

MARKETING BULLETIN — Roofing Systems

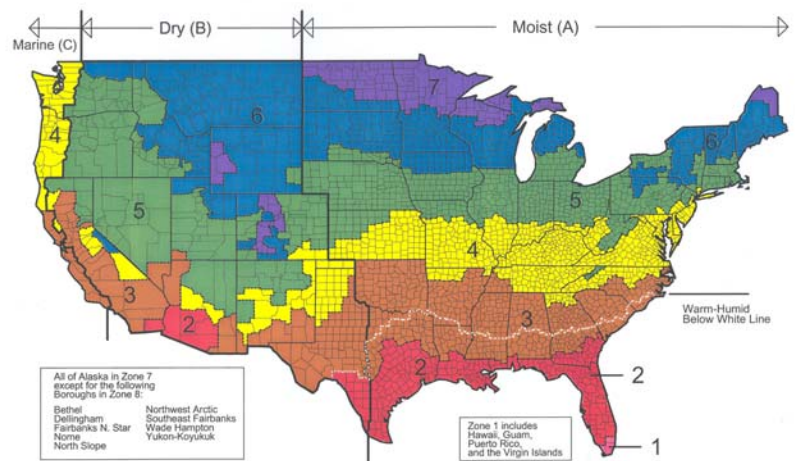
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**American Society of Heating, Refrigerating and Air-Conditioning Engineers
 (ASHRAE) 90.1 R-Value Changes for 2008
 Insulation Systems**

The ASHRAE standard outlines minimum energy efficiency requirements within building design. It is an integral part of compliance with the 2006 International Building Code. In response to numerous energy conservation and sustainability efforts throughout the country, such as LEED®, ENERGY STAR®, and California Title 24, a new ASHRAE standard is in effect for 2008.

The minimum amount of above-deck roof insulation required has been increased by 33 percent in certain zones as follows:

- **Zone 1:** No change (R-15 minimum)
- **Zones 2 – 7:** Increased from R-15 to R-20
- **Zone 8:** No change (R-20 minimum)



ASHRAE Climate Zones Map

The change translates into using a minimum of 3.3 inches of polyisocyanurate insulation within the JM Roofing System. To avoid thermal shorts and increase installation efficiencies, Johns Manville recommends installing two or more staggered layers of ENRGY 3® or ISO 3™ insulation to meet the minimum requirement.

However, the minimum may be adjusted in certain zones when using highly reflective (70% or above) membrane systems such as a white single ply (JM PVC or JM TPO) or a GlasKap® CR bitumen cap sheet.

Contact Contractor Services at (800) 922-5922 to learn more about the approved JM specifications that meet these requirements.

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