PERFORMANCE RATINGS



WHAT IS NAFS?

The North American Fenestration Standard (NAFS) is designed to combine the window and door testing and ratings process into a harmonized North American Standard. It has been incorporated into the National Building Code of Canada and implemented across Canadian provinces.

NAFS Certification requires stringent standards be met for:

- Air tightness
- Water penetration resistance
- ☐ Structural performance under wind loads
- ☐ Forced entry resistance

Every Thermoproof product is NAFS tested and certified. Each product is clearly labelled, outlining the PG value and any specific ratings such as water and air resistance values. For detailed information on the performance ratings of your specific Thermoproof window series and configuration please visit www.thermoproof.ca



PG Performance Grade and Class. R-Residential. LC-Light Commercial. CW-Commercial Window.

DP Ability to withstand Wind Pressure.

WP Ability to withstand Water Pressure.

A3 Type of air leakage test performed. All Thermoproof windows and doors test to the highest A3 standard.

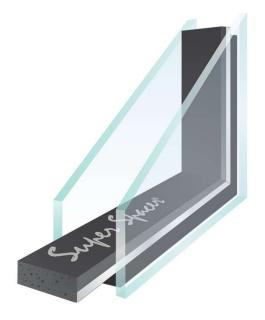
U-FACTOR Insulating character of the window. Lower is better.

SHGC Solar Heat Gain. Fraction of solar radiation allowed into your home. Lower is better.

STC Sound Transmission. Ability to reduce noise against a wide range of frequencies. Higher is better.

LET'S TALK ALL THINGS GLASS





INSULATED GLASS UNIT (IGU)

An IGU (Insulated Glass Unit) is a sealed unit with glass panes separated by a spacer and filled with insulating gas, designed to enhance energy efficiency and soundproofing. Thermoproof IGUs feature Cardinal LoE Glass, Super Spacer™ technology, and Argon Gas for superior thermal performance and reduced condensation. This means, our windows provide optimal insulation, keeping your space warmer in winter and cooler in summer.

Dual Pane: SunSmart1 and SunSmart2. Two glass panes with argon gas, offering great insulation and noise reduction.

Triple Pane: SunSmart3 and SunSmart4. Built with three panes of glass, triple pane windows provide better insulation compared to dual pane. This helps lower heating costs, and acts as an excellent sound barrier.

LOW-EMISSIVITY GLASS (LoĒ)

Low-emissivity glass is coated with a thin transparent metal layer to reduce heat loss, improve energy efficiency, lower cooling costs, and minimize condensation.



LoĒ 270

In Summer, the LoĒ 270 coating blocks infrared radiation, heat and UV rays. In winter 270 reflects warmth back inside.



LoĒ 366

Upgrading to LoĒ 366 provides even greater protection against solar heat gain and UV rays.



LoĒ i89

Applied on the interior surface, i89 offers and extra layer of insulation by reflecting heat back into your home during winter.



LoĒ 180

Paired with LoĒ 270 or 366, LoĒ 180 acts as an insulator that helps protects against heat loss.

THERMOPROOF

SUNSMART[™]

Who says you can't do anything about the weather?

