



## FM (Factory Mutual) Approvals

### Description of FM Global and FM Approvals

FM Global is a comprehensive global commercial and industrial property insurance provider. FM Global provides groundbreaking loss prevention research to minimize the potential for property damage and loss.

FM Approvals has a state of the art testing facility where they can objectively test loss prevention products and services and can certify those that meet the rigorous loss prevention standards.

Solatube International Inc. has been working with FM for the past year to gain FM Approvals through FM Global and FM Approvals. Approvals were sought for FM 4431 (Approval Standard for Skylights).

### What Testing was Conducted

Solatube International conducted physical testing of product at FM Global’s test facility in Chepachet, Rhode Island. Testing results were very favorable and we achieved a pass rating for the following tests:

<b>FM Standard 4431 (Skylight) Testing</b>		
<u>Standard Number</u>	<u>Test Name</u>	<u>Justification/Comments</u>
4431	Spread of Flame Test for Skylights from an Exterior Ignition Source	Included/Passed Class A at 5 in 12
4431	Simulated Hail Resistance Test Using Freezer Ice Balls	Included/Passed SH Rating Using 2.0 in. (51 mm) Diameter Freezer Ice Balls
4431	Simulated Impact Test for Skylights	Included/Passed *NR
4431	Simulated Wind Uplift Resistance for Skylights	Included/Passed 195 psf Wind Rating

### Unique Product Configurations

In order to meet the rigorous requirements for FM testing a Polycarbonate Dome and the Dome Edge Protection Band was utilized in all product configurations for all testing. Please see Product Cut Sheets for specific indicators that will show what products must be used to meet FM requirements.

Please note, for the SolaMaster® Series Product line, that the 330 DS Polycarbonate Dome as an outer dome will only be available for projects requiring FM Approved product.

### What Does All of This Mean?

Having FM Approval allows the Solatube SolaMaster® Series and SkyVault® Series product lines to be easily specified into buildings requiring FM Approvals. Building that require FM Approvals are typically

large multi-national buildings around the world but can also be found in many building types as the need for higher building safety increases.

Also, having FM Approvals shows Solatube International's commitment to providing products that have been tested to the highest standards to provide confidence in the performance of our products.

We at Solatube International are very proud to have achieved this high mark of acceptance and are pleased to offer our customers the highest quality products available in the marketplace.

Please contact your Solatube International representative for full test reports or with any questions.