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**date**  
29/08/2017

## **TEST REPORT 17-1009-01**

### **Samples received :**

<b><u>Name</u></b>	<b><u>Date of receipt</u></b>
Floor : Floorify rigid vinyl planks & tiles Underlay : Floorify Comfort Underlay	24/08/2017

### **Aim of the test :**

Determination of the thermal resistance

### **Test conditions :**

#### **Thermal resistance**

Standard: ISO 8302 (1991)\*, EN 12667 (2001)\*

Method: 1 plate method:  $\lambda$  - meter EP 500

A sample is placed between a cold and a warm plate. The cold and the warm plate are kept at constant temperature. The amount of energy needed to keep the temperature of the warm and cold plate constant, is an indication for the heat transmission through the sample.

$\lambda$  : thermal conductivity

R: thermal resistance

Pre treatment None

Number of tests: 1 measurement per temperature

Test conditions:  $20 \pm 2^\circ\text{C}$  and  $65 \pm 4\%$  relative humidity

The tests were finished in week 34/2017.

## **OBTAINED RESULTS**

### **Thermal resistance**

#### **Floor : Floorify rigid vinyl planks & tiles**

Thickness sample : 4.5 mm measured at a pressure of 1000 Pa (to keep out the air)

Temperature	Temperature difference (K)	R (m <sup>2</sup> .K/W)
23	10K	0.015
28	10K	0.015
33	10K	0.014
<b>Average</b>		<b>0.015</b>
CV (%)		1.5

#### **Underlay : Floorify Comfort Underlay**

Thickness sample : 2.0 mm measured at a pressure of 1000 Pa (to keep out the air)

Temperature	Temperature difference (K)	R (m <sup>2</sup> .K/W)
23	10K	0.054
28	10K	0.054
33	10K	0.054
<b>Average</b>		<b>0.054</b>
CV (%)		0.8

**Floor + underlay = 0.0146 + 0.0540 = 0.0686 R**

i.o.



**Ka Chi Liu**  
Technician



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