

Rana Waqar Ahmed
General Manager Plant, Shangrila Food (Pvt) Ltd. Karachi

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

Client Reference: nil
SOM Lab Ref: CED/SOM/2944(Page-1/1)

Dated: 08-09-2020

Dated: 11-09-2020

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.874	25	25.05	491	493	276.20	358.50	563	561	730	728	37.5	200	18.8	
2	3.841	25	24.96	491	489	268.00	353.20	546	548	720	722	35.0	200	17.5	
3	2.191	20	18.85	314	279	129.50	177.00	412	465	563	635	35.0	200	17.5	
4	2.181	20	18.81	314	278	127.50	174.00	406	459	554	627	37.5	200	18.8	
5	0.989	12	12.66	113	126	77.00	89.50	681	612	791	711	30.0	200	15.0	
6	0.992	12	12.68	113	126	75.00	87.70	663	594	775	695	30.0	200	15.0	
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BEND TEST:

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

Rana Waqar Ahmed
General Manager Plant, Shangrila Food (Pvt) Ltd. Karachi

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

Client Reference: nil
SOM Lab Ref: CED/SOM/2944(Page-1/1)

Dated: 08-09-2020

Dated: 11-09-2020

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.874	25	25.05	491	493	276.20	358.50	563	561	730	728	37.5	200	18.8	
2	3.841	25	24.96	491	489	268.00	353.20	546	548	720	722	35.0	200	17.5	
3	2.191	20	18.85	314	279	129.50	177.00	412	465	563	635	35.0	200	17.5	
4	2.181	20	18.81	314	278	127.50	174.00	406	459	554	627	37.5	200	18.8	
5	0.989	12	12.66	113	126	77.00	89.50	681	612	791	711	30.0	200	15.0	
6	0.992	12	12.68	113	126	75.00	87.70	663	594	775	695	30.0	200	15.0	
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BEND TEST:

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

Resident Engineer,
ESS-I-AAR Consultant, Dera Ghazi Khan

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

Client Reference: 425

SOM Lab

Ref: 2943(Page-1/1)

Dated: 14-07-2020

Dated: 11-09-2020

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.860	8	1.034	0.79	0.840	24.52	35.73	68440	64370	99750	93810	1.50	8.0	18.8	
2	2.814	8	1.026	0.79	0.827	24.31	35.85	67870	64840	100090	95610	1.40	8.0	17.5	
3	1.501	6	0.749	0.44	0.441	13.10	19.32	65660	65510	96830	96610	1.30	8.0	16.3	
4	1.489	6	0.747	0.44	0.438	13.20	19.27	66170	66470	96570	97010	1.30	8.0	16.3	
5	1.090	5	0.638	0.31	0.320	9.67	13.53	68830	66670	96240	93230	1.50	8.0	18.8	
6	1.089	5	0.638	0.31	0.320	9.73	13.63	69260	67100	96960	93930	1.40	8.0	17.5	
7	0.679	4	0.505	0.20	0.200	6.12	8.87	67450	67450	97800	97800	1.50	8.0	18.8	
8	0.678	4	0.503	0.20	0.199	6.19	8.89	68230	68580	98020	98510	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

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

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

Resident Engineer,
ESS-I-AAR Consultant, Dera Ghazi Khan

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

Client Reference: 425

SOM Lab

Ref: 2943(Page-1/1)

Dated: 14-07-2020

Dated: 11-09-2020

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.860	8	1.034	0.79	0.840	24.52	35.73	68440	64370	99750	93810	1.50	8.0	18.8	
2	2.814	8	1.026	0.79	0.827	24.31	35.85	67870	64840	100090	95610	1.40	8.0	17.5	
3	1.501	6	0.749	0.44	0.441	13.10	19.32	65660	65510	96830	96610	1.30	8.0	16.3	
4	1.489	6	0.747	0.44	0.438	13.20	19.27	66170	66470	96570	97010	1.30	8.0	16.3	
5	1.090	5	0.638	0.31	0.320	9.67	13.53	68830	66670	96240	93230	1.50	8.0	18.8	
6	1.089	5	0.638	0.31	0.320	9.73	13.63	69260	67100	96960	93930	1.40	8.0	17.5	
7	0.679	4	0.505	0.20	0.200	6.12	8.87	67450	67450	97800	97800	1.50	8.0	18.8	
8	0.678	4	0.503	0.20	0.199	6.19	8.89	68230	68580	98020	98510	1.40	8.0	17.5	
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BEND TEST:

