

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.: 2010-001-01-05

SAMPLE ID: WALNUT
 AKA: FORGEIN NUT
 GENUS: *Juglans*

<u>SPECIMEN LENGTH (in.)</u>		<u>SPECIMEN DIAMETER(in.):</u>	
BEFORE CAPPING		READING 1:	1.24
READING 1:	1.45	READING 2:	1.24
READING 2:	1.45	AVERAGE:	1.24
READING 3:	1.45	AREA(in ²):	1.21
AVERAGE:	1.45	L/D:	1.17
 <u>SPECIMEN LENGTH (in.)</u>		TOTAL LOAD(lbs)	81
AFTER CAPPING		COMPRESSIVE STRENGTH (PSI):	70
READING 1:	1.45	(1) CORRECTION (PSI):	60
READING 2:	1.45	FRACTURE TYPE:	SPLIT
READING 3:	1.45	RATE OF LOADING(lbs/sec):	1
AVERAGE:	1.45	TIME TO BREAK(min:sec.):	1:13.13
		DEVIATION FROM STRAIGHTNESS ⁴ :	
		AXIAL: <i>Pass</i>	TOP: <i>Pass</i> BOTTOM: <i>Pass</i>

- 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: WALNUT

Notes:

Tested By: JAC Date: 02/26/10 Checked By: *HB* Date: 4-7-10
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