

Rashid Majid
Regional Director, 8.2-Obst Ziehm International GMBH,

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

Client Reference: 8p2/ING/240
SOM Lab Ref: CED/SOM/935(Page-1/1)
Test: Tension Test & Bend Test
Sample Type: Deformed Bar

Dated: 30-05-2019
Dated: 10-06-2019
Test Specification: ASTM-A 615
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	0.888	12	12.00	113	113	57.20	67.90	506	507	600	601	32.5	200	16.3	
2	0.887	12	11.99	113	113	57.50	67.50	508	509	597	598	32.5	200	16.3	
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BEND TEST:

12mm	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 Adnan khalid®

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Dy Dir MTL, Extnt Elec Works U/G of IVY Green Sector-Z, - DHA , Ph-VIII - (M/S NLC)

Client Reference: 408/241/E/Lab/596/376

Dated: 28-05-2019

SOM Lab Ref: CED/SOM/936 (Page-1/1)

Dated: 10-06-2019

Test: Tension Test

Test Specification:

ASTM-F-1554

Sample Type: Anchor - Bolt

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	3.913	25	25.18	491	498	163.70	245.20	333	329	500	493	47.5	200	23.8	
2	4.055	25	25.64	491	517	176.20	256.00	359	342	522	496	50.0	200	25.0	
3	3.907	25	25.17	491	498	163.00	245.00	332	328	499	493	52.5	200	26.3	
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BEND TEST:

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

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

Major ® Pervez Akhtar
 Ess Ess Associates Engineering Consultants, Rawalpindi

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: nil

SOM Lab

Ref: 933(Page-1/1)

Dated: 29-05-2019

Dated: 10-06-2019

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	2.627	8	0.991	0.79	0.772	23.62	34.02	65940	67480	94970	97180	1.00	8.0	12.5	
2	2.637	8	0.993	0.79	0.775	23.04	32.79	64320	65560	91550	93320	0.90	8.0	11.3	
3	1.511	6	0.752	0.44	0.444	15.19	20.13	76130	75450	100910	100000	1.00	8.0	12.5	
4	1.502	6	0.749	0.44	0.441	16.16	20.97	80990	80800	105100	104860	1.20	8.0	15.0	
5	0.645	4	0.492	0.20	0.190	6.80	8.72	74980	78920	96110	101170	1.00	8.0	12.5	
6	0.647	4	0.492	0.20	0.190	6.60	8.53	72730	76560	94090	99040	1.00	8.0	12.5	
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BEND TEST:

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

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

Gujranwala Development Authority Gujranwala

Client Reference: GDA/ADE/57

SOM Lab

Ref: 934(Page-1/1)

Dated: 27-05-2019

Dated: 10-06-2019

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	0.605	4	0.476	0.20	0.178	6.32	8.15	69700	78310	89930	101040	1.00	8.0	12.5	
2	0.601	4	0.475	0.20	0.177	6.42	8.28	70820	80020	91280	103140	0.90	8.0	11.3	
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BEND TEST:

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

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

Test Performed By: Dr. S. Asad Ali Gillani

Maj Adnan Khalid (R)

Dy MTL DHA, Extnl Elec. Works (U/G) IVY Green

Sector -Z, at DHA Ph -VIII (M/S NLC

Client Reference: 408/241/E/596/376

SOM Lab Ref: 936 (Page-1/1)

Dated: 28-05-2019

Dated: 10-06 -2019

Test: Tension Test

Test Specification: ASTM-F-1554

Guage Length: 200 mm

Sample Type: Anchor-Bolt (25 mm)

S.No.	Weight	Dia.	Area	Yield	Ultimate	Yield Stress	Ultimate. Stress	Elongation	Gauge Length	%age Elongation	Reduction of Area(%)
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		Nominal	Calculated	Nominal	Calculated	Load	Load	(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	3.913	25	25.18	491	498	163.70	245.20	333	329	500	493	47.5	200	23.8	38.2
2	4.055	25	25.64	491	517	176.20	256.00	359	342	522	496	50.0	200	25.0	48.5
3	3.907	25	25.17	491	498	163.00	245.00	332	328	499	493	52.5	200	26.3	46.0
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										Note:-					
										Only Three Samples Received and Tested					
Note: Please always confirm the results of above report on web www.uet-civil.edu.pk															

