

CA-01FL-06-20
Florida Edition Code Alert
August 4, 2020

To: Carlisle SynTec Systems’ Manufacturer’s Representatives and Authorized Applicators

This Code Alert will be launched in the form of an electronic publication to bring awareness to new Florida code updates/approvals as they become available. When necessary, this communication will also be used to shed light on critical code-related issues that may impact the Florida market.

Feedback concerning future topics or issues is strongly encouraged.

Wind Uplift Testing for the Florida Market

As part of Carlisle’s continuous testing program for the State of Florida, testing was recently conducted on various TPO, PVC, and FleeceBACK® membrane assemblies targeting the re-roofing/recover market. These assemblies were tested over existing asphaltic roofing systems and incorporated options for new insulation, cover boards directly over the substrate, and membranes applied directly without insulation or cover boards.

The tables below highlight the various assemblies tested and are categorized by substrate type.

Recover Applications
Adhered Insulation, Adhered Membrane

Substrates: Existing granule surfaced BUR, smooth surfaced BUR, granule surfaced APP, SBS modified bitumen, smooth surfaced SBS modified bitumen, or gravel surfaced BUR (loose gravel removed)					
Base Insulation Layer	Attachment	Top Insulation Layer	Attachment	Membrane / Attachment	*MDP (psf)
(Optional) Min. 1-inch InsulBase or SecurShield®	Flexible FAST™ or Flexible FAST Dual Tank 12-inch o.c. (6-inch o.c. for gravel BUR)	Min. 2-inch StormBase® or SecurShield HD Composite	Flexible FAST or Flexible FAST Dual Tank, 12-inch o.c.	Min. 45-mil Sure-Weld® membrane adhered using CAV- GRIP® III, Low-VOC or Sure- Weld Bonding Adhesive	-145
Min. 1-inch InsulBase or SecurShield	Flexible FAST or Flexible FAST Dual Tank 12-inch o.c. (6-inch o.c. for gravel BUR)	(Optional) Min. 0.25- inch DensDeck® Prime or SECUROCK® Gypsum Fiber or min. 0.50-inch EcoStorm VSH™, SecurShield HD, or SecurShield HD Plus	Flexible FAST or Flexible FAST Dual Tank, 12-inch o.c.	Min. 100-mil FleeceBACK TPO or any FleeceBACK PVC (min. 105-mil) adhered using Flexible FAST, Flexible FAST Dual Tank, or HydroBond Adhesive Min. 50-mil Sure-Flex PVC, Sure-Flex PVC FRS, or Sure- Flex KEE HP membrane adhered using Low-VOC PVC Bonding Adhesive	-167
Min. 1-inch InsulBase or SecurShield	Flexible FAST or Flexible FAST Dual Tank 12-inch o.c. (6-inch o.c. for gravel BUR)	(Optional) Min. 0.25- inch DensDeck Prime or min. 0.50-inch SecurShield HD or SecurShield HD Plus	Flexible FAST or Flexible FAST Dual Tank, 12-inch o.c.	Min. 50-mil Sure-Flex PVC or Sure-Flex PVC FRS adhered with HydroBond Adhesive	-167

*MDP = Maximum Design Pressure

Recover Applications Adhered Cover Board, Adhered Membrane

Substrates: Existing granule surfaced BUR, smooth surfaced BUR, granule surfaced APP or SBS modified bitumen, smooth surfaced SBS modified bitumen, or gravel surfaced BUR (loose gravel removed)			
Cover Board	Attachment	Membrane / Attachment	*MDP (psf)
Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber or min. 0.50-inch EcoStorm VSH SecurShield HD, or SecurShield HD Plus	Flexible FAST or Flexible FAST Dual Tank 12-inch o.c. (6-inch o.c. for gravel BUR)	Min. 45-mil Sure-Weld membrane adhered using CAV-GRIP III, Low-VOC or Sure-Weld Bonding Adhesive	-302.5
		Min. 100-mil FleeceBACK TPO or any FleeceBACK PVC (min. 105-mil) adhered using Flexible FAST, Flexible FAST Dual Tank, or HydroBond Adhesive	
Min. 0.25-inch DensDeck Prime or Min. 0.50-inch SecurShield HD or SecurShield HD Plus	Flexible FAST or Flexible FAST Dual Tank 12-inch o.c. (6-inch o.c. for gravel BUR)	Min. 50-mil Sure-Flex PVC, Sure-Flex PVC FRS, or Sure-Flex KEE HP membrane adhered using Low-VOC PVC Bonding Adhesive	

*MDP = Maximum Design Pressure

Recover Applications No Insulation or Cover Board, Adhered Membrane

Deck Type	Substrate	Membrane	Membrane Attachment	MDP (psf)
Steel	Existing granule surfaced BUR, smooth surfaced BUR, granule surfaced APP or SBS modified bitumen, or smooth surfaced SBS modified bitumen	Min. 100-mil FleeceBACK TPO or any FleeceBACK PVC (min. 105-mil)	Flexible FAST or Flexible FAST Dual Tank, 6-inch o.c.	-75
Structural Concrete			Flexible FAST or Flexible FAST Dual Tank, 6-inch o.c.	-177
Steel			Flexible FAST or Flexible FAST Dual Tank **(FULL)	-135
Cellular Lightweight, Tectum, or Gypsum			Flexible FAST **(FULL)	-177
Tectum			Flexible FAST **(FULL)	-325
Gypsum			Flexible FAST Dual Tank **(FULL)	-400
Structural Concrete			Flexible FAST Dual Tank **(FULL)	-635

*MDP = Maximum Design Pressure

**FULL = Full spray or beads at 4-inch o.c. and splatter for Dual Tank

These new assemblies are contained in Table 7A of the Carlisle Florida Evaluation Reports referenced below. The reports are currently in Pending Approval status with the State of Florida and formal approval by the Florida Building Commission is expected in August.

Carlisle Florida Evaluation Reports

Zone	Carlisle TPO	Carlisle PVC
HVHZ	FL16440-R20	FL16438-R11
Non-HVHZ	FL14083-R24	FL14165-R14

These reports can be viewed on the Florida Product Approval website and should be referenced when confirming specific assembly requirements.

Florida Product Approval website: http://floridabuilding.org/pr/pr_app_lst.aspx