## **TEST REPORT**

DATE OF REPORT

: 7<sup>th</sup> JANUARY 2019

**SPECIMENS** 

: DECORATIVE PRODUCTS FOR EXTERIOR INSULATION SHEATHING

AND FRAMING (materials made of Rockwool and EPS coated

with a plaster)

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The products supplied by the manufacturer mentioned above were tested in out laboratory and the results are presented below.

Test	Test equipment/conditions	Result
UV Resistance	<ul> <li>X-Rite Model 962-964 spectrophotometer</li> <li>Erichsen Solarbox 1500 1000 W/ m²</li> <li>Tested for 14 days (336 hours, this period corresponds to</li> </ul>	After testing, no change in mechanical and material characteristics of the specimens was observed, where $\Delta E_{Rockwool} = 2,76$ $\Delta E_{EPS} = 3,16$
Impact Test	<ul> <li>approximately 10 years)</li> <li>Erichsen impact tester</li> <li>with a weight of 2 and 1 kg from the distance of 50 and 10 cm for Rockwool and EPS specimens, respectively.</li> </ul>	When a weight of 2 kg was vertically dropped off from the distance of 50 cm onto the Rockwool specimen, no cracking on the specimen surface was observed.  When a weight of 1 kg was vertically dropped off from the distance of 10 cm onto the Rockwool specimen, no cracking on the specimen surface was observed.
Thermal Shock	<ul> <li>Heraeus oven and BOSCH -no frost fridge</li> <li>After keeping specimens at +80 °C for 30 minutes, they are placed in the fridge at -80 °C for 30 minutes. The procedure is repeated for 10 cycles.</li> </ul>	Both of the specimens were remained intact.

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Adhesion	<ul> <li>Manually</li> </ul>	The plaster coatings on both specimens could not be removed from the surface. The adhesion was graded as good.
Abrasion test	<ul> <li>Taber Abraser S5131</li> <li>1000 cycles with a load of 2x500 g.</li> </ul>	After testing, the amount of the weight loss on Rockwool and EPS specimens were 0.16 wt% and 0.53 wt%, respectively. It is concluded that the abrasion resistance of the specimens tested was graded as good.
Fire test	<ul> <li>Bunsen burner</li> <li>Timer</li> <li>Thermometer, Consort, Model T550</li> </ul>	After removing its plaster part, EPS specimen was exposed to fire. It withstood up to the temperature of 300 °C and began softening at 500 °C. As soon as the specimen was removed away from the flame, it extinguished spontaneously.  Conclusion:  According to DIN 4102, the EPS specimen was classified as B1 class "hardly burning material."

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Signatures above are confirmed.

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