

# BASEMENT HOPPER



## NFRC AND ENERGY STAR® THERMAL DATA



*Quality First... Service Second to None  
Since 1957*




The NFRC label provides the only reliable way to compare the energy efficiency, strength and durability of a window. The NFRC label appears on all fenestration products in the ENERGY STAR® program.

**Compare U-Factor** - The **LOWER** the U-Factor, the better it insulates, the **LOWER** your heating and cooling bills.

**Compare Solar Heat Gain Coefficient** - The **LOWER** the SHGC, the less solar heat your window transmits in summer, the **LOWER** your cooling costs.

**Compare Visible Transmittance** - Daylight and view are two of the fundamental attributes of a window. The **HIGHER** the VT the more **NATURAL LIGHT** is allowed into the home.

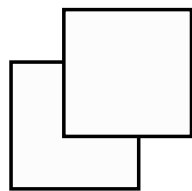
**Look for ENERGY STAR®** - ENERGY STAR qualified windows and doors **SAVE** energy, money and increase the comfort of your home.

 National Fenestration Rating Council® CERTIFIED	<b>BFRich</b> <b>BASEMENT HOPPER</b> <small>Windows &amp; Doors</small>	
	<b>PROJECTION WINDOW</b> VINYL - SASH & FRAME - DOUBLE GLAZING	
<b>ENERGY PERFORMANCE RATINGS</b>		
U-Factor (U.S./I-P)	Solar Heat Gain Coefficient	
<b>ADDITIONAL PERFORMANCE RATINGS</b>		
Visible Transmittance	_____	
<small>Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend any product and does not warrant the suitability of any product for any specific use. Consult manufacturer's literature for other product performance information. <a href="http://www.nfrc.org">www.nfrc.org</a></small>		
		
<small>ENERGY STAR qualified versions of this product are available for the <b>highlighted</b> regions. Ask your sales person for details.</small>		
<small>Las versiones de los productos calificados ENERGY STAR están disponibles en las regiones seleccionadas. Para más detalles hable con el representante de ventas en la tienda.</small>		

# BASEMENT HOPPER

## Standard Features

- Welded Sash & Frame
- Rotating Arm Hinge
- Full Exterior Screen
- 1 lock < 28" width
- 2 locks ≥ 28" width
- Minimum size 14" x 12"
- Maximum size 50" x 30"
- Made every 1/8" width and height
- Master Frame Measures 2 1/2"
- Lifetime Limited Transferable Warranty



White Exterior  
White Interior

5/8" Flat  
Internal Grilles



Contour  
3/4" or 1" Internal Grilles



3/8" V-Groove  
V-Groove is on the  
Interior Surface



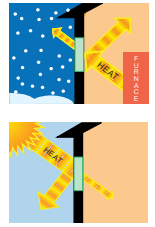
7/8" STDL  
Simulated True Divided Lite  
Interior & Exterior Grilles



## Options

### Low-E & Argon Insulating Glass

Our performance tested optional Low-E glass and Argon filled air space enhances the thermal efficiency of our windows. Warmer in the winter - Cooler in the summer.



**Laminated Tuff-Glass** - Maximum security, sound reduction and UV protection can be achieved through the use of one piece of laminated glass in an insulating glass unit.



**Grilles** - Grilles are available in dimensional contour, V-Groove, STDL or standard flat design.

## ENERGY STAR Compliant By Zone

YES	N	NC	SC	S
YES	N	NC	SC	S
YES	N	NC	SC	S
YES	N			
YES	N			

## Manufacturer

### Product Description

Compliant By Zone	Manufacturer Product Description	U-Factor	SHGC	VT	Gap Fill	Grids	Certified Product Number
YES	2.5 SB65 Soft Coat	0.28	0.27	0.50	Argon	NA	BFR-M-28-00002-00001
YES	2.5 SB65 Soft Coat	0.28	0.24	0.46	Argon	< 1"	BFR-M-28-00002-00002
YES	2.5 SB65 Soft Coat	0.28	0.22	0.41	Argon	≥ 1"	BFR-M-28-00002-00003
YES	2.5 CMFT EP-S Hard Coat	0.31	0.48	0.55	Argon	NA	BFR-M-28-00013-00001
YES	2.5 CMFT EP-S Hard Coat	0.31	0.44	0.49	Argon	< 1"	BFR-M-28-00013-00002
	2.5 CMFT EP-S Hard Coat	0.	0.	0.	Argon	≥ 1"	
No	2.5 CLEAR	0.44	0.57	0.58	Air	NA	BFR-M-28-00003-00001
No	2.5 CLEAR	0.44	0.52	0.53	Air	< 1"	BFR-M-28-00003-00002
No	2.5 CLEAR	0.44	0.47	0.48	Air	≥ 1"	BFR-M-28-00003-00003

## BASEMENT HOPPER Window



## ENERGY STAR® Qualification Criteria for Residential Windows

Climate Zone	U-Factor <sup>1</sup>	SHGC <sup>2</sup>	Prescriptive
Northern	≤ 0.30	Any	Prescriptive
	=0.31	≥ 0.35	Equivalent Energy Performance
	=0.32	≥ 0.40	
North-Central	≤ 0.32	≤ 0.40	
South-Central	≤ 0.35	≤ 0.30	
Southern	≤ 0.60	≤ 0.27	

<sup>1</sup> Btu/h-ft<sup>2</sup>·°F

<sup>2</sup> Fraction of incident solar radiation

## ENERGY STAR® Map & Criteria

Key: 2.5 = 2.5mm glass. SCSB70 = SunClean Solarban 70. SB65 = Solarban 65. CMFT EP-S = Comfort EP-S.

There are many glass and/or grid configurations that affect a window's U-Factor, Solar Heat Gain Coefficient and Visible Transmittance. A complete list of configurations for B.F. Rich windows and doors can be found at [www.nfrc.org](http://www.nfrc.org) in the Certified Products Directory.

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