



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 Ann Global Private Limited
Lahore

Reference # CED/TFL **35949** (Dr. Ali Ahmed)
Reference of the request letter # ANN/UET/21/01

Dated: 18-01-2021

Dated: 15-01-2021

Tension Test Report (Page – 1/1)

Date of Test 20-01-2021

Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3/8")	432.0	444.0	10300	101.04	11100	108.89	>3.50	xx
2	9.53 (3/8")	432.0	439.0	10300	101.04	11200	109.87	>3.50	xx
3	11.11 (7/16")	582.0	600.0	12600	123.61	14500	142.25	>3.50	xx
4	11.11 (7/16")	582.0	593.0	12900	126.55	14100	138.32	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Only four samples for Test

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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To,
Resident Engineer
AZ Engineering Associates
Dualization of Sargodha Mianwali Road (Phase-I) Group-III, from km 267.77 to 268.07 (Bridge & Approaches) in District Mianwali (WMI)
Reference # CED/TFL **35951** (Dr. Ali Ahmed) Dated: 18-01-2021
Reference of the request letter # RE/MWI-140 Dated: 31-12-2020

Tension Test Report (Page – 1/3)

Date of Test 20-01-2021
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa		
1	12.70 (1/2")	775.0	783.0	17800	174.62	19200	188.35	198	>3.50	xx
2	12.70 (1/2")	775.0	781.0	17800	174.62	19500	191.30	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only two samples for Test										

Note:

