

**Manufacturer's Certification Statement**  
**for Renewal by Andersen® Exterior Windows and Andersen® Doors that are Eligible Building Envelope Components under Section 25C of the Internal Revenue Code as amended by the American Recovery and Reinvestment Act of 2009**

**Renewal by Andersen Corporation**  
**9900 Jamaica Avenue South**  
**Cottage Grove, MN 55016**

This Manufacturer's Certification Statement ("Statement"), dated June 4, 2009, identifies Renewal by Andersen® exterior windows manufactured by Renewal by Andersen Corporation ("Renewal by Andersen") and Andersen® exterior doors manufactured by Andersen Corporation that may qualify as "Eligible Building Envelope Components" for a tax credit under Section 25C of the Internal Revenue Code, as amended by the American Recovery and Reinvestment Act of 2009 (the "2009 Act").

The 2009 Act modifies the tax credit for certain energy efficient components that are purchased and installed from January 1, 2009 through December 31, 2010. The tax law requires that certain requirements be met to qualify for the credit. For example, exterior windows, doors and skylights may qualify for the tax credit if they achieve both a U-Factor of 0.30 or lower and a Solar Heat Gain Coefficient ("SHGC") of 0.30 or lower. The components must also be installed in a dwelling unit in the United States that is owned and used by the taxpayer as the taxpayer's principal residence. The original use of the components must commence with the taxpayer, and the component must be expected to remain in use for at least 5 years.

Based on Section 25C of the Internal Revenue Code as amended by the 2009 Act, as well as IRS Notice 2009-53<sup>1</sup>, Renewal by Andersen has determined, based on ratings certified by the National Fenestration Rating Council (NFRC)<sup>2</sup>, that the following Renewal by Andersen® products with the specified glass types noted have both (i) a U-Factor rating of 0.30 or lower and (ii) a SHGC value of 0.30 or lower.<sup>3</sup> As a result, we have concluded that each of these products is an "Eligible Building Component" that may qualify for the credit allowed under Section 25C in all climate zones of the United States. Products with special glass options and custom sizes larger than those listed do not qualify at this time.

Under penalties of perjury, I declare that I have examined this Statement, and to the best of my knowledge and belief, the facts are true, correct and complete.



Paul Delahunt  
President, Renewal by Andersen

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<sup>1</sup>The information contained in this Statement is based on IRS Notice 2009-53 and the language of the 2009 Act as we understand it as of the date noted above. Renewal by Andersen may, but is under no obligation to, update this Statement when new information and interpretations from the IRS are obtained. Renewal by Andersen does not intend to and is not providing legal or tax advice and recommends that purchasers consult with the IRS or their own tax advisors to determine whether they qualify for the tax credit. Andersen bears no responsibility for validating or obtaining the tax credit and expressly disclaims any responsibility for determining whether a particular purchase or application qualifies for the tax credit.

<sup>2</sup> NFRC ratings are based on modeling by a third party agency as validated by an independent test lab in compliance with NFRC program and procedural requirements.

<sup>3</sup> This data is accurate as of June 4, 2009. Due to ongoing product changes, ongoing testing and certification and changing industry standards and requirements, this data may change over time. This Statement may also be updated periodically to reflect changes to product ratings.

