

Identifying Needed Capabilities in Multifamily Models



Building America Technical Update Meeting

Eric Wilson

April 30, 2013

Definitions

Current definitions for HSP/BEopt:

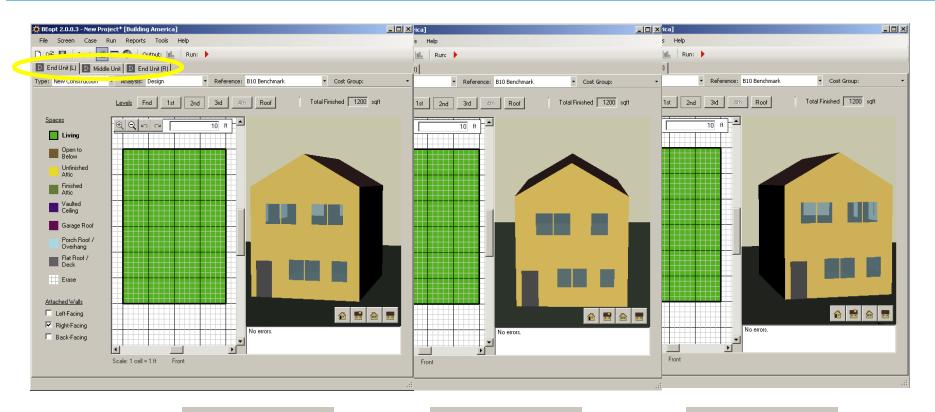
Single Family Attached

= Townhouses, row houses, duplexes

Multifamily Buildings

= 5+ units; shared floors/ceilings

Single Family Attached - Rowhouses



Attached Walls
Left-Facing
Right-Facing
Back-Facing

Attached Walls

✓ Left-Facing

✓ Right-Facing

☐ Back-Facing

Attached Walls

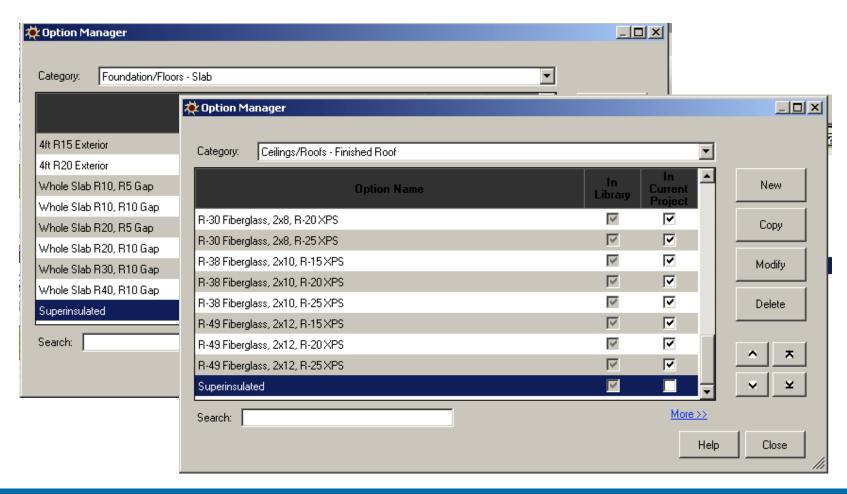
Left-Facing

Right-Facing

Back-Facing

Multifamily – Stacked Units

 Enable Superinsulated Slab and Roof options in Option Manager



Multifamily Modeling Needs

- Adiabatic shared walls, floors, and ceilings
- Unit multipliers

 Whole-Building Model
- Corridors
- Common Areas
- Operating Conditions (Benchmark)
- Central HVAC Systems/Controls
- Central DHW Systems
- 555



Zero Window Area on Attached Walls

