




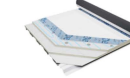


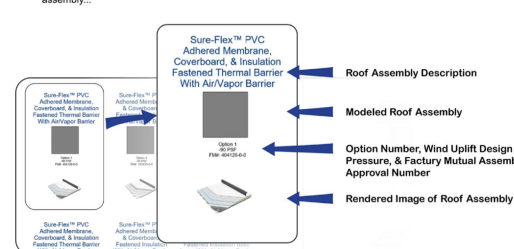
Sure-Flex™ & FleeceBACK® PVC Roof Families for Data Centers

		Standard Colors				
						
		Structural Concrete Deck				
Sure-Flex™ PVC	Metal Deck					
	Sure-Flex™ PVC Adhered Membrane, Coverboard, & Insulation Fastened Thermal Barrier With Air/Vapor Barrier	Sure-Flex™ PVC Adhered Membrane & Coverboard, Fastened Insulation With Air/Vapor Barrier	Sure-Flex™ PVC Adhered Membrane & Insulation/Coverboard Composite Top Layer, Fastened Insulation Base Layer With Air/Vapor Barrier	Sure-Flex™ PVC Adhered Membrane, Coverboard, & Insulation With Air/Vapor Barrier	Sure-Flex™ PVC Adhered Membrane, Insulation/Coverboard Composite Top Layer, & Insulation Base Layer With Air/Vapor Barrier	
						
	Option 1 60 PSF FMR: 401126-0-0	Option 4 60 PSF FMR: 103435-0-0	Option 5 60 PSF FMR: 401415-0-0	Option 6 150 PSF FMR: 394764-0-0	Option 8 110 PSF FMR: 394765-0-0	
						
	Sure-Flex™ PVC Adhered Membrane, Coverboard, & Insulation Fastened Thermal Barrier With Air/Vapor Barrier	Sure-Flex™ PVC Adhered Membrane & Coverboard, Fastened Insulation With Air/Vapor Barrier	Sure-Flex™ PVC Adhered Membrane & Insulation/Coverboard Composite Top Layer, Fastened Insulation Base Layer With Air/Vapor Barrier	Sure-Flex™ PVC Adhered Membrane, Coverboard, & Insulation With Air/Vapor Barrier	Sure-Flex™ PVC Adhered Membrane, Insulation/Coverboard Composite Top Layer, & Insulation Base Layer With Air/Vapor Barrier	
						
Option 1A 60 PSF FMR: 401126-0-0 With Deltec TruCount® Conductive Primer for Electronic Leak Detection	Option 4A 60 PSF FMR: 103435-0-0	Option 5A 100 PSF FMR: 103436-0-0 With Optional Deltec TruCount® Conductive Primer for Electronic Leak Detection	Option 6A 115 PSF FMR: 429729-0-0	Option 8A 225 PSF FMR: 394765-0-0		
						
FleeceBACK® PVC	Metal Deck					
	FleeceBACK® PVC Adhered Membrane, Coverboard, & Insulation Fastened Thermal Barrier With Air/Vapor Barrier	FleeceBACK® PVC Adhered Membrane & Coverboard, Fastened Insulation With Air/Vapor Barrier		FleeceBACK® PVC Adhered Membrane, Coverboard, & Insulation With Air/Vapor Barrier		
						
	Option 2 60 PSF FMR: 343079-0-0	Option 3 60 PSF FMR: 343042-0-0		Option 7 60 PSF FMR: 343044-0-0		
						
	FleeceBACK® PVC Adhered Membrane, Coverboard, & Insulation Fastened Thermal Barrier With Air/Vapor Barrier	FleeceBACK® PVC Adhered Membrane & Coverboard, Fastened Insulation With Air/Vapor Barrier		FleeceBACK® PVC Adhered Membrane, Coverboard, & Insulation With Air/Vapor Barrier		
						
Option 2A 60 PSF FMR: 343079-0-0	Option 3A 120 PSF FMR: 479229-0-0		Option 7A 60 PSF FMR: 343044-0-0			
						