## Renewal by Andersen® Product Performance Values\*

Product Type	Glass Type	U-Factor	SHGC	
Renewal by Andersen® Casement Full Frame Window	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.1mm Glass. All Casement Full Frame Window Sizes <b>Except for the Following Sizes:</b> <ul style="list-style-type: none"> <li>- Patterned glass options that require 3.9mm glass.</li> <li>- Casement full frame picture windows (1:2:1) that are greater than 77" in width or greater than 50" in height and exceed 156 United Inches (Unit Width Plus Unit Height) which require 3.9mm glass.</li> <li>- Casement full frame windows that are less than 19" in width and greater than 77" in height which require 5.7mm glass.</li> </ul>			
	HP Low-E4® (no grilles or with interior wood (removable) grilles)	0.29	0.28	
	HP Low-E4® grilles between the glass	0.29	0.26	
	HP Low-E4® full divided light grilles	0.30	0.26	
	HP Low-E4® Sun (no grilles or with interior wood (removable) grilles)	0.30	0.18	
	HP Low-E4® Sun grilles between the glass	0.30	0.16	
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.29	0.19	
	HP Low-E4® SmartSun™ grilles between the glass	0.29	0.17	
	HP Low-E4® SmartSun™ full divided light grilles	0.30	0.17	
	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.9mm Glass. All Casement Full Frame Window Sizes <b>Except for the Following Sizes:</b> <ul style="list-style-type: none"> <li>- Casement full frame windows that are less than 19" in width and greater than 77" in height which require 5.7mm glass.</li> </ul>			
	HP Low-E4® (no grilles or with interior wood (removable) grilles)	0.30	0.28	
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.30	0.19	
	Renewal by Andersen® Casement Insert Window	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.1mm Glass. All Casement Insert Window Sizes <b>Except for the Following Sizes:</b> <ul style="list-style-type: none"> <li>- Patterned glass options that require 3.9mm glass.</li> <li>- Casement insert picture windows (1:2:1) that are greater than 77" in width or greater than 50" in height and exceed 156 United Inches (Unit Width Plus Unit Height) which require 3.9mm glass.</li> <li>- Casement insert windows that are less than 19" in width and greater than 77" in height which require 5.7mm glass.</li> </ul>		
		HP Low-E4® (no grilles or with interior wood (removable) grilles)	0.30	0.28
HP Low-E4® grilles between the glass		0.30	0.26	
HP Low-E4® Sun (no grilles or with interior wood (removable) grilles)		0.30	0.18	
HP Low-E4® Sun grilles between the glass		0.30	0.16	
HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)		0.29	0.19	
HP Low-E4® SmartSun™ grilles between the glass		0.29	0.18	
HP Low-E4® SmartSun™ full divided light grilles		0.30	0.18	
Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.9mm Glass. All Casement Insert Window Sizes <b>Except for the Following Sizes:</b> <ul style="list-style-type: none"> <li>- Casement insert windows that are less than 19" in width and greater than 77" in height which require 5.7mm glass.</li> </ul>				
HP Low-E4® (no grilles or with interior wood (removable) grilles)		0.30	0.28	
HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)		0.30	0.19	

\*Where a grille type is identified, all grille patterns apply. See separate product listing on page 10 for products with capillary breather tubes in high altitude regions.

## Renewal by Andersen® Product Performance Values\*

Product Type	Glass Type	U-Factor	SHGC	
Renewal by Andersen® Awning Full Frame Window	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.1mm Glass: All Awning Full Frame Window Sizes <b>Except for the Following Sizes:</b> - Patterned glass options that require 3.9mm glass.			
	HP Low-E4® (no grilles or with interior wood (removable) grilles)	0.29	0.28	
	HP Low-E4® grilles between the glass	0.29	0.26	
	HP Low-E4® full divided light grilles	0.30	0.26	
	HP Low-E4® Sun (no grilles or with interior wood (removable) grilles)	0.30	0.18	
	HP Low-E4® Sun grilles between the glass	0.30	0.16	
	HP Low-E4® Sun full divided light grilles	0.30	0.16	
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.29	0.19	
	HP Low-E4® SmartSun™ grilles between the glass	0.29	0.17	
	HP Low-E4® SmartSun™ full divided light grilles	0.29	0.17	
	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.9mm Glass. All Awning Full Frame Window Sizes.			
	HP Low-E4® (no grilles or with interior wood (removable) grilles)	0.30	0.28	
	HP Low-E4® Sun (no grilles or with interior wood (removable) grilles)	0.30	0.17	
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.29	0.19	
Renewal by Andersen® Awning Insert Window	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.1mm Glass: All Awning Insert Window Sizes <b>Except for the Following Sizes:</b> - Patterned glass options that require 3.9mm glass.			
	HP Low-E4® (no grilles or with interior wood (removable) grilles)	0.30	0.28	
	HP Low-E4® grilles between the glass	0.30	0.26	
	HP Low-E4® full divided light grilles	0.30	0.26	
	HP Low-E4® Sun (no grilles or with interior wood (removable) grilles)	0.30	0.18	
	HP Low-E4® Sun grilles between the glass	0.30	0.16	
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.29	0.19	
	HP Low-E4® SmartSun™ grilles between the glass	0.29	0.17	
	HP Low-E4® SmartSun™ full divided light grilles	0.30	0.17	
	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.9mm Glass. All Awning Insert Window Sizes.			
	HP Low-E4® (no grilles or with interior wood (removable) grilles)	0.30	0.28	
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.30	0.19	
	Renewal by Andersen® Double-Hung Full Frame Window	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.1mm Glass. All Double-Hung Full Frame Window Sizes <b>Except for the Following Sizes:</b> - Patterned glass options that require 3.9mm glass. - Double-hung full frame window sizes that are greater than 45" in width or greater than 77" in height.		
		HP Low-E4® grilles between the glass	0.30	0.28
HP Low-E4® Sun (no grilles or with interior wood (removable) grilles)		0.30	0.19	
HP Low-E4® Sun grilles between the glass		0.30	0.17	
HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)		0.29	0.20	
HP Low-E4® SmartSun™ grilles between the glass		0.29	0.19	
HP Low-E4® SmartSun™ full divided light grilles		0.30	0.19	
Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.9mm Glass. All Double-Hung Full Frame Window Sizes <b>Except for the Following Sizes:</b> - Double-hung full frame window sizes that are greater than 45" in width or greater than 77" in height.				
HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)		0.30	0.21	

