OWENS CORNING AND THE CALIFORNIA 2019 GREEN BUILDING STANDARDS CODE

Owens Corning's building science expertise and product solutions are backed by over 70 years of building industry experience. From inventing new technologies to turning those innovations into industry transforming products and solutions, we can help you meet the challenges of green building.

CALGreen is a mandatory green building standard applying to all structures built in California permitted on or after January 1, 2011. CALGreen is part of Title 24 and focuses on measured improvements in planning and design, energy efficiency, water efficiency and conservation, material conservation and resource efficiency and environmental quality.

CALGreen includes a checklist that requires builders to adhere to an initial set of 28 mandatory items. Should a jurisdiction or builder wish to adopt more stringent standards, two optional Tiers have been created offering increased energy and resource savings.

Owens Corning building products assist residential builders to meet key CALGreen requirements in a cost effective manner. For more information call 1-800-GET-PINK.®

CALGREEN PRODUCT GUIDE
HELPING YOU MEET THE STANDARD

CALIFORNIA 2019 GREEN BUILDING STANDARDS CODE

OWENS CORNING CAN HELP MEET CALGREEN

CATEGORY AND DESCRIPTION	MANDATORY / ELECTIVE	TIER 1	TIER 2	OWENS CORNING PRODUCT APPLICATIONS
4.1 PLANNING AND DESIGN		In addition to General mandatory measures, builder must comply with Tier 1 mandatory measures and choose 2 elective measures from section 4.1	In addition to General mandatory measures, builder must comply with Tier 2 mandatory measures and choose 4 elective measures from section 4.1	
A4.106.5 Roofing materials 3 year aged solar reflectance and thermal emittance equal to/exceeds Tables A4.106.5.1 (1), or (2), or (3), or (4)	Elective	Tier 1 roof covering shall meet or exceed the values in Tables A4.106.5.1 (1) Low-Rise Residential , and A4.106.5.1 (3) High-Rise Residential	Tier 2 roof covering shall meet or exceed the values in Tables A4.106.5.1 (2) Low-Rise Residential , and A4.106.5.1 (4) High-Rise Residential	Cool Roof Shingles – Harbor Fog, Frosted Oak, Sunrise and Sage in Duration® Premium Cool; Shasta White in Classic®, Supreme®, Oakridge®, and TruDefinition® Duration®, Tier 1 Duration® Premium COOL (Frosted Oak, Harbor Fog, Sage, Sunrise), TruDefinition® Duration® COOL (Forest Brown, Mojave, Mountainside, Summerwood), TruDefinition® Duration® (Amber, Antique Silver, Oyster Shell, Shasta White, Sierra Gray), Oakridge® (Amber, Oyster Shell, Sand Castle, Shasta White, Sierra Gray), Supreme® (Amber, Aspen Gray, Shasta White), Tier 2 Duration® Premium COOL (Frosted Oak, Harbor Fog, Sage, Sunrise), TruDefinition® Duration® (Shasta White), Oakridge® (Shasta White), Supreme® (Shasta White)
4.2 ENERGY EFFICIENCY		In addition to General mandatory measures, builder must comply with Tier 1 mandatory measures and comply with 4 elective measures from section 4.2	In addition to General mandatory measures, builder must comply with Tier 2 mandatory measures and choose 6 elective measures from section 4.2	
4.201.1 Low-rise residential shall meet Title 24, Part 6; exceed it for Tiers 1 or 2	**MANDATORY**	Builder must exceed Title 24, Part 6 by 15%, increased envelope sealing and insulation systems, insulated ductwork, energy efficient windows and cool roofs are among the best and cost effective methods help builder get to 15%	Builder must exceed Title 24, Part 6 by 30%, increased envelope sealing and insulation systems, insulated ductwork, energy efficient windows and cool roofs are among the best and cost effective methods help builder achieve this level of energy efficiency	The following Owens Corning products contribute to meeting the Tier 1 and Tier 2 requirements of the California Building Energy Efficiency Standards: EcoTouch® PINK® Fiberglas™ blanket insulation, **PRO**PINK® Loosefill Fiberglas™ insulation, FOAMULAR® Extruded Polystyrene board insulation, QuietR® Duct Wrap, QuietR® Duct Board and COOL Roof Shingles
