

**The Genuine. The Original.**



**Product Information Bulletin**

**Number:** 8499  
**Date:** 4/1/15  
**Division:** Overhead Door  
**Product Family:** Commercial and Residential Sectional Doors  
**Product Series:** 521 Aluminum Full View  
**RE:** Insulated Stiles and Rails Option

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**To:** Overhead Door Ribbon Distributors  
**From:** Zdenek Kalabza

We are pleased to announce our new Polyurethane insulated stiles and rails option for Model 521 Aluminum Full View Doors. This new option will allow us to achieve R-Values of up to 4.27 when used with 1/2" insulated SolarBan\* 70XL glass. This will also be an available option for full view sash sections as part of Thermacore models 591, 592, 593, 594, 596, and 599.

With the use of Polyurethane insulation we'll be able to achieve significantly better thermal performance compared to Expanded Polystyrene (EPS). As Polyurethane Foam is injected into the internal cavities of the rails and stiles, it expands to completely fill the rails and stiles and adheres to the internal walls eliminating any potential air gaps.



Overhead Door's PU Foam Filled Rails



Competitor's EPS Foam Fill Rails

As IECC (International Energy Code Council) codes are becoming more prevalent, insulated aluminum full view doors are becoming more frequently specified and requested by architects and consumers.

*Below are calculated R-Values for most common sizes*

<i>R values of Complete 521 with 1/2" insulated glass</i>		<i>R values of Complete 521 with 1/2" insulated Low E glass</i>		<i>R values of Complete 521 with 1/2" insulated Solar Ban 70XL glass</i>	
<i>Size</i>	<i>R Value</i>	<i>Size</i>	<i>R Value</i>	<i>Size</i>	<i>R Value</i>
8x7	3.08	8x7	3.62	8x7	4..27
9x7	3.05	9x7	3.6	9x7	4..24
16x7	3.03	16x7	3.58	16x7	4.23
9x8	2.92	9x8	3.48	9x8	4.13
16x8	2.91	16x8	3.46	16x8	4.12
10x10	2.92	10x10	3.48	10x10	4.13
12x12	2.84	12x12	3.4	12x12	4.07
14x14	2.84	14x14	3.4	14x14	4.06

*\*SolarBan glazing is currently only available through special order.*

If you have any questions, please contact Customer Service or your District Sales Manager.

**" Z "** (ZDENEK KALABZA)  
*PRODUCT MANAGER  
 COMMERCIAL SECTIONAL DOOR*