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

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

Shahbir Anjum

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Project Manager, Shahan Brothers Engineers & Construction Lahore

Client Reference: Nil

SOM Lab

Ref:

2945(Page-1/1)

Dated: 11-09-2020

Dated:

11-09-2020

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	2.542	8	0.975	0.79	0.747	26.27	34.30	73340	77560	95760	101270	1.30	8.0	16.3	
2	1.503	6	0.750	0.44	0.442	15.77	20.46	79050	78690	102550	102080	1.40	8.0	17.5	
3	0.659	4	0.497	0.20	0.194	5.81	8.94	64080	66060	98580	101630	1.30	8.0	16.3	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six 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

Shahbir Anjum

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Project Manager, Shahan Brothers Engineers & Construction Lahore

Client Reference: Nil

SOM Lab

Ref:

2945(Page-1/1)

Dated: 11-09-2020

Dated:

11-09-2020

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	2.542	8	0.975	0.79	0.747	26.27	34.30	73340	77560	95760	101270	1.30	8.0	16.3	
2	1.503	6	0.750	0.44	0.442	15.77	20.46	79050	78690	102550	102080	1.40	8.0	17.5	
3	0.659	4	0.497	0.20	0.194	5.81	8.94	64080	66060	98580	101630	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six 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

Sub Divisional Officer
Buildings Sub Division Kamalia

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

Client Reference: 1015

SOM Lab

Ref: 2946(Page-1/1)

Dated: 26-08-2020

Dated: 11-09-2020

Test: Tension Test & Benf 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	1.485	6	0.745	0.44	0.436	12.79	19.54	64130	64710	97950	98850	1.40	8.0	17.5	
2	1.485	6	0.745	0.44	0.436	12.76	19.54	63970	64560	97950	98850	1.50	8.0	18.8	
3	0.662	4	0.498	0.20	0.195	6.37	9.04	70260	72060	99710	102260	1.20	8.0	15.0	
4	0.663	4	0.498	0.20	0.195	6.32	8.97	69700	71480	98920	101460	1.20	8.0	15.0	
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BEND TEST:

# 6	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

Sub Divisional Officer
Buildings Sub Division Kamalia

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

Client Reference: 1015

SOM Lab

Ref: 2946(Page-1/1)

Dated: 26-08-2020

Dated: 11-09-2020

Test: Tension Test & Benf 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	1.485	6	0.745	0.44	0.436	12.79	19.54	64130	64710	97950	98850	1.40	8.0	17.5	
2	1.485	6	0.745	0.44	0.436	12.76	19.54	63970	64560	97950	98850	1.50	8.0	18.8	
3	0.662	4	0.498	0.20	0.195	6.37	9.04	70260	72060	99710	102260	1.20	8.0	15.0	
4	0.663	4	0.498	0.20	0.195	6.32	8.97	69700	71480	98920	101460	1.20	8.0	15.0	
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BEND TEST:

# 6	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

Brigadier Muhammad Akhtar
(Retd.)

Project Director, New Metro City, Kharian Sarai Alamgir

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: PD/NMC/20/93

Dated: 03-09-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref:

2947(Page-1/1)

Dated:

11-09-2020

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.681	8	1.002	0.79	0.788	27.39	36.26	76470	76660	101230	101480	1.10	8.0	13.8	
2	1.438	6	0.734	0.44	0.423	16.79	21.02	84160	87540	105360	109590	1.10	8.0	13.8	
3	0.664	4	0.498	0.20	0.195	7.46	9.45	82290	84390	104200	106880	1.00	8.0	12.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six 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

Brigadier Muhammad Akhtar
(Retd.)

Project Director, New Metro City, Kharian Sarai Alamgir

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: PD/NMC/20/93

Dated: 03-09-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref:

2947(Page-1/1)

Dated:

11-09-2020

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.681	8	1.002	0.79	0.788	27.39	36.26	76470	76660	101230	101480	1.10	8.0	13.8	
2	1.438	6	0.734	0.44	0.423	16.79	21.02	84160	87540	105360	109590	1.10	8.0	13.8	
3	0.664	4	0.498	0.20	0.195	7.46	9.45	82290	84390	104200	106880	1.00	8.0	12.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six 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