

RoofNav

Quick Start Guide

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Registration and Login

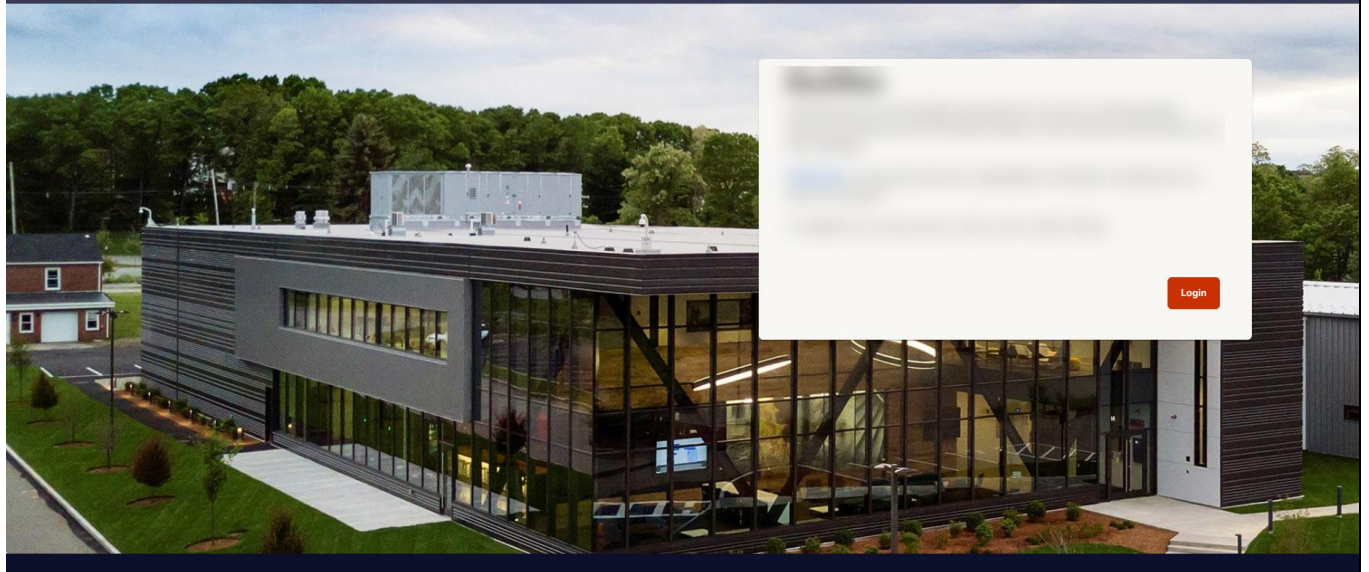
This is the new home page for RoofNav.

<https://roofnav.app.fmglobal.com/>

NOTE: You will need to register for a new account as your current roofnav.com account has not been copied over.

1. Click on the “Login” button to login or create a new account.

FMI Approvals | RoofNav



There are two ways to login to the new RoofNav.

1. Register with a username and password. See arrow #1
2. If your company utilizes single-sign-on via Azure Active Directory or a Microsoft based account for OneDrive or Live.com click on "Sign in using your organization's credentials" see arrow #2
 - a. If you're not sure, try "Sign in using your organization's credentials" as this will use your existing account and does not require another password.



Approvals

Sign in with your email address

[Forgot your password?](#)

Sign in

[Don't have an account? Sign up now](#)



Have your own Azure AD account?

Sign in using your organization's
credentials



Register with single sign-on

3. After clicking on "Sign in using..." you'll be prompted to select an account.

- a. #1 is if your company utilizes single sign-on
- b. #2 if you have a Microsoft based account.

NOTE: The accounts shown for you will not necessarily have an fmglobal.com or gmail.com extension.

4. If this screen displays nothing, then click on the back arrow on your browser to register for a new account.



Pick an account



[redacted]@fmglobal.com
Connected to Windows

1



[redacted]@gmail.com
Signed in

2



Use another account

5. Enter password associated with the account you selected.



Enter password

Because you're accessing sensitive info, you need to verify your password.

Password

[Forgot password?](#)

[Other ways to sign in](#)

[Sign in with a different Microsoft account](#)

Sign in

6. Complete the brief registration page and click on "Create."

NOTE: All fields are required

[Cancel](#)

Approvals

Please provide the following details.

Verification is necessary. Please click Send button.

Send verification code

New Password

Confirm New Password

Display Name

Given Name

Surname

Company Name

Industry Type

Industry Type



Country

Country



Create

Register without single sign-on

To register for a new account if your company does not utilize single-sign-on via Azure Active Directory or don't have a Microsoft based account for OneDrive or Live.com

7. Click on "Sign up now"



Approvals

Sign in with your email address

Forgot your password?

Sign in

Don't have an account? [Sign up now](#)



Have your own Azure AD account?

Sign in using your organization's
credentials

8. Enter your email address. See box #1
9. Click on "Send verification code." See box #2.
 - a. This will send a one time code to validate your email address.

NOTE: Do NOT fill out all the other fields until you have received and verified the code.

Cancel  **Approvals**

Please provide the following details.

Verification is necessary. Please click Send button.

Email Address 1

Send verification code 2

New Password

Confirm New Password

Display Name

Given Name

Surname

Company Name

Industry Type

Industry Type ▼

Country

Country ▼

Create

10. If you don't see an email, check your Spam folder as the sender is msonlineserviceteam@microsoftonline.com

prodfmgidp2 account email verification code



Microsoft on behalf of prodfmgidp2 <msonlineserviceteam@microsoftonline.com>
to

3:11PM

Verify your email address

Thanks for verifying your [John Doe](#) account!

Your code is: [redacted]

Sincerely,
prodfmgidp2

11. Type in the code you received the "Verification code" box and click on "Verify code." See box #1.

- a. The code is time sensitive and it may state the time has expired. If this occurs, you will have to click on "Send new code"

< Cancel



Verification code has been sent to your inbox. Please copy it to the input box below.

Verification code

1

Verify code

Send new code

New Password

Confirm New Password

12. Once you've been verified, enter in a new password and fill out the remaining fields.

NOTE: Passwords must be 8-16 characters, containing 3 out of 4 of the following: Lowercase characters, uppercase characters, digits (0-9), and one or more of the following symbols: @ # \$ % ^ & * - _ + = [] { } | \ : ' , ? / ` ~ " () ; .

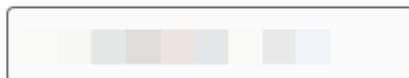
[Cancel](#)



Approvals

Please provide the following details.

E-mail address verified. You can now continue.



Change e-mail

New Password

Confirm New Password

Display Name

Given Name

Surname

Company Name

Industry Type

Industry Type



Country

Country



Create

Landing Page

1. After login, users are directed to the landing page.
2. To perform an assembly search, click on the “Assembly Properties” to expand the menu.
3. To perform an assembly search by specifying the layers directly, click on “Roof Layers” to expand the menu.
4. **NEW:** “Assembly Properties” and “Roof Layers” search are connected, meaning the Assembly Characteristics and Assembly ratings you select in “Assembly Properties” will affect the layers that are available in “Roof Layers” and roof layers will be automatically added if there are no other choices for those layers available. See examples below.

FM Approvals | RoofNav

Enter Assembly #       

Assemblies Tools

Reset Search

▼ Assembly Properties

▼ Roof Layers

▲ Preferences

US STANDARD METRIC ⓘ

MANUAL AUTO-REFRESH ⓘ

RoofNav Just Got Easier

FM Approvals welcomes you to RoofNav, your source for the latest information on FM Approved roofing assemblies and products.

