

**ASTM E136 TESTING  
FOR  
CEMBRIT HOLDINGS A/S  
ON  
RAW / MINERIT / CONSTRUCTION  
VTEC #100-5386  
TESTED: NOVEMBER 22, 2016**



# VTEC Laboratories Inc.

November 22, 2016

**Client:** Cembrit Holdings A/S  
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**Attention:** Mark Heuchert

**Scope:**

This report contains the reference to the test method, conditioning of sample, description of material, and test results.

**Test Method:**

This test was conducted in accordance with ASTM E136, "Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C".

**Passing Criteria:**

At least three of the four specimens tested exhibit:

1. Less than 50% weight loss
2. No flaming after the first 30 seconds
3. The recorded temperatures of the surface and interior thermocouples do not at any time during the test rise more than 30°C above the stabilized temperature of the furnace.

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**Material Tested:**

- |                          |  |
|--------------------------|--|
| 1) Supplier:             | Cembrit Holdings A/S   |
| 2) Product Description:  | RAW / MINERIT / CONSTRUCTION   |
| 3) Specimen Dimensions:  | 1.5" x 1.5" x 2"   |
| 4) Specimen Composition: | Specimen consisted of 6 pieces stacked on top.                           |
| 4) Color:                | Grey   |
| 5) Conditioning:         | The specimens were conditioned according to the ASTM E136 specification. |

**Results:**

Sample #	Weight Before (grams)	Weight After (grams)	Final Center Temperature (deg.C)	Final Surface Temperature (deg.C)	Weight Loss (percent)	Flaming After First 30 Seconds?
1	133.9	114.5	703	736	14%	No
2	136.3	117.2	667	723	14%	No
3	132.0	112.8	717	721	15%	No
4	131.3	112.5	732	734	14%	No
<b>Average:</b>	<b>133.4</b>	<b>114.2</b>	<b>704.6</b>	<b>728.4</b>	14%	

**Conclusion:**

The samples provided met all passing criteria as specified by ASTM E136.



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