Florida NON-HVHZ
Light-Weight Insulating Concrete
Sure-Weld® & FleeceBACK®
TPO Roof Families

Sure-Weld®

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 Elastizell Range II Cellular Concrete & Insulfoam HB on Metal Deck
LWC-19 -60 MDP	LWC-21 -67.5 MDP	LWC-23 -120 MDP	LWC-24 -97.5 MDP	LWC-26 -135 MDP	LWC-28 -82.5 MDP	LWC-29 -97.5 MDP	LWC-30 -112 MDP

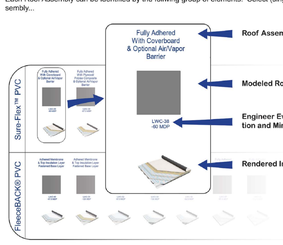
FleeceBACK® TPO

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 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
LWC-32 -60 MDP	LWC-34 -67.5 MDP	LWC-36 -120 MDP	LWC-39 -82.5 MDP	LWC-40 -97.5 MDP	LWC-41 -112.5 MDP

CARLISLE SYNTEC SYSTEMS

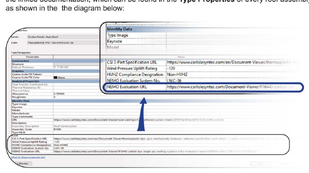
How to Use Light Weight Insulating Concrete Florida Building Code-Based Roof Assemblies:

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



Notes About Roof Type Properties:

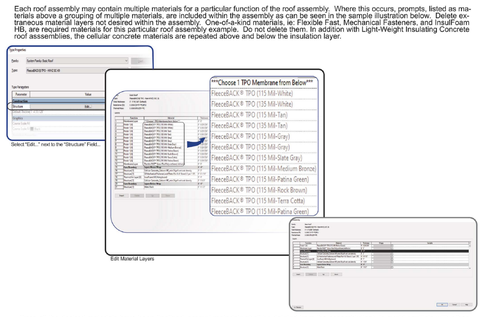
Upon opening the **Type Properties** of the selected roof assembly, several Identity Data Parameters are available. The assemblies provided vary to provide a wealth of options in terms of design pressures/wind-uplift rating, membrane types, adhesives, coverboards, roof deck types, etc, but **are not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



All Assemblies included within these files have been evaluated by a licensed engineer for compliance to High Velocity Hurricaine Zone and Non-High Velocity Hurricaine 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 may contain multiple 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 Light-Weight 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 shall be deleted from the assembly(ies), to avoid conflicts with other functions of Revit, ie: schedules that contain roof assembly material takeoff values.

Standard Colors

Special Colors

Non HVHZ LightWeight Insulating Concrete Roof Type Schedule

Type	HVHZ Compliance Designation	NEMO Evaluation System No.	Wind Pressure Uplift Rating	Type Comments	Manufacturer
Sure-Weld TPO On LightWeight Insulated Concrete - Non-HVHZ LWC-19	Non-HVHZ	LWC-19	-60	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties & Casting Density. Use of Min. 1" Holey Board optional.	Carlisle SynTec
Sure-Weld TPO On LightWeight Insulated Concrete - Non-HVHZ LWC-21	Non-HVHZ	LWC-21	-67.5	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties, Casting Density & mechanical fastening rate. Use of Min. 1" Holey Board optional.	Carlisle SynTec
Sure-Weld TPO On LightWeight Insulated Concrete - Non-HVHZ LWC-23	Non-HVHZ	LWC-23	-120	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties, Casting Density & mechanical fastening rate. Use of Min. 1" Holey Board optional.	Carlisle SynTec
Sure-Weld TPO On LightWeight Insulated Concrete - Non-HVHZ LWC-24	Non-HVHZ	LWC-24	-97.5	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties, & Casting Density. Use of Min. 1" Holey Board required. Concrecel Curing compound is optional.	Carlisle SynTec
Sure-Weld TPO On LightWeight Insulated Concrete - Non-HVHZ LWC-26	Non-HVHZ	LWC-26	-135	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties. Use of Min. 1" Holey Board required.	Carlisle SynTec
Sure-Weld TPO On LightWeight Insulated Concrete - Non-HVHZ LWC-28	Non-HVHZ	LWC-28	-82.5	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties & Casting Density. Use of Min. 2" Holey Board Required.	Carlisle SynTec
Sure-Weld TPO On LightWeight Insulated Concrete - Non-HVHZ LWC-29	Non-HVHZ	LWC-29	-97.5	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties & Casting Density. Use of Min. 1" Holey Board Required.	Carlisle SynTec
Sure-Weld TPO On LightWeight Insulated Concrete - Non-HVHZ LWC-30	Non-HVHZ	LWC-30	-112.5	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties & Casting Density. Use of Min. 2" Holey Board Required.	Carlisle SynTec
FleeceBACK® TPO On LightWeight Insulated Concrete - Non-HVHZ LWC-32	Non-HVHZ	LWC-32	-60	See NEMO Documentation for Minimum Structural Deck & deck preparation Requirements, LWC Structural Properties, admixture, & Surface Treatment requirements	Carlisle SynTec
FleeceBACK® TPO On LightWeight Insulated Concrete - Non-HVHZ LWC-34	Non-HVHZ	LWC-34	-67.5	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties & Casting Density. Use of Min. 1" Holey Board Required.	Carlisle SynTec
FleeceBACK® TPO On LightWeight Insulated Concrete - Non-HVHZ LWC-36	Non-HVHZ	LWC-36	-120	See NEMO Documentation for Minimum Structural Deck, LWC Structural Properties, Casting Density, mechanical fastening rate, & Surface Treatment Requirements. Use of Min. 1" Holey Board Required.	Carlisle SynTec
FleeceBACK® TPO On LightWeight Insulated Concrete - Non-HVHZ LWC-39	Non-HVHZ	LWC-39	-82.5	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties. Use of Min. 2" Holey Board required.	Carlisle SynTec
FleeceBACK® TPO On LightWeight Insulated Concrete - Non-HVHZ LWC-40	Non-HVHZ	LWC-40	-97.5	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties. Use of Min. 1" Holey Board required.	Carlisle SynTec
FleeceBACK® TPO On LightWeight Insulated Concrete - Non-HVHZ LWC-41	Non-HVHZ	LWC-41	-112.5	See NEMO Documentation for Minimum Structural Deck Requirements and LWC Structural Properties. Use of Min. 2" Holey Board required.	Carlisle SynTec

CARLISLE SYNTEC SYSTEMS