To get started immediately, begin making your selections in the Filters area. You will notice your search results being parsed down as you select more attributes. If you have any questions or would like assistance completing successful searches, click on the ? icon at the top of this page.

Quick Tips for Getting Started

Assembly Search



Find FM Approved Roof Assemblies that meet your requirements using Assembly Property and/or Roof Layer filtering.

Ratings Calculator



Use the Ratings Calculator to specify fire and hail ratings and calculate wind uplift.

Product Search



Search for products based on manufacturer, product name, category, and approved use.

5. These are all the Assembly Characteristics and Assembly ratings you can select when searching via an assembly.
 - a. Unless you know the exact roof layer configuration you are looking for, it's suggested you start your assembly search here.
 - b. NOTE: As shown by the red arrow in the picture, you can limit your search results to assemblies with photovoltaics by clicking on "Includes Photovoltaics"

NEW: As you select Assembly Characteristics and Assembly ratings in assembly search, other attributes may be greyed out and cannot be selected because there are no assemblies with that combination of Assembly Characteristics and Assembly ratings. **This is the main feature of the new RoofNav to prevent zero results.**

Assemblies

Tools

Reset

Search

Assembly Properties

Assembly Type

Select

i

Application

NEW ROOF

RE-ROOF

RE-COVER

i

Cover Securement Method

ATTACHED

ADHERED

NONE

i

Deck Type

Select

i

Slope Operator

=

>=

<=

Select

i

Wind Uplift Operator

=

>=

<=

Select

i

Internal Fire Rating

NC

1

i

External Fire Rating

A

B

C

i

Hail Rating

SH

MH

VSH

i

☐ Includes Photovoltaics

Roof Layers

Preferences

RoofNav Just Got Eas

FM Approvals welcomes you to RoofNav, y

To get started immediately, begin making
like assistance completing successful se

Quick Tips for Getting Sta

Assembly Search



Find FM Approved Roof Assembl
requirements using Assembly Propert
filtering.

6. You can add a layer by clicking on “Add layer”. See Arrow #1
7. The “structure” layer is always available and will always be at the bottom of the roof layer configuration.
8. You can also exclude a single layer or multiple layers by selecting “Exclude Layer(s)”. See Arrow #2
 - a. Excluding layers is helpful if you know there are layers that you do not want to include in the search results.
9. **NEW:** The order of the roof layers will be displayed as they should be designed. The new RoofNav will allow you to add roof layers and layer types that are allowable. If a layer is not available or the layer type is not selectable, then there are no assemblies that match that configuration.

Assembly Properties

Roof Layers

Add Roof Layers by clicking the + where you would like the new layer to be added. Search results will be refined.

+ Add Layer

Structure

Exclude Layer(s)

Select

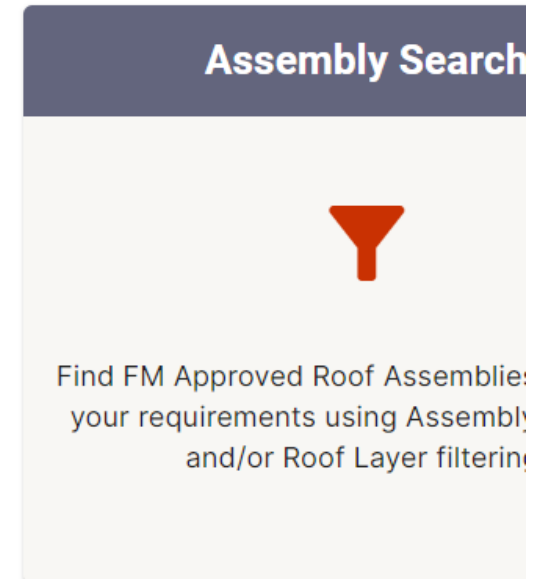
Preferences

US STANDARD METRIC

MANUAL AUTO-REFRESH

To get started immediately, begin making your assemblies. If you have any questions, contact your account manager.

Quick Tips for Getting Started



Assembly Search

1. To perform an assembly search, select the Assembly Characteristics and Assembly Ratings applicable to your search.

NEW: As you select Assembly Characteristics and Assembly ratings in Assembly search, other attributes may be greyed out and cannot be selected because there are no assemblies with that combination of Assembly Characteristics and Assembly ratings. **This is the main feature of the new RoofNav to prevent zero results.** See arrow #1.

2. After each selection, Click on “Search” button. See arrow #2.
3. The matching Assemblies will be displayed sorted by “Roof Type.” See arrow #3.

NEW: “Roof Type” view sorts the assemblies based on identical layer configuration. The number next to each “Roof Type” corresponds to the number of matching assemblies in that “Roof Type”. See arrow #4.

4. To share your search criteria, click on “Share.” See arrow #5.

NEW: Instead of taking screen shots of your search criteria, you can now share it via email and whoever clicks on it will be brought to RoofNav with your search criteria.

The screenshot displays the RoofNav Assembly Search interface. On the left, the 'Assembly Properties' sidebar contains various filters: Assembly Type (Single-Ply System), Application (NEW ROOF, RE-ROOF, RE-COVER), Cover Securement Method (ATTACHED, ADHERED, NONE), Deck Type (Steel), Slope Operator (=, >=, <=), Wind Uplift Operator (=, >=, <=), Internal Fire Rating (NC, 1), External Fire Rating (A, B, C), and Hail Rating (SH, MH, VSH). A 'Search' button is at the top right of the sidebar. Below the filters are sections for 'Roof Layers' and 'Preferences' (US STANDARD, METRIC). The main area shows '43392 Matching Assemblies' and a 'View Results by' dropdown set to 'ROOF TYPE'. A list of assembly results follows, each with a number and a breadcrumb trail of its components. A 'Share' button is in the top right corner.

Assembly Properties

Assembly Type: Single-Ply System

Application: NEW ROOF, RE-ROOF, RE-COVER

Cover Securement Method: ATTACHED, ADHERED, NONE

Deck Type: Steel

Slope Operator: =, >=, <=

Wind Uplift Operator: =, >=, <=

Internal Fire Rating: NC, 1

External Fire Rating: A, B, C

Hail Rating: SH, MH, VSH

Includes Photohails

Roof Layers

Preferences: US STANDARD, METRIC

43392 Matching Assemblies

View Results by: ROOF TYPE, ASSEMBLY

4735 Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > Securement (Board Stock) > Vapor Retarder > (Deck) Steel > Securement (Deck) > Structure

3557 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) > Vapor Retarder > Thermal Barrier > (Deck) Steel > Securement (Deck) > Structure

2984 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) > Thermal Barrier > (Deck) Steel > Securement (Deck) > Structure

2376 Cover (Single-ply) > Securement (Cover) > Substrate Primer > Cover Board > Securement (Board Stock) > Insulation (Board Stock) > Thermal Barrier > Vapor Retarder > (Deck) Steel > Securement (Deck) > Structure

1908 Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > Securement (Board Stock) > Vapor Retarder > (Deck) Steel > Structure

1907 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) > Thermal Barrier > (Deck) Steel > Structure

1810 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) > Thermal Barrier > Vapor Retarder > (Deck) Steel > Securement (Deck) > Structure

1761 Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > Securement (Board Stock) > (Deck) Steel > Securement (Deck) > Structure

1235 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) > Vapor Retarder > (Deck) Steel > Securement (Deck) > Structure

1224 Cover (Single-ply) > Securement (Cover) > Substrate Primer > Cover Board > Securement (Board Stock) > Insulation (Board Stock) > Thermal Barrier > Vapor Retarder > (Deck) Steel > Structure

