

Fire Resistance

Fire Resistant Materials

Terms and Definitions

Flame Spread	Indicates the surface burning characteristics of building materials when tested in accordance to ASTM-E-84. The range for the flame spread is from 0 to 200. The lower the number, the more fire resistant the material is considered to be.
Class A	Defines materials with flame spread of 0 – 25. Material in this range is considered to be noncombustible.
Class B	Defines materials with flame spread of 26 – 75.
Class C	Defines materials with flame spread of 76 – 200.
Smoke Density	Indicates the amount of smoke generated by the materials during the ASTM-E-84 test. The range for the smoke developed is from 0 – 500. The lower the number, the less amount of smoke the material is generating.

Products

Starrco products include a DL noncombustible panel construction. The DL panels have been tested in accordance to ASTM-E-84 (copies of laboratory tests are available upon request).

Product	Flame Spread	Smoke Density
SS3000-DL Panel	19	7
SS3500-DL Panel	19	7

The other components of the pre-engineered office, i.e. suspended ceiling, dust cover, steel door and windows, are noncombustible. Incorporating **DL** panels into the office design will create a system in which all the components are noncombustible.

The standard (**SP**) panels consist of 1/8" vinyl covered hardboard (with Class C rating) laminated to both sides of a Class A polystyrene core.

The sound control (**SC**) panels are manufactured with all Class C substrate materials laminated to both sides of a Class A polystyrene core.

Fire ratings defined by a time limit (like one or two-hour time rated) generally do not apply to pre-engineered offices. Rated walls are normally used to separate one area from another or to protect entrance and exit points between areas.

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