PVC Data Center Roof Type Schedule									
Option #	Type	Deck Type	FM Assembly #	Wind Pressure Up/Int Rating	Interior Fire Rating	Exterior Fire Rating	Hail Rating	Type Comments	Manufacturer
01	Sure-Flex™ PVC - FM 406120-00	Metal Deck	401126-00	-95	1	A	SH	Adhered Membrane Coverboard, 1 Insulation Layer, Polymer Based Self-Adhesive Rubber	Carlisle SynTec Systems
01A	Sure-Flex™ PVC - FM 42420-00	Metal Deck	42420-00	-90	1	A	SH	Adhered Membrane Coverboard, 1 Insulation Layer, Polymer Based Self-Adhesive Rubber	Carlisle SynTec Systems
02	FreezeBACK® PVC - FM 343678-00	Metal Deck	343678-00	-90	1	A	SH	Adhered Membrane, Coverboard, 1 Insulation Layer, Polymer Based Self-Adhesive Rubber	Carlisle SynTec Systems
02A	FreezeBACK® PVC - FM 343679-00	Metal Deck	343679-00	-90	1	A	SH	Adhered Membrane, Coverboard, 1 Insulation Layer, Polymer Based Self-Adhesive Rubber	Carlisle SynTec Systems
03	FreezeBACK® PVC - FM 343642-00	Metal Deck	343642-00	-90	1	A	SH	Adhered Membrane, Coverboard, 1 Insulation Layer, Polymer Based Self-Adhesive Rubber	Carlisle SynTec Systems
03A	FreezeBACK® PVC - FM 343622-00	Metal Deck	343622-00	-90	1	A	SH	Adhered Membrane, Coverboard, 1 Insulation Layer, Polymer Based Self-Adhesive Rubber	Carlisle SynTec Systems
04	Sure-Flex™ PVC - FM 103435-00	Metal Deck	103435-00	-90	1	A	SH	Adhered Membrane, Coverboard, 1 Insulation Layer, Polymer Based Self-Adhesive Rubber	Carlisle SynTec Systems
04A	Sure-Flex™ PVC - FM 518323-00	Metal Deck	518323-00	-135	1	A	SH	Adhered Membrane, Coverboard, 1 Insulation Layer, Polymer Based Self-Adhesive Rubber	Carlisle SynTec Systems
05	Sure-Flex™ PVC - FM 461155-00	Metal Deck	461155-00	-90	1	A	SH	Adhered Membrane, Coverboard, 1 Insulation/Coverboard Composite Top Layer, Polymer Based Self-Adhesive Rubber	Carlisle SynTec Systems
05A	Sure-Flex™ PVC - FM 455344-00	Metal Deck	455344-00	-150	1	A	SH	Adhered Membrane, Coverboard, 1 Insulation/Coverboard Composite Top Layer, Polymer Based Self-Adhesive Rubber	Carlisle SynTec Systems
06	Sure-Flex™ PVC - FM 394740-0A	Structural Concrete	394740-0A	-116	NC	A	SH	Adhered Membrane, Coverboard, 1 Insulation Layer, Polymer Based Self-Adhesive Rubber	Carlisle SynTec Systems
06A	Sure-Flex™ PVC - FM 429720-00	Structural Concrete	429720-00	-315	NC	A	SH	Adhered Membrane, Coverboard, 1 Insulation Layer, Polymer Based Self-Adhesive Rubber	Carlisle SynTec Systems
07	FreezeBACK® PVC - FM 343644-00	Structural Concrete	343644-00	-90	NC	A	SH	Adhered Membrane, Coverboard, 1 Insulation Layer, Polymer Based Self-Adhesive Rubber	Carlisle SynTec Systems
07A	FreezeBACK® PVC - FM 343640-00	Structural Concrete	343640-00	-90	NC	A	SH	Adhered Membrane, Coverboard, 1 Insulation Layer, Polymer Based Self-Adhesive Rubber	Carlisle SynTec Systems
08	Sure-Flex™ PVC - FM 394750-00	Structural Concrete	394750-00	-116	NC	A	SH	Adhered Membrane, Coverboard, 1 Insulation Layer, Polymer Based Self-Adhesive Rubber	Carlisle SynTec Systems
08A	Sure-Flex™ PVC - FM 394760-00	Structural Concrete	394760-00	-225	NC	A	SH	Adhered Membrane, Coverboard, 1 Insulation/Coverboard Composite Top Layer, Polymer Based Self-Adhesive Rubber	Carlisle SynTec Systems

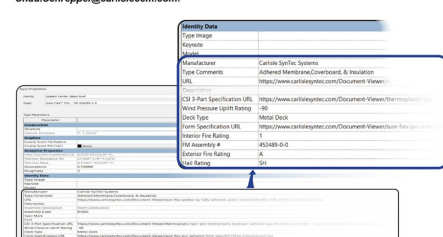
How to Use Sure-Flex™ & FleeceBACK® PVC Roof Families for Data Centers

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



Notes About Roof Type Properties

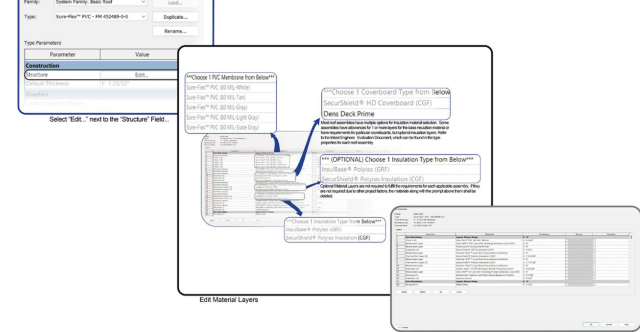
The assemblies provided represent premium roof assembly design with durability in mind. Upon opening the **Type Properties** of the selected roof assembly, several Identity Data Parameters are available including Wind design pressures/wind uplift rating, membrane types, adhesives, coverboards, roof deck types, etc, but **are not exhaustive**. Additional information for each FM-Rated assembly can be found on FM Global's reference website, RoofNHW.com. For additional suitable assembly options and sales support, please contact **Chad Schreppel** at Chad.Schreppel@fearlesscorp.com.