1067 Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > Securement (Board Stock) > Vapor Retarder > Thermal Barrier > (Deck) Steel > Securement (Deck) > Structure

900 Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > Securement (Board Stock) > Vapor Retarder > Thermal Barrier > (Deck) Steel > Structure

887 Cover (Single-ply) > Securement (Cover) > Substrate Primer > Cover Board > Securement (Board Stock) > Insulation (Board Stock) > Vapor Retarder > (Deck) Steel > Securement (Deck) > Structure

877 Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > Securement (Board Stock) > (Deck) Steel > Structure

642 Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > Securement (Board Stock) > Insulation (Board Stock) > Vapor Retarder > (Deck) Steel > Securement (Deck) > Structure

624 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) > Vapor Retarder > Thermal Barrier > (Deck) Steel > Structure

545 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) > Thermal Barrier > Vapor Retarder > (Deck) Steel > Structure

538 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) > (Deck) Steel > Securement (Deck) > Structure

517 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) > Vapor Retarder > (Deck) Steel > Structure

513 Coating/Surfacing > Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) > Vapor Retarder > (Deck) Steel > Structure

507 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) > Vapor Retarder > Securement > Substrate Primer > Thermal Barrier > (Deck) Steel > Securement (Deck) > Structure

484 Coating/Surfacing > Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > Securement (Board Stock) > Vapor Retarder > (Deck) Steel > Securement (Deck) > Structure

479 Coating/Surfacing > Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) > Vapor Retarder > (Deck) Steel > Securement (Deck) > Structure

460 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) > (Deck) Steel > Structure

424 Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > (Deck) Steel > Securement (Deck) > Structure

401 Coating/Surfacing > Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > Securement (Board Stock) > Vapor Retarder > (Deck) Steel > Structure

Share

Share assembly search										
5. After clicking on “Share”, the unique URL will be displayed in a pop-up that you can then copy and paste to an email to share.	Share Click below to copy your shareable link. https://roofnav. [REDACTED] Copy Link									
Saving assembly search										
1. To save an assembly search click on the “Save” icon on the top right corner of your search results.	227168 Matching Assemblies View Results by ROOF TYPE ASSEMBLY 16998 Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > Securement (Board Stock) > Existing Roof > Structure 6872 Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > Securement (Board Stock) > (Deck) Structural Concrete > Structure Share Save									
2. Enter in name for the saved search and click on “Save”	Save Search Save search criteria to your account. Save As:* Save									
3. Your saved searches will appear in your “My Saved Items” under “Saved Searches” 4. To open your saved search – click on the name of the search.	My Saved Items Projects Unassigned Scenarios Contacts Saved Searches <table><tr><th>Saved Name</th><th>Saved On</th><th></th></tr><tr><td>test save 1</td><td>16-Dec-2024</td><td>Rename </td></tr><tr><td>test save 2</td><td>16-Dec-2024</td><td>Rename </td></tr></table>	Saved Name	Saved On		test save 1	16-Dec-2024	Rename	test save 2	16-Dec-2024	Rename
Saved Name	Saved On									
test save 1	16-Dec-2024	Rename								
test save 2	16-Dec-2024	Rename								

Roof Type View

1. Click on row with the “Roof Type” to open the matching assemblies. See arrow.
2. The “Roof Type Summary” screen will slide open to show the matching Assemblies. See box #1.
3. To return to the “Roof Type” view, click on “Back”, box #1 or click outside of the “Roof Type Summary” view. See Box #2
4. Click on any Assembly to view its details.

43392 Matching Assemblies

View Results by: **ROOF TYPE** ASSEMBLY

Assembly Properties

Assembly Type: Single-Ply System

Roof Type Summary (3557 assemblies)

1 Back

Assembly #	Cover	Application	Securement	Deck	Wind Uplift	I/Fire	E/Fire	Slope	Hail
105019-0-0	Single-Ply System	New Roof	Attached	Steel	105	1	A	1	SH
105056-0-0	Single-Ply System	New Roof	Attached	Steel	105	1	A	1	SH
105058-0-0	Single-Ply System	New Roof	Attached	Steel	105	1	A	1	SH
108236-0-0	Single-Ply System	New Roof	Attached	Steel	90	1	A	2	SH
108246-0-0	Single-Ply System	New Roof	Attached	Steel	105	1	A	2	SH
108248-0-0	Single-Ply System	New Roof	Attached	Steel	105	1	A	2	SH
108288-0-0	Single-Ply System	New Roof	Attached	Steel	120	1	A	2	SH

2

Assembly View

1. To view the search results by Assemblies, click on “Assembly.” See arrow 1.
2. To sort the columns, click on the up or down icon. See arrow #2.

166284 Matching Assemblies

View Results by: **ROOF TYPE** **ASSEMBLY**

Share Save

Assembly #	Cover	Application	Securement	Deck	Wind Uplift	I/Fire	E/Fire	Slope	Hail
98-0-0	Single-Ply System	New Roof	Attached	Steel	90	1	A	1.5	SH
99-0-0	Single-Ply System	New Roof	Adhered	Structural Concrete	90	NC	A	0.5	SH
102-0-0	Single-Ply System	New Roof	Adhered	Structural Concrete	840	NC	A	2	SH
138-0-0	Single-Ply System	New Roof	Attached	Steel	90	1	A	1.5	SH
140-0-0	Single-Ply System	New Roof	Adhered	Structural Concrete	615	NC	A	0.5	SH
142-0-0	Single-Ply System	New Roof	Attached	Steel	60	1	A	1.5	SH
143-0-0	Single-Ply System	New Roof	Adhered	Structural Concrete	90	NC	A	0.5	SH
238-0-0	Single-Ply System	New Roof	Attached	Steel	60	1	A	1	SH

1

2

3. By default, the number of assemblies shown in one page is limited to 25, to change you can click on 25 to increase. See arrow #3.

4. To see the next page of Assemblies, click on 2, 3, 4..." at the bottom of the page. See arrow #4.

252-0-0	Single-Ply System	New Roof	Attached	Steel	60	1	A	1.5	SH
253-0-0	Single-Ply System	New Roof	Attached	Steel	60	1	A	1.5	SH
254-0-0	Single-Ply System	New Roof	Attached	Steel	90	1	A	1.5	SH
255-0-0	Single-Ply System	New Roof	Attached	Steel	90	1	A	1.5	SH
256-0-0	Single-Ply System	New Roof	Attached	Steel	90	1	A	1.5	SH
257-0-0	Single-Ply System	New Roof	Attached	Steel	90	1	A	1.5	SH

Showing 1 to 25 of 166284 rows

25

 rows per page

< previous12345...665066516652next >

Assembly Detail View

1. Click on any assembly to open the assembly detail view.

NOTE: To exit this view, click on the back button. See #1

Assembly Detail

Assembly #	98-0-0	Wind Uplift	90
Roof System	Single-Ply System	Internal Fire	1
Application	New Roof	External Fire	A
Cover Securement	Attached	Hail	SH
Deck Type	Steel	Slope	1.5

Save to My Projects

Reset Selections

* FM Approved roofs must also have corner (Zone 3) and perimeter (Zone 2) enhancements and FM Approved perimeter flashing. For details, see DS 1-29 and 1-49. For Standing/Lap Seam roofs, see DS 1 - 31.
Adobe Acrobat Reader version 6.0 or later is required to open Property Loss Prevention Data Sheets. Click here to download this software for free.

Assembly Details

1. Cover (Single-ply)

View

View

View

View

V1.5.3

Open Assembly view in new tab

To open an assembly detail view in a new tab:

1. Hold down the “Ctrl” button on your keyboard and then click on the assembly name you want to open in a new tab.
2. The assembly you selected will open in a new tab.

