









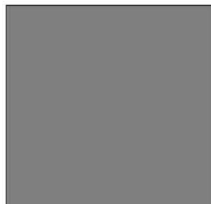

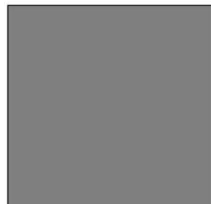











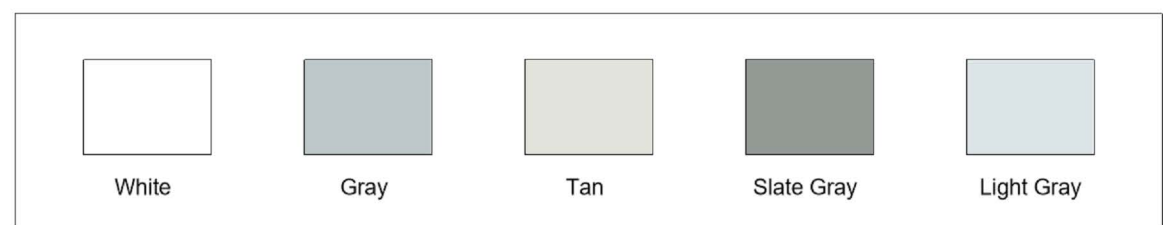


Florida HVHZ Light-Weight Insulating Concrete Sure-Flex™ & FleeceBACK® PVC Roof Families


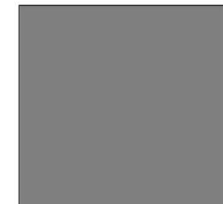
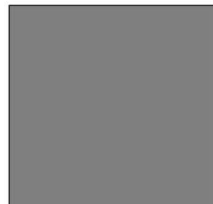

Sure-Flex™ PVC	Fully Adhered With Celcore MF Cellular Concrete & Insulfoam HB on Metal Deck	Fully Adhered With Celcore MF Cellular Concrete & Insulfoam HB on Metal Deck	Fully Adhered & Mechanically Fastened With Celcore MF Cellular Concrete & Insulfoam HB on Metal Deck	Fully Adhered With Celcore MF Cellular Concrete & Insulfoam HB on Metal Deck				
								
	LWC-37 -60 MDP	LWC-39 -62.5 MDP	LWC-40 -90 MDP	LWC-57 -90 MDP				
								
FleeceBACK® PVC	Fully Adhered With Celcore MF Cellular Concrete & Insulfoam HB on Metal Deck	Fully Adhered & Mechanically Fastened With Celcore MF Cellular Concrete & Insulfoam HB on Metal Deck	Fully Adhered & Mechanically Fastened With Celcore MF Cellular Concrete & Insulfoam HB on Metal Deck	Fully Adhered With Concrecel Cellular Concrete, Bonding Agent, & Curing Compound Insulfoam HB on Metal Deck	Fully Adhered With Concrecel Cellular Concrete & Insulfoam HB on Metal Deck	Fully Adhered With Elastizell Range II Cellular Concrete & Insulfoam HB on Metal Deck	Fully Adhered With Elastizell Range II Cellular Concrete & Insulfoam HB on Metal Deck	Fully Adhered With Celcore MF Cellular Concrete & Insulfoam HB on Structural Concrete Deck
								
	LWC-46 -60 MDP	LWC-47 -67.5 MDP	LWC-49 -120 MDP	LWC-50 -97.5 MDP	LWC-52 -135 MDP	LWC-55 -97.5 MDP	LWC-56 -112.5 MDP	LWC-60 -232.5 MDP
								