Bronze Good

Silver Excellent

Gold Highest



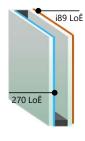


SunSmart 1

Dual Pane 270 LoĒ – Clear

U-Value

Solar Heat Gain



SunSmart 1+

Dual Pane

270 LoĒ - i89 LoĒ

U-Value

Solar Heat Gain



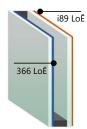
SunSmart 2

Dual Pane

366 LoĒ – Clear

U-Value

Solar Heat Gain



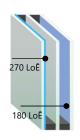
SunSmart 2+

Dual Pane

366 LoĒ - i89 LoĒ

U-Value

Solar Heat Gain



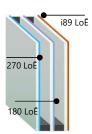
SunSmart 3

Triple Pane

270 LoĒ - Clear - 180 LoĒ

U-Value

Solar Heat Gain



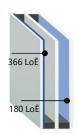
SunSmart 3+

Triple Pane

270 LoĒ - 180 LoĒ - i89 LoĒ

U-Value

Solar Heat Gain



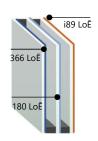
SunSmart 4

Triple Pane

366 LoĒ - Clear - 180 LoĒ

U-Value

Solar Heat Gain



SunSmart 4+

Triple Pane

366 LoĒ - 180 LoĒ - i89 LoĒ

U-Value

Solar Heat Gain

7000 SUMMIT SERIES DUAL PANE

| Picture | | | | | | | | | |
|---------------------------|---------|----|------|------|-----|-----------|------|-----|-------|
| Glass Package | U-Value | ER | VT | SHGC | STC | PG | DP | WP | А3 |
| SunSmart 1 (LoE 270/CI) | 1.52 | 25 | 0.59 | 0.31 | 35 | LC - PG40 | 2640 | 720 | Fixed |
| SunSmart 2 (LoE 366/CI) | 1.49 | 21 | 0.59 | 0.23 | 35 | LC - PG40 | 2640 | 720 | Fixed |
| SunSmart 1+ (LoE 270/i89) | 1.27 | 30 | 0.59 | 0.30 | 35 | LC - PG40 | 2640 | 720 | Fixed |
| SunSmart 2+ (LoE 366/i89) | 1.25 | 26 | 0.59 | 0.23 | 35 | LC - PG40 | 2640 | 720 | Fixed |

| Casement | | | | | | | | | |
|---------------------------|---------|----|------|------|-----|-----------|------|-----|----|
| Glass Package | U-Value | ER | VT | SHGC | STC | PG | DP | WP | А3 |
| SunSmart 1 (LoE 270/Cl) | 1.51 | 21 | 0.46 | 0.24 | 35 | LC - PG40 | 2160 | 720 | A3 |
| SunSmart 2 (LoE 366/CI) | 1.49 | 18 | 0.46 | 0.18 | 35 | LC - PG40 | 2160 | 720 | A3 |
| SunSmart 1+ (LoE 270/i89) | 1.33 | 25 | 0.46 | 0.24 | 35 | LC - PG40 | 2160 | 720 | A3 |
| SunSmart 2+ (LoE 366/i89) | 1.31 | 22 | 0.46 | 0.18 | 35 | LC - PG40 | 2160 | 720 | A3 |

| Awning | | | | | | | | | |
|---------------------------|---------|----|------|------|-----|-----------|------|-----|----|
| Glass Package | U-Value | ER | VT | SHGC | STC | PG | DP | WP | А3 |
| SunSmart 1 (LoE 270/Cl) | 1.53 | 20 | 0.46 | 0.27 | 35 | LC - PG40 | 2400 | 720 | A3 |
| SunSmart 2 (LoE 366/Cl) | 1.51 | 24 | 0.46 | 0.18 | 35 | LC - PG40 | 2400 | 720 | A3 |
| SunSmart 1+ (LoE 270/i89) | 1.36 | 24 | 0.46 | 0.24 | 35 | LC - PG40 | 2400 | 720 | A3 |
| SunSmart 2+ (LoE 366/i89) | 1.35 | 21 | 0.46 | 0.18 | 35 | LC - PG40 | 2400 | 720 | A3 |

8000 TOFINO SERIES TRIPLE PANE

| Picture | | | | | | | | | |
|-------------------------------|---------|----|------|------|-----|-----------|------|-----|-------|
| Glass Package | U-Value | ER | VT | SHGC | STC | PG | DP | WP | А3 |
| SunSmart 3 (LoE 270/CI/180) | 0.91 | 35 | 0.50 | 0.24 | 39 | LC - PG40 | 1920 | 720 | Fixed |
| SunSmart 4 (LoE 366/CI/180) | 0.90 | 32 | 0.50 | 0.20 | 39 | LC - PG40 | 1920 | 720 | Fixed |
| SunSmart 3+ (LoE 270/180/i89) | 0.83 | 37 | 0.50 | 0.26 | 39 | LC - PG40 | 1920 | 720 | Fixed |
| SunSmart 4+ (LoE 366/180/i89) | 0.82 | 33 | 0.50 | 0.19 | 39 | LC - PG40 | 1920 | 720 | Fixed |