166284 Matching Assemblies

View Results by

ROOF TYPE ASSEMBLY

Share Save

Assembly #	Cover	Application	Securement	Deck	Wind Uplift	I/Fire	E/Fire	Slope	Hail
98-0-0	Single-Ply System	New Roof	Attached	Steel	90	1	A	1.5	SH
99-0-0	Single-Ply System	New Roof	Adhered	Structural Concrete	90	NC	A	0.5	SH
102-0-0	Single-Ply System	New Roof	Adhered	Structural Concrete	840	NC	A	2	SH
138-0-0	Single-Ply System	New Roof	Attached	Steel	90	1	A	1.5	SH

Roof Layer Search

NOTE: This example is a continuation of the previous assembly search with

- Assembly type = Single-Ply System
- Application = New Roof
- Cover Securement method = Attached
- Internal Fire Rating = 1

NEW: “Assembly Properties” and “Roof Layers” search are connected. In this example, “Cover – Single-ply”, “Securement (Cover) and “Insulation – Board Stock” has been automatically added to the “Roof Layers”

NEW: Automatically added layers cannot be removed as the “X” button has been greyed out. See Arrow #1

NEW: You can edit the layer by clicking on the pencil icon. See Arrow #2

NC1

External Fire Rating

A B C

Hail Rating

SH MH VSH

☐ Includes Photovoltaics

Roof Layers

Add Roof Layers by clicking the + where you would like the new layer to be added. Search results will be refined.

+ Add Layer

Cover - Single-ply

Add Layer

Securement (Cover)

From: Cover - Single-ply - 1

Add Layer

Insulation - Board Stock

Add Layer

Structure

2076 Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > Securement (Board Stock) > Lightweight Ins

1974 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) :

1962 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) :

1932 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) :

1911 Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > Securement (Board Stock) > (Deck) Steel :

1863 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) :

1832 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) :

1677 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) :

1666 Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > Securement (Board Stock) > Coating/Surfac

1610 Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > Vapor Retarder > Existing Roof > Structur

1585 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) :

1479 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) :

1453 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) :

1400 Coating/Surfacing > Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insi

1379 Coating/Surfacing > Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insi

1319 Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > Securement (Board Stock) > Lightweight Ins

1312 Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) :

1257 Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > Securement (Board Stock) > Vapor Retarder

1250 Cover (Single-ply) > Securement (Cover) > Substrate Primer > Cover Board > Securement (Board Stock) > Insi

1223 Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > Securement (Board Stock) > Coating/Surfac

1215 Cover (Single-ply) > Securement (Cover) > Insulation (Board Stock) > Securement (Board Stock) > Coating/Surfac

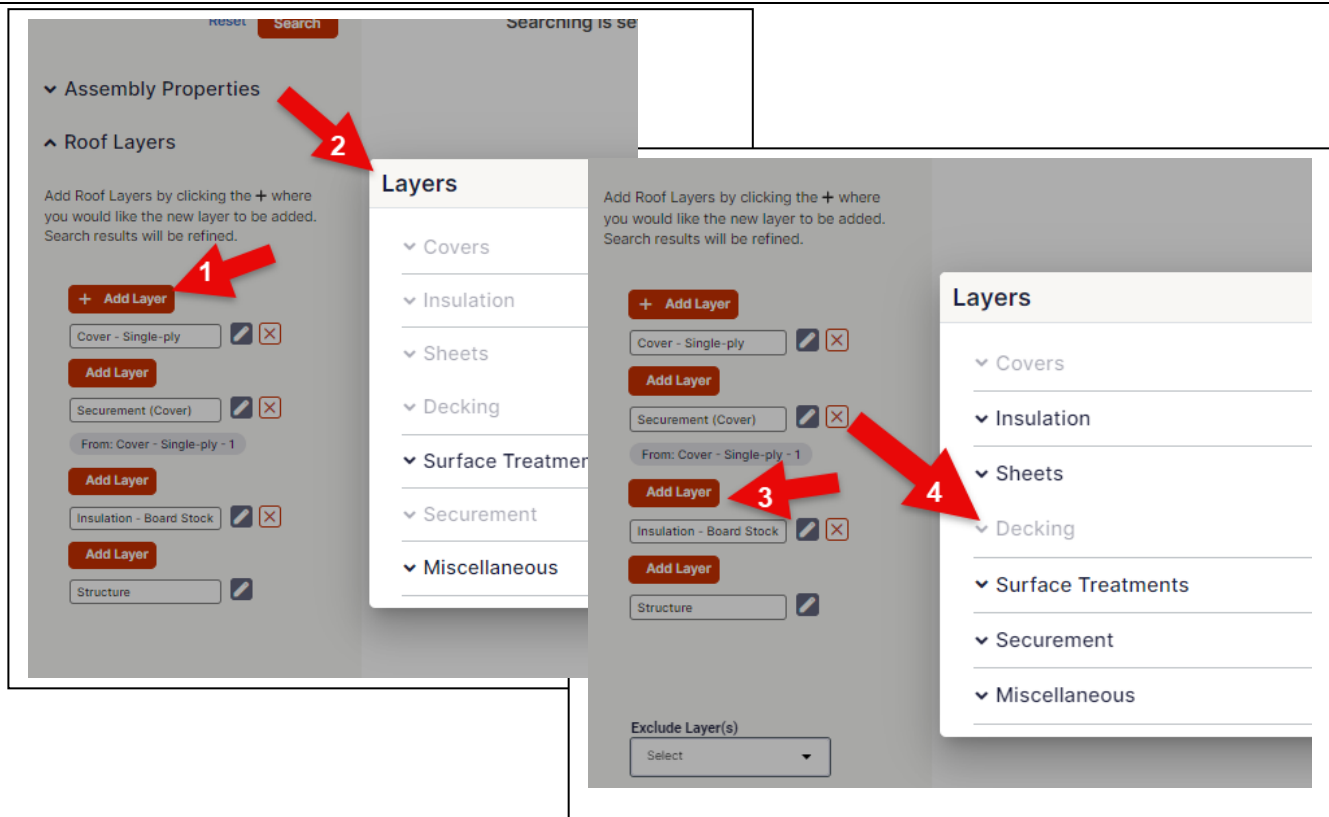
V1.5.3

NEW: You can add additional layers by selecting “Add Layer” button. See Arrow #3.

