

Sheikh Maqbool Hassan, RE
Nespak Lahore.(Const Of 8-Lane overhead Bridge at Imamia Colony)

Test Performed By: Dr. /Engr. Irfan UI Hassan

Client Reference: RE/4537/02/MH/136

Dated: 30-10-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 3106 (Page-1a/1)

Dated: 01-11-2023

ASTM-A-615

Deformed Bar (Mughal 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	2.609	8	0.988	0.79	0.767	25.38	32.95	70860	72990	91980	94740	1.50	8.0	18.8	
2	2.622	8	0.991	0.79	0.771	28.64	35.78	79970	81940	99890	102350	1.40	8.0	17.5	
3	1.452	6	0.737	0.44	0.427	14.48	18.25	72560	74770	91460	94250	1.40	8.0	17.5	
4	1.476	6	0.743	0.44	0.434	14.27	19.16	71540	72520	96060	97390	1.10	8.0	13.8	
5	1.036	5	0.622	0.31	0.304	10.50	13.32	74700	76170	94790	96660	1.10	8.0	13.8	
6	1.037	5	0.623	0.31	0.305	10.60	13.35	75420	76660	95000	96560	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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	
# 5	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

Sheikh Maqbool Hassan, RE
Nespak Lahore.(Const Of 8-Lane overhead Bridge at Imamia Colony)

Test Performed By: Dr. /Engr. Irfan UI Hassan

Client Reference: RE/4537/02/MH/136

Dated: 30-10-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 3106 (Page-1b/1)

Dated: 01-11-2023

ASTM-A-615

Deformed Bar (Mughal 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	0.657	4	0.496	0.20	0.193	6.73	8.72	74190	76880	96110	99600	1.00	8.00	12.5	
2	0.655	4	0.494	0.20	0.192	6.47	8.41	71380	74360	92740	96600	1.10	8.00	13.8	
3	0.647	4	0.492	0.20	0.190	6.52	8.66	71940	75730	95550	100580	1.00	8.00	12.5	
4	0.656	4	0.496	0.20	0.193	6.53	8.63	72060	74670	95210	98660	1.10	8.00	13.8	
5	0.653	4	0.494	0.20	0.192	6.52	8.61	71940	74940	94990	98940	1.10	8.00	13.8	
6	0.652	4	0.494	0.20	0.192	6.42	8.28	70820	73770	91280	95080	1.00	8.00	12.5	
7	0.658	4	0.496	0.20	0.193	6.68	8.74	73630	76300	96340	99830	1.00	8.00	12.5	
8	0.654	4	0.494	0.20	0.192	6.34	8.31	69920	72830	91610	95430	1.10	8.00	13.8	
9	0.653	4	0.494	0.20	0.192	6.52	8.66	71940	74940	95550	99530	1.20	8.00	15.0	
10	0.657	4	0.496	0.20	0.193	6.49	8.43	71610	74200	92960	96340	1.20	8.00	15.0	

BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Fifteen Samples Received and Tested
# 4	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	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

Sheikh Maqbool Hassan, RE
Nespak Lahore.(Const Of 8-Lane overhead Bridge at Imamia Colony)

Test Performed By: Dr. /Engr. Irfan UI Hassan

Client Reference: RE/4537/02/MH/136

Dated: 30-10-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 3106 (Page-1c/1)

Dated: 01-11-2023

ASTM-A-615

Deformed Bar (Mughal 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	0.658	4	0.496	0.20	0.193	6.73	8.84	74190	76880	97460	100990	0.90	8.0	11.3	
2	0.653	4	0.494	0.20	0.192	6.49	8.66	71610	74590	95550	99530	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

# 4	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

Saifullah Amin, Sn RE

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

Nespak Sialkot.(PICIIP)(Watsan Sialkot,NCB-Works/PICIIP-11, Lot-01&2)

Client Reference: Nespak/SA/PCSIR/L1/L2/383A

SOM Lab

Ref: 3107 (Page-1/4)

Dated: 26-10-2023

Dated: 01-11-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Def.Bar (Sheikhoo 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	0.666	4	0.500	0.200	0.196	5.66	8.23	62390	63660	90720	92570	1.20	8.0	15.0	
2	0.666	4	0.500	0.200	0.196	5.66	8.21	62390	63660	90490	92340	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

# 4	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

Saifullah Amin, Sn RE

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

Nespak Sialkot.(PICIIP)(Watsan Sialkot,NCB-Works/PICIIP-11, Lot-01)

SOM Lab

Client Reference: Nespak/SA/UET/L1/L2/373

Ref: 3107 (Page-2/4)

Dated: 12-10-2023

Dated: 01-11-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Def.Bar (Diamond Supreme Isb)

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	0.668	4	0.500	0.20	0.196	6.60	9.60	72730	74210	105890	108050	1.00	8.00	12.5	
2	0.672	4	0.501	0.20	0.197	7.24	9.30	79810	81030	102520	104080	1.20	8.00	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