4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY		In addition to General mandatory measures, builder must comply with Tier 1 mandatory measures and choose 2 elective measures from section 4.4	In addition to General mandatory measures, builder must comply with Tier 2 mandatory measures and choose 4 elective measures from section 4.4	
A4.403.1 Frost protected shallow foundation (FPSF) is designed and constructed	Elective	Elective	Elective	FOAMULAR® XPS foam is specified for frost protection
A4.405.3 Use materials with post-consumer or pre-consumer recycled content value (RCV) for a minimum of 10 or 15 percent of the total value, based on estimated cost of materials on the project.	Elective	Not less than 10% post or pre-consumer recycled content value (RCV)	Not less than 15% post or pre-consumer recycled content value (RCV)	EcoTouch® Insulation minimum 58% (faced) or 65% (unfaced) SCS certified recycled content, 36% (faced) or 41% (unfaced) post-consumer, Heavy density Fiberglas™ Insulation and air handling products have 57% SCS certified Pre-consumer recycled content; FOAMULAR® minimum 20% SCS certified Pre-consumer recycled content
4.406.1 Enhanced Durability and Reduced Maintenance: Seal joints and openings (spaces around pipes, electric cables, conduits or other) to protect against passage of rodents	**MANDATORY**	**MANDATORY**	**MANDATORY**	FOAMULAR® XPS Insulation provides thermal protection and air infiltration control
A4.407.5 Water Resistance and Moisture Management: Climate Zone 16, provide ice/water barrier at roof valleys and wall to roof intersections	Elective	Elective	Elective	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
4.408.1 Waste Management: Minimum 50% construction waste generated diverted or recycled; A4.408.1 Higher percentages of construction waste diverted or recycled	**MANDATORY** 50% construction waste diverted	65% construction waste diverted	75% construction waste diverted	Shingle Recycling program with Heritage Environmental—California locations coming soon
4.408.2 Waste Management: Construction waste diversion plan required where local jurisdiction has none	**MANDATORY**	**MANDATORY**		Shingle Recycling program with Heritage Environmental—California locations coming soon
4.5 ENVIRONMENTAL QUALITY		In addition to General mandatory measures, builder must comply with Tier 1 mandatory measures and choose 1 elective measures from section 4.5	In addition to General mandatory measures, builder must comply with Tier 2 mandatory measures and choose 1 elective measures from section 4.5	
4.504.2.4 Documentation provided to prove low VOC	**MANDATORY**	**MANDATORY**	**MANDATORY**	A wide range of Owens Corning® products carry the GREENGUARD and GREENGUARD GOLD certifications; EcoTouch® Fiberglas™ Insulation and L77, Flexible duct with EcoTouch® Insulation, PROPINK Complete™, ProCat™ and AttiCat® Loosefill Insulation are all verified to be formaldehyde-free by ULEnvironment Institute. For additional certification for Owens Corning products, Please visit ULE website (http://productguide.ulenvironment.com/SearchResults.aspx?BrandID=367&pageNumber=2)
A4.504.3 Thermal insulation installed meets low VOC for CHPS contains no added formaldehyde	Elective	Thermal Insulation installed meets low VOC defined in Collaborative for High Performance Schools (CHPS) Low-emitting Materials List	Thermal Insulation installed contains no added formaldehyde and compliant with VOC-emission limits defined in Collaborative for High Performance Schools (CHPS) Low-emitting Materials List	A wide range of Owens Corning® products carry the GREENGUARD and GREENGUARD GOLD certifications; FOAMULAR® XPS Foam Insulation is made without formaldehyde; EcoTouch® Fiberglas™ Insulation and L77, Flexible duct with EcoTouch® Insulation, PROPINK Complete™, ProCat™, and AttiCat® Loosefill Insulation are all verified to be formaldehyde-free by UL Environment Institute
4.505.2.1 Vapor retarder and capillary break on slab on grade foundations	**MANDATORY**	**MANDATORY**	**MANDATORY**	FOAMULAR® XPS foam is used under slab as a capillary break, vapor retarder and offers thermal protection

*Insulation Only