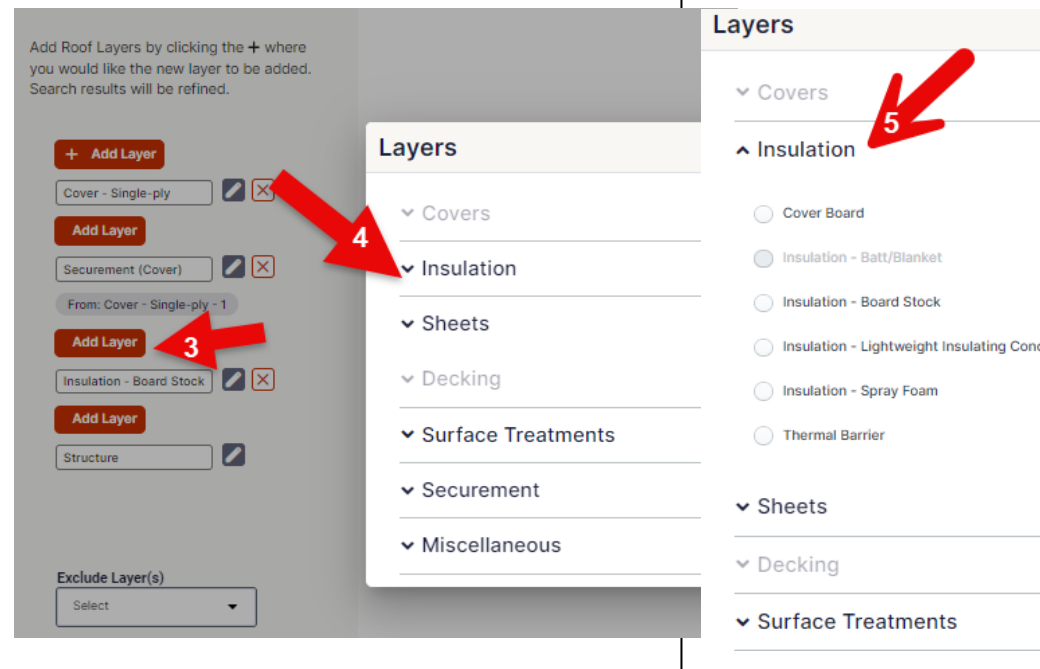
NOTE: There are several “Add layer” buttons that correspond with the position the layer will be in the roof assembly and only valid layers will be made available for selection. See examples below.

Adding Roof Layers

1. Click on the “Add Layer” button at the position you want to add that layer to.
 - a. In this example, clicking on Arrow 1, you will be adding a layer that is on top of the “Cover – Single-Ply.”
 - b. NOTE: In Arrow #2, “Covers”, “Insulation”, “Sheets” and “Decking” are greyed out and unavailable for selection because there are no assemblies with those layers above the “Cover-Single-Ply.”
 - c. NOTE: If you selected the “Add Layer” at Arrow #3, the unavailable and available layers for selection have changed. See Arrow #4.



2. Click on “Add Layer” as shown in Arrow #3
3. When the Layers pop-up appears, click on “Insulation” as shown in Arrow #4.
4. When you click on “Insulation” the available insulation types are shown in Arrow #5.
 - a. NOTE: Only the available insulation types are selectable and the others are greyed out. This is because there are no assemblies available that contain the unavailable insulation types.



Editing a layer

1. Click on the pencil icon to bring up the “Layer Configuration” pop-up for “Securement” cover. See arrow.
2. The following are the available attributes specific for the “Securement” layer.
 - a. Manufacturer (see example below)
 - b. Product (see example below)
 - c. From
 - i. This will be where the securement will start from
 - ii. NOTE: All valid layers will be shown here.
 - d. To
 - i. This is where the securement will finish to
 - ii. NOTE: All valid layers will be shown here. If this is blank, you will need to add additional layers in your configuration.
 - e. Product Category
 - f. Product Subcategory
 - g. Approved Use (see examples below)
 - h. Click OK – when complete
 - i. Click “Reset Layer details” to clear all selections.

The screenshot shows the 'Layer Configuration' dialog box overlaid on a software interface. The dialog has a title bar and a close button (X) in the top right. It contains several sections with dropdown menus and buttons. Annotations 'a' through 'h' are placed over specific elements: 'a' is over the Manufacturer dropdown, 'b' is over the Product dropdown, 'c' is over the 'From' dropdown (showing 'Cover - Single-ply - 1'), 'd' is over the 'To' dropdown (showing 'Select'), 'e' is over the Product category dropdown (showing 'Securement'), 'f' is over the Product subcategory dropdown (showing 'Select'), 'g' is over the Approved Use dropdown (showing 'Select'), and 'h' is over the 'Ok' button. In the background, the 'Assemblies' tab is active, showing 'Assembly Properties' and 'Roof Layers'. A red arrow points from the 'Securement (Cover)' layer in the 'Roof Layers' list to the 'Layer Configuration' dialog.

NOTE: Each layer will have their own set of attributes specific to that layer.

NEW: When you click on Manufacturer”, it will only show the available manufacturers. See Arrow #1. The unavailable manufacturers will be greyed out. See Arrow #2. This applies to Product as well.

Layer Configuration

Securement (Cover) Details

Manufacturer

Warning: This is a read-only field.

1

2

Product

To

Select

Product subcategory

Select

Ok

Cancel

Basic and Advanced Layer Attributes

NOTE: The Basic and Advanced attributes will vary depending on the layer type.

For Securement layers, you must click on "Approved Use" to view the Basic and Advanced Attributes.

Layer Configuration

Fastening (Pre-assembled Fast...) 1

Securement (Cover) Attributes

BASIC **ADVANCED**

Row Spacing: = Select in

On Center: = Select in

Steel Deck Fastener: False

Max Length: = Select in

Min Length: = Select in

Contributory Area: = 0.0000 ft2

Embedment: = 0.0000 in

Field Row On Center: = 0.0000 in

Field Rows: False

Number of Field Rows: 0

Single-ply, Securement (Cover) > Insulation (Board Stock) > Securement (Board Stock) > Coating/Sealing

For all other layer types, you can toggle between Basic and Advanced to see attributes.

When selecting a material (see #1) – it will reduce the number of attributes available for that material.

NEW: Only the available material will be selectable.

Layer Configuration ✕

Cover - Single-ply Details

Manufacturer Product ✕

[+ Add Manufacturer or Product](#)

Cover - Single-ply Attributes

BASIC ADVANCED

Material Backing

(none)

1

- Select
- PVC (polyvinylchloride)
- TPO (thermoplastic olefin)
- CSPE (chlorosulfonated polyethylene)
- EIP (ethylene interpolymers)
- EPDM (ethylene propylene diene monomer)
- KEE (ketone ethylene ester)
- modified bitumen, APP
- modified bitumen, SBS
- steel

NEW: In this example, I selected “EPDM” as the material for this layer and see #1-5 are already pre-selected as there are no other available attributes for this layer.

- “Product” is not pre-filled as there are more than one option available.

Layer Configuration

Cover - Single-ply Details

Manufacturer

Product



[+ Add Manufacturer or Product](#)

Cover - Single-ply Attributes

BASIC

ADVANCED

Material

Backing

Min Thickness

 in

Max Thickness

 in

Max Width

 in

Reinforcement

NOTE: You can collapse "Assembly Properties" (see Arrow #1) to see more of the screen.

- This will not clear the attributes selected in "Assembly Properties"

Assembly Properties Reset

Roof Layers

Add Roof Layers by clicking the + where you would like the new layer to be added. Search results will be refined.

