

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 B1 Date 3/31/04

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 B1W0 Before After

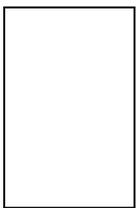
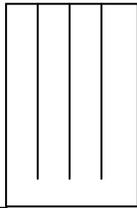
Specimen Height 74.90 , 74.64 , 74.62

Specimen Dia. 36.94 , 36.97 , 36.96 , 36.89

Specimen Mass 47.42 (gm) Zero Load _____

Zero Extens. _____ Zero Act. LVDT _____

Failure Angle 48 Failure Mode combined shear ?splitting



Test Description 30 degree File Name B!W30 Before After

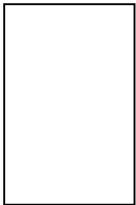
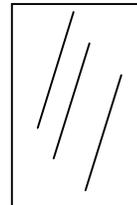
Specimen Height 73.93 , 74.26 , 74.36

Specimen Dia. 37.23 , 37.38 , 37.26 , 37.04

Specimen Mass 45.58 (gm) Zero Load _____

Zero Extens. _____ Zero Act. LVDT _____

Failure Angle 29 Failure Mode sliding shear



Test Description 60 degree File Name B1W60 Before After

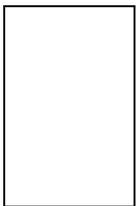
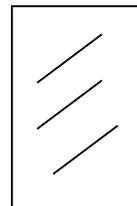
Specimen Height 73.92 , 73.98 , 74.22

Specimen Dia. 37.90 , 37.97 , 37.61 , _____

Specimen Mass 44.53 (gm) Zero Load _____

Zero Extens. _____ Zero Act. LVDT _____

Failure Angle 58 Failure Mode General shear.



Test Description 90 degree File Name B!W90 Before After

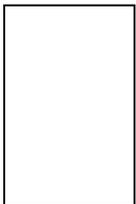
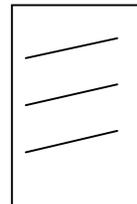
Specimen Height 73.83 , 73.69 , 73.71

Specimen Dia. 37.26 , 37.01 , 37.30 , 38.18

Specimen Mass 45.03 (gm) Zero Load _____

Zero Extens. _____ Zero Act. LVDT _____

Failure Angle 82 Failure Mode Crushing soft layers



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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 _____		
