**PROJECT ARCHITECT RESPONSIBILITY:** This is a general specification guide, intended to be used by experienced construction professionals, in conjunction with good construction practice and professional judgment. This guide is to aid in the creation of a building specification that is to be fully reviewed and edited by the architect or engineer. Sections of this guide should be included, edited, or omitted based on the requirements of a specific project. It is the responsibility of both the specifier and the purchaser to determine if a product or system is suitable for its intended use. Neither Owens Corning, nor any of its subsidiary or affiliated companies, assume any responsibility for the content of this specification guide relative to actual projects and specifically disclaim any and all liability for any errors or omissions in design, detail, structural capability, attachment details, shop drawings or other construction related details, whether based upon the information provided by Owens Corning or otherwise.

# SECTION 07 05 00

# RESIDENTIAL EXTERIOR WALL SYSTEMS

## PART 1 - GENERAL

### 1.1 SUMMARY

A. Wood Stud Wall System:
   1. Option A: System includes rigid insulation, construction tape, flashing tape, insulation in stud cavity, sill plate gasket.
   2. Option B: System includes housewrap, construction tape, flashing tape, insulation in stud cavity, air seal, and sill plate gasket.
   3. Option C: System includes rigid insulation, housewrap, construction tape, flashing tape, insulation in stud cavity, air seal and sill plate gasket.
   4. Option D: System includes rigid insulation, housewrap, construction tape, flashing tape, insulation in stud cavity with staggered studs, air seal and sill plate gasket.
   5. Option E: System includes housewrap, construction tape, flashing tape, insulation in stud cavity, air seal and sill plate gasket.

B. Steel Stud Wall System:
   1. Option A: System includes rigid insulation, construction tape, flashing tape, insulation in stud cavity, and sill plate gasket.
   2. Option B: System includes rigid insulation, housewrap, construction tape, flashing tape, insulation in stud cavity, air seal, and sill plate gasket.
   3. Option C: System includes rigid insulation, housewrap, construction tape, flashing tape, insulation in stud cavity, air seal and sill plate gasket.

C. SIPS Panel Wall System:
   1. Option A: System includes SIPS panel with rigid insulation inside, housewrap, construction tape, and sill plate gasket.
   2. Option B: System includes SIPS panel with rigid insulation inside, housewrap, construction tape and sill plate gasket.

D. Concrete Masonry Unit Wall System:
   1. Option A: System includes rigid insulation, construction tape and flashing tape.

**1.2 SUBMITTALS**

A. Product Data: Submit manufacturer's product data, manufacturer's instructions for evaluating, preparing, and treating substrate, temperature and other limitations of installation conditions, technical data, and tested physical and performance properties.

B. Shop Drawings: Submit shop drawings showing details of typical and special conditions.

**1.3 QUALITY ASSURANCE**

A. Installer Qualifications: The installation work of this Section shall be performed by an experienced contractor with a minimum of 2 years experience installing similar assemblies.

B. Preconstruction Meeting: Convene a minimum of two weeks prior to commencing Work of this Section. Agenda shall include, at a minimum, materials proposed for use, sequence of construction, coordination with substrate preparation, compatibility of materials, coordination with installation of adjacent and covering materials. Attendance is required by representatives of related trades including covering materials, substrate materials and adjacent materials.

**1.4 DELIVERY, STORAGE, AND HANDLING**

A. Store and protect products in accordance with manufacturer's instructions. Store in a dry area and protect from water, direct sunlight, flame, and ignition sources. Do not install insulation that has been damaged or wet.

**1.5 PROJECT CONDITIONS**

A. Comply with manufacturer's recommendations regarding materials storage and handling; weather conditions before and during installation; and protection of the installed system.

**1.6 LIMITED WARRANTY**

A. Provide manufacturer's standard limited warranties against manufacturing defects.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

A. Wood Stud Wall System – Option A: Provide the following products by Owens Corning Insulating Systems, LLC.
   1. Continuous Insulating Sheathing: FOAMULAR® XPS, R-value of R-5 per inch. GREENGUARD GOLD Certified and certified by Scientific Certification Systems (SCS) to contain a minimum 20 percent recycled content.
   2. Construction Tape: JointSealR® Foam Construction Tape, coated with acrylic adhesive, adheres to XPS insulation.
   3. Flashing Tape: FlashSealR® Foam Flashing Tape. Complies with AAMA 711-07, adheres to XPS insulation.
   4. Insulation in Stud Cavity: EcoTouch® PINK® FIBERGLAS™ Batt Insulation or PROPINK® EcoTouch® PINK® FIBERGLAS™ Batt Insulation or PROPINK® 77 Loosefill Insulation. GREENGUARD GOLD Certified and certified by SCS to contain a minimum 58 percent recycled content. Verified formaldehyde-free.
   5. Sill Plate Gasket: FoamSealR™ Sill Plate Gasket, polyethylene foam.