\*Where a grille type is identified, all grille patterns apply. See separate product listing on page 10 for products with capillary breather tubes in high altitude regions.

## Renewal by Andersen® Product Performance Values\*

Product Type	Glass Type	U-Factor	SHGC
Renewal by Andersen® Double-Hung Flat Sill Insert Window	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.1mm Glass. All Double-Hung Flat Sill Insert Window Sizes <b>Except for the Following Sizes:</b> - Patterned glass options that require 3.9mm glass. - Double-hung flat sill insert window sizes that are greater than 45" in width or greater than 77" in height.		
	HP Low-E4® grilles between the glass	0.30	0.28
	HP Low-E4® Sun (no grilles or with interior wood (removable) grilles)	0.30	0.19
	HP Low-E4® Sun grilles between the glass	0.30	0.17
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.29	0.20
	HP Low-E4® SmartSun™ grilles between the glass	0.29	0.18
	HP Low-E4® SmartSun™ full divided light grilles	0.30	0.18
	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.9mm Glass. All Double-Hung Flat Sill Insert Window Sizes <b>Except for the Following Sizes:</b> - Double-hung insert flat sill insert windows that are greater than 45" in width or greater than 77" in height.		
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.30	0.21
	Renewal by Andersen® Double-Hung Sloped Sill Insert Window	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.1mm Glass. All Double-Hung Sloped Sill Insert Window Sizes <b>Except for the Following Sizes:</b> - Patterned glass options that require 3.9mm glass. - Double-hung sloped sill insert window sizes that are greater than 45" in width or greater than 77" in height.	
HP Low-E4® grilles between the glass		0.30	0.28
HP Low-E4® Sun (no grilles or with interior wood (removable) grilles)		0.30	0.19
HP Low-E4® Sun grilles between the glass		0.30	0.17
HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)		0.29	0.21
HP Low-E4® SmartSun™ grilles between the glass		0.29	0.19
HP Low-E4® SmartSun™ full divided light grilles		0.30	0.19
Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.9mm Glass. All Double-Hung Sloped Sill Insert Window Sizes <b>Except for the Following Sizes:</b> - Double-hung sloped sill insert windows that are greater than 45" in width or greater than 77" in height.			
HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)		0.30	0.21

\*Where a grille type is identified, all grille patterns apply. See separate product listing on page 10 for products with capillary breather tubes in high altitude regions.

