

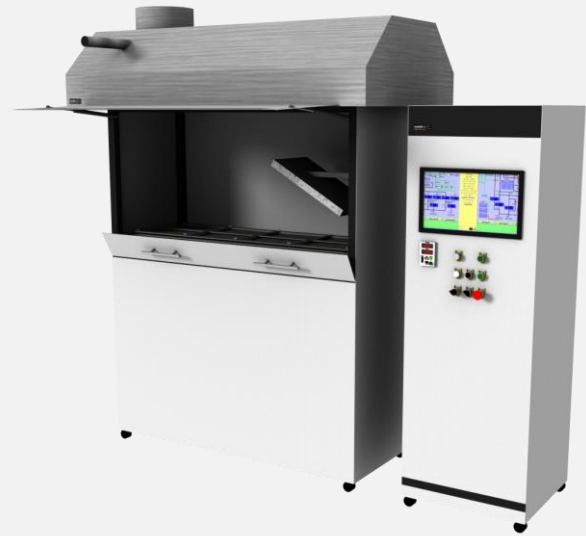
**BA03 - FLOORING RADIANT PANEL APPARATUS**

**TECHNICAL DATASHEET**

Complying with:  
**ASTM E648 ISO 9239 -1**

This test method is used to measure the critical radiant flux of horizontally-mounted floor covering systems exposed to a flaming ignition source in a graded radiant heat environment, within a test chamber. It can also be used to measure this same critical radiant flux for exposed floor cellulose insulation.

The radiant heat is applied by means of a gas-fuelled panel, inclined at 30°, and directed at a horizontally mounted floor covering system specimen. The radiant panel generates a radiant energy flux distribution ranging from a nominal maximum of 10.9 kW/m<sup>2</sup> to a minimum of 1.1 kW/m<sup>2</sup>



**Technical features:**

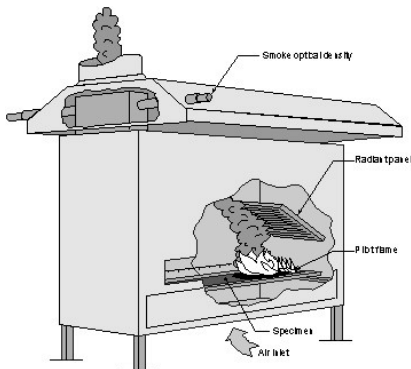
- Test chamber with calcium silicate lining, flap with fire resistant glazing, extractable mounting plate for sample holder, exhaust pit with light measurement system
- Gas fuelled radiant panel.
- Stainless steel row gas burner with pneumatic shifting option with ignition device, flame detector and check valve
- Stainless steel sample holder for easy sample insertion
- Gas installation with digital gas flow controllers, pressure controllers and magnet valves
- Stainless steel hood with smoke measurement ports.
- Measuring and control unit with colour touchscreen, measuring and control modules and USB interface
- Data Link acquisition and analysis software.

*The distance burned until flame-out is reached and converted, by calibration, into an equivalent critical radiant flux, in kW/m<sup>2</sup>.*

*Traditionally, tests are conducted to give a maximum critical radiant heat flux of 10.9 kW/m<sup>2</sup>, but it can optionally be conducted with higher radiant heat input, of up to 25.0 kW/m<sup>2</sup>.*

*A smoke measuring system, according to DIN 50055, is mounted on a separate frame at the exhaust stack.*

*Reaction of the sample during the test*



**Supplies:**

- Power 230 V 50Hz single phase
- Propane
- Dry industrial air 2 atm

**Configuration including:**

- Pyrometer 1 to 9 μm sensitivity
- N.2 Thermocouple type K
- Schmidt Boelter heat flux meter ( 25 mm) 0 to 15 kW/m<sup>2</sup>

**General:**

Dimensions: 60 x 200 x 200 h (mm)  
Net weight: kg 110  
Gross weight: kg 160

Code	Description
10092103	BA03 Apparatus
00100223	Software Link Optical Density
40991092	Radiometer Schmidt Bolter 25 mm diam.

