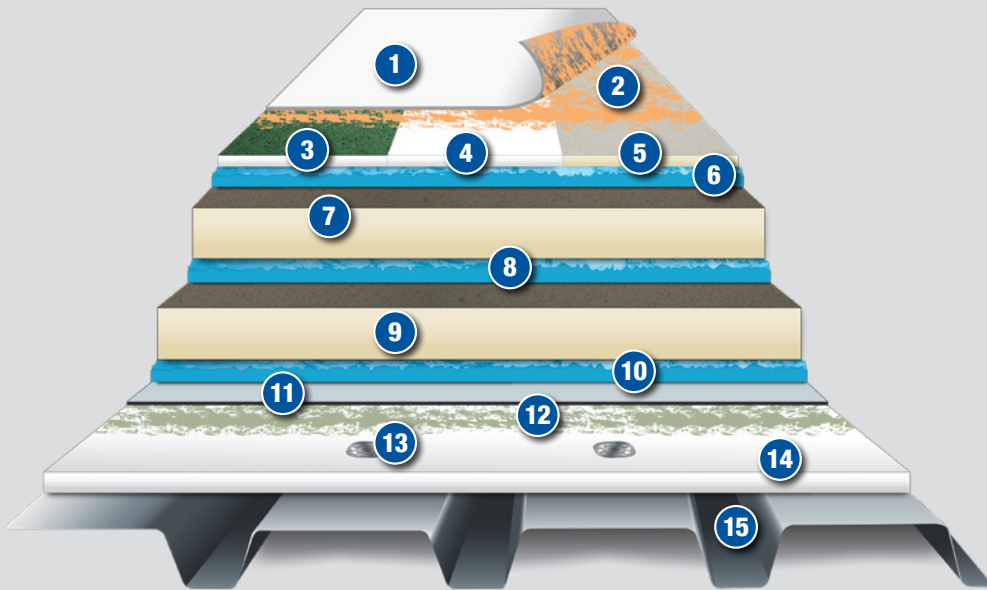


Integrated Roofing for Mission-Critical Data Centers

Sure-Flex™ PVC membrane is a heat-weldable, reinforced single-ply roofing membrane system designed for long-term durability and high performance. For data centers, Carlisle SynTec Systems has identified a Sure-Flex PVC roofing system as the preferred system when installed over a steel deck using a fully adhered attachment method. This design delivers maximum redundancy with multiple protective layers, exceptional fire resistance, and long-lasting durability.



Sure-Flex PVC Roofing Systems



- 1 Sure-Flex PVC Membrane
- 2 CAV-GRIP® PVC Adhesive
- 3 ½" DensDeck Prime Roof Board OR
- 4 SECUROCK® Gypsum-Fiber Roof Board OR
- 5 SecurShield® HD Plus Polyiso
- 6 Flexible FAST™ Adhesive
- 7 2.6" Polyiso Insulation
- 8 Flexible FAST Adhesive
- 9 2.6" Polyiso Insulation
- 10 Flexible FAST Adhesive
- 11 VapAir Seal™ 725TR Air and Vapor Barrier/Temporary Roof
- 12 CAV-GRIP III Adhesive/Primer
- 13 Approved Plates and Fasteners
- 14 Gypsum Board
- 15 Steel Deck

Sure-Flex PVC

Roofing Systems

Benefits for Data Center Applications

- » Designed for mission-critical infrastructure: PVC offers superior chemical, grease, fire, and puncture resistance.
- » A fully adhered system reduces fasteners and potential penetrations, meaning fewer leaks and improved integrity.
- » Reflective membranes like Sure-Flex PVC help reduce rooftop heat and manage a building’s HVAC load, which is highly beneficial in data centers.

Warranty & Maintenance

- » Up to 30-year warranties available depending on membrane thickness and system configuration.
- » Regular inspections are recommended. Because the seams are welded and the system is fully integrated, the risk of water intrusion is reduced.
- » Consider combining a Sure-Flex PVC roofing system with electronic leak detection (ELD) from Detec for uptime assurance.

Key Value Propositions

- » **Reliability/Uptime:** Welded, fully integrated system, robust design backed by Carlisle SynTec System’s industry-leading inspection and warranty.
- » **Speed/Efficiency:** Prefabricated accessories, high-performance adhesives, and system design help boost applicator productivity.
- » **Sustainability & Energy Efficiency:** Reflective membrane, LEED/CRRC compliance, recycled content, and reduced rooftop heat.
- » **Tailored for Data Centers:** From deck to membrane, insulation to accessories, this system is optimized for mission-critical applications.

Typical Application Snapshot

- » **Roof deck:** a steel deck is typical for data center new construction
- » **Air and vapor barrier**
- » **Gypsum cover board**
- » **Insulation:** two layers of high-performance polyiso insulation
- » **Membrane:** Sure-Flex PVC (or KEE HP if elevated conditions), fully adhered

Sure-Flex Membrane for Fully Adhered Roofing Systems is available in the following:

Color	PVC: White, Gray, Tan, Light Gray, and Slate Gray KEE HP: White, Gray, Tan, and Light Gray
Thicknesses (mils)	50, 60, and 80
Standard Widths	PVC Membrane: 10', 81", 5' and 40.5" KEE HP Membrane: 10' and 5'
Standard Lengths	50-mil: 100', 60-mil: 100', 80-mil: 75'

System Codes

UL Class A, B and Unlimited Slope ratings are available over standard roof deck types. FM uplift values up to 285 psf can be achieved. For code specifics, refer to Carlisle’s Sure-Flex Code Approval Guide.

Warranty

Consult your Authorized Applicator or Carlisle Manufacturer’s Representative/Distributor for associated warranty charges.

Provided all materials are manufactured or marketed by Carlisle, this system properly installed and inspected on a commercial project may receive:

	Sure-Flex PVC Membrane					Sure-Flex KEE HP Membrane				
	10-Year	15-Year	20-Year	25-Year	30-Year	10-Year	15-Year	20-Year	25-Year	30-Year
50-Mil	X	X				X	X	X		
60-Mil	X	X	X			X	X	X	X	
80-Mil	X	X	X	X		X	X	X	X	X

For more specifics or for international warranty programs, contact Carlisle.