## Renewal by Andersen® Product Performance Values\*

Product Type	Glass Type	U-Factor	SHGC	
Renewal by Andersen® Gliding Full Frame Window	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.1mm Glass. All Gliding Full Frame Window Sizes <b>Except for the Following Sizes:</b> <ul style="list-style-type: none"> <li>- Patterned glass options that require 3.9mm glass.</li> <li>- Gliding full frame windows that are greater than 84" in width or greater than 96" in height and exceed 144 United Inches (Unit Width Plus Unit Height) which require 3.9mm glass.</li> <li>- Gliding picture full frame windows (1:1:1) that are greater than 103" in width or greater than 70" in height and exceed 175 United Inches (Unit Width Plus Unit Height) which require 3.9mm glass.</li> <li>- Gliding picture full frame windows (1:2:1) that are greater than 68" in width or greater than 47" in height and exceed 140 United Inches (Unit Width Plus Unit Height) which require 3.9mm glass.</li> <li>- Gliding full frame windows that are greater than 81" in width and less than 13" in height which require 5.7mm glass.</li> <li>- Gliding picture full frame windows that are greater than 79" in width and less than 13" in height which require 5.7mm glass.</li> </ul>			
	HP Low-E4® grilles between the glass	0.30	0.28	
	HP Low-E4® Sun (no grilles or with interior wood (removable) grilles)	0.30	0.19	
	HP Low-E4® Sun grilles between the glass	0.30	0.18	
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.29	0.21	
	HP Low-E4® SmartSun™ grilles between the glass	0.29	0.19	
	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.9mm Glass. All Gliding Full Frame Window Sizes <b>Except for the Following Sizes:</b> <ul style="list-style-type: none"> <li>- Gliding full frame windows that are greater than 81" in width and less than 13" in height which require 5.7mm glass.</li> <li>- Gliding picture full frame windows that are greater than 79" in width and less than 13" in height which require 5.7mm glass.</li> </ul>			
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.30	0.21	
	Renewal by Andersen® Gliding Insert Window	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.1mm Glass. All Gliding Insert Window Sizes <b>Except for the Following Sizes:</b> <ul style="list-style-type: none"> <li>- Patterned glass options that require 3.9mm glass.</li> <li>- Gliding insert windows that are greater than 84" in width or greater than 96" in height and exceed 144 United Inches (Unit Width Plus Unit Height) which require 3.9mm glass.</li> <li>- Gliding picture insert windows (1:1:1) that are greater than 103" in width or greater than 70" in height and exceed 175 United Inches (Unit Width Plus Unit Height) which require 3.9mm glass.</li> <li>- Gliding picture insert windows (1:2:1) that are greater than 68" in width or greater than 47" in height and exceed 140 United Inches (Unit Width Plus Unit Height) which require 3.9mm glass.</li> <li>- Gliding insert windows that are greater than 81" in width and less than 13" in height which require 5.7mm glass.</li> <li>- Gliding picture insert windows that are greater than 79" in width and less than 13" in height which require 5.7mm glass.</li> </ul>		
		HP Low-E4® grilles between the glass	0.30	0.28
HP Low-E4® Sun (no grilles or with interior wood (removable) grilles)		0.30	0.19	
HP Low-E4® Sun grilles between the glass		0.30	0.18	
HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)		0.29	0.21	
HP Low-E4® SmartSun™ grilles between the glass		0.29	0.19	
Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.9mm Glass. All Gliding Insert Window Sizes <b>Except for the Following Sizes:</b> <ul style="list-style-type: none"> <li>- Gliding insert windows that are greater than 81" in width and less than 13" in height which require 5.7mm glass.</li> <li>- Gliding picture insert windows that are greater than 79" in width and less than 13" in height which require 5.7mm glass.</li> </ul>				
HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)		0.30	0.21	

\*Where a grille type is identified, all grille patterns apply. See separate product listing on page 10 for products with capillary breather tubes in high altitude regions.

