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Building codes vary from region to region. But no matter where you go, you’ll notice that residential building codes are placing more emphasis on effective, energy-efficient solutions.

One significant area of focus is the building enclosure. The building enclosure is the “boundary” that separates the inside environment from the conditioned space of the home. To create an optimal building enclosure, there are 4 major factors that need to be addressed:

- Air Intrusion
- Vapor Intrusion
- Water Intrusion
- Thermal Performance

The Owens Corning ResidentialComplete Wall Systems were each designed to help address a specific challenge in creating the building enclosure. We will show you examples of how to combine them for some common wall solutions, but you can also use these products to create your own customized system that is unique to your building situation and local code requirements.

These solutions for residential exterior walls provide incredible thermal efficiency, a complete air and water barrier, and excellent acoustical performance.

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- **FirstBlock® Extruded Polystyrene (XPS) Rigid Foam Insulation**
  - Helps reduce heating and cooling costs in residential buildings.
  - Helps resist moisture movement and mold growth.
  - Durable and easy to install.
  - Meets criteria as an air and water barrier when used with FOAMULAR barrier tape.
  - Helps enhance a building’s thermal performance.
  - Seals around nails and staples.
  - 55% recycled content.

- **ProPink® Insulation with PureFiber Technology**
  - Provides excellent insulating properties in hard-to-reach areas.
  - NGBS Green Certified.
  - USDA BioPreferred.
  - Provides continuous insulation in cathedral ceilings, fl oors, and ﬂ oor connections.
  - Helps reduce heating and cooling costs.
  - Non-combustible and non-corrosive.

- **Fiberglass® Insulation with PureFiber Technology**
  - Provides high-quality insulation in hard-to-reach areas.
  - Helps reduce heating and cooling costs.
  - NGBS Green Certified.
  - USDA BioPreferred.
  - Provides continuous insulation in cathedral ceilings, fl oors, and ﬂ oor connections.
  - Helps reduce heating and cooling costs.
  - Non-combustible and non-corrosive.

- **FOAMULAR® ProPink ComfortSeal™ Framing Gasket**
  - Helps enhance a building’s thermal performance.
  - Seals around nails and staples.
  - Helps prevent air and water leakage gaps.
  - Durable and easy to install.
  - Meets criteria as an air and water barrier when used with FOAMULAR barrier tape.
  - Helps enhance a building’s thermal performance.
  - Seals around nails and staples.
  - 20% recycled content.

- **ProSeal® Foam Joint Tape**
  - Helps enhance a building’s thermal performance.
  - Seals around nails and staples.
  - Helps prevent air and water leakage gaps.
  - Durable and easy to install.
  - Meets criteria as an air and water barrier when used with FOAMULAR barrier tape.
  - Helps enhance a building’s thermal performance.
  - Seals around nails and staples.
  - 20% recycled content.

- **ProPink® Foam Flashing Tape**
  - Helps enhance a building’s thermal performance.
  - Seals around nails and staples.
  - Helps prevent air and water leakage gaps.
  - Durable and easy to install.
  - Meets criteria as an air and water barrier when used with FOAMULAR barrier tape.
  - Helps enhance a building’s thermal performance.
  - Seals around nails and staples.

- **ProPink® Foam Joint Tape**
  - Helps enhance a building’s thermal performance.
  - Seals around nails and staples.
  - Helps prevent air and water leakage gaps.
  - Durable and easy to install.
  - Meets criteria as an air and water barrier when used with FOAMULAR barrier tape.
  - Helps enhance a building’s thermal performance.
  - Seals around nails and staples.
One of the most significant areas of focus in building enclosure design is the building enclosure. The building enclosure is the “border” that separates the inside environment from the exterior environment. To create an optimal building enclosure, there are four major factors that need to be addressed: Air Infiltration, Water Infiltration, Thermal Performance, and Vapor Infiltration.

The Owens Corning® Residential Complete® Wall Systems were each designed to help address a specific challenge in creating the building enclosure. We will show you examples of how to combine them for some common wall solutions, but you can also use these products to create your own customized system that is unique to your building situation and local code requirements.

FlashSeal® - Paintable Polyurethane (PUR) Foam Joint Tape

- Moisture and air barrier
- High adhesion to concrete, wood, and other substrates
- Easy application with a standard paintbrush
- Ideal for sealing joints between the foundation and the exterior elements

ResealCoat® - Water-based Silicone

- Multi-purpose water-based sealant
- Bonds to concrete, metal, and other substrates
- Ideal for sealing joints between the foundation and the exterior elements

EcoTouch® - Blown Foamed Polyurethane Insulation

- Provides superior air and water resistance
- Excellent thermal performance
- Easy to apply in small spaces
- Energy-efficient and cost-effective

FIBERGLAS™ Insulation with PureFiber Technology

- Excellent thermal performance
- GREENGUARD Gold Certified
- SCS certified to have a minimum of 20% recycled content
- Reduces energy costs and sound transmission
- Available in a variety of sizes, thicknesses, edges, and shapes

FOAMULAR® Extruded Polystyrene (XPS) Rigid Foam Insulation

- High R-values from R-1 to R-49
- Meets criteria as an air and water barrier
- Helps enhance a building’s thermal performance
- GREENGUARD Gold Certified
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ResidentialComplete® Wall Systems

Wood Stud ResidentialComplete® Wall System
- FlashSeal® Foam Penetration Tape
- PROPink® L77 Cement Roll
- HomeSeal® Paint Joint Tape
- FOAMULAR® Expanded Polyethylene (XPS) Rigid Foam Insulation
- ProPink ComfortSeal™ Sill Gasket

Concrete Masonry Unit (CMU) ResidentialComplete® Wall System
- FlashSeal® Foam Penetration Tape
- HomeSeal® Paint Joint Tape
- Optional Waterproofing Membrane
- FOAMULAR® Expanded Polyethylene (XPS) Rigid Foam Insulation

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