

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.: 2010-001-01-03

SAMPLE ID: HAZELNUT
 AKA: FILBERT
 GENUS: *Corylus*

SPECIMEN LENGTH (in.)

BEFORE CAPPING

READING 1: 0.91
 READING 2: 0.91
 READING 3: 0.91
AVERAGE: 0.91

SPECIMEN LENGTH (in.)

AFTER CAPPING

READING 1: 0.91
 READING 2: 0.91
 READING 3: 0.91
AVERAGE: 0.91

SPECIMEN DIAMETER(in.):

READING 1: 0.76
 READING 2: 0.76
AVERAGE: 0.76
 AREA(in²): 0.46
 L/D: 1.19

TOTAL LOAD(lbs) 145
COMPRESSIVE STRENGTH (PSI): 320
(1) CORRECTION (PSI): 300

FRACTURE TYPE: **SPLIT**

RATE OF LOADING(lbs/sec): 1
 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 client's instructions. [failure stress/(0.88 + 0.24 * (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: HAZELNUT

Notes:

Tested By: JAC Date: 02/26/10

Checked By: *KB* Date: 4-7-10