Sure-Seal®/Sure-White®/Sure-Tough™ Sure-Seal® SAT™, FleeceBACK®, & FleeceBACK® RL™ EPDM Roof Families
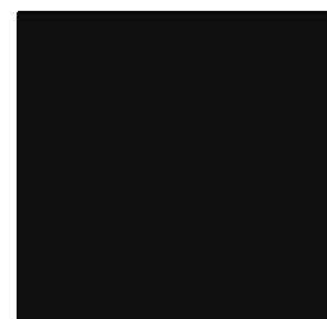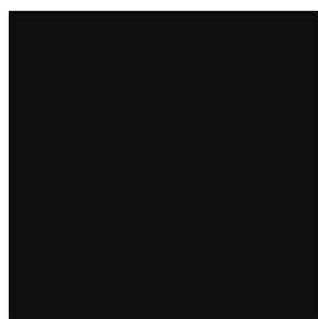
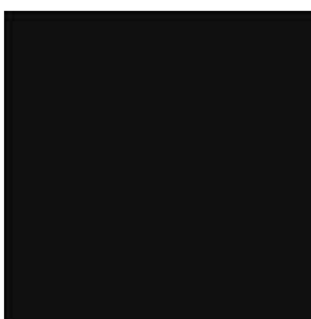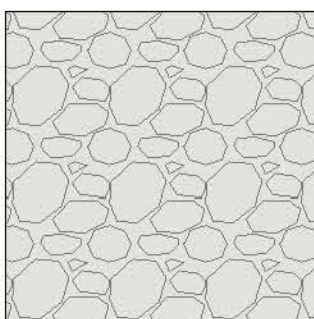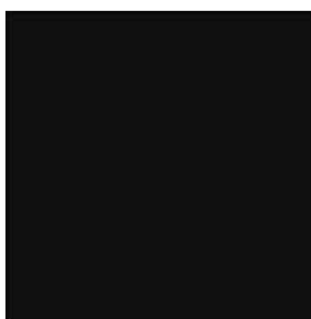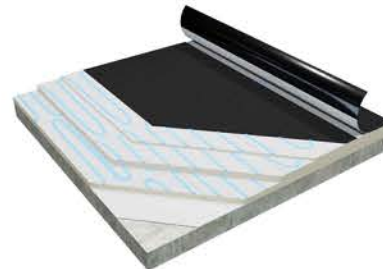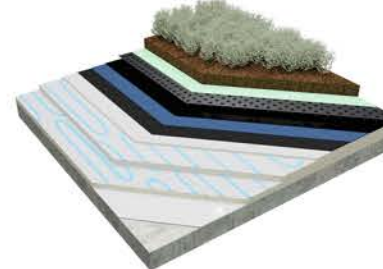| EPDM FULLY ADHERED	EPDM SELF ADHERED	EPDM MECHANICALLY FASTENED	EPDM BALLASTED	FLEECE EPDM	HOOK & LOOP ATTACHED FLEECE EPDM	EPDM VEGETATED ROOF TRADITIONAL	FLEECE EPDM VEGETATED ROOF TRADITIONAL
Sure-Seal® Sure-White® Sure-Tough™	Sure-Seal® SAT™	Sure-Tough™	Sure-Seal®	FleeceBACK® EPDM	FleeceBACK® RL™ (RapidLock) EPDM	Traditional Roof Garden With Sure-Seal®, Sure-White®, or Sure-Tough™ Membrane	Traditional Roof Garden With FleeceBACK® EPDM Membrane
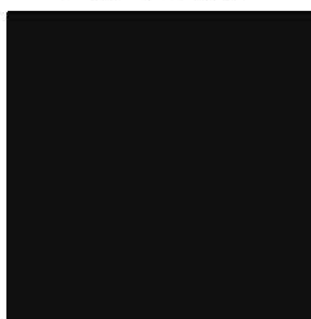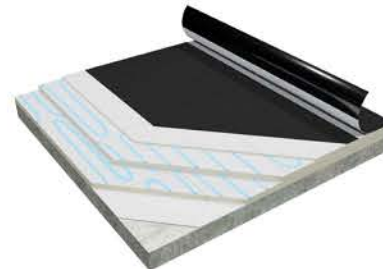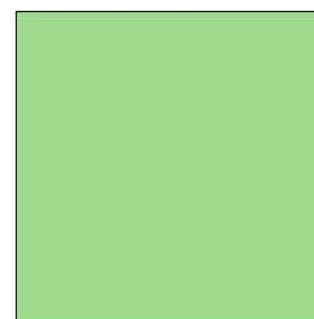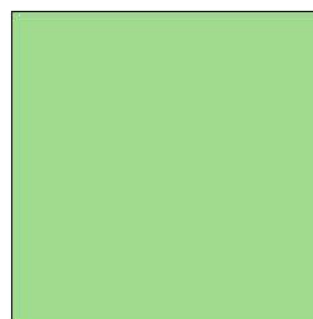
Revit Model Families Notes
General
The Revit model families provided contain multiple product selections for:
- Membranes
- Membrane Bonding Adhesives
- Coverboards
- Insulations
- Growth Media Depths (Roof Garden Assemblies Only)

Please select only one product for each of these layers to use and remove/delete the other products. This allows the customization of your roof assembly to meet your product selections.