# 4	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

Saifullah Amin, Sn RE
Nespak Sialkot.(PICIIP)(Watsan Sialkot,NCB-Works/PICIIP-11, Lot-01)

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

Client Reference: Nespak/SA/UET/L1/L2/001

Dated: 24-10-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 3107 (Page-3/4)

Dated: 01-11-2023

ASTM-A-615
Def.Bar (Aziz
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	0.670	4	0.501	0.20	0.197	6.09	9.38	67110	68130	103420	104990	1.00	8.00	12.5	
2	0.671	4	0.501	0.20	0.197	5.98	9.30	65990	66990	102520	104080	1.10	8.00	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

# 4	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

Saifullah Amin, Sn RE

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

Nespak Sialkot.(PICIIP)(Watsan Sialkot,NCB-Works/PICIIP-11, Lot-01&2)

SOM Lab

Client Reference: Nespak/SA/PCSIR/L1/L2/370

Ref: 3107 (Page-4a/4)

Dated: 10-10-2023

Dated: 01-11-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Def.Bar (Mughal Supreme)

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	0.673	4	0.502	0.20	0.198	6.98	9.17	77000	77780	10170	102190	1.00	8.00	12.5	
2	0.674	4	0.502	0.20	0.198	7.05	9.12	77790	78570	100610	101620	1.00	8.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

# 4	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

Saifullah Amin, Sn RE

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

Nespak Sialkot.(PICIIP)(Watsan Sialkot,NCB-Works/PICIIP-11, Lot-01&2)

SOM Lab

Client Reference: Nespak/SA/PCSIR/L1/L2/370

Ref: 3107 (Page-4b/4)

Dated: 10-10-2023

Dated: 01-11-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Def.Bar (Islamabad
Supreme)

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	0.668	4	0.500	0.20	0.196	4.66	7.29	51370	52420	80370	82010	1.10	8.0	13.8	
2	0.671	4	0.501	0.20	0.197	4.69	7.36	51710	52500	81160	82400	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

# 4	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

Acrow Consultant Engineers

Test Performed By: Dr. /Engr. Bilal Khokhar

RE Acrow Consultant Engineers Lahore.(Const Of Appartments Building at B-45 Gulberg III Lhr)

Client Reference: AC/B-45/09

SOM Lab

Ref: 3108 (Page-1/1)

Dated: 31-10-2023

Dated: 01-11-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	1.539	6	0.759	0.44	0.452	12.66	19.16	63460	61780	96060	93510	1.20	8.0	15.0	
2	1.562	6	0.764	0.44	0.459	12.86	19.49	64480	61820	97690	93650	1.30	8.0	16.3	
3	0.651	4	0.493	0.20	0.191	5.88	9.28	64860	67920	102290	107110	1.10	8.0	13.8	
4	0.648	4	0.492	0.20	0.190	5.88	9.30	64860	68280	102520	107910	0.80	8.0	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Engineer Muhammad Irfan
Asst Dir Infra. DHA Gujranwala.(Main Boulevard Extension)

Test Performed By: Dr. /Engr. Irfan UI Hassan

Client Reference: 111/15/AD/RS/Lab/MBE/197

Dated: 31-10-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 3109 (Page-1/2)

Dated: 01-11-2023

ASTM-A-615

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	1.458	6	0.738	0.44	0.428	14.07	18.98	70510	72490	95140	97810	1.30	8.0	16.3	
2	1.469	6	0.742	0.44	0.432	13.97	19.06	70000	71300	95550	97320	1.20	8.0	15.0	
3	0.658	4	0.496	0.20	0.193	7.14	9.70	78690	81540	107010	110900	0.90	8.0	11.3	
4	0.655	4	0.494	0.20	0.192	7.10	9.38	78350	81620	103420	107730	1.00	8.0	12.5	
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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

Engineer Muhammad Irfan
Asst Dir Infra. DHA Gujranwala.(Main Boulevard Extension)

Test Performed By: Dr. /Engr. Bilal Khokhar

Client Reference: 111/15/AD/RS/Lab/MBE/164

Dated: 16-10-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 3109 (Page-2/2)

Dated: 01-11-2023

ASTM-A-615

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	1.479	6	0.744	0.44	0.435	13.51	18.76	67700	68480	94020	95100	1.40	8.0	17.5	
2	1.472	6	0.743	0.44	0.433	14.29	19.34	71640	72800	96930	98500	1.30	8.0	16.3	
3	0.670	4	0.501	0.20	0.197	6.49	8.69	71610	72700	95770	97230	1.30	8.0	16.3	
4	0.653	4	0.494	0.20	0.192	6.34	8.92	69920	72830	98360	102460	1.30	8.0	16.3	
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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

Engineer Muhammad Irfan
Asst Dir Infra. DHA Gujranwala.(Main Boulevard Extension)

Test Performed By: Dr. /Engr. Irfan UI Hassan

Client Reference: 111/15/AD/RS/Lab/MBE/128

Dated: 28-09-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 3110 (Page-1/2)