## Renewal by Andersen® Product Performance Values\*

Product Type	Glass Type	U-Factor	SHGC
Renewal by Andersen® Picture (Specialty) Full Frame Window	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.1mm Glass: All Picture (Specialty) Full Frame Window Sizes <b>Except for the Following Sizes:</b> <ul style="list-style-type: none"> <li>- Patterned glass options that require 3.9mm glass.</li> <li>- Picture (specialty) full frame windows that are greater than 14.188 sq ft (Unit Width Times Unit Height) and less than or equal to 23.188 sq ft which require 3.9mm glass.</li> <li>- Picture (specialty) full frame windows that are greater than 23.188 sq ft (Unit Width Times Unit Height) which require 5.7mm glass.</li> <li>- Picture (specialty) full frame windows that are greater than 100.875" in width and less than 21" in height which require 5.7mm glass.</li> <li>- Picture (specialty) full frame windows that are less than 21" in width and greater than 100.875" in height which require 5.7mm glass.</li> <li>- Picture (specialty) full frame windows that are greater than 100.875" in width or height which require 5.7mm glass.</li> </ul>		
	HP Low-E4® grilles between the glass	0.27	0.30
	HP Low-E4® full divided light grilles	0.29	0.30
	HP Low-E4® Sun (no grilles or with interior wood (removable) grilles)	0.28	0.20
	HP Low-E4® Sun grilles between the glass	0.28	0.18
	HP Low-E4® Sun full divided light grilles	0.29	0.18
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.27	0.22
	HP Low-E4® SmartSun™ grilles between the glass	0.27	0.20
	HP Low-E4® SmartSun™ full divided light grilles	0.28	0.20
	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.9mm Glass: All Picture (Specialty) Full Frame Window Sizes <b>Except for the Following Sizes:</b> <ul style="list-style-type: none"> <li>- Picture (specialty) full frame windows that are greater than 23.188 sq ft (Unit Width Times Unit Height) which require 5.7mm glass.</li> <li>- Picture (specialty) full frame windows that are greater than 100.875" in width and less than 21" in height which require 5.7mm glass.</li> <li>- Picture (specialty) full frame windows that are less than 21" in width and greater than 100.875" in height which require 5.7mm glass.</li> <li>- Picture (specialty) full frame windows that are greater than 100.875" in width or height which require 5.7mm glass.</li> </ul>		
	HP Low-E4® grilles between the glass	0.27	0.29
	HP Low-E4® full divided light grilles	0.28	0.29
	HP Low-E4® Sun (no grilles or with interior wood (removable) grilles)	0.27	0.20
	HP Low-E4® Sun grilles between the glass	0.27	0.18
	HP Low-E4® Sun full divided light grilles	0.29	0.18
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.26	0.22
	HP Low-E4® SmartSun™ grilles between the glass	0.26	0.20
	HP Low-E4® SmartSun™ full divided light grilles	0.28	0.20

\*Where a grille type is identified, all grille patterns apply. See separate product listing on page 10 for products with capillary breather tubes in high altitude regions.

## Renewal by Andersen® Product Performance Values\*

Product Type	Glass Type	U-Factor	SHGC
Renewal by Andersen® Picture (Specialty) Full Frame Window (Continued)	Non-Tempered and Tempered 4.7mm Glass. All Picture (Specialty) Full Frame Window Sizes <b>Except for the Following Sizes:</b> <ul style="list-style-type: none"> <li>- Picture (specialty) full frame windows that are greater than 23.188 sq ft (Unit Width Times Unit Height) which require 5.7mm glass.</li> <li>- Picture (specialty) full frame windows that are greater than 100.875" in width and less than 21" in height which require 5.7mm glass.</li> <li>- Picture (specialty) full frame windows that are less than 21" in width and greater than 100.875" in height which require 5.7mm glass.</li> <li>- Picture (specialty) full frame windows that are greater than 100.875" in width or height which require 5.7mm glass.</li> </ul>		
	HP Low-E4® grilles between the glass	0.27	0.29
	HP Low-E4® full divided light grilles	0.28	0.29
	HP Low-E4® Sun (no grilles or with interior wood (removable) grilles)	0.27	0.20
	HP Low-E4® Sun grilles between the glass	0.27	0.18
	HP Low-E4® Sun full divided light grilles	0.28	0.18
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.26	0.22
	HP Low-E4® SmartSun™ grilles between the glass	0.26	0.20
	HP Low-E4® SmartSun™ full divided light grilles	0.27	0.20
Renewal by Andersen® Picture (Specialty) Insert Window	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.1mm Glass: All Picture (Specialty) Insert Window Sizes <b>Except for the Following Sizes:</b> <ul style="list-style-type: none"> <li>- Patterned glass options that require 3.9mm glass.</li> <li>- Picture (specialty) insert windows that are greater than 14.333 sq ft (Unit Width Times Unit Height) and less than or equal to 23.333 sq ft which require 3.9mm glass.</li> <li>- Picture (specialty) insert windows that are greater than 23.333 sq ft (Unit Width Times Unit Height) which require 5.7mm glass.</li> <li>- Picture (specialty) insert windows that are greater than 100" in width and less than 20" in height which require 5.7mm glass.</li> <li>- Picture (specialty) insert windows that are less than 20" in width and greater than 100" in height which require 5.7mm glass.</li> <li>- Picture (specialty) insert windows that are greater than 100" in width or height which require 5.7mm glass.</li> </ul>		
	HP Low-E4® Sun (no grilles or with interior wood (removable) grilles)	0.28	0.21
	HP Low-E4® Sun grilles between the glass	0.28	0.19
	HP Low-E4® Sun full divided light grilles	0.29	0.19
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.27	0.23
	HP Low-E4® SmartSun™ grilles between the glass	0.27	0.20
	HP Low-E4® SmartSun™ full divided light grilles	0.28	0.20

