



Sustainable Construction Guide



One Planet. Many Solutions. One Source.

Carlisle Construction Materials (CCM) is a diversified manufacturer and supplier of premium building products for the commercial and residential construction markets. Carlisle has been a recognized leader in the roofing industry for nearly a half century, offering high-performance single-ply roofing solutions that include EPDM, TPO, PVC and roof garden systems with industry-leading warranties. Carlisle also offers a full line of polyiso and expanded polystyrene insulation as well as a host of high-performance, steep-slope underlayments. In addition to roofing, CCM divisions service the waterproofing, HVAC, framing and general construction industries. Every Carlisle company offers sustainable, eco-friendly products that help reduce a building's carbon footprint, and often minimize its energy consumption and costs.



Carlisle SynTec Systems

Carlisle SynTec offers the widest variety of energy-saving roofing options in the industry. From its highly reflective Sure-Weld® TPO, Sure-Flex™ PVC and Sure-White™ EPDM membranes to its Sure-Seal® EPDM and RoofGarden™ options, Carlisle has a sustainable solution for any roofing situation. These systems are complemented with a full line of labor-saving accessories that result in faster installations and less wasted material. For more information call 800-479-6832 or visit www.carlisesyntec.com.

Sure-Weld TPO

- Highly reflective white or tan membrane reduces air conditioning costs
- ENERGY STAR®-qualified
- Cool Roof Rating Council (CRRC) listed
- California's Title 24 and LEED® compliant
- Over two billion square feet installed

Sure-Seal EPDM

- Over 50 years of proven performance
- Sustainable membrane with warranty terms up to 30 years
- Ballasted systems provide cool-roof benefits
- Ballast and membrane are recyclable
- Reduces heating costs in cooler climates

Sure-White EPDM

- Requires no special tools or heat welding equipment
- ENERGY STAR-qualified, California's Title 24 and LEED compliant

- 25-year proven history of performance
- CRRC listed
- Highly reflective membrane reduces air conditioning costs

Sure-Flex PVC

- Widest selection of PVC membranes in the industry
- ENERGY STAR-qualified, CRRC listed and California's Title 24 compliant
- Enhanced property characteristics for long-term weatherability
- Elvaloy® KEE-enhanced and FleeceBACK® membranes available

Skylights and Daylighting

- Reduce energy costs
- Improves student achievement and increases retail sales
- Quick return on investment (ROI)
- SunPath™ tubular and SunWeld™ traditional skylights available

RoofGarden Systems

- Aids in stormwater management
- Protects roofing membrane from UV exposure and temperature fluctuations
- Shallow, medium and deep assemblies
- Growth media offers additional insulating qualities
- Single-source warranties for membrane and vegetation

RoofSense Lifecycle Software

- Web-based program calculates potential energy savings from an energy-efficient roof design for 10, 20 or 30 years
- Benchmarked against third-party energy calculators
- Offers optimal R-value for best energy performance
- Suggest most appropriate roof color (dark or reflective) based on building location
- Considers installation and maintenance costs as well as building type and energy sources when making recommendations

Solutions. One Source.

Carlisle Coatings and Waterproofing

Carlisle Coatings and Waterproofing Incorporated (CCW) serves the commercial construction market by providing systems that prevent moisture and water penetration into the building envelope, creating high-performance structures that provide owners with low lifecycle costs and long-term protection. For more information contact CCW at (800)-527-7092 or visit www.carlisleccw.com.

Air & Vapor Systems

- Create an airtight building envelope that results in a healthier indoor environment
- Provide up to 6% savings in annual HVAC energy consumption
- Reduce humidification/dehumidification requirements
- Helps reduce and/or eliminate mold infestation
- Enables optimal performance of insulation
- Extends building's service life and consequently reduces lifecycle costs and waste

- Fire Resist air & vapor barrier products provide enhanced resistance to high temperatures and flames

Waterproofing Systems

- A wide variety of systems provides premium waterproofing protection for virtually any job, whether above- or below-grade
- Blindsight waterproofing membranes provide easy application for waterproofing against soil retention systems in horizontal and vertical applications



Green Roofs

- Provide superior insulating properties
- Minimize stormwater runoff
- Reduce air pollution and the heat-island effect

Carlisle HVAC Products

Carlisle HVAC Products encompasses the Hardcast brand of Duct Sealants, the DynAir brand of Duct Hardware, and the Nexus brand of Duct Flange Connecting System. They're not only a one-stop shopping source for the contracting community; they're also a leading pioneer in the HVAC sealant industry, setting new standards with the Spray-Seal™ Mobile Duct Sealant Delivery System and the ISAAC™ Robotic System. From energy-efficient rolled sealants to innovative, laborsaving spray sealant systems, Carlisle HVAC Products offers solutions that can increase the efficiency and indoor air quality (IAQ) of your building, while minimizing operating costs. For more information contact Carlisle HVAC Products at (877) 495-4822 or visit www.CarlisleHVAC.com.

