

Test report

Nr. 08127

Outgassing of thermal insulation materials in solar-thermal flatplate collectors with antireflective coated glass

ordered by :

Knauf Insulation
Trata 32
4220 Skofja Loka
Slovenia

Manufacturer :

Knauf Insulation
Trata 32
4220 Skofja Loka
Slovenia

Designation of the test sample:

TERVOL SC 5

Description of the sample :

mineral wool
no coating
specific weight 53 kg/m³
Thickness approx. 60 mm



Photo of the test sample

Test temperature :

200°C

Test date :

Beginning at 5.3.2008, according to test instruction , see www.solarenergy.ch

Evaluation :

The tested mineral wool TERVOL SC 5 (delivery 4.3.2008) is suitable for single glazed, ventilated solar thermal flat plate collectors with antireflective coated glass with stagnation temperatures up to 200°C. Very little visible condensate precipitation is to be expected.

Limitation of liability :

The use of our services occurs generally at one's own risk. SPF is not responsible for damages, caused by the use of this test report and the included informations.

Rapperswil, 17.3.2008

Felix Flückiger

Appendix to Test report No. 08127

Results in detail :

The mineral wool TERVOL SC 5 (delivery 4.3.2008) leads to very little visible precipitation at the condensation trap (see following pictures).

Pictures of the condensation trap after 150h @ 200°C :



Sample 1



Sample 2