B. Wood Stud Wall System – Option B: Provide the following products by Owens Corning.
   1. Continuous Insulating Sheathing: Foamular® XPS, R-value of R-5 per inch. GREENGUARD GOLD Certified. Minimum 20 percent recycled content, third party certified.
   2. Housewrap: PINKWRAP® Housewrap. UV resistant, fire resistant, vapor permeable, translucent.
   3. Construction Tape: BILD-R-TAPE® Construction Tape. Resistant to mildew, mold growth, UV.
   4. Flashing Tape: FlashSealR® Foam Flashing Tape. Complies with AAMA 711-07, adheres to XPS insulation.
   5. Insulation in Stud Cavity: EcoTouch® PINK® FIBERGLAS™ Batt Insulation or PROPINK® EcoTouch® PINK® FIBERGLAS™ Batt Insulation or PROPINK® 77 Loosefill Insulation. GREENGUARD GOLD Certified and certified by SCS to contain a minimum 58 percent recycled content. Verified formaldehyde-free.
   6. Air Seal: EnergyComplete® System. Air sealing system to reduce air leakage.
   7. Sill Plate Gasket: FoamSealR™ Sill Plate Gasket, polyethylene foam.

C. Wood Stud Wall System – Option C: Provide the following products by Owens Corning.
   1. Continuous Insulating Sheathing: Foamular® XPS, R-value of R-5 per inch. GREENGUARD GOLD Certified, minimum 20 percent recycled content.
   2. Housewrap: PINKWRAP® Housewrap. UV resistant, fire resistant, vapor permeable, translucent.
   3. Construction Tape: JointSealR® Foam Construction Tape. Foam construction tape coated with acrylic adhesive, adheres to XPS insulation.
   4. Flashing Tape: FlashSealR® Foam Flashing Tape. Complies with AAMA 711-07, adheres to XPS insulation.
   5. Insulation in Stud Cavity: EcoTouch® PINK® FIBERGLAS™ Batt Insulation or PROPINK® EcoTouch® PINK® FIBERGLAS™ Batt Insulation or PROPINK® 77 Loosefill Insulation. GREENGUARD GOLD Certified and certified by SCS to contain a minimum 58 percent recycled content. Verified formaldehyde-free.
   6. Air Seal: EnergyComplete® System. Air sealing system to reduce air leakage.
   7. Sill Plate Gasket: FoamSealR™ Sill Plate Gasket. Polyethylene foam.

D. Wood Stud Wall System – Option D: Provide the following products by Owens Corning.
   1. Continuous Insulating Sheathing: Foamular® XPS, R-value of R-5 per inch. GREENGUARD GOLD Certified, minimum 20 percent recycled content.
   2. Housewrap: PINKWRAP® Housewrap. UV resistant, fire resistant, vapor permeable, translucent.
   3. Construction Tape: JointSealR® Foam Construction Tape. Foam construction tape coated with acrylic adhesive, adheres to XPS insulation.
   4. Flashing Tape: FlashSealR® Foam Flashing Tape. Complies with AAMA 711-07, adheres to XPS insulation.
   5. Insulation in Stud Cavity: EcoTouch® PINK® FIBERGLAS™ Batt Insulation or PROPINK® EcoTouch® PINK® FIBERGLAS™ Batt Insulation or PROPINK® 77 Loosefill Insulation. GREENGUARD GOLD Certified and certified by SCS to contain a minimum 58 percent recycled content. Verified formaldehyde-free.
   6. Air Seal: EnergyComplete® System. Air sealing system to reduce air leakage.
   7. Sill Plate Gasket: FoamSealR™ Sill Plate Gasket. Polyethylene foam.

E. Wood Stud Wall System – Option E: Provide the following products by Owens Corning.
   1. Housewrap: PINKWRAP® Housewrap. UV resistant, fire resistant, vapor permeable, translucent.
   2. Construction Tape: JointSealR® Foam Construction Tape. Foam construction tape coated with acrylic adhesive, adheres to XPS insulation.
   3. Flashing Tape: FlashSealR® Foam Flashing Tape. Complies with AAMA 711-07, adheres to XPS insulation.
   4. Insulation in Stud Cavity: EcoTouch® PINK® FIBERGLAS™ Batt Insulation or PROPINK® EcoTouch® PINK® FIBERGLAS™ Batt Insulation or PROPINK® 77 Loosefill Insulation. GREENGUARD GOLD Certified and certified by SCS to contain a minimum 58 percent recycled content. Verified formaldehyde-free.
   5. Air Seal: EnergyComplete® System. Air sealing system to reduce air leakage.

6. Sill Plate Gasket: FoamSealR™ Sill Plate Gasket. Polyethylene foam.

F. Steel Stud Wall System – Option A: Provide the following products by Owens Corning.
1. Continuous Insulating Sheathing: Foamular® XPS, R-value of R-5 per inch. GREENGUARD GOLD Certified, minimum 20 percent recycled content.
2. Construction Tape: JointSealR® Foam Construction Tape. Foam construction tape coated with acrylic adhesive, adheres to XPS insulation.
3. Flashing Tape: FlashSealR® Foam Flashing Tape. Complies with AAMA 711-07, adheres to XPS insulation.
4. Insulation in Stud Cavity: EcoTouch® PINK® FIBERGLAS™ Batt Insulation or PROPINK® EcoTouch® PINK® FIBERGLAS™ Batt Insulation or PROPINK® 77 Loosefill Insulation. GREENGUARD GOLD Certified and certified by SCS to contain a minimum 58 percent recycled content. Verified formaldehyde-free.
5. Sill Plate Gasket: FoamSealR™ Sill Plate Gasket. Polyethylene foam.

