

Sustainable Construction Guide



One Planet. Many Solutions. One Source.



Carlisle SynTec

Carlisle SynTec is committed to improving the environment, that's why it offers the widest variety of energy-saving, cool roofing options in the industry. From its highly reflective Sure-Weld® TPO, Sure-Flex™ PVC and Sure-White™ EPDM membranes to its wide array of RoofGarden™ options, Carlisle has a solution for any roofing situation. All these systems are complemented with a full line of laborsaving accessories that result in faster installations, less wasted material and fewer system failures. For more information contact Carlisle SynTec at (800)-4-SYNTEC or www.carlisle-syntec.com

Sure-Weld TPO

- Highly reflective white or tan membrane for cool-roof applications
- ENERGY STAR® certified
- Cool Roof Rating Council (CRRC) listed
- California's Title 24 and LEED® compliant
- Over one billion square feet installed

Sure-Seal EPDM

- Sustainable membrane with warranty terms up to 30 years
- Ballasted systems provide economical reflectivity
- Ballast and membrane are recyclable
- Over 45 years of proven performance

Sure-White EPDM

- Requires no special tools or heat welding equipment
- ENERGY STAR certified
- California's Title 24 and LEED compliant
- Factory-Applied Tape (FAT™) seam technology
- 20-year proven history of performance
- CRRC listed

Sure-Flex PVC

- ENERGY STAR certified
- CRRC listed and California's Title 24 compliant
- Enhanced property characteristics for long-term weatherability

RoofGarden Systems

- Aesthetically pleasing while adding usable space
- Aids in stormwater management
- Protects roofing membrane from ultraviolet radiation and extreme temperature fluctuations
- Natural air purification through vegetation
- Shallow, medium and deep assemblies for a variety of vegetative options
- Growth media offers additional insulating qualities
- Single source provides roof membrane and roof garden accessories



Carlisle Energy Services

Carlisle Energy Services provides grid-connected, solar-generated electricity solutions for the roofing and landfill industries. From photovoltaic (PV) modules and combiner boxes to inverters and monitoring systems, to landfill closure systems, Carlisle Energy Services offers a variety of comprehensive solutions for superior solar energy production. Carlisle PV systems combine technologies from leading-edge PV suppliers with unmatched experience and long-term performance in manufacturing single-ply membranes. For more information contact Carlisle Energy Services at 800.479.6832, email info@CarlisleEnergy.com or www.CarlisleEnergy.com

Spectro360™:

- No rooftop penetrations
- Self-tracking panels cover more roof surface without spacing or tilting
- Accelerated installation
- Optimized design for wind, snow loads and rooftop obstructions
- Reflective roofing membrane enhances energy production by up to 20%

SpectroFlex™:

- Lightweight
- No rooftop penetrations
- Glass-free and durable
- Superior wind uplift performance
- Low-light operation and reduced high-temperature sensitivity

Polycrystalline PV Panels:

- 30+ year history of proven commercial performance
- Highest efficiency modules on the market
- Flat or sloped rooftop applications

Spectro PowerCap™:

The Dual-Purpose Landfill Closure System

- Superior environmental protection
- Produces green, renewable energy
- Reduces Greenhouse Gas (GHG) emissions
- Integrates with other landfill renewable energy sources
- A visually appealing reinforcement of green thinking
- Conforms to the dynamic & changing landscape of the landfill
- A sustainable reuse of land
- The most cost-effective electricity solution in the solar industry

Solutions. One Source.

Carlisle Coatings and Waterproofing

Carlisle Coatings and Waterproofing™ (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 Carlisle Coatings and Waterproofing at (800)-527-7092 or www.carlisle-ccw.com.

Green Roofs

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

Deck Coatings

- 100% solid deck coating system Eco-Fast™ with zero VOC off-gassing

Air & Vapor Systems

- Creates an airtight building envelope that results in a healthier indoor environment
- Provides up to 6% savings in annual HVAC energy consumption
- Reduces 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



Hardcast

Hardcast® manufactures HVAC duct accessories that support the efficient operation of a structure's heating and cooling equipment. From a full line of duct hardware to LEED compliant sealants and insulation adhesives, Hardcast offers a product that is proven to increase the performance and efficiency of a building's heating and cooling equipment. Every Hardcast product is manufactured to exceed the highest performance and quality standards and is third-party tested to verify quality. For more information contact Hardcast at (800)-527-7092 or www.hardcast.com.

Elastomeric Rolled Duct Sealants

- UL 181 B-FX Listed (Foil-Grip™ 1403-181BFX)
- Meets California HERS/CHEERS (Foil-Grip 1403-181BFX)
- LEED Compliant SCAQMD Rule 1168
- Zero VOC
- Meets SMACNA Pressure and Seal Class Standards
- Mold and Mildew Resistant

Insulation Adhesives

- Water-based formula
- LEED Compliant SCAQMD Rule 1168
- Mold and Mildew Resistant

Liquid Mastic Duct Sealants

- Water-based formula
- LEED Compliant SCAQMD Rule 1168
- USDA, FDA and EPA Approved
- Meets SMACNA Pressure and Seal Class Standards
- Mold and Mildew Resistant

HVAC Duct Hardware

- Minimizes Leakage
- Precise Airflow Control
- Increases Energy Efficiency



Insulfoam

Insulfoam is the largest provider of block-molded expanded polystyrene (EPS) in North America with 12 strategically located manufacturing facilities. 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.

EPS Insulation

- 100% recyclable
- Can contain up to 25% recycled material
- Qualifies for LEED certification credits
- ENERGY STAR approved
- 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
- Excellent jobsite durability





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 its 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 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
- Qualifies for LEED certification credits
- Forest Stewardship Council approved wood products available
- ENERGY STAR rated



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 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's SIP panels, manufactured with minimal impact on the environment
- SIP panels are recyclable
- 58% greater whole wall efficiency than standard 2x6 R-19 Construction
- Large contributor towards LEED certification, BuiltGreen Program & NAHB Green Building Guidelines Approval
- ENERGY STAR approved
- SIP panels reduce the waste created by standard, stick-frame methods by up to 60%
- National Association of Home Builders (NAHB) Green Building Guideline approval
- BuiltGreen™ program approval
- Federal tax credits available for environmentally friendly and energy-efficient construction and design



Carlisle Residential

Carlisle Residential 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 Residential provides an ideal solution for roofing waterproofing and flashing applications, offering long-term performance and efficiency. For more information on Carlisle Residential products and services, call 800.211.7170 or visit www.carlisleresidential.com.

WIP Underlayments

- Strong, high-performance membranes designed for use on critical roof areas such as eaves, ridges, valleys, dormers and skylights
- Easy application with split-release liner or siliconized 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