1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

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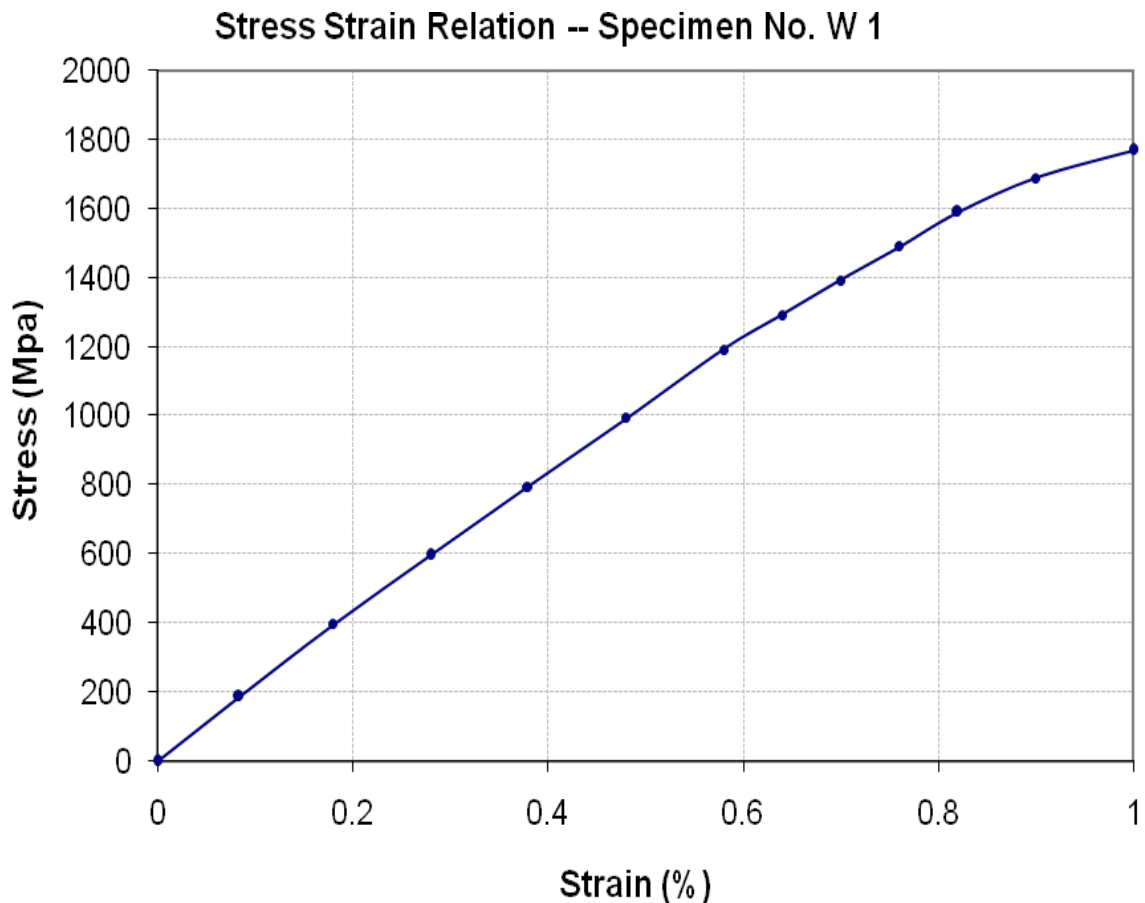
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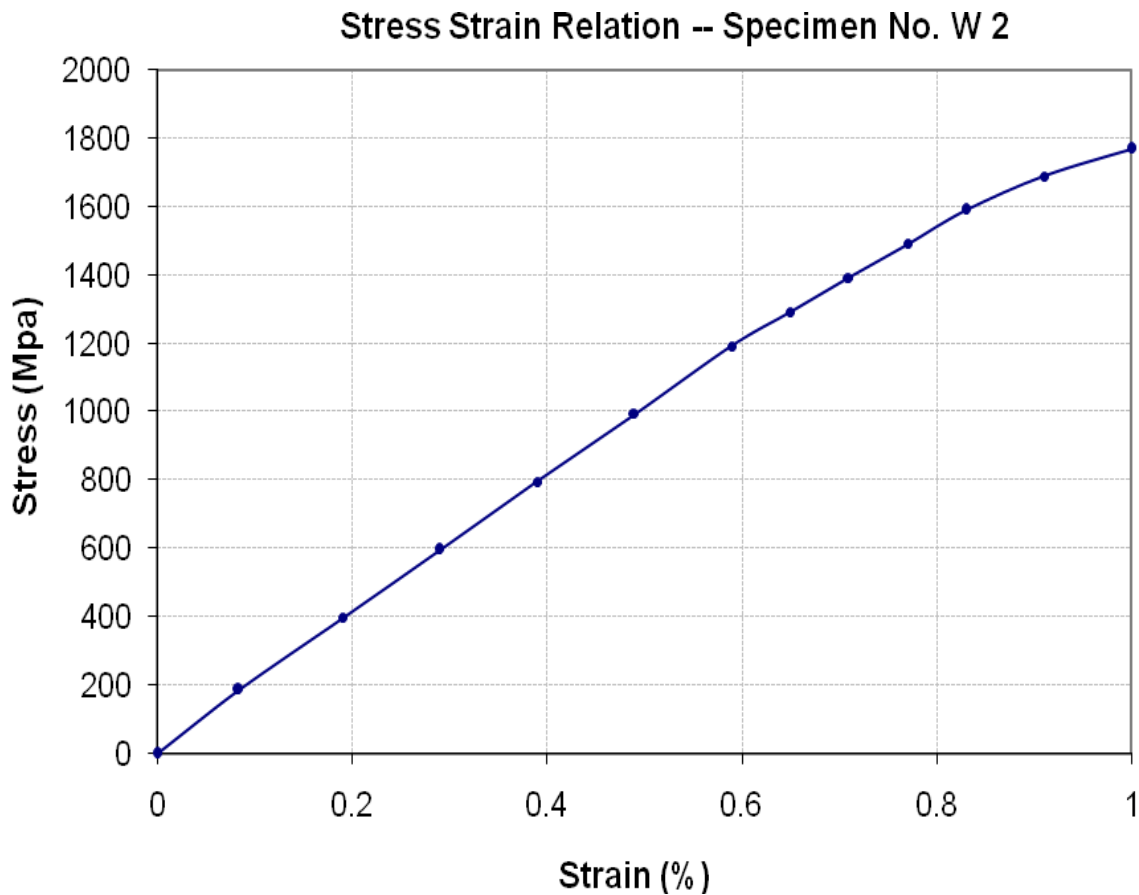
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