Please direct any Revit and/or BIM questions to Brian Rivera in Design Services at Brian.Rivera@carlisle.com


























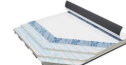

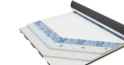

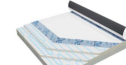






Notes Regarding Assembly Material Editing

In many cases, each roof assembly will 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, i.e. Flexible Fast, Mechanical Fasteners, and Dens Deck Prime, are required materials for this particular roof assembly example. Do not delete them.



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

Sure-Flex™ & FleeceBACK® KEE HP Roof Families for Data Centers

		Standard Colors				
		 White	 Gray	 Tan	 Light Gray	
		Metal Deck		Structural Concrete Deck		
Sure-Flex™ KEE HP	<p>Sure-Flex™ KEE HP Adhered Membrane, Coverboard, & Insulation Fastened Thermal Barrier With Air/Vapor Barrier</p>  <p>Option 1 60 PSF FMR: 400351-0-0</p> 	<p>Sure-Flex™ KEE HP Adhered Membrane & Coverboard, Fastened Insulation With Air/Vapor Barrier</p>  <p>Option 4 100 PSF FMR: 518634-0-0</p> 	<p>Sure-Flex™ KEE HP Adhered Membrane & Insulation/Coverboard Composite Top Layer, Fastened Insulation Base Layer With Air/Vapor Barrier</p>  <p>Option 5 100 PSF FMR: 454631-0-0</p> 	<p>Sure-Flex™ KEE HP Adhered Membrane, Coverboard, & Insulation With Air/Vapor Barrier</p>  <p>Option 6 60 PSF FMR: 354288-0-0</p> 	<p>Sure-Flex™ KEE HP Adhered Membrane, Insulation/Coverboard Composite Top Layer, & Insulation Base Layer With Air/Vapor Barrier</p>  <p>Option 8 60 PSF FMR: 40027-0-0</p> 	
	<p>Sure-Flex™ KEE HP Adhered Membrane, Coverboard, & Insulation Fastened Thermal Barrier With Air/Vapor Barrier</p>  <p>Option 1A 100 PSF FMR: 444691-0-0 With Detect TruCover® Conductive Primer for Electronic Leak Detection</p> 	<p>Sure-Flex™ KEE HP Adhered Membrane & Coverboard, Fastened Insulation With Air/Vapor Barrier</p>  <p>Option 4A 100 PSF FMR: 455034-0-0</p> 	<p>Sure-Flex™ KEE HP Adhered Membrane & Insulation/Coverboard Composite Top Layer, Fastened Insulation Base Layer With Air/Vapor Barrier</p>  <p>Option 5A 100 PSF FMR: 455634-0-0</p> 	<p>Sure-Flex™ KEE HP Adhered Membrane, Coverboard, & Insulation With Air/Vapor Barrier</p>  <p>Option 6A 60 PSF FMR: 402451-0-0 With Detect TruCover® Conductive Primer for Electronic Leak Detection</p> 	<p>Sure-Flex™ KEE HP Adhered Membrane, Insulation/Coverboard Composite Top Layer, & Insulation Base Layer With Air/Vapor Barrier</p>  <p>Option 8A 100 PSF FMR: 400294-0-0</p> 	
	FleeceBACK® KEE HP	<p>FleeceBACK® KEE HP Adhered Membrane, Coverboard, & Insulation Fastened Thermal Barrier With Air/Vapor Barrier</p>  <p>Option 2 60 PSF FMR: 344688-0-0</p> 	<p>FleeceBACK® KEE HP Adhered Membrane & Coverboard, Fastened Insulation With Air/Vapor Barrier</p>  <p>Option 3 60 PSF FMR: 365034-0-0</p> 		<p>FleeceBACK® KEE HP Adhered Membrane, Coverboard, & Insulation With Air/Vapor Barrier</p>  <p>Option 7 60 PSF FMR: 324547-0-0</p> 	
		<p>FleeceBACK® KEE HP Adhered Membrane, Coverboard, & Insulation Fastened Thermal Barrier With Air/Vapor Barrier</p>  <p>Option 2A 60 PSF FMR: 345895-0-0</p> 	<p>FleeceBACK® KEE HP Adhered Membrane & Coverboard, Fastened Insulation With Air/Vapor Barrier</p>  <p>Option 3A 100 PSF FMR: 476228-0-0</p> 		<p>FleeceBACK® KEE HP Adhered Membrane, Coverboard, & Insulation With Air/Vapor Barrier</p>  <p>Option 7A 100 PSF FMR: 346593-0-0</p> 	

