

Edge To Edge Warranty Protection



Are YOU Value-Engineering Your Liability?

All components in a roofing system impact one another. Utilizing compatible components that are approved by the roofing system manufacturer protects the building owner from unnecessary liability. Many component manufacturers offer warranties that are not tied to the roofing system manufacturer's warranty. These generic warranties can lead to finger-pointing in the event of a roof leak, which can lead to litigation. Single-Source warranties are only available from roof system manufacturers like Carlisle. In the event of a roof leak, a single company issues the warranty for all roofing system components and is the single point of contact for repairs.

Carlisle has over 60 years of experience in the commercial roofing industry. This extensive experience has allowed us to establish a trusted and respected brand name that backs our superior products, remarkable service, and groundbreaking innovations with 20-to-30-year warranties on most Carlisle-supplied products.





Edge Metal

WHY EDGE METAL?

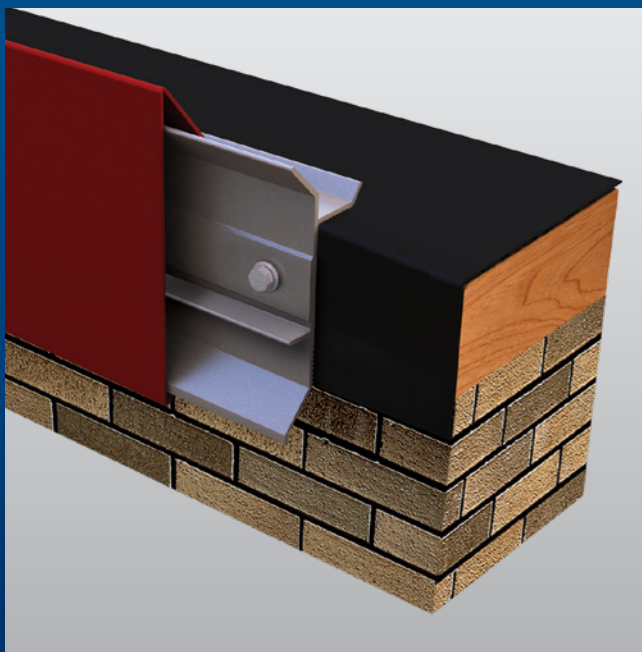
- » Roofs first line of defense against wind.
- » Almost all high wind low-slope roof failures begin at the windward edge and a proper edge system design could prevent much damage.
- » Effective termination and transition between the roof and other building components.
- » Aesthetic feature to the building exterior.
- » The roof is 10% of a total building cost, perimeter edge is typically 1% of the building cost. **However, 60% of roof failures are due to metal edge failures in high wind events!**

WHY CARLISLE?

- » Ensure compliance with ES-1 which has been an IBC requirement since 2003.
- » Most prefabricated systems are also FM approved.
- » Guaranteed performance covered under total system roofing warranty for up to 30 years and windspeeds up to 120mph based on profile.
- » Finish warranties available up to 30 years.
- » Prefinished painted steel/aluminum, and TPO/PVC clad available.
- » Prefabricated and shop fabricated system offerings.

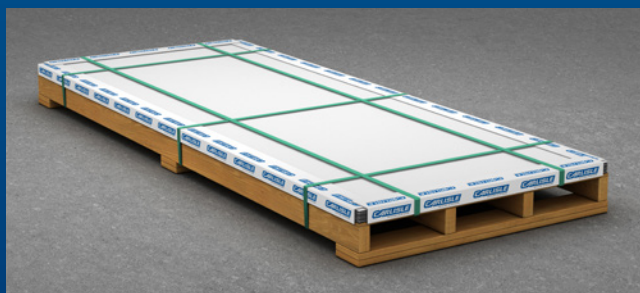
Prefabricated System

- » Warranty terms up to 30 years and windspeeds up to 120mph.



Shop Fabricated System

- » Warranty terms up to 20 years and windspeeds up to 72mph.
- » ES-1 compliance dependent upon contractor's certification status.



For more information on Carlisle's Edge Metal Systems, scan here:





Prefabricated Cleat with Shop Fabricated Cover

- » Warranty terms up to 20 years and windspeeds up to 90mph.
- » Galvanized and extruded aluminum cleats available in multiple sizes.



Roof Gardens

WHY ROOF GARDENS?

- » Provides physical protection to underlying roof system.
- » Actively manages stormwater through absorption, retention, and detention of precipitation.
- » Increases aesthetic appeal.
- » Increases amenity space within the same building footprint.
- » Can be used to comply with stormwater management regulations.
- » Increases biodiversity in urban environments.
- » Reduces the Urban Heat Island Effect
- » Can be used for rooftop farming which reduces carbon emissions from transportation.
- » Provides educational opportunities when installed on schools or universities.



