

# Roediger Agencies cc

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24 April 2012

Allan Reece  
Rare Thatch Systems  
39 Ritchie Street  
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Dear Mr. Reece

Artificial extruded straw from polymer was sent to the analytical laboratory of Roediger Agencies cc for testing via the following test method.

## **Standard test procedures and requirements UL94VHB**

### **Specimen:**

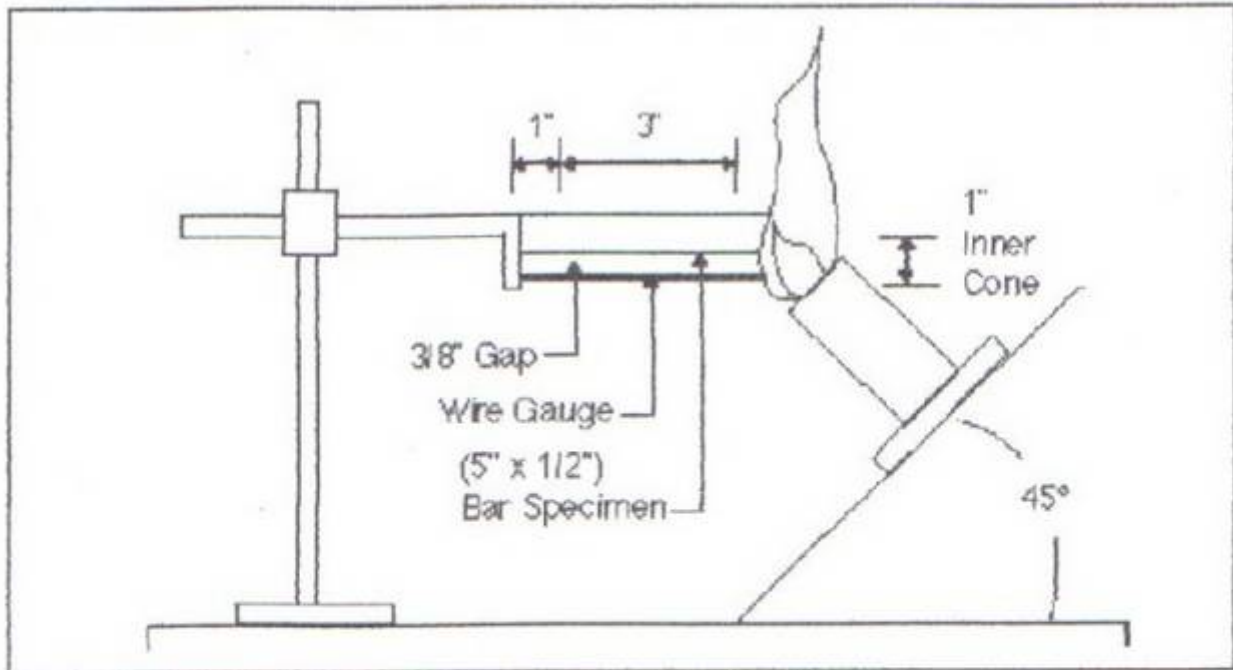
5" x 12" x thickness (typically thickness is 1/16".1/8".1/4")

### **Procedure**

Three specimens are tested after conditioning 48 hours at 23 °C and 50% RH. Specimen is mounted with long axis horizontal and its short axis at a 45 ° angle. Each specimen is marked with two lines, 1" and 4" from one end of specimen. Specimen is supported at one end such that its lower edge is 3/8" above a piece of wire gauge. A 1" high blue Bunsen burner flame is applied to the free end of the specimen from 30 seconds and then removed. If the specimen continues to burn after removal of the test flame, the time for the flame front to travel between the two gauge marks is measured and the burning rate calculated in inches per minute.

**Classification requirements – for 94HB**

- A. Not have a burning rate exceeding 1.5' per minute over a 3.0' span for specimen.
- B. Not have a burning rate exceeding 3.0' per minute over a 3.0' span for specimen having a thickness less than 0.120", or
- C. Cease to burn before the flame reaches the 4.0' mark.



Horizontal Burning Test for 94HB Classification

94HB Horizontal Flame Class Requirements	
Thickness	Burning Rate
> 1/8in	>1-1/2 in/min
< 1/8 in	< 3in/min

**Results**

Burning rate was 0.6 "/min, which qualifies for a UL 94HB rating A.

Yours faithfully,

Dr. AHA Roediger.