KEE HP Data Center Roof Type Schedule									
Option #	Type	Deck Type	FM Assembly #	Wind Pressure Uplift Rating	Interior Fire Rating	Exterior Fire Rating	Type Comments	Manufacturer	
1	Sure-Flt [®] KEE HP-FM 403031-00	Matel Deck	403031-00	90	1	A	Ahmed Membrane, Coverboard, & Insulation Partial Insulation Base Layer With No Vapor Barrier	Carlisle SynTec Systems	
1A	Sure-Flt [®] KEE HP-FM 42401-00	Matel Deck	42401-00	90	1	A	Ahmed Membrane, Coverboard, & Insulation Partial Insulation Base Layer With No Vapor Barrier	Carlisle SynTec Systems	
2	Flexceaback [®] KEE HP-FM 384890-00	Matel Deck	384890-00	90	1	A	Ahmed Membrane, Coverboard, & Insulation Partial Insulation Base Layer With No Vapor Barrier	Carlisle SynTec Systems	
3	Flexceaback [®] KEE HP-FM 341650-00	Matel Deck	341650-00	90	1	A	Ahmed Membrane, Coverboard, & Insulation Partial Insulation Base Layer With No Vapor Barrier	Carlisle SynTec Systems	
3A	Flexceaback [®] KEE HP-FM 380520-00	Matel Deck	380520-00	90	1	A	Ahmed Membrane, Coverboard, & Insulation Partial Insulation Base Layer With No Vapor Barrier	Carlisle SynTec Systems	
3B	Flexceaback [®] KEE HP-FM 470220-00	Matel Deck	470220-00	120	1	A	Ahmed Membrane, Coverboard, & Insulation Partial Insulation Base Layer With No Vapor Barrier	Carlisle SynTec Systems	
4	Sure-Flt [®] KEE HP-FM 518834-00	Matel Deck	518834-00	105	1	A	Ahmed Membrane, Coverboard, & Insulation Partial Insulation Base Layer With No Vapor Barrier	Carlisle SynTec Systems	
5	Sure-Flt [®] KEE HP-FM 458513-00	Matel Deck	458513-00	135	1	A	Ahmed Membrane, Coverboard, & Insulation Partial Insulation Base Layer With No Vapor Barrier	Carlisle SynTec Systems	
5A	Sure-Flt [®] KEE HP-FM 454551-00	Matel Deck	454551-00	105	1	A	Ahmed Membrane, Coverboard, & Insulation Partial Insulation Base Layer With No Vapor Barrier	Carlisle SynTec Systems	
5B	Sure-Flt [®] KEE HP-FM 452634-00	Matel Deck	452634-00	150	1	A	Ahmed Membrane, Coverboard, & Insulation Partial Insulation Base Layer With No Vapor Barrier	Carlisle SynTec Systems	
6	Sure-Flt [®] KEE HP-FM 354266-00	Structural Concrete	354266-00	90	NC	A	Ahmed Membrane, Coverboard, & Insulation Partial Insulation Base Layer With No Vapor Barrier	Carlisle SynTec Systems	
6A	Sure-Flt [®] KEE HP-FM 452467-00	Structural Concrete	452467-00	90	NC	A	Ahmed Membrane, Coverboard, & Insulation Partial Insulation Base Layer With No Vapor Barrier	Carlisle SynTec Systems	
7	Flexceaback [®] KEE HP-FM 324847-00	Structural Concrete	324847-00	90	NC	A	Ahmed Membrane, Coverboard, & Insulation Partial Insulation Base Layer With No Vapor Barrier	Carlisle SynTec Systems	
7A	Flexceaback [®] KEE HP-FM 384890-00	Structural Concrete	384890-00	105	NC	A	Ahmed Membrane, Coverboard, & Insulation Partial Insulation Base Layer With No Vapor Barrier	Carlisle SynTec Systems	
8	Sure-Flt [®] KEE HP-FM 408222-00	Structural Concrete	408222-00	90	NC	A	Ahmed Membrane, Coverboard, & Insulation Partial Insulation Base Layer With No Vapor Barrier	Carlisle SynTec Systems	
8A	Sure-Flt [®] KEE HP-FM 403634-00	Structural Concrete	403634-00	135	NC	A	Ahmed Membrane, Coverboard, & Insulation Partial Insulation Base Layer With No Vapor Barrier	Carlisle SynTec Systems	

