"Warmth reduction" Test

This test clearly proves that a room gets less heat if the windows are protected by a sun-repellent foil.

In this test Type R05822S (Silver 20)

(Figure: Side wall, separation wall, light source – each 120W, Extech thermometer, adjusted to 0,1 °C.)

The materials for the test were prepared as per the figure above. Before switching on the light sources, both thermometers showed a temperature of 31°C.

The light sources were switched on simultaneously. The evolution of the temperature was measured at regular intervals.

The exact time and temperature of the test are shown on the table:

(Table)

Immediately after switching on the light sources there was already a clear difference between the window without protection and the window with the sun repellent foil.

After 1 minute, the temperature at the unprotected window was at 43 °C, 10 °C more than the window provided with the sun repellent foil of type R05822S (Silver 20)

Conclusion:

The test was ended after 6 minutes and 2 seconds. The temperature of the unprotected window was at that moment exactly 60°C. The window with the sun repellent foil showed a temperature of only 37,04 °C.