

# Certificate

For the

**radiation heating panel DIRECTTECH D 1300W 160°C**

device no. A009758 00465-2012

net power at 230 V: 1300 W

size: 1,198 m x 0,597 m

manufactured by **DIRECTTECH Global® GmbH**

is certificated, that the measurement of the radiation efficiency <sup>\*)</sup> was done at 21 March 2013 under the following conditions:

positioning:	<b>horizontal positioning (overhead)</b>
room temperature:	<b>20 °C</b>

Major measuring results:

power consumption	
when temperature is in balance:	<b>1325 W</b>
max surface temperature:	<b>166 °C (assumed emissivity 90%)</b>
IR-radiation power (front):	<b>884 W</b>

Result of the evaluation:

**Radiation efficiency: (66.7 ± 2.8) %**

**Estimation:** The evaluated radiation efficiency regarding the chosen measuring conditions and surface temperature is high-ranking and stands in the range of the assumed maximum value (about 70 %).

<sup>\*)</sup> In preparation of a technical standard (e.g. German standard DIN) aimed to evaluate the quality of radiation heating panels this measurement procedure was developed and verified on behalf of the BVIR-Verband Infrarot-Heizung e.V. in July 2012.

Jena, 22 March 2013



**IET GmbH**

Institut für angewandte  
Energietechnologie

Keßlerstr. 27 Tel.: (03641) 6349562  
D-07745 Jena Fax: (03641) 6349563



physicist Dr. Dieter Achilles