

RADIANT PANEL FLAME SPREAD APPARATUS (ASTM E 162, ASTM D 3675)

The Radiant Panel Flame Spread Apparatus measures the surface flammability of building products (ASTM E 162) and cellular plastics (ASTM D 3675) by using a gas-fired radiant heat panel. An index, I_s , is determined from the flame spread and heat evolution factors. This radiant panel index is a required parameter in various specifications, especially for the mass transit industry (buses and trains).



The FTT Radiant Panel Flame Spread apparatus is supplied as a complete easy-to-use system. Features include:

- Porous cement and cast iron gas operated radiant panel (12" × 18") with electric spark igniter and automatic safety flame out detector.
- Stainless steel specimen holder, with observation marks every 75 mm (3 in.) for assessing the progress of the flame front.
- Stainless steel specimen support.
- Stainless steel pilot burner assembly.
- Pyrometer to determine the surface temperature of the radiant panel, including mounting bracket.
- Air flow meter and gas control valve to control the mixture to the radiant panel.
- Stainless steel exhaust stack with a removable panel to enable easy cleaning of thermocouples.
- The stack is provided with 8 thermocouples as required by the standards.
- Calibration burner with methane gas flow meter.
- Safety gas controls and cut off circuitry.

A Windows based software package enables simple data acquisition, analysis and storage via a 22-bit data logger. All parameters are displayed. The software interface can be retrofitted to any existing ASTM E 162 apparatus. The versatile data logger may be used in other applications and is supplied with software that allows the data stored in the logger to be downloaded to a PC for further analysis.

The apparatus can be used as shown above or, alternatively, the control rack can be wall mounted and the radiant panel assembly used remotely (maximum distance from the control rack = 1m).

Services required: -

- A hood with exhaust blower placed over the stack is required.
- Electrical power providing 230VAC, 50Hz at 6A, or 110VAC, 60Hz, at 12A.
- Commercial grade propane, compressed air, acetylene gas, methane gas.

FTT is a world leader in fire testing instrumentation and offers a comprehensive spares and maintenance service for fire testing equipment.

Please visit our web-site (www.fire-testing.com) or contact us directly for any further information on our range of fire testing instrumentation.