Adhesives & Sealants

- Rolled duct sealants
- Liquid mastic duct sealants
- Zero VOC products
- Meet SMACNA pressure and seal class standards
- Mold and mildew resistant
- USDA, FDA and EPA approved

Hardware

- Minimize leakage
- Precise airflow control
- Increase energy efficiency
- Improve IAQ
- User-friendly products
- Reduce noise vibration
- Available in G-90 steel and stainless steel



Insulfoam

Insulfoam is the largest provider of engineered expanded polystyrene (EPS) insulation in North America. Offered under the InsulFoam® and R-Tech® brands, these versatile, energy-efficient products are used for roof insulation, wall and sheathing systems, foundation and slab insulation, geofoam applications, OEM garage doors and various other building and construction applications. For more information contact Insulfoam at (800)-248-5995 or visit www.insulfoam.com.

EPS Insulation

- 100% recyclable
- Can contain up to 25% recycled material
- Can contribute towards LEED credits
- Can reduce global warming
- ENERGY STAR qualified
- Stable R-value backed by a 20-year thermal warranty
- Contains no CFCs, HCFCs or formaldehyde
- Treated products are insect, mold and mildew resistant
- Does not leach toxic chemicals or heavy metals
- Does not create decomposition gases
- Does not create decomposition





Hunter Panels

Hunter Panels manufactures a full line of energy-efficient polyisocyanurate insulation panels including flat, tapered, composites, nailable and vented nailbase. Polyiso is one of the leading insulating materials on the market today in terms of thermal efficiency and range of applications in the building industry. It can be installed on both commercial and residential structures, on the roof or in the wall. Polyiso is lightweight, cost effective and provides time-honored return on investment with energy savings. For more information contact Hunter Panels at (888)-746-1114 or visit www.hpanels.com.

Hunter Polyiso Products

- Highest R-value per inch of any insulation
- EPA Compliant - Zero ODP expansion agents used
- CFC- and HCFC-Free (ODP) expansion agents used
- Post-industrial recycled content
- Superior fire resistance: FM Class 1 and UL Class A rated
- Can contribute toward LEED credits
- Forest Stewardship Council approved wood products available
- ENERGY STAR qualified



Premier Building Systems

Premier Building Systems is North America's largest manufacturer of Structural Insulated Panels (SIPs). An ideal alternative to traditional stick-frame construction, Premier SIPs offer builders and homeowners one of the most innovative, environmentally friendly building products on the market. By using Premier SIPs, builders benefit from a stronger product that offers significant labor savings and the potential for green building tax credits. Homeowners benefit by utility savings of up to 60%, significant tax credits, environmental certifications, better indoor air quality, straighter walls, and a much stronger structure. For more information contact Premier Building Systems at (253)-926-2020 or visit www.premierindustries.com.

SIPs

- Lower utility bills
- Better indoor air quality with reduced wall, roof and floor leaks
- Stronger than stick-frame construction
- Straighter, consistent product offers reduced builder call backs
- Environmental protection by conservation of fuel used for heating and cooling
- Dramatic reduction of pollutants from burning fuels like natural gas, oil and coal
- Significant reduction of air and moisture penetration
- Tighter homes that trap airborne pollutants such as odors, molds and bacteria
- OSB, a primary component of Premier SIPs is manufactured with minimal impact on the environment
- SIPs are recyclable
- 58% greater whole wall efficiency than standard 2x6 R-19 Construction
- Large contributor toward LEED certification, BuiltGreen Program & NAHB Green Building Guidelines Approval
- ENERGY STAR qualified
- SIP panels reduce the waste created by standard, stick-frame methods by up to 60%
- NAHB Green Building Guideline approval
- BuiltGreen™ program approval
- Federal tax credits available for environmentally friendly and energy-efficient construction and design



Carlisle WIP Products

Carlisle WIP Products manufactures high-performance underlayments and flashing that provide superior waterproofing protection for virtually any residential or commercial application. Carlisle's Water & Ice Protection (WIP®) self-adhering roofing underlayments offer premium protection against water and ice damming while EZ-Flash® provides excellent moisture and air leakage protection around openings and over joints/cracks and similar details. Carlisle WIP Products provides an ideal solution for roofing, waterproofing and flashing applications, offering long-term performance and efficiency. For more information on Carlisle WIP Products products and services, call (800)-211-7170 or visit www.carlislewip.com.

WIP Underlayments

- Strong, high-performance membranes designed for use on critical roof areas such as eaves, ridges, valleys, dormers and skylights
- Quick and easy application with split-release film
- Premium waterproofing protection with enhanced resistance to water and ice damming
- Withstands severe weather conditions

EZ-Flash

- Provides a seal around fasteners and penetrations to prevent leaks
- Simple peel-and-stick application saves time and labor
- Resists mechanical damage
- Easy to install, inspect and repair
- Can be installed on concrete, masonry, gypsum, steel and wood substrates