HVHZ PVC LightWeight Insulating Concrete Roof Type Schedule					
Type	HVHZ Compliance Designation	NEMO Evaluation System No.	Wind Pressure Uplift Rating	Type Comments	Manufacturer
Sure-Flex™ PVC On LightWeight Insulated Concrete - HVHZ LWC-37	HVHZ	LWC-37	-60	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties & Casting Density. Use of Min. 1" Holey Board optional.	Carlisle SynTec Systems
Sure-Flex™ PVC On LightWeight Insulated Concrete - HVHZ LWC-39	HVHZ	LWC-39	-62.5	See NEMO Documentation for Minimum Structural Deck & deck preparation Requirements, LWC Structural Properties, & admixture requirements.	Carlisle SynTec Systems
Sure-Flex™ PVC On LightWeight Insulated Concrete - HVHZ LWC-40	HVHZ	LWC-40	-90	See NEMO Documentation for Minimum Structural Deck Requirements, LWC Structural Properties, Fastening rates & Casting Density. Use of Min. 1" Holey Board optional.	Carlisle SynTec Systems
FleeceBACK® PVC On LightWeight Insulated Concrete - HVHZ LWC-46	HVHZ	LWC-46	-60	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties & Casting Density. Use of Min. 1" Holey Board optional.	Carlisle SynTec Systems
FleeceBACK® PVC On LightWeight Insulated Concrete - HVHZ LWC-47	HVHZ	LWC-47	-67.5	See NEMO Documentation for Minimum Structural Deck Requirements, LWC Structural Properties, Casting Density, & mechanical fastening rate. Use of Min. 1" Holey Board optional.	Carlisle SynTec Systems
FleeceBACK® PVC On LightWeight Insulated Concrete - HVHZ LWC-49	HVHZ	LWC-49	-120	See NEMO Documentation for Minimum Structural Deck Requirements, LWC Structural Properties, Casting Density, & mechanical fastening rate. Use of Min. 1" Holey Board optional.	Carlisle SynTec Systems
FleeceBACK® PVC On LightWeight Insulated Concrete - HVHZ LWC-50	HVHZ	LWC-50	-97.5	See NEMO Documentation for Minimum Structural Deck Requirements, Deck preparation, & LWC Structural Properties. Use of Min. 1" Holey Board required. Concrete Curing compound is optional.	Carlisle SynTec Systems
FleeceBACK® PVC On LightWeight Insulated Concrete - HVHZ LWC-52	HVHZ	LWC-52	-135	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties. Use of Min. 2" Holey Board Required.	Carlisle SynTec Systems
FleeceBACK® PVC On LightWeight Insulated Concrete - HVHZ LWC-55	HVHZ	LWC-55	-97.5	See NEMO Documentation for Minimum Structural Deck Requirements & LWC Structural Properties. Use of 1" Thick Holey Board required.	Carlisle SynTec Systems
FleeceBACK® PVC On LightWeight Insulated Concrete - HVHZ LWC-56	HVHZ	LWC-56	-112.5	See NEMO Documentation for Minimum Structural Deck Requirements & LWC Structural Properties. Use of 2" Thick Holey Board required.	Carlisle SynTec Systems
Sure-Flex™ PVC On LightWeight Insulated Concrete - HVHZ LWC-57	HVHZ	LWC-57	-90	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties & Casting Density. Use of Min. 1" Holey Board optional.	Carlisle SynTec Systems
FleeceBACK® PVC On LightWeight Insulated Concrete - HVHZ LWC-60	HVHZ	LWC-60	-232.5	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties & Casting Density. Use of Min. 1" Holey Board optional.	Carlisle SynTec Systems

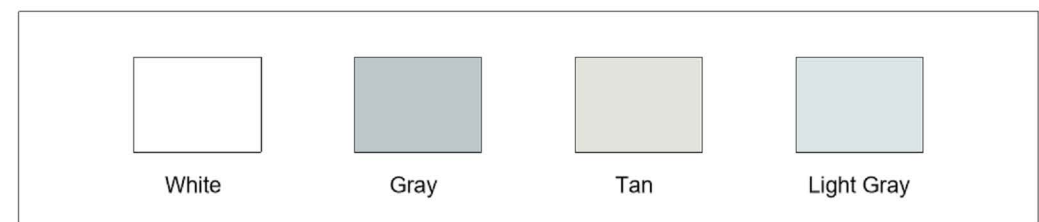
Standard Colors



Florida HVHZ Light-Weight Insulating Concrete Sure-Flex™ & FleeceBACK® KEE HP Roof Families

Sure-Flex™ KEE HP	Fully Adhered With Elastizell Range II Cellular Concrete & Insulfoam HB on Metal Deck	Fully Adhered With Elastizell Range II Cellular Concrete & Insulfoam HB on Metal Deck	Fully Adhered With Elastizell Range II Cellular Concrete & Insulfoam HB on Metal Deck	Fully Adhered With Concrecel Cellular Concrete & Insulfoam HB on Metal Deck				
								
