

FIRE REACTION OF MATERIALS EXPOSED TO RADIANT PANEL
TECHNICAL DATASHEET

To determine the flame spread on coating material surface with reference to four parameters: velocity of the flame spread, length of the damaged zone, dripping and flaming debris.

Main features and configuration:

- Refractory radiant panel producing max. radiation of 17 Watt/sqcm (14 Kcal/sqcm) for temperature up to 850°C (supplied either with propane gas or liquid gas)
- Electric primer flame to start the radiant panel with a high voltage transformer
- 3 pilot-flames for specimens located in three different positions: horizontal, vertical, floor
- n. 2 steel specimen support frames
- Motor operated specimen support structure sliding on tracks at the beginning and at the end of the test
- Centrifugal fan to activate the air/gas mixture which feeds the panel
- Suitable instrumentation (pressure adjustment and reducer) to reach the incandescence phase necessary for the performance of the test in accordance with standard parameters
- Control board for power supply, supply and regulation for either gas and air, panel ignition and fan closing, placed remotely outside
- Water radiometer supplied with ISO calibration certificate, range from 0 to 60 kW/sqm, output in microvolt, equipped with digital indicator with built-in RS232 port and datalogging function. Tolerances: ± 1 kW/sqm over 10 kW/sqm, ± 0.5 kW/sqm below 10 kW/sqm


Required supplies:

- Propane gas, Liquid gas (LPG)
- Air
- Water
- 220V 50Hz - 1 kVA

Optional accessories:

- Optical PYROMETER for temperatures up to + 1000°C
- FUME EXHAUST SYSTEM (Hood and piping on request)
- Thermo anemometer: 0-150°C / 0-20 m/s

General:

- Dimensions: 90x320x140 h (cm)
- Console dimensions: 90x40x100 h (cm)
- Weight: 80 Kg.
- Console weight: 20 Kg.



Control board for test apparatus and motor operated specimen support. The connection between the control board and the test apparatus must be performed on site by qualified personnel only. Installation by NOSELAB ATS's technicians on request.



Radiant panel during the test

Reference standards

UNI EN 9174

Code	Model	Description
10092101	BA01	Radiant panel w/motorized motion of structure sliding on tracks

