

UNCONFINED COMPRESSIVE STRENGTH of INTACT NUT SHELL SPECIMENS

ASTM D 7012-07 Method C (Modified) SOP S-45

CLIENT: GEOTECHNICS
 CLIENT PROJ: SHELL STRENGTH
 PROJECT NO.: 2010-001-01
 LAB ID NO.: 2010-001-01-04

SAMPLE ID: BRAZILIAN
 AKA: CREAM NUT
 GENUS: *Bertholletia excelsa*

SPECIMEN LENGTH (in.)

BEFORE CAPPING

READING 1: 2.28
 READING 2: 2.28
 READING 3: 2.28
AVERAGE: 2.28

SPECIMEN LENGTH (in.)

AFTER CAPPING

READING 1: 2.28
 READING 2: 2.28
 READING 3: 2.28
AVERAGE: 2.28

SPECIMEN DIAMETER(in.):

READING 1: 1.08
 READING 2: 1.08
AVERAGE: 1.08
 AREA(in²): 0.91
 L/D: 2.12

TOTAL LOAD(lbs) 272
COMPRESSIVE STRENGTH (PSI): 300

(1) CORRECTION (PSI): 300

FRACTURE TYPE: **SPLIT**

RATE OF LOADING(lbs/sec): 3
 TIME TO BREAK(min:sec.): 1:43.22

DEVIATION FROM STRAIGHTNESS⁴:

AXIAL: *Pass* TOP: *Pass* BOTTOM: *Pass*

NOTES: 1) Corrected PSI value for L/D >2.00, as per ASTM D 7012-04. [failure stress/(0.88 + 0.222 * (d/l))]

- 2) Moisture conditions at time of test are as received.
 - 3) Specimens capped with cement/plaster paste.
 - 4) Deviation from straightness, Procedure A of ASTM D 4543.
 - 5) Temperature is laboratory room temperature.
- Pass/Fail criteria: gap < 0.02 = Pass, gap > 0.02 = Fail



PHYSICAL DESCRIPTION: BRAZILIAN

Notes:

Tested By: JAC

Date: 02/26/10

Checked By: *HR*

Date: 4-7-10