	LWC-41 -52.5 MDP	LWC-42 -82.5 MDP	LWC-43 -97.5 MDP	LWC-58 -330 MDP				
								
FleeceBACK® KEE HP	Fully Adhered With Celcore MF Cellular Concrete & Insulfoam HB on Metal Deck	Fully Adhered & Mechanically Fastened With Celcore MF Cellular Concrete & Insulfoam HB on Metal Deck	Fully Adhered & Mechanically Fastened With Celcore MF Cellular Concrete & Insulfoam HB on Metal Deck	Fully Adhered With Concrecel Cellular Concrete, Bonding Agent, & Curing Compound Insulfoam HB on Metal Deck	Fully Adhered With Concrecel Cellular Concrete & Insulfoam HB on Metal Deck	Fully Adhered With Elastizell Range II Cellular Concrete & Insulfoam HB on Metal Deck	Fully Adhered With Elastizell Range II Cellular Concrete & Insulfoam HB on Metal Deck	Fully Adhered With Celcore MF Cellular Concrete & Insulfoam HB on Structural Concrete Deck
								
	LWC-46 -60 MDP	LWC-47 -67.5 MDP	LWC-49 -120 MDP	LWC-50 -97.5 MDP	LWC-52 -135 MDP	LWC-55 -97.5 MDP	LWC-56 -112.5 MDP	LWC-60 -232.5 MDP
								