| Casement | | | | | | | | | |
|-------------------------------|---------|----|------|------|-----|-----------|------|-----|----|
| Glass Package | U-Value | ER | VT | SHGC | STC | PG | DP | WP | А3 |
| SunSmart 3 (LoE 270/CI/180) | 0.97 | 30 | 0.37 | 0.20 | 39 | LC - PG40 | 1920 | 720 | A3 |
| SunSmart 4 (LoE 366/CI/180) | 0.96 | 27 | 0.37 | 0.15 | 39 | LC - PG40 | 1920 | 720 | A3 |
| SunSmart 3+ (LoE 270/180/i89) | 0.91 | 31 | 0.37 | 0.18 | 39 | LC - PG40 | 1920 | 720 | A3 |
| SunSmart 4+ (LoE 366/180/i89) | 0.90 | 28 | 0.37 | 0.15 | 39 | LC - PG40 | 1920 | 720 | A3 |

| Awning | | | | | | | | | |
|-------------------------------|---------|----|------|------|-----|-----------|------|-----|----|
| Glass Package | U-Value | ER | VT | SHGC | STC | PG | DP | WP | А3 |
| SunSmart 3 (LoE 270/CI/180) | 0.97 | 30 | 0.37 | 0.20 | 39 | LC - PG40 | 1920 | 720 | A3 |
| SunSmart 4 (LoE 366/CI/180) | 0.96 | 27 | 0.37 | 0.15 | 39 | LC - PG40 | 1920 | 720 | A3 |
| SunSmart 3+ (LoE 270/180/i89) | 0.91 | 31 | 0.37 | 0.18 | 39 | LC - PG40 | 1920 | 720 | A3 |
| SunSmart 4+ (LoE 366/180/i89) | 0.90 | 28 | 0.37 | 0.15 | 39 | LC - PG40 | 1920 | 720 | A3 |

6000 PACIFIC SERIES DUAL PANE

| Picture | | | | | | | | | |
|---------------------------|---------|----|------|------|-----|----------|------|-----|-------|
| Glass Package | U-Value | ER | VT | SHGC | STC | PG | DP | WP | А3 |
| SunSmart 1 (LoE 270/Cl) | 1.47 | 26 | 0.53 | 0.32 | 31 | R - PG30 | 1920 | 720 | Fixed |
| SunSmart 2 (LoE 366/CI) | 1.44 | 22 | 0.53 | 0.24 | 31 | R - PG30 | 1920 | 720 | Fixed |
| SunSmart 1+ (LoE 270/i89) | 1.22 | 31 | 0.53 | 0.31 | 31 | R - PG30 | 1920 | 720 | Fixed |
| SunSmart 2+ (LoE 366/i89) | 1.20 | 27 | 0.53 | 0.23 | 31 | R - PG30 | 1920 | 720 | Fixed |

| Horizontal Slider | | | | | | | | | |
|---------------------------|---------|----|------|------|-----|----------|------|-----|----|
| Glass Package | U-Value | ER | VT | SHGC | STC | PG | DP | WP | А3 |
| SunSmart 1 (LoE 270/CI) | 1.50 | 23 | 0.55 | 0.29 | 31 | R - PG30 | 2160 | 330 | A3 |
| SunSmart 2 (LoE 366/Cl) | 1.47 | 20 | 0.55 | 0.22 | 31 | R - PG30 | 2160 | 330 | A3 |
| SunSmart 1+ (LoE 270/i89) | 1.29 | 27 | 0.55 | 0.29 | 31 | R - PG30 | 2160 | 330 | A3 |
| SunSmart 2+ (LoE 366/i89) | 1.27 | 24 | 0.55 | 0.21 | 31 | R - PG30 | 2160 | 330 | A3 |