WHY CARLISLE?

- » Dedicated and knowledgeable team can provide product support, design support, and maintenance guidelines.
- » Single-Source supplied materials designed to be used in conjunction with a Carlisle warranted roofing system.
- » Stormwater retention systems approved by various local government agencies meet the most stringent stormwater management requirements.
- » Single-Source Warranties (All products must be purchased through Carlisle to be eligible.):
 - No charge Overburden Removal Warranties for Modular Roof Garden Systems.

Overburden Removal Warranties for Traditional Roof Garden Systems

Duration	Cost	Minimum Charge
10 Years	\$0.20/ft ²	\$2,000
15 Years	\$0.25/ft ²	\$2,500
20 Years	\$0.30/ft ²	\$3,000

Warranty costs limited to 12" of overburden.

For overburden depths greater than 12", an additional \$0.01/ft² per inch of overburden will be added to the standard cost.



Carlisle's Wide Variety of Product Offerings

Traditional Systems

- » Traditional systems offer the most design flexibility as they are not restricted to a specific shape. Nearly any vegetation planted at ground level can be planted on the roof.
- » Carlisle manufactures or sources all components needed for a traditional system, including:
 - Protection Fabric
 - Root Barrier
 - Needled Mineral Wool Retention & Filtration Mat
 - Drainage Composites
 - Engineered Growth Media – Extensive, Intensive, and Agricultural blends available
 - Vegetation – Plugs, Sedum Mats, Sedum Tiles

FEATURED PRODUCT **MiraDRAIN® G4** **Drainage Composite**

Carlisle's MiraDRAIN G4 Drainage Composite combines filter fabric, moisture retention mat, drainage mat, and heavy-duty protection fabric into a single, easy-to-apply product specifically designed for vegetated roofs.



Tray Systems

- » Tray systems are self-contained systems that arrive fully vegetated and allow for quick and easy installation.
 - Hydropack
 - 23.675" x 15.75" (2.58 square feet/module)
 - 4" deep



- GreenGrid G5
 - 24" x 24" (4 ft²/module)
 - Available Depths: 2.75", 4", 6", 8"



Paver Systems

WHY PAVERS?

- » Provides physical protection to underlying roof system.
- » Increases building's aesthetics.
- » Creates functional amenity space that can be easily added without increasing the building's footprint.
- » Increases property value.
- » Numerous material, color, and size possibilities.

WHY CARLISLE?

- » Partnerships with industry-leading manufacturers to source the complete system, including fixed and adjustable height pedestals.
- » No charge 10-year material warranty.

- » Single-Source supplied materials designed to be used in conjunction with a Carlisle warranted roofing system.
- » Single-Source Overburden Removal Warranties (All products must be purchased through Carlisle to be eligible.):

Overburden Removal Warranty Fees for Paver Systems

Paver area < 10,000 ft ²	\$1,000
Paver area ≥ 10,000 ft ² and < 20,000 ft ²	\$1,500
Paver area ≥ 20,000 ft ²	\$3,000

Note: Paver overburden warranty fees are based on total overburden area for the project. The fees listed are applicable for any duration up to 20 years, limited by the roof system warranty duration.

Warranty fees are limited to 12 inches of overburden thickness, including drainage layers, insulation, etc. For overburden thicknesses greater than 12 inches, an additional \$0.01/ft²/inch of overburden depth will be added to the standard fee.

Concrete

- » Greatest Compressive Strength
- » Most Resistant Against Wind Uplift
- » Widest Variety of Design Possibilities



Rubber

- » Light Weight
- » Interlocking Design
- » Cushioned/Shock Absorbing





For more information on
Carlisle's Roof Garden and
Paver Systems, scan here:



Porcelain

- » Anti Slip
- » Stain and Chemical Resistant
- » Exceptionally Resistant to Weathering Effects



Wood

- » Natural Look
- » Permeable
- » Sustainably Sourced/Harvested



Skylights

WHY SKYLIGHTS?

- » Engineered to capture maximum amounts of daylight which results in energy conservation and cost savings.
 - Typical cost savings for a building incorporating skylights compared to solely fluorescent lights is over 50%.
 - Creates even light distribution.
- » Building occupants receive increased health benefits associated with natural light.
 - All living beings need exposure to the visible radiant energy within natural light for biological optimization. Technically designed skylights provide the right qualities to satisfy basic biological needs.
 - Other benefits include shorter hospital stays and reduced use of pain medication for surgical patients, increased productivity in offices, and increased sales in retail stores.

WHY CARLISLE?

- » Partnerships with innovative manufacturers whose products ensure watertightness and maximum light distribution.



