



## 1 Test Material

2 plates of PUR-foam

Name of the product: „Soudal Flexifoam“

Dimensions: 500 mm x 500 mm x 55 mm

Colour: yellowish white

Date of delivery: January 30, 2007 and March 6, 2007

## 2 Test

The thermal conductivity was determined according to DIN 52612-1:1979-09 with a guarded hot plate apparatus according to clause 7 of the standard from March 8, 2007 to March 12, 2007. The results are given in tables 1 and 2.

Table 1: Details of the specimens

		Specimen 1	Specimen 2
Width	mm	493	493
Length	mm	494	501
Thickness	mm	55,1	54,1
Mass	g	378,5	335,6
Area related mass	kg/m <sup>2</sup>	1,55	1,36
Density	kg/m <sup>3</sup>	28,2	25,1

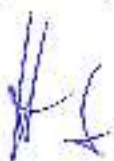
Table 2: Results

Measurement no.	Mean temperature of the hot surfaces $\vartheta_{hm}$	Mean temperature of the cold surfaces $\vartheta_{cm}$	Mean temperature of the specimens $\vartheta_s$	Surface temperature difference $\Delta T$	Thermal conductivity $\lambda_d$
—	°C	°C	°C	K	W/(m·K)
1	14,9	6,7	10,8	8,2	0,0347
2	25,0	16,6	20,8	8,4	0,0369
3	35,0	26,4	30,7	8,6	0,0392
Thermal conductivity at a mean temperature of 10 °C					0,0345

Hannover, October 22, 2008

Head of laboratory

By proxy



(ORR Dipl.-Phys. Hurling)

