

5-4-17

Project No.: 170411.1

Page 1 of 1

Issue No.: 2



Jim Selevan
Pi Variables, Inc.
Pi-Lit Lab Testing

Equipment Used:

United UTM, ID: 1112580, Calibration Date: 10/18/16-17
Neoprene Compression Pad (Duro 70)

Procedure Used:

1. Pi-Lit System measured for width and length.
2. A single Neoprene pad was placed on each side of the Pi-Lit unit.
3. Sample was centered under compression head and a preload of 2.22 kN (500 lbf) at a rate of 0.1 (inch/minute).
4. A Rate of 0.2 (inch/minute) was applied to sample until machine was stopped due to complete failure of unit.

Observations:

Sample 1: Received a Total Force of 133.7 kN (30,051 lbf) before testing was ended due to failure of unit, which was determined by a decrease in height of unit by more 50% of original height. Some crunching of the unit occurred around 66.7 kN (15,000 lbf). This represents failure of unit at an equivalent weight of 13,634 Kg.

Sample 2: Received a Total Force of 165.7 kN (37,242 lbf) before testing was ended due to failure of unit, which was determined by a decrease in height of unit by more 50% of original height. Some crunching of the unit occurred around 71.2 kN (16,000 lbf). This represents failure of unit at an equivalent weight of 16,897 Kg.

Sample 3: Received a Total Force of 119.6 kN (26,888 lbf) before testing was ended due to failure of unit, which was determined by a decrease in height of unit by more 50% of original height. Some crunching of the unit occurred around 66.7 kN (15,000 lbf). This represents failure of unit at an equivalent weight of 12,196 Kg.

A handwritten signature in black ink, appearing to read "Steve Crumb".

Steve Crumb
Lab Manager