



BULLETIN: Various Uses of Plastic Insulation

October 2015

Various uses of Plymouth Foam Insulation Materials may include building construction to reduce heat or sound transmission through a wall, roof or floor-ceiling assembly.

The foam insulation may be surface treatment exposed to the building occupancy (EIFS) or as a core material faced with metal, gypsum wallboard, concrete or masonry (Insulated Panels). The assemblies are not intended as long-term fire walls or barriers since fire endurance was not evaluated. See Fire Resistant Constructions that will list for hourly rated systems.

When used as a Suspended Plastic Ceiling tile, panels are used as manufactured, they are used to conceal ducts, sprinkler piping, lighting fixtures or for decorative purposes. All products are of low combustibility. Because they are designed to be heat sensitive, promptly moving out of their setting, they will not significantly interfere with the operation of automatic sprinklers located above. When other building components and occupancy do not require sprinkler protection, these products may be used without creating such a need. NOTE: Painting or coating the panels is prohibited since this may insulate and therefore hinder the immediate drop-out response to the early stage of a fire. However, panels which have been tested and FM Approved with a factory-applied coating may be used.

Installation

Restraining clips must not be used to hold the panels in their metal suspension frame. Clips which have been tested and FM Approved may be used for this purpose.

Modified Beads

The expanded polystyrene ceiling tiles provided by Plymouth Foam are processed from the modified grade bead resins produced by the manufacturers with FM, UL and ICC-ES approvals. These products have met the fire test requirements of FM Approval Standard No. 4651.

Product Description:

Unless otherwise indicated in listings, all expanded polystyrene ceiling panels are nominal 1.0 lb/ft³ (16.0 kg/m³) density. Expanded plastic (polystyrene) lay-in-place square edge panel, nominal 2 ft. by 2 ft. or 2 ft. by 4 ft. and a thickness of 1/2 in. to 1 in.