



# NATIONAL CERTIFIED TESTING LABORATORIES

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## Simulation Performance, Solar Heat Gain Coefficient, Visible Transmittance and Condensation Resistance Calculation Report

**SIMULATION DATE:** 10/12/09  
**REPORT DATE:** 10/12/09

**Client:** All Seasons Door and Window, Inc.  
28 Edgeboro Road  
East Brunswick, NJ 08816

**Product Line:** All Seasons Door and Window, Inc. "A-200" Vertical Slider Double Hung

**Specification:** NFRC 100-2004: "Procedure for Determining Fenestration Product U-Factors".  
NFRC 200-2004: "Procedure for Determining Fenestration Product Solar Heat  
Gain Coefficients and Visible Transmittance at Normal Incidence".  
NFRC 500-2004: "Procedure for Determining Fenestration Product  
Condensation Resistance Values".  
Therm 5.x / Window 5.x NFRC Simulation Manual (Approved at test date)

**Procedures and Compliance:** All U-factor, Solar Heat Gain Coefficients, Visible Transmittance and  
Condensation Resistance values were calculated using the following  
characteristics: a default value of 0.30 solar absorptance for all products other  
than window glazed wall and sloped glazing which have a solar absorptance of  
0.50. The best glazing option was used as the configuration for SHGC and VT  
specialty products table. NCTL is a NFRC accredited simulation laboratory and  
this simulation was conducted in full compliance with NFRC requirements.  
This report does not constitute an opinion or endorsement by the laboratory.  
Ratings values included in this report are for submittal to an NFRC-licensed IA  
and are not meant to be used directly for labeling purposes. Only those values  
identified on a valid Certification Authorization Report (CAR) by an NFRC  
accredited Inspection Agency (IA) are to be used for labeling purposes.  
Rounding per IEEE/ASTM SI 10-1997 except section 5.4.1.3.

### PRODUCT LINE DESCRIPTION

**General:** The product line modeled is All Seasons Door and Window, Inc. "A-200" Vertical  
Slider Double Hung.

**Model Size Simulations:** 1200mm x 1500mm (47.244" x 59.055")

**Individual Product Descriptions and Model Size Matrix of U-Factors, SHGC, VT & CR**

*All U-factors are given in BTU/HR/ft<sup>2</sup>/°F*

Product Description	Product Number	Pane ID 1	Pane ID 2	Pane ID 5	Pane Thickness 1	Pane Thickness 2	Pane Thickness 5	Gap	Gap	Gap Fill	% of Gap Fill	Emissivity Surface 2	Emissivity Surface 3	Emissivity Surface 5	Tint	Spacer	U-factor	Condensation Resistance	Solar Heat Gain Coefficient (ND)	Visual Transmittance (ND)
SB60#25_3m_Arg	<b>001</b>	5281	5009	5281	0.118	0.118	0.118	0.261	0.261	ARG	90	0.035		0.035	LE	CU-D	<b>0.41</b>	<b>31</b>	<b>0.26</b>	<b>0.44</b>
SB60#2_3m_Arg	<b>002</b>	5281	5009		0.118	0.118		0.639		ARG	90	0.035			LE	CU-D	<b>0.46</b>	<b>30</b>	<b>0.30</b>	<b>0.55</b>