\*Where a grille type is identified, all grille patterns apply. See separate product listing on page 10 for products with capillary breather tubes in high altitude regions.

## Renewal by Andersen® Product Performance Values\*

Product Type	Glass Type	U-Factor	SHGC
Renewal by Andersen® Picture (Specialty) Insert Window (Continued)	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.9mm Glass: All Picture (Specialty) Insert Window Sizes <b>Except for the Following Sizes:</b> <ul style="list-style-type: none"> <li>- Picture (specialty) insert windows that are greater than 23.333 sq ft (Unit Width Times Unit Height) which require 5.7mm glass.</li> <li>- Picture (specialty) insert windows that are greater than 100" in width and less than 20" in height which require 5.7mm glass.</li> <li>- Picture (specialty) insert windows that are less than 20" in width and greater than 100" in height which require 5.7mm glass.</li> <li>- Picture (specialty) insert windows that are greater than 100" in width or height which require 5.7mm glass.</li> </ul>		
	HP Low-E4® Sun (no grilles or with interior wood (removable) grilles)	0.28	0.20
	HP Low-E4® Sun grilles between the glass	0.28	0.19
	HP Low-E4® Sun full divided light grilles	0.29	0.19
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.27	0.23
	HP Low-E4® SmartSun™ grilles between the glass	0.27	0.21
	HP Low-E4® SmartSun™ full divided light grilles	0.28	0.21
	Non-Tempered and Tempered 4.7mm Glass: All Picture (Specialty) Insert Window Sizes <b>Except for the Following Sizes:</b> <ul style="list-style-type: none"> <li>- Picture (specialty) insert windows that are greater than 23.333 sq ft (Unit Width Times Unit Height) which require 5.7mm glass.</li> <li>- Picture (specialty) insert windows that are greater than 100" in width and less than 20" in height which require 5.7mm glass.</li> <li>- Picture (specialty) insert windows that are less than 20" in width and greater than 100" in height which require 5.7mm glass.</li> <li>- Picture (specialty) insert windows that are greater than 100" in width or height which require 5.7mm glass.</li> </ul>		
	HP Low-E4® grilles between the glass	0.27	0.30
	HP Low-E4® full divided light grilles	0.28	0.30
	HP Low-E4® Sun (no grilles or with interior wood (removable) grilles)	0.28	0.21
	HP Low-E4® Sun grilles between the glass	0.28	0.19
	HP Low-E4® Sun full divided light grilles	0.29	0.19
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.26	0.23
	HP Low-E4® SmartSun™ grilles between the glass	0.26	0.21
	HP Low-E4® SmartSun™ full divided light grilles	0.28	0.21
	Andersen® Narroline® Gliding Patio Door	Tempered (Including Patterned) (3.1mm) Glass: All Narroline® Gliding Patio Door Sizes (Except Sizes Listed Below for Tempered (3.9 mm) Glass)	
Low-E Sun (no grilles or with interior wood (removable) grilles)		0.30	0.20
Low-E SmartSun™ (no grilles or with interior wood (removable) grilles)		0.29	0.21
Low-E SmartSun™ with grilles between the glass		0.30	0.19
Tempered (Including Patterned) (3.9mm) Glass for the Following Narroline® Gliding Patio Door Sizes: NLGD2980, NLGD3380, NLGD4380, NLGD5080, NLGD6080, NLGD8080, NLGD10080, NLGD12080, NLGD16080			
Low-E Sun (no grilles or with interior wood (removable) grilles)		0.30	0.20
Low-E SmartSun™ (no grilles or with interior wood (removable) grilles)		0.29	0.22
Low-E SmartSun™ with grilles between the glass		0.30	0.19
Andersen® Perma-Shield® Gliding Patio Door	Tempered and Patterned (3.9mm) Glass: All Perma-Shield® Gliding Patio Door Sizes		
	Low-E with grilles between the glass	0.30	0.29
	Low-E Sun (no grilles or with interior wood (removable) grilles)	0.29	0.20
	Low-E SmartSun™ (no grilles or with interior wood (removable) grilles)	0.28	0.22
	Low-E SmartSun™ with grilles between the glass	0.30	0.19