**Choosing a Carlisle Roof Assembly Family for your project**

1. Navigate to the Roof Assembly which you would like to use.
2. Click on the Family or square shown above the Isometric of the roof assembly.
3. Copy the family to your clipboard by selecting Ctrl + C on your keyboard.
4. Navigate to your project file you wish to import the family.
5. Paste the family from your clipboard by selecting Ctrl + V on your keyboard.
6. When creating a new roof, choose the Carlisle Roof Assembly from your choices of Roof Families.

Editing the Family by Product Selection

1. Select the Family you wish to use, Adhered Assembly, Mechanically Fastened, etc.
2. Import the Carlisle Roof Assembly Family into your project.
3. In your project file, select the Carlisle Roof Assembly Family and double click, this opens the Family Property Box.
4. Open the Edit Construction tab within the Type Parameters Box.
5. Select the membrane(s) you are not using for your project from the list and click on it.
6. This highlights the selection. Click on Delete from the action buttons at the bottom of the list.
7. NOTE: This action will need to be repeated for each membrane deletion.
8. Repeat Step 5-7 for Membrane Bonding Adhesive, Coverboards, Insulations and Growth Media Depth, if using a Roof Garden Assembly Family.

Traditional Roof Garden Families Selection Notes:

1. Edit Core Boundary Roof Components as directed above.

2. Once growth media depth has been determined, delete extraneous growth media layers
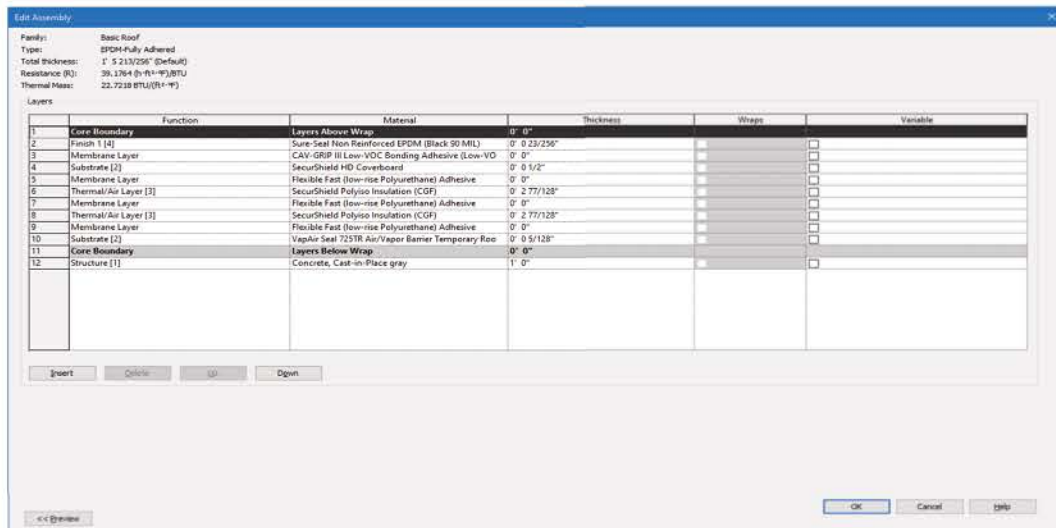
RapidLock (RL™) System Attachment & Roof Family Material Selection Notes:

1. Hook substrate must be positioned as the uppermost layer of the roofing assembly prior to installation of FleeceBACK® RapidLock (RL™) EPDM Membrane.
2. Where coverboard is required/desired, SecurShield® HD RL™ Coverboard shall be used above 2 layers of SecurShield® or InsulBase® Polyiso. SecurShield® HD RL™ Coverboard & subsequent layers of insulation shall be secured by either plates & fasteners **or** Flexible FAST™ (Low-Rise Polyurethane) Adhesive.
3. Where coverboard is not required, SecurShield® HD RL™ shall be omitted in lieu of 2 layers of polyiso insulation, of which SecurShield® RL™ Polyiso **or** InsulBase® RL™ Polyiso is the topmost layer prior to FleeceBACK® RapidLock (RL™) EPDM Membrane . The base layer shall not contain a hook substrate and shall be either SecurShield® Polyiso **or** Insulbase® Polyiso, respectively. Insulation layers shall be secured by either use of plates & fasteners **or** Flexible FAST™ Adhesive.
4. All layers of Flexible FAST™ (Low-Rise Polyurethane) Adhesive shall be omitted when utilizing plates and fasteners as insulation/coverboard securement method.
5. SecurShield® HD RL™ Coverboard shall be used in projects where InsulFoam EPS is selected as the primary insulating roof board.

