



**City of Wayzata**  
**Building Inspection Department**

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### **FOAM PLASTIC IRC R314, SBC 1309.0314**

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.

#### **Walls & Ceilings**

The 2006 IBC & IRC require foam plastic insulation to be separated from the interior of a building by an approved thermal/fire barrier of 1/2-inch gypsum wallboard or equivalent thermal barrier that will prevent temperature rise to not more than 250 degrees F. in a 15-minute time period.

#### **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 mineral fiber insulation, 1/4 inch-thick wood structural panels, 3/8-inch particleboard, 1/4 inch hardboard, 3/8 inch gypsum board, or corrosion-resistant steel having a base metal thickness of 0.016 inch.

#### **Rim joist area.**

Foam plastic shall be permitted to be spray-applied to a sill plate and header (rim joist) without thermal barrier if all of the following conditions exist:

- The maximum thickness of the foam plastic shall not exceed 3 1/4 inch
- The density of the foam plastic shall be between 1.5 and 2.0 pcf.
- The foam plastic shall have a flame spread index of 25 or less and an accompanying smoke developed index of 450 or less when tested in accordance with ASTM E84.

Note:

1. Foam plastic installed in an attic may require both a thermal barrier and an ignition barrier.
2. Ventilation is required between the roof deck and the foam insulation, hot roofs are not allowed.
3. Reliance on adhesives to ensure that the gypsum board will remain in place when exposed to fire is prohibited.