\*Where a grille type is identified, all grille patterns apply. See separate product listing on page 10 for products with capillary breather tubes in high altitude regions.

**Renewal by Andersen® Product Performance Values\***

<b>Product Type</b>	<b>Glass Type</b>	<b>U-Factor</b>	<b>SHGC</b>
Andersen® Frenchwood® Gliding Patio Door	Tempered (3.1mm) Glass (Including Patterned): All Frenchwood® Gliding Patio Door Sizes (Except Sizes Listed Below for Tempered (3.9mm) Glass)		
	HP Low-E4® (no grilles or with interior wood (removable) grilles)	0.30	0.27
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.30	0.18
	Tempered (Including Patterned) (3.9mm) Glass : Frenchwood® Gliding Patio Door Sizes FWG4368, FWG8068, FWG16068, FWG43611, FWG80611, FWG160611, FWG4380, FWG8080, FWG16080		
	HP Low-E4® (no grilles or with interior wood (removable) grilles)	0.30	0.26
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.30	0.18
Andersen® Frenchwood® Hinged Patio Door-Inswing	Tempered (Including Patterned) (3.1mm) Glass: All Frenchwood® Hinged Patio Door-Inswing Sizes		
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.30	0.16
Andersen® Frenchwood® Hinged Patio Door-Outswing	Tempered (Including Patterned) (3.1mm) Glass: All Frenchwood® Hinged Patio Door-Outswing Sizes		
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.30	0.17
Andersen® Frenchwood® Patio Door Transom	Non-Tempered and Tempered (3.1mm) Glass (Including Patterned): All Frenchwood® Patio Door Transom Sizes		
	HP Low-E4® (no grilles, with removable grilles or with simulated divided light (SDL) grilles)	0.30	0.24
	HP Low-E4® with grilles between the glass	0.30	0.21
	HP Low-E4® with full divided light grilles	0.30	0.21
	HP Low-E4® Sun (no grilles or with interior wood (removable) grilles)	0.30	0.15
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.29	0.16
	HP Low-E4® SmartSun™ with grilles between the glass	0.30	0.14
HP Low-E4® SmartSun™ with full divided light grilles	0.30	0.14	

\*Where a grille type is identified, all grille patterns apply. See separate product listing on page 10 for products with capillary breather tubes in high altitude regions.

**Renewal by Andersen® Product Performance Values for Glass Products Ordered with Capillary Breather Tubes for High Altitude Applications\***