G. Steel Stud Wall System – Option B: Provide the following products by Owens Corning.
1. Continuous Insulating Sheathing: Foamular® XPS, R-value of R-5 per inch. GREENGUARD GOLD Certified, minimum 20 percent recycled content.
2. Housewrap: PINKWRAP® Housewrap. UV resistant, fire resistant, vapor permeable, translucent.
3. Construction Tape: BILD-R-TAPE® Construction Tape. Resistant to mildew, mold growth, UV.
4. Flashing Tape: FlashSealR® Foam Flashing Tape. Complies with AAMA 711-07, adheres to XPS insulation.
5. Insulation in Stud Cavity: EcoTouch® PINK® FIBERGLAS™ Batt Insulation or PROPINK® EcoTouch® PINK® FIBERGLAS™ Batt Insulation or PROPINK® 77 Loosefill Insulation. GREENGUARD GOLD Certified and certified by SCS to contain a minimum 58 percent recycled content. Verified formaldehyde-free.
6. Air Seal: EnergyComplete® System. Air sealing system to reduce air leakage.
7. Sill Plate Gasket: FoamSealR™ Sill Plate Gasket. Polyethylene foam.

H. Steel Stud Wall System – Option C: Provide the following products by Owens Corning.
1. Continuous Insulating Sheathing: Foamular® XPS, R-value of R-5 per inch.
   a. GREENGUARD GOLD Certified, minimum 20 percent recycled content.
2. Housewrap: PINKWRAP® Housewrap. UV resistant, fire resistant, vapor permeable, translucent.
3. Construction Tape: JointSealR® Foam Construction Tape. Foam construction tape coated with acrylic adhesive, adheres to XPS insulation.
4. Flashing Tape: FlashSealR® Foam Flashing Tape. Complies with AAMA 711-07, adheres to XPS insulation.
5. Insulation in Stud Cavity: EcoTouch® PINK® FIBERGLAS™ Batt Insulation or PROPINK® EcoTouch® PINK® FIBERGLAS™ Batt Insulation or PROPINK® 77 Loosefill Insulation. GREENGUARD GOLD Certified and certified by SCS to contain a minimum 58 percent recycled content. Verified formaldehyde-free.
6. Air Seal: EnergyComplete® System. Air sealing system to reduce air leakage.
7. Sill Plate Gasket: FoamSealR™ Sill Plate Gasket. Polyethylene foam.

I. SIPS Panel Wall System – Option A: Provide the following products by Owens Corning.
1. SIPS Panels: SIPS with Foamular® XPS inside, R-value of R-5 per inch. GREENGUARD GOLD Certified, minimum 20 percent recycled content.
2. Housewrap: PINKWRAP® Housewrap. UV resistant, fire resistant, vapor permeable, translucent.
3. Construction Tape: JointSealR® Foam Construction Tape. Coated with acrylic adhesive, adheres to XPS insulation.
4. Sill Plate Gasket: FoamSealR™ Sill Plate Gasket. Polyethylene foam.

J. SIPS Panel Wall System – Option B: Provide the following products by Owens Corning.

1. SIPS Panels: SIPS with Foamular® XPS inside, R-value of R-5 per inch. GREENGUARD GOLD Certified, minimum 20 percent recycled content.
2. Housewrap: PINKWRAP® Housewrap. UV resistant, fire resistant, vapor permeable, translucent.
3. Construction Tape: BILD-R-TAPE® Construction Tape. Resistant to mildew, mold growth, UV.
4. Sill Plate Gasket: FoamSealR™ Sill Plate Gasket. Polyethylene foam.

K. Concrete Masonry Unit Wall System: Provide the following products by Owens Corning.
1. Continuous Insulating Sheathing: Foamular® XPS, R-value of R-5 per inch. GREENGUARD GOLD Certified, minimum 20 percent recycled content.
2. Construction Tape: JointSealR® Foam Construction Tape. Coated with acrylic adhesive, adheres to XPS insulation.
3. Flashing Tape: FlashSealR® Foam Flashing Tape. Complies with AAMA 711-07, adheres to XPS insulation.

**PART 3 - EXECUTION**

**3.1 EXAMINATION**

A. Examine the areas and conditions under which work of this section will be installed. Do not proceed with installation until unsatisfactory conditions have been corrected.

**3.2 INSTALLATION**

A. Comply with manufacturer's written instructions applicable to each product. Install products in proper relationship with each other and adjacent construction. Restore or replace damaged components.

**3.3 PROTECTION**

A. Protect installed products from damage due to harmful weather exposures, physical abuse, and other causes. Provide temporary coverings or enclosures where insulation is subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.

END OF SECTION

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