ref: **1513 (Page-1/2)**
Dated: **3-10-2019**

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.604	6	0.774	0.44	0.471	16.69	20.76	83640	78140	104080	97230	1.20	8.0	15.0	
2	0.720	4	0.520	0.20	0.212	7.10	9.25	78350	73920	101960	96190	1.10	8.0	13.8	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Four Samples Received and Tested

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

Sub Divisional Officer
Buildings Sub Division, Jaranwala

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

Client Reference: **1570/J**
Dated: **15-09-2019**

SOM Lab Ref: **1513 (Page-2/2)**
Dated: **3-10-2019**

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.611	6	0.776	0.44	0.473	16.99	20.87	85180	79230	104590	97300	1.10	8.0	13.8	
2	0.769	4	0.536	0.20	0.226	5.81	7.85	64080	56700	86560	76600	1.20	8.0	15.0	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Four Samples Received and Tested

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

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

Manager QA/QC, Department, Bahria Town, (Pvt) Ltd Lahore

Client Reference: **QA/QC-Steel-1635** **SOM Lab Ref:** **1514(Page-1/1)**

Dated: **02-10-2019** **Dated:** **03-10-2019**

Test: **Tension Test & Bend Test** **Test Specification:** **ASTM-A-615**

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar(FF 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	2.706	8	1.006	0.79	0.795	27.03	36.14	75470	75000	100880	100250	1.50	8.0	18.8	
2	2.707	8	1.007	0.79	0.796	27.12	36.19	75700	75130	101030	100270	1.40	8.0	17.5	
3	1.474	6	0.743	0.44	0.433	13.10	18.25	65660	66720	91460	92940	1.20	8.0	15.0	
4	1.539	6	0.759	0.44	0.452	16.00	21.30	80220	78090	106790	103950	1.00	8.0	12.5	
5	0.673	4	0.502	0.20	0.198	6.65	8.53	73290	74030	94090	95040	1.10	8.0	13.8	
6	0.671	4	0.501	0.20	0.197	5.47	7.67	60370	61290	84530	85820	1.40	8.0	17.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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

Engr M Naveed Sadiq
Resident Engineer, Orbit Housing, Lahore

Test Performed By: **Dr. /Engr.** **Riaz Ahmad Goraya**

Client Reference: **Nil**
Dated: **03-10-2019**

SOM Lab Ref: **1517(Page-1/1)**
Dated: **03-10-2019**

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.645	8	0.995	0.79	0.777	26.76	33.38	74700	75950	93200	94760	1.10	8.0	13.8	
2	2.600	8	0.986	0.79	0.764	25.48	32.16	71150	73570	89790	92840	1.00	8.0	12.5	
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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

Maj. Munawar Iqbal Khan
G.E (Army) -II, Gujranwala Cantt.

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

Client Reference: **6000-669/116/E-6**
Dated: **02-10-2019**

SOM Lab Ref: **1518 (Page-1/1)**
Dated: **03-10-2019**

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.617	8	0.990	0.79	0.769	22.83	35.02	63750	65490	97750	100420	1.40	8.0	17.5	
2	2.623	8	0.991	0.79	0.771	22.83	34.91	63750	65320	97470	99870	1.30	8.0	16.3	
3	1.528	6	0.756	0.44	0.449	13.43	20.80	67290	65950	104230	102150	1.30	8.0	16.3	
4	1.518	6	0.754	0.44	0.446	13.22	20.49	66270	65380	102700	101320	1.20	8.0	15.0	
5	1.040	5	0.624	0.31	0.306	9.04	13.71	64330	65170	97540	98820	1.10	8.0	13.8	
6	1.010	5	0.615	0.31	0.297	8.48	13.12	60340	62980	93340	97420	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 5	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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