Dated: 01-11-2023

ASTM-A-615

Deformed Bar (SJ

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	1.495	6	0.748	0.44	0.439	12.84	17.09	64380	64530	85690	85880	1.40	8.0	17.5	
2	1.500	6	0.749	0.44	0.441	13.35	17.20	66940	66780	86200	86000	1.50	8.0	18.8	
3	0.671	4	0.501	0.20	0.197	6.51	8.87	71830	72930	97800	99290	1.00	8.0	12.5	
4	0.673	4	0.502	0.20	0.198	6.73	8.94	74190	74940	98580	99580	1.10	8.0	13.8	
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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

Engineer Muhammad Irfan
Asst Dir Infra. DHA Gujranwala.(Main Boulevard Extension)

Test Performed By: Dr. /Engr. Irfan UI Hassan

Client Reference: 111/15/AD/RS/Lab/MBE/168

Dated: 16-10-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 3110 (Page-2/2)

Dated: 01-11-2023

ASTM-A-615

Deformed Bar (SJ

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	0.673	4	0.502	0.20	0.198	7.24	9.19	79810	80620	101390	102420	1.00	8.00	12.5		
2	0.668	4	0.500	0.20	0.196	6.68	8.61	73630	75130	94990	96930	1.00	8.00	12.5		
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BEND TEST:

# 4	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

Jawad Qayyum Khan,RE

Test Performed By: Dr. /Engr. Bilal Khokhar

Nespak Sahiwal.(Const Of Bypass Royal Hotel To Sarwar Chowk Via Ada Mai Wali Masjid)

Client Reference: 4267/Sahiwal/ADP/Flyover/JQ/104

SOM Lab

Ref: 3112 (Page-1/1)

Dated: 28-10-2023

Dated: 01-11-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Sheikhoo 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	2.009	7	0.867	0.60	0.590	19.13	25.79	70330	71520	94800	96410	1.60	8.00	20.0	
2	1.999	7	0.865	0.60	0.587	19.03	25.81	69960	71510	94870	96980	1.40	8.00	17.5	
3	1.033	5	0.622	0.31	0.304	9.50	12.74	67590	68930	90650	92440	1.20	8.00	15.0	
4	1.031	5	0.621	0.31	0.303	10.27	13.25	73030	74720	94280	96460	1.10	8.00	13.8	
5	0.662	4	0.498	0.20	0.195	5.56	7.41	61270	62840	81720	83820	1.20	8.00	15.0	
6	0.668	4	0.500	0.20	0.196	5.68	7.56	62610	63890	83410	85110	1.30	8.00	16.3	
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BEND TEST:

# 7	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
# 5	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

Jawad Qayyum Khan
Resident Engineer,
NESPAK Sahiwal.

Test Performed by: S. Asad Ali Gillani

Project: Construction of Bypass from ROYAL HOTEL to Sarwar Chowk Via Ada Mai Wali Masjid. (Construction of Flyover Bridge Over Railway Track LBDC and N-5 Distt Sahiwal)

Client Reference No.: 4267/Sahiwal/ADP/Flyover/JQ/97

Dated: 17-10-2023

SOM Lab Ref: CED/SOM/3111-3149 (Page 1/2)

Dated: 01-11-2023

Test Type: Load Test

Sample Type: Saw Tooth Type Metallic Expansion Joint

Test Standard: Non-standard Test

Load Test Results

Sr. No.	Sample Type	Max Load (kN)	Remarks
1	As mentioned above	106.0	Maximum load carried by one tooth of expansion joint

Load-Deflection Data

Load, kN	0	10	20	30	40	50	60	70	80	90	99
Deflection, mm	0	0.38	0.79	1.27	1.67	2.18	2.72	3.45	4.57	5.64	9.27

Note: Dial gauge was removed after 99 load for safety purpose

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

Jawad Qayyum Khan
Resident Engineer,
NESPAK Sahiwal.

Test Performed by: S. Asad Ali Gillani

Project: Construction of Bypass from ROYAL HOTEL to Sarwar Chowk Via Ada Mai Wali Masjid. (Construction of Flyover Bridge Over Railway Track LBDC and N-5 Distt Sahiwal)

Client Reference No.: 4267/Sahiwal/ADP/Flyover/JQ/97

Dated: 17-10-2023

SOM Lab Ref: CED/SOM/3111-3149 (Page 2/2)

Dated: 01-11-2023

Test Type: Tension Test (Aluminum)

Sample Type: Saw Tooth Type Metallic Expansion Joint

Tension Test Results

Sr. No.	Sample Size	Area (mm ²)	Yield Load (kN)	Ultimate Load (kN)	Yield Strength (MPa)	Ultimate Strength (MPa)	Elongation (%)
1	5.8 x 4.10	23.78	5.85	7.60	246.0	319.59	20.0
2	5.7 x 3.50	19.95	4.90	6.35	245.61	318.29	25.0

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