+ Add Layer

Cover - Single-ply ✎ ✕

Add Layer

Securement (Cover) ✎ ✕

From: Cover - Single-ply - 1

Add Layer

Cover Board ✎ ✕

Add Layer

Insulation - Board Stock ✎ ✕

Add Layer

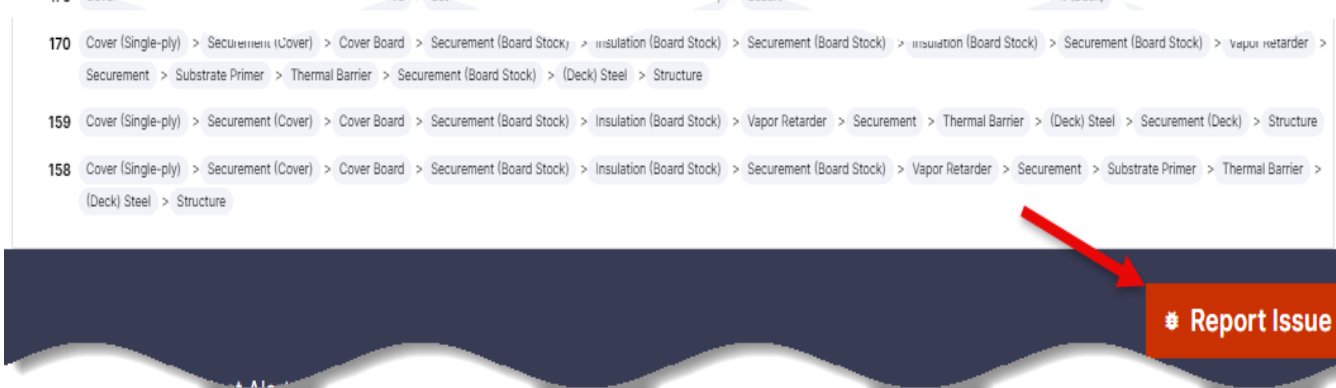
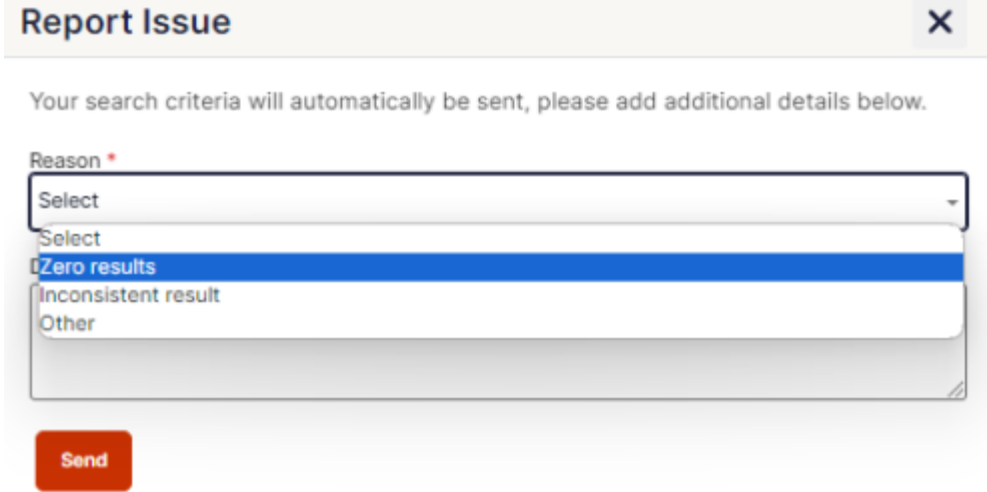
Deck - Steel ✎ ✕

Add Layer

Structure ✎

View Results by TYPE ASSEMBLY

4548	Cover (Single-ply)	>	Securement (Cover)	>	Cover Board	>	Sec
3602	Cover (Single-ply)	>	Securement (Cover)	>	Cover Board	>	Sec
3352	Cover (Single-ply)	>	Securement (Cover)	>	Cover Board	>	Sec
2376	Cover (Single-ply)	>	Securement (Cover)	>	Substrate Primer	>	Structure
1962	Cover (Single-ply)	>	Securement (Cover)	>	Cover Board	>	Sec
1863	Cover (Single-ply)	>	Securement (Cover)	>	Cover Board	>	Sec
1832	Cover (Single-ply)	>	Securement (Cover)	>	Cover Board	>	Sec
1453	Cover (Single-ply)	>	Securement (Cover)	>	Cover Board	>	Sec
1400	Coating/Surfacing	>	Cover (Single-ply)	>	Securement (Cover)	>	Structure
1312	Cover (Single-ply)	>	Securement (Cover)	>	Cover Board	>	Sec
1250	Cover (Single-ply)	>	Securement (Cover)	>	Substrate Primer	>	Structure
984	Coating/Surfacing	>	Cover (Single-ply)	>	Securement (Cover)	>	(Deck) Steel > Structure
969	Cover (Single-ply)	>	Securement (Cover)	>	Cover Board	>	Sec
945	Cover (Single-ply)	>	Securement (Cover)	>	Cover Board	>	Securement (Board Stock) > (Deck) Steel > Structure
932	Cover (Single-ply)	>	Securement (Cover)	>	Substrate Primer	>	Structure
791	Cover (Single-ply)	>	Securement (Cover)	>	Cover Board	>	Sec
776	Coating/Surfacing	>	Cover (Single-ply)	>	Securement (Cover)	>	Structure
707	Cover (Single-ply)	>	Securement (Cover)	>	Cover Board	>	Sec

Report Issue	
NEW: At the bottom right of the window, there is a “Report Issue” button to report any issues/bugs you encounter when you are doing an assembly or roof layer search. 1. Click on the button to bring up the “Report Issue” pop-up.	 The screenshot shows a list of search results for roof assemblies. Each result is a breadcrumb trail of layers. For example, result 170 is: Cover (Single-ply) > Securement (Cover) > Cover Board > Securement (Board Stock) > Insulation (Board Stock) > Securement (Board Stock) > Insulation (Board Stock) > Securement (Board Stock) > Vapor Retarder > Securement > Substrate Primer > Thermal Barrier > Securement (Board Stock) > (Deck) Steel > Structure. At the bottom right of the page, there is a dark blue footer bar with a red button labeled 'Report Issue' with a bug icon. A red arrow points to this button.
2. Select a reason for reporting an issue. 3. Add additional information in the “Describe...” field. a. No need to describe the attributes you selected to cause the issue. All your search criteria and user information will be saved and sent to us to review. 4. Click on Send.	 The screenshot shows the 'Report Issue' pop-up form. It has a title bar with 'Report Issue' and a close button. Below the title bar, it says 'Your search criteria will automatically be sent, please add additional details below.' There is a 'Reason *' dropdown menu with options: 'Select', 'Zero results', 'Inconsistent result', and 'Other'. The 'Zero results' option is currently selected. At the bottom of the form is a red 'Send' button.

Using Product Search

1. Click on the Tool icon either on the tool bar on top or on the main screen.

The screenshot displays the FM Approvals RoofNav web application. At the top, a dark blue header bar contains the 'FM Approvals | RoofNav' logo on the left and a navigation bar on the right. The navigation bar includes a search input field labeled 'Enter Assembly #' with a magnifying glass icon, followed by icons for a funnel (Assembly Search), a calculator (Ratings Calculator), a wrench (Product Search), a home icon, a question mark (Help), and a user profile icon. A red arrow points to the wrench icon in the navigation bar. Below the header, the main content area is divided into three columns. The left column features a 'Products' tab and a 'Product Search' section with filters for Manufacturer, Country, Trade Name, Product category, and Approved Use. The middle column is titled 'RoofNav Just Got Easier' and includes a welcome message and a 'Quick Tips for Getting Started' section. The right column contains three large, light gray boxes with dark blue headers: 'Assembly Search' (with a funnel icon), 'Ratings Calculator' (with a calculator icon), and 'Product Search' (with a wrench icon). A red arrow points to the 'Product Search' box. The 'Product Search' box contains the text: 'Search for products based on manufacturer, product name, category, and approved use.'

You can begin your search by clicking on any of the categories below

Manufacturer

Trade Name

Product Category

Approved Use

NOTE: You can also type the name of the Manufacturer or Trade Name.

