STRUCTURAL ENGINEERING DIVISION

Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
NESPAK
M. Garh – D.G Khan Road

Reference # CED/TFL **32929** (Dr. M Rizwan Riaz) Dated: 26-03-2019
Reference of the request letter # 3949/HA/01/184 Dated: 14-01-2019

Tension Test Report (Page – 1/2)

Date of Test 02-04-2019
Gauge length 2 inches
Description Expansion Joint Alloy Aluminium Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm^2)	(kN)	(kN)	(MPa)	(MPa)	(in)		
1	Alloy Aluminium	29.00x3.10	89.90	36.86	41.75	410.01	464.40	0.30	15.00	
2		29.20x3.10	90.52	36.66	41.90	404.99	462.88	0.30	15.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	

Only Two Samples for Tensile Test

Bend Test

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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2. The above results pertain to sample /samples supplied to this laboratory.
3- Sealed sample / Unsealed sample / Marked sample/Signed Samples

STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Manageers Projects
Allied Engineering Consultants (Pvt) Ltd
Revamping of DHQ/THQ Hospitals, Punjab Package-5 (A&B)

Reference # CED/TFL **32952** (Dr. M Rizwan Riaz) Dated: 28-03-2019
Reference of the request letter # AEC/LHR-1/2019/318 Dated: 25-03-2019

Tension Test Report (Page – 1/1)

Date of Test 02-04-2019
Gauge length 2 inches
Description C-Channel Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)	(mm)	(mm^2)	(kN)	(kN)	(MPa)	(MPa)	(in)		
1	**C-Channel**	**25.50x0.70**	**17.85**	**5.07**	**6.15**	**284.03**	**344.54**	**0.60**	**30.00**	
2		**25.50x0.70**	**17.85**	**5.25**	**6.30**	**294.12**	**352.94**	**0.60**	**30.00**	
-	-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION

Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Sub Divisional Officer
Buildings Sub Division
Kamalia
(Up-Gradation of Govt. Girls Elementary School 685/26 to High Level In District T.T. Singh)

Reference # CED/TFL **32964** (Dr. Waseem Abbas) Dated: 01-04-2019
Reference of the request letter # 144 Dated: 28-03-2019

Tension Test Report

(Page -1/1)

Date of Test 02-04-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.350	3/8	0.362	0.11	0.103	3100	3800	62200	66370	76200	81400	1.50	18.8	
2	0.354	3/8	0.364	0.11	0.104	2400	3100	48100	50830	62200	65700	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION

Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S Defence Housing Authority.
Lahore Cantt
(Const of 2 Kanal Villas at DRGCC PH-III, DHA PH-VI)(M/s Construct)

Reference # CED/TFL **32966** (Dr. Waseem Abbas) Dated: 01-04-2019
Reference of the request letter # 408/241/E/Lab/495/21 Dated: 27-03-2019

Tension Test Report (Page -1/2)

Date of Test 02-04-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.372	3	0.373	0.11	0.109	3500	4700	70200	70550	94200	94800	1.40	17.5	Kamran Steel
2	0.367	3	0.370	0.11	0.108	3700	4800	74200	75680	96200	98200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION

Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S Defence Housing Authority.
Lahore Cantt
(Proposed Commercial Plaza, DRGCC Ph-III, DHA PH-VI)(M/s Construct)

Reference # CED/TFL **32966** (Dr. Waseem Abbas) Dated: 01-04-2019
Reference of the request letter # 408/241/E/Lab/496/1902 Dated: 27-03-2019

Tension Test Report (Page -2/2)

Date of Test 02-04-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.365	3	0.370	0.11	0.107	3800	4900	76200	77990	98200	100600	1.10	13.8	Kamran Steel
2	0.371	3	0.372	0.11	0.109	3400	4800	68200	68770	96200	97100	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION

Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S Defence Housing Authority.
Lahore Cantt
(Proposed Commercial Plaza, DRGCC Ph-III, DHA PH-VI)(M/s Construct)
Reference # CED/TFL **32967** (Dr. Waseem Abbas) Dated: 01-04-2019
Reference of the request letter # 408/241/E/Lab/504/21 Dated: 29-03-2019

Tension Test Report (Page -1/1)