InsulFoam EPS Insulation Roof Family Material Selection Notes:

1. InsulFoam EPS is not compatible with solvent-based adhesives. If solvent based adhesives are to be used, a coverboard must separate the membrane adhesive from the EPS insulation.
2. Flexible FAST™ (Low-Rise Polyurethane) Adhesive is compatible for direct attachment in Fully adhered systems between:
   A. VapAir Seal MD/ 725TR air and vapor barrier (where used) and lower insulation layer
   B. Structural Deck and lower insulation layers where air/vapor barrier is not utilized
   C. EPS Insulation layers
   D. Coverboards and insulation
   E. FleeceBACK® membranes (excluding FleeceBACK® RL™ membranes) and coverboards/EPS insulation.
3. Coverboards must be selected when selecting InsulFoam EPS Insulation for use in Self Adhering (SAT™) Membrane Systems.

Fully Adhered RapidLock (RL™) System Example:
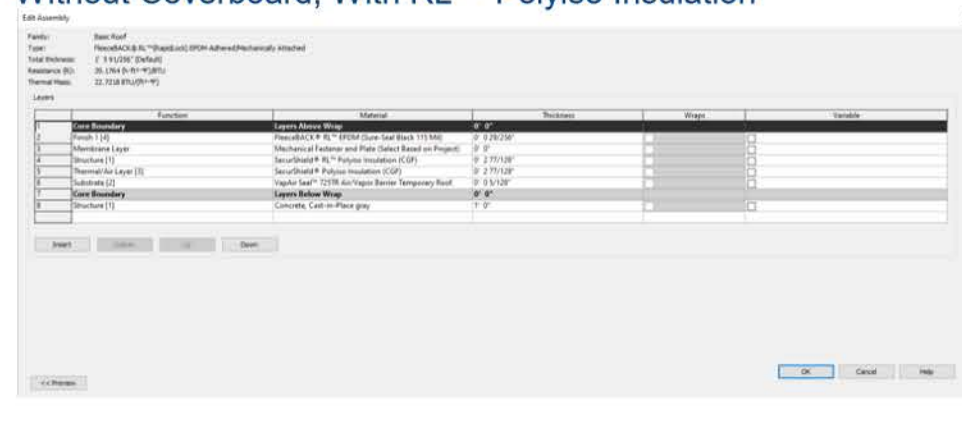With RL™ Coverboard and Standard Polyiso Insulation
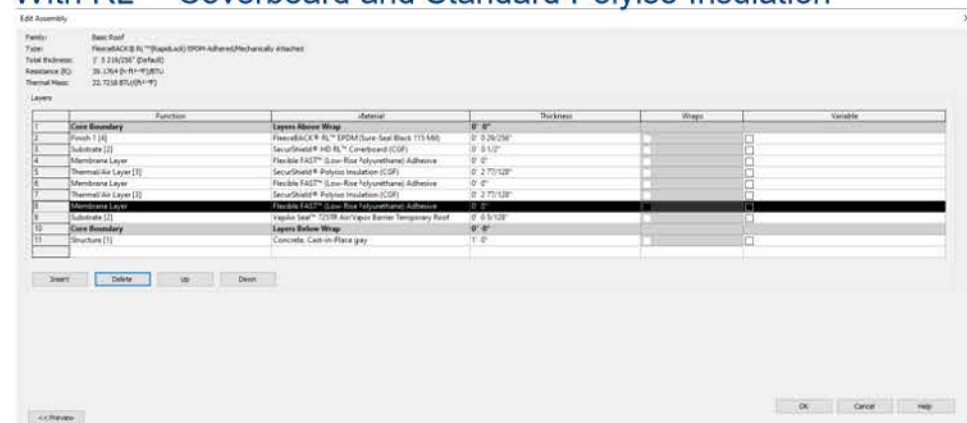
Mechanically Attached RapidLock (RL™) System Example:
With RL™ Coverboard and Standard Polyiso Insulation

Fully Adhered RapidLock (RL™) System Example:
Without Coverboard, With RL™ Polyiso Insulation

Mechanically Attached RapidLock (RL™) System Example:
Without Coverboard, With RL™ Polyiso Insulation

Fully Adhered RapidLock (RL™) System Example:
With RL™ Coverboard and InsulFoam EPS Insulation

Delete Layers to match desired Assembly

CARLISLE SYNTEC SYSTEMS