

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 Before After

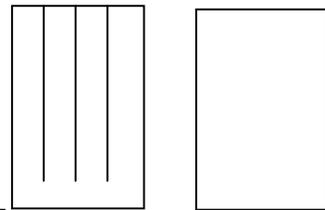
Specimen Height 74.66 , 74.63 , 74.61

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



Test Description 15 degree File Name A2W15 Before After

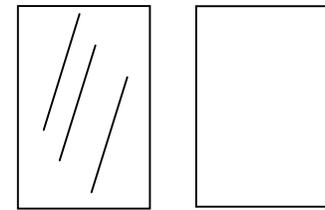
Specimen Height 74.56 , 74.73 , 74.74

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



Test Description 45 degree File Name A2W45 Before After

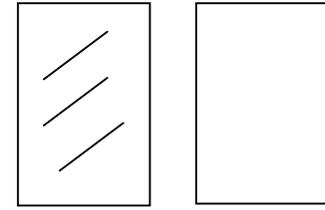
Specimen Height 74.10 , 74.21 , 73.94

Specimen Dia. 37.59 , 37.59 , 37.59 , 37.71

Specimen Mass 44.49 (gm) Zero Load _____

Zero Extens. _____ Zero Act. LVDT _____

Failure Angle 41 Failure Mode General shear/slip surf.



Test Description 75 degree File Name A2W75 Before After

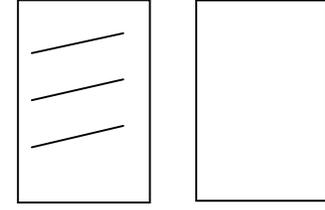
Specimen Height 73.69 , 73.32 , 73.58

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



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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 _____		