Standard Colors

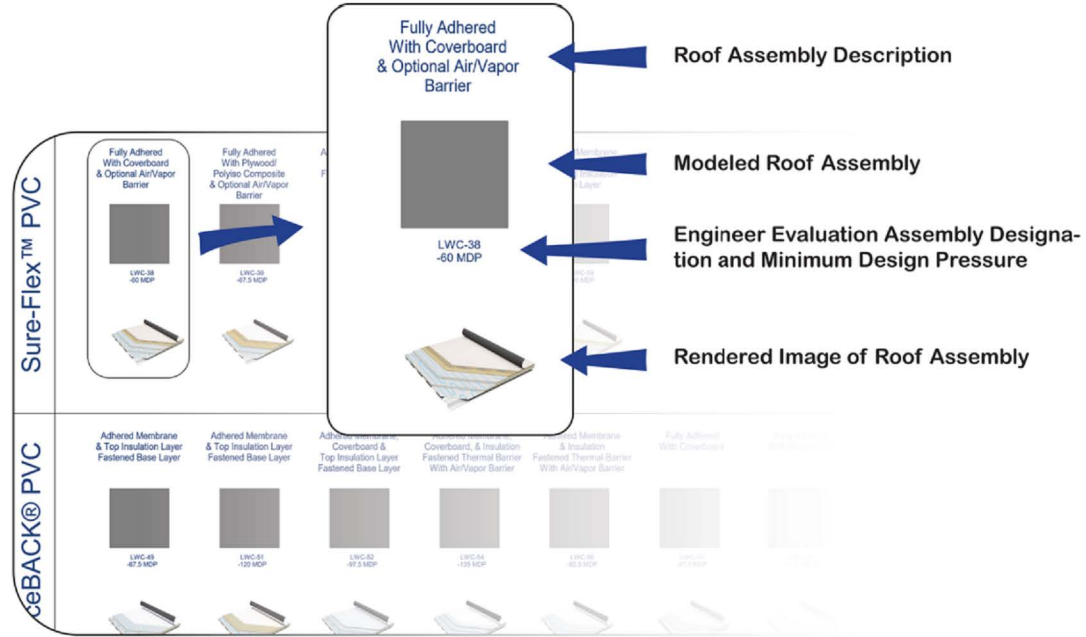


HVHZ KEE HP LightWeight Insulating Concrete Roof Type Schedule					
Type	HVHZ Compliance Designation	NEMO Evaluation System No.	Wind Pressure Uplift Rating	Type Comments	Manufacturer
Sure-Flex™ KEE HP On LightWeight Insulated Concrete - HVHZ LWC-41	HVHZ	LWC-41	-62.5	See NEMO Documentation for Minimum Structural Deck Requirements & LWC Structural Properties. Use of Holey Board optional.	Carlisle SynTec Systems
Sure-Flex™ KEE HP On LightWeight Insulated Concrete - HVHZ LWC-42	HVHZ	LWC-42	-62.5	See NEMO Documentation for Minimum Structural Deck Requirements & LWC Structural Properties. Use of 2" Thick Holey Board required.	Carlisle SynTec Systems
Sure-Flex™ KEE HP On LightWeight Insulated Concrete - HVHZ LWC-43	HVHZ	LWC-43	-97.5	See NEMO Documentation for Minimum Structural Deck Requirements & LWC Structural Properties. Use of 1" Thick Holey Board required.	Carlisle SynTec Systems
FleeceBACK® KEE HP On LightWeight Insulated Concrete - HVHZ LWC-46	HVHZ	LWC-46	-60	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties & Casting Density. Use of Min. 1" Holey Board optional.	Carlisle SynTec Systems
FleeceBACK® KEE HP On LightWeight Insulated Concrete - HVHZ LWC-47	HVHZ	LWC-47	-67.5	See NEMO Documentation for Minimum Structural Deck Requirements, LWC Structural Properties, Casting Density, & mechanical fastening rate. Use of Min. 1" Holey Board optional.	Carlisle SynTec Systems
FleeceBACK® KEE HP On LightWeight Insulated Concrete - HVHZ LWC-49	HVHZ	LWC-49	-120	See NEMO Documentation for Minimum Structural Deck Requirements, LWC Structural Properties, Casting Density, & mechanical fastening rate. Use of Min. 1" Holey Board optional.	Carlisle SynTec Systems
FleeceBACK® KEE HP On LightWeight Insulated Concrete - HVHZ LWC-50	HVHZ	LWC-50	-97.5	See NEMO Documentation for Minimum Structural Deck Requirements, Deck preparation, & LWC Structural Properties. Use of Min. 1" Holey Board required. Concrete Curing compound is optional.	Carlisle SynTec Systems
FleeceBACK® KEE HP On LightWeight Insulated Concrete - HVHZ LWC-52	HVHZ	LWC-52	-135	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties. Use of Min. 2" Holey Board Required.	Carlisle SynTec Systems
FleeceBACK® KEE HP On LightWeight Insulated Concrete - HVHZ LWC-55	HVHZ	LWC-55	-97.5	See NEMO Documentation for Minimum Structural Deck Requirements & LWC Structural Properties. Use of 1" Thick Holey Board required.	Carlisle SynTec Systems
FleeceBACK® KEE HP On LightWeight Insulated Concrete - HVHZ LWC-56	HVHZ	LWC-56	-112.5	See NEMO Documentation for Minimum Structural Deck Requirements & LWC Structural Properties. Use of 2" Thick Holey Board required.	Carlisle SynTec Systems
Sure-Flex™ KEE HP On LightWeight Insulated Concrete - HVHZ LWC-58	HVHZ	LWC-58	-330	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties & Casting Density. Use of Holey Board optional.	Carlisle SynTec Systems
FleeceBACK® KEE HP On LightWeight Insulated Concrete - HVHZ LWC-60	HVHZ	LWC-60	-232.5	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties & Casting Density. Use of Min. 1" Holey Board optional.	Carlisle SynTec Systems



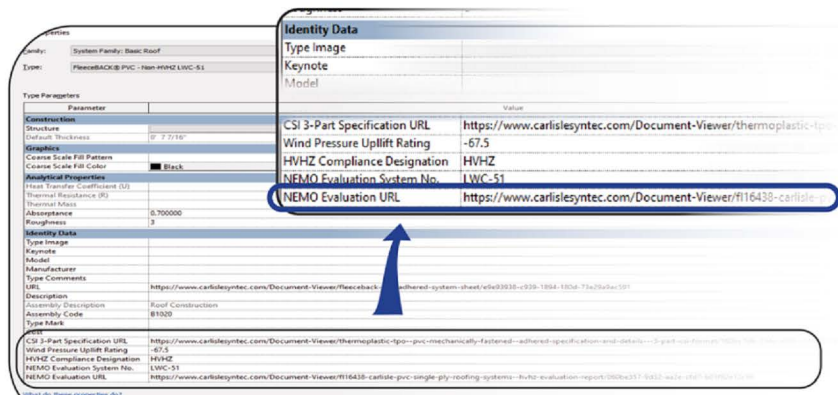
How to Use Light Weight Insulating Concrete Florida Building Code-Based Roof Assemblies:

Each Roof Assembly can be identified by the following group of elements. Select (single-click) a modeled roof assembly...



Notes About Roof Type Properties:

