ENERGY STAR QUALIFIED HOMES VERSION 3

The goal of the ENERGY STAR for New Homes program is to help homebuyers easily identify homes that are significantly more energy efficient than standard construction in the marketplace. Over time, as mandated code requirements have become more rigorous and builder standard practices have become more efficient, EPA has periodically modified the ENERGY STAR guidelines for new homes to ensure that homes that earn the label continue to represent a meaningful improvement over non-labeled homes.

This guide provides an overview of the Owens Corning building materials that will assist home builders in meeting the various new requirements in Energy Star Qualified Homes version 3.

For more information call 1-800-GET-PINK®.

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Owens Corning Energy Star Homes Product Guide

HOW YOU CAN MAKE THE GRADE

ENERGY STAR QUALIFIED HOMES, VERSION 3.0

OWENS CORNING®
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HOW OWENS CORNING CAN HELP YOU MAKE THE GRADE

CHECKLIST	ENERGY STAR REQUIREMENT	OWENS CORNING PRODUCT
NATIONAL REQUIREMENT	**Infiltration rates shall be less than or equal to the following values:** **ACH 50 Climate Zone** 6 1,2 5 3,4 4 5,6,7 3 8	EnergyComplete™ System with Flexible Seal Technology
THERMAL ENCLOSURE SYSTEM	**Section 2 Quality Installed Insulation** 2.1 Ceiling, wall, floor, and slab insulation levels shall meet or exceed 2009 IECC levels 2.2 All ceiling, wall, floor, and slab insulation shall achieve RESNET-defined Grade I installation or, alternatively, Grade II for surfaces with insulated sheathing	Owens Corning™ insulating products provide a range of R-values and applications to meet & exceed all code and Energy Star requirements. • EcoTouch® attic, walls and floor insulation, L77, **PRO**PINK Complete™ or AttiCat® blown in fiberglass insulation • EnergyComplete™ System with Flexible Seal Technology • FOAMULAR® rigid exterior wall insulation • PINK*WRAP*® housewrap • Grade I installation tool for batts.
THERMAL ENCLOSURE SYSTEM	**Section 3 Fully-Aligned Air Barriers:** Complete air barrier provided Use of tabbed baffle in attic eaves to prevent windwashing	• EnergyComplete™ System with Flexible Seal Technology • raft-R-mate® Attic Rafter Vents
THERMAL ENCLOSURE SYSTEM	**Section 4 Reduced Thermal Bridging** 4.1 Uncompressed insulation in attic extends to inside face of exterior wall below: Climate Zone 1 - 5 >/= R21 Climate Zone 6 - 8 >/= R30 4.2 Slab on grade in Climate Zone 4+, 100% of slab edge >/= R-5 4.4.1 Reduced thermal bridging at above-grade walls through the use of continuous rigid insulation.	• EcoTouch® PINK® Fiberglas™ Thermal Batts & Rolls with PureFiber® Technology—R-21 and R-30C used to provide required R value in attic spaces at the inside face of the exterior wall below • FOAMULAR® Rigid foam wall and foundation insulation
THERMAL ENCLOSURE SYSTEM	**Section 5 Air sealing:** Fully seal all penetrations to unconditioned space (sect. 5.1), cracks in the building envelope (sect. 5.2) and other openings (sect. 5.3)	• EnergyComplete™ System with Flexible Seal Technology
HVAC SYSTEM QUALITY INSTALLATION	**Section 3 Duct Insulation** 3.2 Supply ducts in unconditioned attics shall have insulation >/= R-8': (prescriptive path), >/= R6 (performance path) 3.3 All other ducts in unconditioned space shall have insulation >/= R-6	• Flexible Duct with EcoTouch® Insulation, QuietR® Duct Board and duct wrap products meet all requirements for insulated ductwork.
HVAC SYSTEM QUALITY INSTALLATION	**Section 4 Duct Leakage** 4.1 Total duct leakage </= 8 CFM25 per 100 sf of conditioned floor area 4.2 Duct leakage to outdoors </= 4 CFM25 per 100 sf of conditioned floor area	• Flexible Duct with EcoTouch® Insulation, QuietR® Duct Board installed with UL181A approved tape or mastic closure system
WATER MANAGEMENT	**Section 1 Water-Managed Site and Foundation** 1.3 Capillary break beneath all slabs	• FOAMULAR® rigid foam insulation
WATER MANAGEMENT	**Section 2.2 Water-managed wall assembly** 2.2 Fully sealed continuous drainage plane behind exterior cladding that laps over flashing	• FOAMULAR® sheathing w/taped joints or PINK*WRAP*® housewrap with taped joints
WATER MANAGEMENT	**Section 3.3 Water-Managed Roof Assembly** 3.3 Self-sealing bituminous membrane or equivalent at all valleys and roof deck penetrations 3.4 Climate Zones 5+, self-sealing bituminous membrane or equivalent over sheathing at eaves from edge of roof line to >2ft up roof deck from interior plane of the exterior wall	• WeatherLock® Flex Flexible Self-Sealing Ice & Water Barrier; WeatherLock® Specialty Tile & Metal underlayment and the full line of WeatherLock® products, other ROOFING ESSENTIALS® accessory products