Products

[Reset](#)

Product Search

Manufacturer

Country

Trade Name

Product category

Approved Use

- Once you make your selection, the rest of the categories will be filtered to only display the valid options and the matching product results will be display.
- You can select any of the categories on the right window column to view the corresponding products

Products

Reset

Product Search

Manufacturer

Systems

Country

United States of America

Trade Name

Product category

Select

Select

Cover

Deck

Securement

Coating/Surfacing

Flashing

Insulation

Other

Pliable Sheet

Seaming

13 Matching Products

3 Cover >

Cover (Standing/Lap Seam) (3)

2 Deck >

Liner Panel (2)

8 Securement >

Fastening (Clip) (6) / Fastening (Fastener) (2)

4. In this example, I selected "Securement" which displayed the 8 products.

Product Trade Name	Company Name
Galvanized Clips	
Double-Lok Sliding Clips	
24 High Double-Lok Sliding Clips	
Super Sliding Clips	
h Double-Lok Super Sliding Clips	
Galvanized Clips	
Fastening Systems 1/4-14 x 1 1/4 HWH SD Screw	
ystems 1/4-14 x 1 1/4 HWH SD with 15 mm Bonded Washer Screw	

Showing 1 to 8 of 8 rows 25 rows per page

5. Click on any product to view details.	Product Detail Report Company: Systems Trade Name: t G-90 Galvanized Clips Country:
--	--

Document Link:

(none)

Comments:

none

Approved Uses

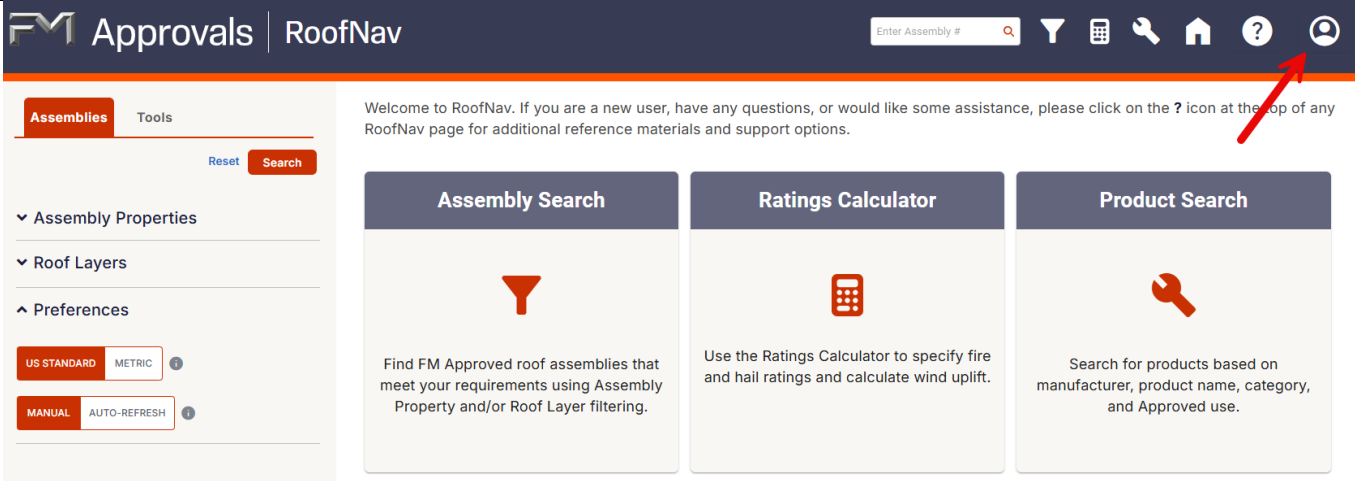
Fastening (Clip)

Material:

steel

Comments:

none

Creating a new “Project” (My Saved Items)	
Projects can have one or more roof areas. A roof area is associated with the project from which it is added. You must have a least one roof area to save a scenario. All Projects will be listed under “My Saved Items” There are two ways to create a project and roof areas; 1) via My Saved Items, 2) Saving a Scenario 1. Click on your Profile Icon and select “My Saved Items” a. “My Saved Items” Screen will appear	 FM Approvals RoofNav Welcome to RoofNav. If you are a new user, have any questions, or would like some assistance, please click on the ? icon at the top of any RoofNav page for additional reference materials and support options. Assembly Search Find FM Approved roof assemblies that meet your requirements using Assembly Property and/or Roof Layer filtering. Ratings Calculator Use the Ratings Calculator to specify fire and hail ratings and calculate wind uplift. Product Search Search for products based on manufacturer, product name, category, and Approved use.
2. Click on “Add New Project”	 FM Approvals RoofNav My Saved Items Projects Unassigned Scenarios Contacts + Add New Project

3. Enter "Project Name" (required) and all other information for the project.
 - a. Only "Project Name" is required, all other fields are optional.
4. Click on "Save" to create new project.

+ Add New Project

SaveAdd Roof Area

Project Details

Project Name: *

Test Project 1

Address 1:

Address Line 1

Address 2:

Address Line 2

City:

City

Country:

Select

ince:

Creating a new “Roof Area” (My Saved Items)

Roof areas must be assigned to a project. To create a new roof area, you must first select an existing project or create a new project.

1. Click on the name of the project from the list of projects or create new project.
2. Click on “Add Roof Area”

My Saved Items

✓ Project successfully saved ✕

Projects

Unassigned Scenarios

Contacts

+ Add New Project

Test Project 1

Save

Add Roof Area

Project Details

Project Name: *

Test Project 1

Address 1:

Address Line 1

Address 2:

Address Line 2

City:

3. Type in the name of the roof area under “Roof Area Name” and then the “Save” button will be active.
 - a. This is the only required field to save the roof area.
4. Click on “Save”

Test Project 1

Save

Get Ratings

Roof Area Details

Project Name: *

Test Project 1

Roof Area Name: *

Test Roof Area 1

Building Name/Number:

Bldg 1

Roof Area Description:

Enter description about the project

Roof Area Contacts

Client/Property Owner

Select

Roof Designer/Observer

Select

5. Click on “Get Ratings” to open the “Ratings Calculator” to specify and save ratings to the roof area.	Test Project 1 Save Get Ratings Roof Area Details Project Name: * Test Project 1 Roof Area Name: * Test Roof Area 1 Building Name/Number: [input type="text"]
6. Enter in all information in the “Ratings Calculator” to reach the “Summary Page” 7. By default, the “Project Name” and “Roof Area” will be prefilled with the project and roof area selected in step 5. 8. Click on “Save Ratings” to save calculator ratings to the project and roof area selected.	AssembliesTools ResetSearch Assembly Properties Roof Layers Preferences US STANDARDMETRIC MANUALAUTO-REFRESH 1Fire 2Hail 3Wind 4Summary Summary Below is a summary of your personalized calculations. You can save these calculations to a Roof Area and search for assemblies with your calculations pre-populated. For further guidance, refer to the FM Data Sheets. Save Ratings Project Test Project 1 Roof Area Test Roof Area 1 Save Ratings Assembly Search Area of Roof Select Search Assemblies

9. To change or create a new Roof Area or new Project, click on the corresponding drop down and select the project or roof area you want to save to.

- a. You can also create a new project or roof area by clicking on the dropdown box and selecting "Create..."
- b. NOTE: - If you create a new project, you must create a new roof area.

Summary

Below is a summary of your personalized calculations. You can **save** these calculations to a file or export them as a CSV file. For further guidance, refer to the FM Data Sheets.

Save Ratings

Project

Test Project 1

Roof Area

Test Roof Area 1

Save Ratings

Select
Create New Roof Area
Test Roof Area 1

Assembly Search

Area of Roof

Select

Search Assemblies

10. Provide a name and click on "Save Ratings"

Summary

Below is a summary of your personalized calculations. You can **save** these calculations to a file or export them as a CSV file. For further guidance, refer to the FM Data Sheets.