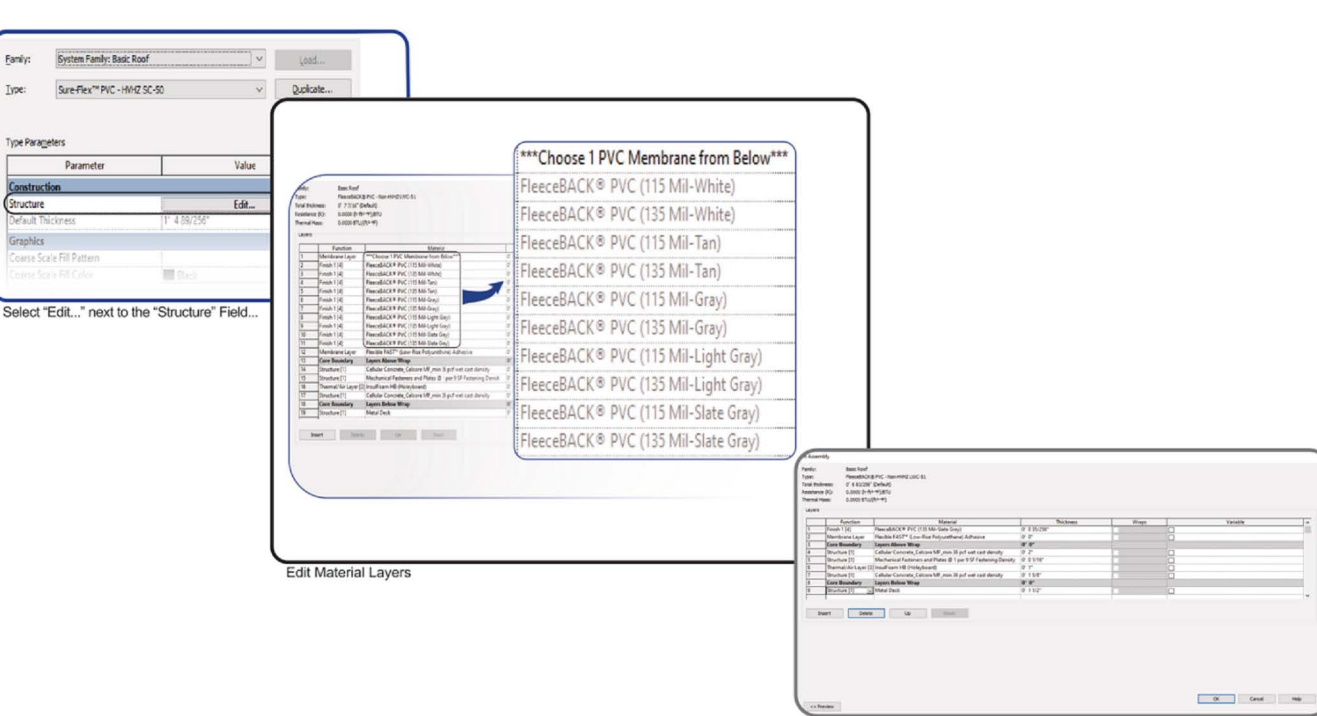
Upon opening the **Type Properties** of the selected roof assembly, several Identity Data Parameters are available. The assemblies provided vary to provide a wealth of options in terms of design pressures/wind uplift rating, membrane types, adhesives, coverboards, roof deck types, etc, but are **not exhaustive**. For additional compliant assembly options, please refer to the listed documentation, which can be found in the **Type Properties** of every roof assembly, as shown in the diagram below:



All Assemblies included within these files have been evaluated by a licensed engineer for compliance to High Velocity Hurricane Zone and Non-High Velocity Hurricane Zone requirements of the Florida Building Code. Despite these evaluations, the Authority Having Jurisdiction will have the final determination regarding the acceptance for permit issuance.

Notes Regarding Assembly Material Editing:

Each roof assembly will contain multiples materials for a particular function of the roof assembly. Where this occurs, prompts, listed as materials above a grouping of multiple materials, are included within the assembly as can be seen in the sample illustration below. Delete extraneous material layers not desired within the assembly, One-of-a-kind materials, ie. Flexible Fast, Mechanical Fasteners, and Insulfoam HB, are required materials for this particular roof assembly example. Do not delete them. In addition with LightWeight Insulating Concrete roof assemblies, the cellular concrete materials are repeated above and below the insulation layer.



Once all the desired materials have been finalized, prompt materials that should be deleted from the assembly(ies), to avoid conflicts with other functions of Revit, ie. schedules that contain roof assembly material listed values.

InsulFoam EPS Insulation Roof Family Material Selection Notes:

- InsulFoam EPS is not compatible with conventional adhesives. In conventional assemblies, adhesive is used to attach the insulation to the substrate. In this assembly, the adhesive is replaced by a mechanical fastener.
- InsulFoam EPS is not compatible with conventional adhesives. In conventional assemblies, adhesive is used to attach the insulation to the substrate. In this assembly, the adhesive is replaced by a mechanical fastener.
- InsulFoam EPS is not compatible with conventional adhesives. In conventional assemblies, adhesive is used to attach the insulation to the substrate. In this assembly, the adhesive is replaced by a mechanical fastener.

