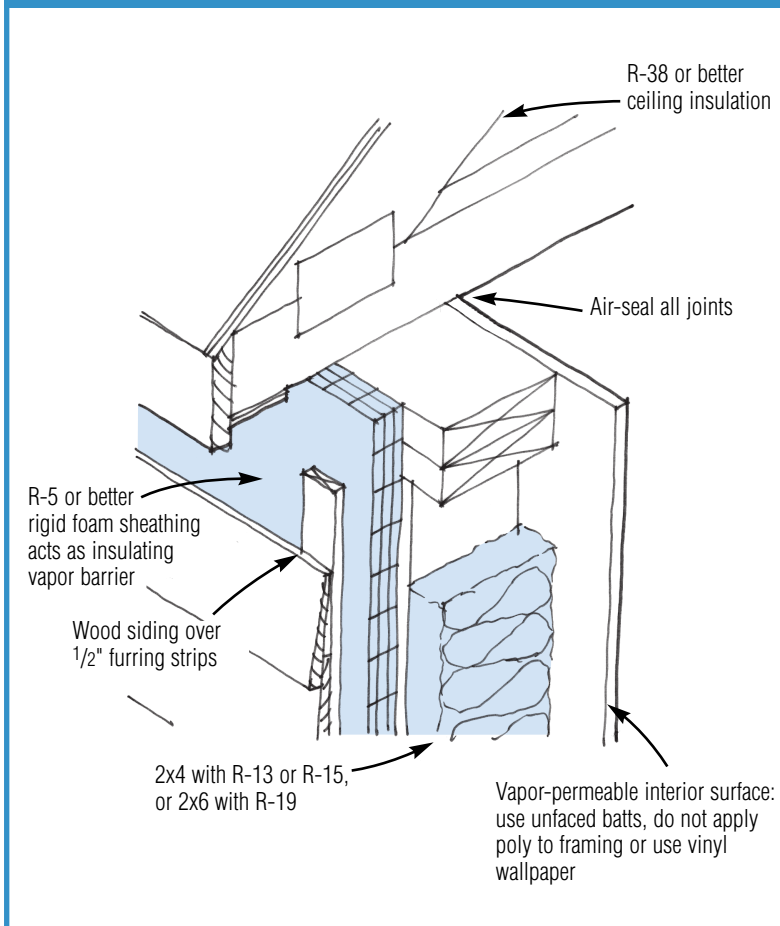


7 - HVAC AND ENERGY: Building Envelope

Figure 7-6. Mixed-Climate Wall



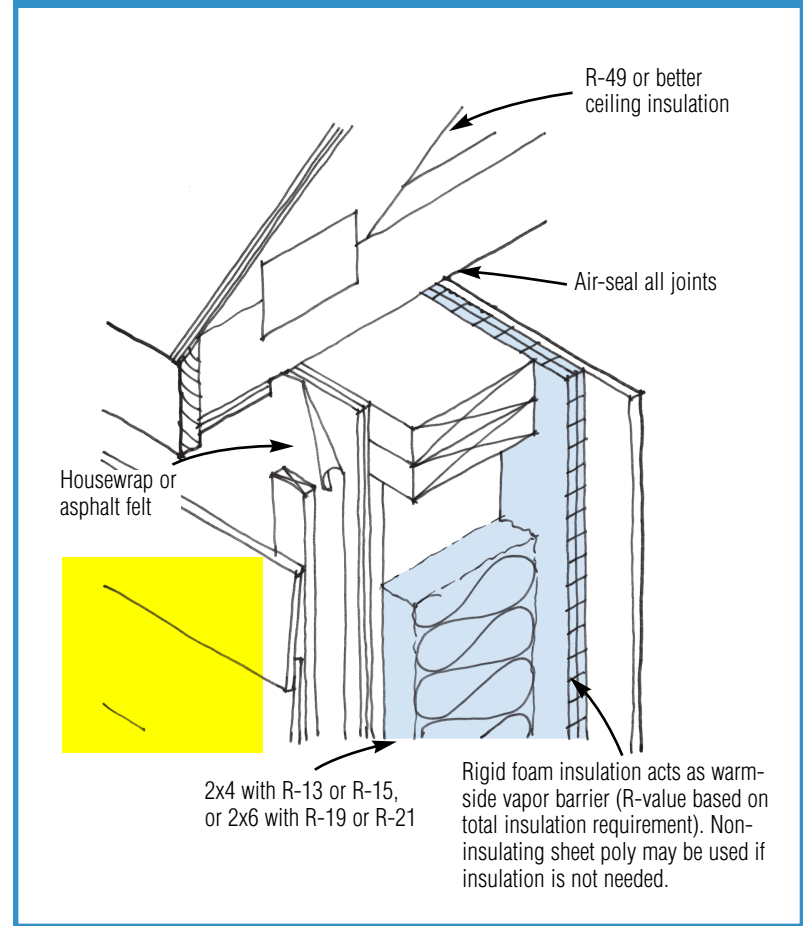
For more information:
 “Controlling Moisture in Mixed Climates,”
 JLC 8/97

“Avoiding Moisture Problems in Cooling Climates,”
 JLC 10/97

“Vented vs. Unvented Roofs: The Great Debate,”
 JLC 1/96

In a humid climate where both heating and cooling are required, install R-15 or better insulation in the walls and R-38 or better in the ceilings. The vapor drive will be **inward** during the **cooling** season. This wall is designed to dry to the interior.

Figure 7-7. Cold-Climate Wall



In a cold dry or cold humid climate, use R-21 or better insulation in the wall and R-49 or better in the ceiling. An outward vapor drive from the interior will predominate during the heating season. In the summer, the vapor drive may be from the exterior, but will be minimal unless the home is air conditioned for long periods. This wall is designed to dry to the exterior.