

## Building Energy Asset Score: Building Upgrade Guide<sup>1</sup>

### ENVELOPE

#### Wall Insulation

**Asset Score Report Recommendation: Add Wall Insulation**

**Cost: \$\$ to \$\$\$ (based on the difficulty of adding insulation to the existing wall)**

The type and amount of wall insulation needed to improve performance can depend on several factors, including wall construction material, presence of existing insulation, and available space. Several insulation options are available and should be matched to the conditions of the existing walls. For walls with open and accessible cavities, such as wood or steel frame walls, consider blown-in insulation material to fill the available cavities. Otherwise, various methods of adding interior surface insulation (for example, for masonry or metal panel walls) or even exterior surface insulation might be options.

Options for interior surface insulation include varying thickness of fiberglass, reflective bubble pack, or foam. The optimal amount of wall insulation (from a cost-effective perspective) is heavily influenced by building location (i.e., climate zone) and energy prices. When upgrading wall insulation, it is important to consider methods to reduce infiltration through the wall and around windows to maximize energy savings.

---

<sup>1</sup> The complete Asset Score Building Upgrade Guide is available at:

[https://buildingenergyscore.energy.gov/assets/energy\\_asset\\_score\\_recommendations\\_guide.pdf](https://buildingenergyscore.energy.gov/assets/energy_asset_score_recommendations_guide.pdf)

---