Date of Test 02-04-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.379	3	0.377	0.11	0.111	4400	5200	88200	87100	104200	103000	1.10	13.8	ASG Steel
2	0.377	3	0.375	0.11	0.111	4300	5100	86200	85610	102200	101600	0.90	11.3	
3	0.368	3	0.371	0.11	0.108	4100	4800	82200	83520	96200	97800	1.00	12.5	
4	0.372	3	0.373	0.11	0.109	4100	4700	82200	82730	94200	94900	1.00	12.5	
5	0.368	3	0.371	0.11	0.108	4100	4800	82200	83510	96200	97800	1.10	13.8	
6	0.373	3	0.374	0.11	0.110	4100	4900	82200	82350	98200	98500	1.00	12.5	
7	0.389	3	0.382	0.11	0.114	3600	5000	72200	69330	100200	96300	1.60	20.0	Kamran Steel
8	0.370	3	0.372	0.11	0.109	3500	4900	70200	70890	98200	99300	1.30	16.3	
Note: only eight samples for tensile and four samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														
#3 Bar Bend Test Through 180º is Satisfactory														
#3 Bar Bend Test Through 180º is Satisfactory														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION

Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Project Manager
Ibrahim Fibers Limited, Faisalabad
Over Head Water Tank at IFL-TP-2

Reference # CED/TFL **32968** (Dr. Waseem Abbas) Dated: 01-04-2019
Reference of the request letter # Nil Dated: 01-04-2019

Tension Test Report (Page -1/1)

Date of Test 02-04-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.365	3/8	0.369	0.11	0.107	3600	4600	72200	74010	92200	94600	0.90	11.3	
2	0.364	3/8	0.369	0.11	0.107	3500	4500	70200	72170	90200	92800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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STRUCTURAL ENGINEERING DIVISION

Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
Dar Engineering
Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore Pakistan
(Heat No. P-574 – Kamran Steel)

Reference # CED/TFL **32972** (Dr. Waseem Abbas) Dated: 01-04-2019
Reference of the request letter # DB-78/DAR/RE/ME/2019/0189 Dated: 01-04-2019

Tension Test Report (Page -1/1)

Date of Test 02-04-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.366	3	0.370	0.11	0.107	3500	4800	70200	71800	96200	98500	1.20	15.0	
2	0.369	3	0.372	0.11	0.108	3600	4900	72200	73160	98200	99600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION

Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
NESPAK
Construction of Under Passes at Kashmir Bridge along Canal Faisalabad
(Kisan Steel)
Reference # CED/TFL **32973** (Dr. Waseem Abbas) Dated: 01-04-2019
Reference of the request letter # 3994/103/AS/01/86 Dated: 30-03-2019

Tension Test Report (Page -1/1)

Date of Test 02-04-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.377	3	0.376	0.11	0.111	3200	5000	64200	63660	100200	99500	1.20	15.0	
2	0.376	3	0.375	0.11	0.111	3100	4900	62200	61790	98200	97700	1.20	15.0	
3	5.237	11	1.400	1.56	1.539	46400	70200	65600	66440	99200	100600	1.30	16.3	
4	5.274	11	1.405	1.56	1.550	45800	69400	64800	65120	98100	98700	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only four samples for tensile and four samples for bend test

Bend Test
#3 Bar Bend Test Through 180º is Satisfactory
#3 Bar Bend Test Through 180º is Satisfactory
#11 Bar Bend Test Through 180º is Satisfactory
#11 Bar Bend Test Through 180º is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION

Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
NESPAK
Dualization of Sammundri Rajana Toba Tek Singh Road (Section from Sammundri to District Boundary Faisalabad (M/s RBS G-60)

Reference # CED/TFL **32975** (Dr. Waseem Abbas) Dated: 01-04-2019
Reference of the request letter # 3872/103/AR/01/1162 Dated: 25-03-2019

Tension Test Report

Date of Test 02-04-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.376	3	0.375	0.11	0.111	2700	3600	54100	53810	72200	71800	1.00	12.5	
2	0.376	3	0.375	0.11	0.110	2700	3800	54100	53870	76200	75900	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION

Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Manager Civil
US Denim Mills (Pvt) Ltd
Lahore
(Kanran Steel)

Reference # CED/TFL **32976** (Dr. Waseem Abbas) Dated: 02-04-2019
Reference of the request letter # US Real/CIV/Izmir/01 Dated: 30-03-2019

Tension Test Report (Page -1/1)

Date of Test 02-04-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.374	3	0.374	0.11	0.110	3400	4800	68200	68250	96200	96400	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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