Save Ratings

Project

Test Project 1

Roof Area

Create New Roof Area

Save Ratings

Roof Area Name: *

Test Roof Area 2

Manage contacts	
Contacts are added on the “My Saved Items” page and then can be added to the roof areas for any project. Once a contact has been added to the roof area for a scenario, it will appear in the Contractor Package. 1. Go to “My Saved Items” 2. Click on “Contacts” 3. Click on “Add Contact”	My Saved Items Projects Unassigned Scenarios Contacts + Add Contact
4. Required fields are “First Name” and “Last Name” to “Save” contact.	My Saved Items Projects Unassigned Scenarios Contacts Add Contact X First Name: * John Middle Initial: Middle Initial Last Name: * Thomas Company: Company Name Save Cancel

5. Screen will refresh and new contact will appear.

My Saved Items

Projects

Unassigned Scenarios

Contacts

John Thomas

Active

Phone Number:



Email Address:

Company:

Add contact to roof area Contact must be created prior to adding to a roof area 1. Go to “My Saved Items” 2. Open the “Roof Area” you want to add a contact to 3. Click on “Edit”	My Saved Items Projects Unassigned Scenarios Contacts Test Project 1 Test Roof Area 1 Test Project 2 Edit Get Ratings Delete Roof Area Test Roof Area 1 Roof Area Name:Test Roof Area 1 Building Name/Number: Description: Client/Property Owner: Roof Designer/Observer: Roof Contractor
4. Click on the drop down for the role you want to assign a contact to. 5. Select the contact you want to assign. 6. Click on “Save”	+ Add New Project Test Project 1 Test Roof Area 1 Test Project 2 Roof Area Details Save Delete Roof Area Name: * Test Roof Area 1 Building Name/Number: Bldg 1 Roof Area Description: Enter description about the project Client/Property Owner Select Select John Thomas Select Roof Contractor Select

7. Contact will now be assigned to the roof area

Test Project 1

Test Roof Area 1

Test Project 2

EditGet RatingsDelete Roof Area

Test Roof Area 1

Roof Area Name:Test Roof Area 1

Building Name/Number:

Description:

Client/Property Owner:John Thomas

Roof Designer/Observer:John Thomas

Roof Contractor

Saving a Scenario

A scenario is an assembly where specific products have been selected for each mandatory layer. You can create multiple scenarios for a single assembly. You can open a scenario from the project list under “Projects” in “My Saved Items”.

1. Open the assembly you want to save as a scenario and assign to a roof area.

2. Select a product for each layer.

3. Click on “Save to My Projects”

Assembly Detail

Assembly #	3-0-0	Wind Uplift	60
Roof System	Composite Panel System	Internal Fire	1
Application	New Roof	External Fire	A
Cover Securement	Attached	Hail	SH
Deck Type	No Deck	Slope	2

Save to My Projects

Reset Selections

* FM Approved roofs must also have corner (Zone 3) and perimeter details, see DS 1-29 and 1-49. For Standing/Lap Seam roofs, see DS 1-29 and 1-49. Adobe Acrobat Reader version 6.0 or later is required to open for free.

Assembly Details

1. Cover (Composite Panel)

Kingspan Insulated Panels Inc

100 Series

2. Securement (Cover) from 1. Cover (Composite Panel) to 3. Structure

Membrane Roof Clips span panel side laps at each bearing. Requires pilot holes drilled with a 7/32 in. (5.6 mm) drill bit. Panel side and end laps covered with 6 in. (150 mm) wide white PVC bands on both sides of each panel lap.

SSCL16165

Kingspan Insulated Panels Inc

Membrane Roof Clip

Kingspan Insulated Panels Inc

#14 Type AB

3. Structure

4. Provide the scenario a name under “Scenario Name”
5. Select the “Project” to save this scenario to
 - a. You can create a new project by selecting “Create New Project”
 - b. NOTE – if you create a new project, you must also create a new roof area associated with that project

Assembly Detail

Assembly #	3-0-0	Wind Uplift	60
Roof System	Composite Panel System	Internal Fire	1
Application	New Roof	External Fire	A
Cover Securement	Attached	Hail	SH
Deck Type	No Deck	Slope	2

Save to My Projects **Reset Selections**

* FM Approved roofs must also have corner (Zone 3) and perimeter details, see DS 1-29 and 1-49. For Standing/Lap Seam roofs, see Adobe Acrobat Reader version 5.0 or later is required to open.

Assembly Details

- 1. Cover (Composite Panel)**
 - Kingspan Insulated Panels Inc
- 2. Securement (Cover) from 1. Cover (Composite Panel)**
 - Membrane Roof Clips span panel side laps at each bearing. Requires panels on both sides of each panel lap.
 - SSCL16165
 - Kingspan Insulated Panels Inc
 - Kingspan Insulated Panels Inc
- 3. Structure**

Save Scenario

Save this assembly to a new or existing roof area. If a roof area is not chosen, your assembly will appear in your account as unassigned.

Scenario Name: *

Test Scenario 1

Project:

Select

Select

Create New Project

Test Project 1

Select

Area of Roof:

Select

Comments:

6. After selecting the project and roof area, click on “Save”
7. You will be redirected to “My Saved Items” page

Adobe Acrobat Reader version 6.0 or later is required to print this document.

Save Scenario

Create New Project

Project Name: *

Test Project 2

Roof Area:

Create New Roof Area

Roof Area Name: *

Roof Area 2

Area of Roof:

Select

Comments:

Save Close

8. The scenario is now saved under the Project and Roof Area you assigned it to.

My Saved Items

Projects

Unassigned Scenarios

Contacts

Edit

Add Roof Area

Add New Project

Test Project 1

Test Roof Area 1

Test Description

Test building number

Test Scenario 1

Zone 1 Prime

Test Project 2

Project Detail

Project Name:

Test Project 1

Address 1:

Address 2:

City:

Create a Contractor Package

A Contractor Package is a report that can be created with all the details for a specific roof area and saved scenario.

- 1. Select scenario you want to create a Contractor Package for by opening the Project and Roof Area you assigned the Scenario to.

My Saved Items

Projects

Unassigned Scenarios

Contacts

Edit

Add Roof Area

Add New Project

Test Project 1

Test Roof Area 1

Test Description

Test building number

Test Scenario 1

Zone 1 Prime

Test Project 2

Project Detail

Project Name:

Test Project 1

Address 1:

Address 2:

City:

- 2. Click on the Scenario name to view the details.
- 3. Click on “Contractor Package” to create a Contractor Package.

Assembly Properties

EditDeleteContractor Package

Scenario Name

Scenario Name:	Test Scenario 1
Area of Roof:	Zone 1 Prime
Notes:	test test test
Project Name:	Test Project 1
Roof Area Name:	Test Roof Area 1

- 4. The Contractor Package will open in a new window.
 - a. NOTE – it will have all the details associated with the roof area including contacts (if added) and roof ratings (if added).
- 5. Click on Print to either print or “Save as PDF”

FM Approvals | RoofNav

Enter Assembly #

FM Approvals

ROOFING SYSTEM CONTRACTOR PACKAGE

Print

CONTACT INFORMATION

Contractor:

Email:

Telephone:

Fax:

Address:

Designer/Observer: John Thomas

Email:

Telephone:

Fax:

Address: ,

Client/Property Owner: John Thomas

Email:

Telephone:

Fax:

Address: ,

OVERVIEW OF WORK

Building Name/Number:

Area of Roof: Zone 1 Prime

Roof Area: Test Roof Area 1

Index Number (Optional):

Created in RoofNav: November 8, 2024

Assembly #: 431357-49029-0

Type of Work: New Roof

Min 3ft (1 m) Continuous Parapet: N