

# 1.103 CIVIL ENGINEERING MATERIALS LABORATORY (1-2-3)

## COMPRESSION TESTING AND ANISOTROPY OF WOOD

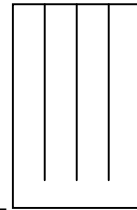
### DATA SHEET (1 of 2)

All dimensions in mm Group No. Subgroup A2 Date 3/30/04

Measurement Device	Vertical Force	Actuator. LVDT	Extensometer
Calibration. Factor	<u>25KN/V</u>	<u>12.7 mm/V</u>	<u>5%/V</u>
DAQ Channel	<u>4</u>	<u>3</u>	<u>2</u>
Input Voltage	<u>1</u>	<u>1</u>	<u>1</u>

Test Description 0 degree File Name A2W0  
 Specimen Height 74.66 , 74.63 , 74.61  
 Specimen Dia. 37.63 , 37.12 , 37.09 , 37.01  
 Specimen Mass 47.37 (gm) Zero Load \_\_\_\_\_  
 Zero Extens. \_\_\_\_\_ Zero Act. LVDT \_\_\_\_\_  
 Failure Angle 38 Failure Mode combined shear ?splitting

Before

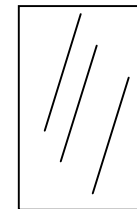


After



Test Description 15 degree File Name A2W15  
 Specimen Height 74.56 , 74.73 , 74.74  
 Specimen Dia. 37.69 , 37.68 , 37.68 , 37.74  
 Specimen Mass 48.43 (gm) Zero Load \_\_\_\_\_  
 Zero Extens. \_\_\_\_\_ Zero Act. LVDT \_\_\_\_\_  
 Failure Angle 17 Failure Mode sliding shear

Before

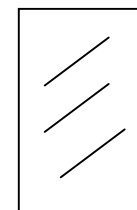


After



Test Description 45 degree File Name A2W45  
 Specimen Height 74.10 , 74.21 , 73.94  
 Specimen Dia. 37.59 , 37.59 , 37.59 , 77.71  
 Specimen Mass 44.49 (gm) Zero Load \_\_\_\_\_  
 Zero Extens. \_\_\_\_\_ Zero Act. LVDT \_\_\_\_\_  
 Failure Angle 41 Failure Mode General shear/slip surf.

Before

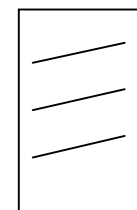


After



Test Description 75 degree File Name A2W75  
 Specimen Height 73.69 , 73.32 , 73.58  
 Specimen Dia. 37.15 , 37.57 , 37.84 , 38.10  
 Specimen Mass 43.12 (gm) Zero Load \_\_\_\_\_  
 Zero Extens. \_\_\_\_\_ Zero Act. LVDT \_\_\_\_\_  
 Failure Angle N/A Failure Mode Crushing soft layers

Before




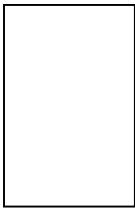

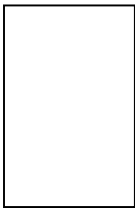

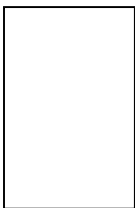

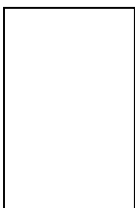

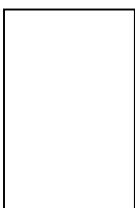
After



# 1.103 CIVIL ENGINEERING MATERIALS LABORATORY (1-2-3)

## COMPRESSION TESTING AND ANISOTROPY OF WOOD

### DATA SHEET (2 of 2)

Test Description _____ File Name _____	Before	After
Specimen Height _____ , _____ , _____		
Specimen Dia. _____ , _____ , _____ , _____		
Specimen Mass _____ (gm) Zero Load _____		
Zero Extens. _____ Zero Act. LVDT _____		
Failure Angle _____ Failure Mode _____		
Test Description _____ File Name _____	Before	After
Specimen Height _____ , _____ , _____		
Specimen Dia. _____ , _____ , _____ , _____		
Specimen Mass _____ (gm) Zero Load _____		
Zero Extens. _____ Zero Act. LVDT _____		
Failure Angle _____ Failure Mode _____		
Test Description _____ File Name _____	Before	After
Specimen Height _____ , _____ , _____		
Specimen Dia. _____ , _____ , _____ , _____		
Specimen Mass _____ (gm) Zero Load _____		
Zero Extens. _____ Zero Act. LVDT _____		
Failure Angle _____ Failure Mode _____		
Test Description _____ File Name _____	Before	After
Specimen Height _____ , _____ , _____		
Specimen Dia. _____ , _____ , _____ , _____		
Specimen Mass _____ (gm) Zero Load _____		
Zero Extens. _____ Zero Act. LVDT _____		
Failure Angle _____ Failure Mode _____		
Test Description _____ File Name _____	Before	After
Specimen Height _____ , _____ , _____		
Specimen Dia. _____ , _____ , _____ , _____		
Specimen Mass _____ (gm) Zero Load _____		
Zero Extens. _____ Zero Act. LVDT _____		
Failure Angle _____ Failure Mode _____		