

<p>Step 1: <i>Determine</i></p>	<p>Determine Governing Energy Code → Determine Project Climate Zone → Determine Project Occupancy</p> <p>IECC version and local amendments Zone 4B, Zone 5B, Zone 6B, or Zone 7B. Group R or All Other</p>			
<p>Step 2: <i>Select an Option</i></p>	<p>Prescriptive Compliance Options:</p> <p>Use when a whole-building energy model will not be performed to demonstrate energy code compliance. Typically, whole-building energy modeling methods are required when assembly R-values or U-factors cannot meet code requirements, when the U-factor component performance alternative cannot be used to demonstrate compliance, or when glazing areas exceed the maximum glazing area percentages set by the energy code.</p>			<p>Non-prescriptive Compliance Option:</p> <p>Use when prescriptive compliance options cannot be used to demonstrate energy code compliance.</p>
<p>Step 3: <i>Select a Strategy</i></p>	<p>R-Value–Based Method</p> <p>Provide opaque above-grade wall insulation with an R-value equivalent to or greater than that described in Table 8-4. This is the least flexible strategy.</p>	<p>U-Factor–Based Method/ U-Factor</p> <p>Provide an opaque above-grade wall assembly with an assembly U-factor less than or equal to that described in Table 8-4. U-factors should consider all instances of thermal bridging required by the governing jurisdiction.</p>	<p>Component Performance Alternative/ U-Factor–Based Method/ Building Envelope Trade-Off Option</p> <p>Provide an area-weighted calculation of assembly and component U-factors for comparison with the prescriptive target. Use when overperforming assemblies can offset underperforming assemblies and components. This strategy is typically not successful when a project exceeds maximum glazing area percentages set by the energy code.</p>	<p>Total Building Performance/ Energy Cost Budget Method</p> <p>Perform a whole-building energy model using approved software. Use when enclosure components, lighting, and HVAC performance will be traded off to meet energy code compliance. This strategy is typically used when a project will exceed maximum glazing area ratios set by the energy code.</p>
<p>Step 4: <i>Determine System</i></p>	<p>Provide insulation that meets or exceeds the R-values listed in Table 8-4.</p>	<p>Provide assembly U-Factors from calculations, modeling, ASHRAE 90.1³¹ Appendix A tables, or other approved sources. Refer to modeling results presented at the end of this chapter to assist with determining appropriate insulation thickness.</p>		