TruGround Conductive Primer

(for use with all quality-control Electronic Leak Detection (ELD) testing methods)

WHY TRUGROUND?

- » Liquid-applied primer that provides the necessary conductive substrate needed for all quality-control electronic leak detection methods.
- » Compatible with all single-ply membranes, including bareback membranes and black EPDM without jeopardizing adhesion.

WHY CARLISLE?

- » Offers the industry's first and most comprehensive Factory Mutual (FM) rated roof assemblies that include Detec's TruGround conductive medium.
- » Included in Carlisle's Total System Warranty when purchased through Carlisle and installed as part of an approved assembly.



Commercial Skylights

- » Included in roofing system warranty up to 20-years leak free and 15 years hail breakage (up to 2" in diameter), dependent on glazing material.
- » FM and Miami-Dade approved options.
- » Variety of dome sizes, shapes, materials, and glazing colors available.
- » Additional accessories like curbs or fall protection cages/screens/bars available.
- » Polycarbonate domes offer maximized strength and impact resistance.
- » SkyCalc analysis available free of charge.



Tubular Skylights

- » Included in roofing system warranty for 10 years.
- » Ideal for use in suspended or hard-ceiling applications.
- » Dimmer systems and electric light kits available.



For more information on Carlisle's warrantable and FM Approved assemblies with TruGround Conductive Primer, scan here:



GRO Synthetic Turf

WHY ROOFTOP SYNTHETIC TURF?

- » Low-maintenance, year-round natural appearance.
- » Hassle-free, environmentally safe roof garden alternative – no need for irrigation, pesticides, or fertilizers.
- » Elevated over membrane on support grates and adjustable pedestals, the system can conceal rooftop fixtures such as cables and drains.
- » Adjustable pedestals allow turf surface to remain level over sloped roof systems.
- » Six turf varieties available including pet-friendly and putting turf options allows for design flexibility.

WHY CARLISLE?

- » All materials supplied by a single-source, ensuring compatibility and warranty compliance.

- » No charge layout assistance and material take-off calculations.
- » No charge material warranty (3-year turf, 10-year tray and pedestal).
- » Single-Source Overburden Removal Warranties (All products must be purchased through Carlisle to be eligible).

Overburden Removal Warranty Fees for GRO Turf System

Turf area < 10,000 ft ²	\$1,000
Turf area ≥ 10,000 ft ² and < 20,000 ft ²	\$1,500
Turf area ≥ 20,000 ft ²	\$3,000

Note: GRO Synthetic Turf overburden warranty fees are based on total overburden area for the project. The fees listed are applicable for any duration up to 20 years, limited by the roof system warranty duration.

Warranty fees are limited to 12 inches of overburden thickness, including drainage layers, insulation, etc. For overburden thicknesses greater than 12 inches, an additional \$0.01/ft²/inch of overburden depth will be added to the standard fee.

Rooftop Solar Mounts

WHY ROOFTOP SOLAR?

- » Great source of clean, renewable energy generation.
- » Roof space is plentiful and often unused making rooftop PV installations attractive.
- » The US Government provides an investment tax credit (ITC) to help lower the cost of installation.
- » Can contribute to lowering the carbon footprint of a building and can contribute towards LEED credits.

WHY CARLISLE?

- » Carlisle is the most user-friendly roofing manufacturer for PV installations, offering clear installation recommendations and requirements to ensure compatibility and maintain warranty compliance.
- » Partnered with leading PV mount suppliers who can provide warranty-approved mounting solutions.
- » Using any of the approved anchors ensures that the flashing is included in Carlisle's watertight warranty.



For more information on Carlisle's GRO Synthetic Turf System, scan here:



Anchor Products U-Anchor 2400

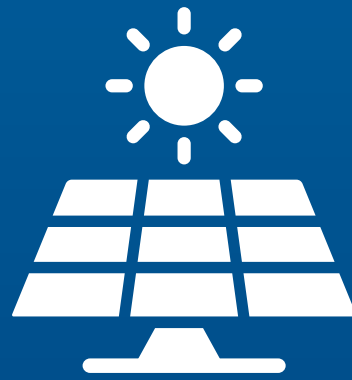
Approved Anchors

- » Solar Skyrack Mount
- » Anchor Products U-Anchor 2400
- » Anchor Products U-Anchor 3400
- » OMG PowerGrip Plus
- » OMG PowerGrip Universal 7 w/ OMG supplied CCM Flashing

For more information on Carlisle's Solar Ready Roof, scan here:







EXPERIENCE THE CARLISLE DIFFERENCE



800-479-6832 | P.O. Box 7000 | Carlisle, PA 17013 | Fax: 717-245-7053 | www.carlisesyntec.com