Product Type	Glass Type	U-Factor	SHGC
Renewal by Andersen® Picture (Specialty) Full Frame Window with Capillary Breather Tubes	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.1mm Glass: All Picture (Specialty) Full Frame Window Sizes <b>Except for the Following Sizes:</b> <ul style="list-style-type: none"> <li>- Patterned glass options that require 3.9mm glass.</li> <li>- Picture (specialty) full frame windows that are greater than 14.188 sq ft (Unit Width Times Unit Height) and less than or equal to 23.188 sq ft which require 3.9mm glass.</li> <li>- Picture (specialty) full frame windows that are greater than 23.188 sq ft (Unit Width Times Unit Height) which require 5.7mm glass.</li> <li>- Picture (specialty) full frame windows that are greater than 100.875" in width and less than 21" in height which require 5.7mm glass.</li> <li>- Picture (specialty) full frame windows that are less than 21" in width and greater than 100.875" in height which require 5.7mm glass.</li> <li>- Picture (specialty) full frame windows that are greater than 100.875" in width or height which require 5.7mm glass.</li> </ul>		
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.30	0.22
	HP Low-E4® SmartSun™ grilles between the glass	0.30	0.20
	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.9mm Glass. All Picture (Specialty) Full Frame Window Sizes <b>Except for the Following Sizes:</b> <ul style="list-style-type: none"> <li>- Picture (specialty) full frame windows that are greater than 23.188 sq ft (Unit Width times Unit Height) which require 5.7mm glass.</li> <li>- Picture (specialty) full frame windows that are greater than 100.875" in width and less than 21" in height which require 5.7mm glass.</li> <li>- Picture (specialty) full frame windows that are less than 21" in width and greater than 100.875" in height which require 5.7mm glass.</li> <li>- Picture (specialty) full frame windows that are greater than 100.875" in width or height which require 5.7mm glass.</li> </ul>		
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.30	0.22
	HP Low-E4® SmartSun™ grilles between the glass	0.30	0.20
	Non-Tempered and Tempered 4.7mm Glass. All Picture (Specialty) Full Frame Window Sizes <b>Except for the Following Sizes:</b> <ul style="list-style-type: none"> <li>- Picture (specialty) full frame windows that are greater than 23.188 sq ft (Unit Width times Unit Height) which require 5.7mm glass.</li> <li>- Picture (specialty) full frame windows that are greater than 100.875" in width and less than 21" in height which require 5.7mm glass.</li> <li>- Picture (specialty) full frame windows that are less than 21" in width and greater than 100.875" in height which require 5.7mm glass.</li> <li>- Picture (specialty) full frame windows that are greater than 100.875" in width or height which require 5.7mm glass.</li> </ul>		
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.30	0.22
	HP Low-E4® SmartSun™ grilles between the glass	0.30	0.20
	Renewal by Andersen® Picture (Specialty) Insert Window with Capillary Breather Tubes	Non-Tempered, Tempered and Patterned (Non-Tempered and Tempered) 3.9mm Glass: All Picture (Specialty) Insert Window Sizes <b>Except for the Following Sizes:</b> <ul style="list-style-type: none"> <li>- Picture (specialty) insert windows that are greater than 23.333 sq ft (Unit Width times Unit Height) which require 5.7mm glass.</li> <li>- Picture (specialty) insert windows that are greater than 44" in width and less than 20" in height which require 5.7mm glass.</li> <li>- Picture (specialty) insert windows that are less than 20" in width and greater than 45" in height which require 5.7mm glass.</li> <li>- Picture (specialty) insert windows that are greater than 96" in width or height which require 5.7mm glass.</li> </ul>	
HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)		0.30	0.23
HP Low-E4® SmartSun™ grilles between the glass		0.30	0.21

\*Where a grille type is identified, all grille patterns apply.

**Renewal by Andersen® Product Performance Values for Glass Products Ordered with Capillary Breather Tubes for High Altitude Applications\***

Product Type	Glass Type	U-Factor	SHGC
Renewal by Andersen® Picture (Specialty) Insert Window with Capillary Breather Tubes (Continued)	Non-Tempered and Tempered 4.7mm Glass. All Picture (Specialty) Insert Window Sizes <b>Except for the Following Sizes:</b> <ul style="list-style-type: none"> <li>- Picture (specialty) insert windows that are greater than 23.333 sq ft (Unit Width times Unit Height) which require 5.7mm glass.</li> <li>- Picture (specialty) insert windows that are greater than 100" in width and less than 20" in height which require 5.7mm glass.</li> <li>- Picture (specialty) insert windows that are less than 20" in width and greater than 100" in height which require 5.7mm glass.</li> <li>- Picture (specialty) insert windows that are greater than 100" in width or height which require 5.7mm glass.</li> </ul>		
	HP Low-E4® SmartSun™ (no grilles or with interior wood (removable) grilles)	0.30	0.23
	HP Low-E4® SmartSun™ grilles between the glass	0.30	0.21

\*Where a grille type is identified, all grille patterns apply.