3/F 2nd Building Minghui Industrial Zhongwuwei Niushan Dongcheng District Dongguan Email: info@skylineinstruments.com

Radiant Flooring Panel Apparatus

Application

- Building Materials
- Rail
- Automotive Interior
- Other

Standards:

ASTM E648—— Standard Test Method for Critical Radiant Flux of Floor- Covering System Using a Radiant Heat Energy Source

ASTM E 970—— Standard Test Method for Critical Radiant Flux of Exposed at Attic Flooring Insulation Using a Radiant Heat Energy Source

NFPA 253—— Standard Method of Test for Critical Radiant Flux of Floor Covering System Using a Radiant Heat Energy Source (National Fire Code. Vol.6)

ISO 9239-1—— Reaction to Fire Tests for Flooring- Part 1: Determination of Burning Behavior Using a Radiant Source

ISO 9239-2—— Reaction to Fire Tests for Flooring- Part 2: Determination of Flame Spread at a Hat Flux Level of 25kW/m2

FEATURE

- 1. The resulting test chamber is insulated with calcium silicate insulation board and is provided with a temperature resistant observation window.
- 2. The stainless steel sample support assembly is mounted on a sliding platform to allow safe and easy loading of the test sample.
- 3. 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.
- 4. The radiant panel generates a radiant energy flux distribution ranging from a nominal maximum of 10.9 kW/m2 to a minimum of 1.1 kW/m2.
- 5. Dummy calibration specimen with holder, calibrated heat flux meter and mounting.
- 6. The distance burned until flame-out is reached and converted, by calibration, into an equivalent critical radiant flux, in kW/m2.
- 7. Heat Flux Meter: Range : $0 \sim 50 \text{ kw/m2}$; Surface emissivity : $\epsilon = 0.95 \pm 0.05$
- 8. A smoke measuring system, according to DIN 50055, is mounted on a separate frame at the exhaust stack.
- 9. Control Rack for convenience in use, allowing observation of the apparatus and controls during equipment set-up and calibration.
- 10. Automatic ignition of the radiant panel and safety cut-out.



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- 11. Automatic moving T type ignition burner
- 12. Stainless steel hood with smoke measurement ports.



