

NFRC AND ENERGY STAR® THERMAL DATA



CASEMENT, AWNING & PICTURE WINDOWS



*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.

Compare Design Pressure - The **HIGHER** the DP Rating, the **STRONGER** and more **RESILIENT** the window will be to wind, rain and storms.

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	  Windows & Doors Window Systems By BFRich "CASEMENT" PROJECTION WINDOW VINYL - SASH & FRAME • DOUBLE GLAZING
ENERGY PERFORMANCE RATINGS	
U-Factor (U.S./I-P)	Solar Heat Gain Coefficient
ADDITIONAL PERFORMANCE RATINGS	
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. www.nfrc.org</small>	
AAMA/WDMA/CSA 101/I.S. 2/A440-05 GRADE: C-LC70	
	<small>ENERGY STAR qualified versions of this product are available for the highlighted 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>

ENERGY STAR
Compliant By Zone

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

Manufacturer

Product Description

2.5 SCSB70 Green Shield
2.5 SCSB70 Green Shield
2.5 SCSB70 Green Shield
2.5 SB65 Soft Coat
2.5 SB65 Soft Coat
2.5 SB65 Soft Coat
2.5 CMFT EP-S Hard Coat
2.5 CMFT EP-S Hard Coat
2.5 CMFT EP-S Hard Coat

U-Factor

0.25
0.25
0.25
0.28
0.28
0.28
0.30
0.30
0.30

SHGC

0.16
0.15
0.13
0.24
0.22
0.20
0.40
0.44
0.40

CASEMENT Window

VT

0.37
0.33
0.30
0.46
0.41
0.37
0.50
0.45
0.40

Gap Fill

Argon
Argon
Argon
Argon
Argon
Argon
Argon
Argon
Argon

Grids

NA
< 1"
≥ 1"
NA
< 1"
≥ 1"
NA
< 1"
≥ 1"

Certified Product Number

BFR-M-7-00169-00001
BFR-M-7-00169-00002
BFR-M-7-00169-00003
BFR-M-7-00161-00001
BFR-M-7-00161-00002
BFR-M-7-00161-00003
BFR-M-7-00197-00001
BFR-M-7-00197-00002
BFR-M-7-00197-00003

ENERGY STAR
Compliant By Zone

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

Manufacturer

Product Description

2.5 SCSB70 Green Shield
2.5 SCSB70 Green Shield
2.5 SCSB70 Green Shield
2.5 SB65 Soft Coat
2.5 SB65 Soft Coat
2.5 SB65 Soft Coat
2.5 CMFT EP-S Hard Coat
2.5 CMFT EP-S Hard Coat
2.5 CMFT EP-S Hard Coat

U-Factor

0.25
0.25
0.25
0.28
0.28
0.28
0.30
0.30
0.30

SHGC

0.16
0.15
0.13
0.24
0.22
0.20
0.49
0.44
0.40

AWNING Window

VT

0.37
0.33
0.30
0.46
0.41
0.37
0.50
0.45
0.40

Gap Fill

Argon
Argon
Argon
Argon
Argon
Argon
Argon
Argon
Argon

Grids

NA
< 1"
≥ 1"
NA
< 1"
≥ 1"
NA
< 1"
≥ 1"

Certified Product Number

BFR-M-21-00128-00001
BFR-M-21-00128-00002
BFR-M-21-00128-00003
BFR-M-21-00120-00001
BFR-M-21-00120-00002
BFR-M-21-00120-00003
BFR-M-21-00156-00001
BFR-M-21-00156-00002
BFR-M-21-00156-00003

ENERGY STAR
Compliant By Zone

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

Manufacturer

Product Description

2.5 SCSB70 Green Shield
2.5 SCSB70 Green Shield
2.5 SCSB70 Green Shield
2.5 SB65 Soft Coat
2.5 SB65 Soft Coat
2.5 SB65 Soft Coat
2.5 CMFT EP-S Hard Coat
2.5 CMFT EP-S Hard Coat
2.5 CMFT EP-S Hard Coat

U-Factor

0.24
0.24
0.24
0.26
0.26
0.26
0.30
0.30
0.30

SHGC

0.19
0.17
0.16
0.29
0.26
0.24
0.59
0.53
0.47

FIXED Picture Window

VT

0.44
0.39
0.35
0.55
0.49
0.44
0.60
0.53
0.47

Gap Fill

Argon
Argon
Argon
Argon
Argon
Argon
Argon
Argon
Argon

Grids

NA
< 1"
≥ 1"
NA
< 1"
≥ 1"
NA
< 1"
≥ 1"

Certified Product Number

BFR-M-13-00124-00001
BFR-M-13-00124-00002
BFR-M-13-00124-00003
BFR-M-13-00116-00001
BFR-M-13-00116-00002
BFR-M-13-00116-00003
BFR-M-13-00154-00001
BFR-M-13-00154-00002
BFR-M-13-00154-00003



ENERGY STAR® Qualification Criteria for Residential Windows

Climate Zone	U-Factor ¹	SHGC ²	
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	

¹ Btu/h-ft²·°F

² 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 in the Certified Products Directory.