

2003 IRC foam plastics

SECTION R202 DEFINITIONS

[B] FOAM PLASTIC INSULATION.

A plastic that is intentionally expanded by the use of a foaming agent to produce a reduced-density plastic consisting open or closed cells distributed throughout the plastic and that has a density less than 20 pounds per cubic foot (320 kg/m³).

R314 FOAM PLASTIC

314.1.1 Surface burning characteristics.

Except where otherwise noted in Section R314.2, all foam plastic or foam plastic cores in manufactured assemblies used in building construction shall have a flame-spread rating of not more than 75 and shall have a smoke-developed rating of not more than 450.

314.1.2 Thermal barrier.

Foam plastic, except where otherwise noted, shall be separated from the interior of a building by minimum 1/2-inch (12.7 mm) gypsum board or an approved finish material.

314.2 Specific requirements.

314.2.1 Masonry or concrete construction.

Foam plastics may be used without the thermal barrier described in Section R314.1 when the foam plastic is protected by a minimum 1-inch (25.4 mm) thickness of masonry or concrete.

314.2.2 Roofing.

314.2.3 Attics and crawlspaces.

Within attics and crawlspaces where entry is made only for service of utilities, foam plastics shall be protected against ignition by 1 1/2-inch-thick (38 mm) mineral fiber insulation, 1/4-inch-thick (6.4 mm) wood structural panels, 3/8-inch (9.5 mm) particleboard, 1/4-inch (6.4 mm) hardboard, 3/8-inch (9.5 mm) gypsum board, or corrosion-resistant steel having a base metal thickness of 0.016 inch (0.406 mm).

R315 FLAME SPREAD AND SMOKE DENSITY

315.1 Wall and ceiling.

Wall and ceiling finishes shall have a flame-spread classification of not greater than 200.

315.2 Smoke-developed index.

Wall and ceiling finishes shall have a smoke-developed index of not greater than 450.

R316
INSULATION

316.1 Insulation.

Insulation materials, including facings, such as vapor retarders or vapor permeable membranes installed within floor-ceiling assemblies, roof-ceiling assemblies, wall assemblies, crawl spaces and attics shall have a flame-spread index not to exceed 25 with an accompanying smoke-developed index not to exceed 450 when tested in accordance with ASTM E 84.