| Vertical Slider | | | | | | | | | |
|---------------------------|---------|----|------|------|-----|----------|------|-----|----|
| Glass Package | U-Value | ER | VT | SHGC | STC | PG | DP | WP | А3 |
| SunSmart 1 (LoE 270/Cl) | 1.51 | 23 | 0.55 | 0.29 | 31 | R - PG30 | 2400 | 330 | A3 |
| SunSmart 2 (LoE 366/Cl) | 1.48 | 20 | 0.55 | 0.22 | 31 | R - PG30 | 2400 | 330 | A3 |
| SunSmart 1+ (LoE 270/i89) | 1.29 | 27 | 0.55 | 0.29 | 31 | R - PG30 | 2400 | 330 | A3 |
| SunSmart 2+ (LoE 366/i89) | 1.27 | 24 | 0.55 | 0.21 | 31 | R - PG30 | 2400 | 330 | A3 |

6000 PACIFIC SERIES TRIPLE PANE

| Picture | | | | | | | | | |
|-------------------------------|---------|----|------|------|-----|----------|------|-----|-------|
| Glass Package | U-Value | ER | VT | SHGC | STC | PG | DP | WP | A3 |
| SunSmart 3 (LoE 270/CI/180) | 0.87 | 37 | 0.53 | 0.28 | 39 | R - PG30 | 1920 | 720 | Fixed |
| SunSmart 4 (LoE 366/CI/180) | 0.85 | 34 | 0.53 | 0.21 | 39 | R - PG30 | 1920 | 720 | Fixed |
| SunSmart 3+ (LoE 270/180/i89) | 0.78 | 39 | 0.53 | 0.28 | 39 | R - PG30 | 1920 | 720 | Fixed |
| SunSmart 4+ (LoE 366/180/i89) | 0.77 | 35 | 0.53 | 0.20 | 39 | R - PG30 | 1920 | 720 | Fixed |

| Horizontal Slider | | | | | | | | | |
|-------------------------------|---------|----|------|------|-----|----------|------|-----|----|
| Glass Package | U-Value | ER | VT | SHGC | STC | PG | DP | WP | А3 |
| SunSmart 3 (LoE 270/Cl/180) | 0.93 | 34 | 0.48 | 0.26 | 39 | R - PG30 | 2160 | 330 | A3 |
| SunSmart 4 (LoE 366/CI/180) | 0.92 | 30 | 0.48 | 0.19 | 39 | R - PG30 | 2160 | 330 | A3 |
| SunSmart 3+ (LoE 270/180/i89) | 0.86 | 35 | 0.48 | 0.25 | 39 | R - PG30 | 2160 | 330 | A3 |
| SunSmart 4+ (LoE 366/180/i89) | 0.85 | 32 | 0.48 | 0.19 | 39 | R - PG30 | 2160 | 300 | A3 |

| Vertical Slider | | | | | | | | | |
|-------------------------------|---------|----|------|------|-----|----------|------|-----|----|
| Glass Package | U-Value | ER | VT | SHGC | STC | PG | DP | WP | А3 |
| SunSmart 3 (LoE 270/Cl/180) | 0.95 | 34 | 0.48 | 0.26 | 39 | R - PG30 | 2400 | 330 | A3 |
| SunSmart 4 (LoE 366/CI/180) | 0.94 | 30 | 0.48 | 0.19 | 39 | R - PG30 | 2400 | 330 | A3 |
| SunSmart 3+ (LoE 270/180/i89) | 0.87 | 35 | 0.48 | 0.25 | 39 | R - PG30 | 2400 | 330 | A3 |
| SunSmart 4+ (LoE 366/180/i89) | 0.86 | 32 | 0.48 | 0.19 | 39 | R - PG30 | 2400 | 330 | A3 |

VICTORIAN SERIES SLIDING GLASS DOOR

| Dual Pane | | | | | | | | | | | |
|---------------------------|---------|----|------|------|----------|------|-----|----|--|--|--|
| Glass Package | U-Value | ER | VT | SHGC | PG | DP | WP | А3 | | | |
| SunSmart 1 (LoE 272/Cl) | 1.59 | | 0.55 | 0.32 | LC- PG55 | 2640 | 400 | A3 | | | |
| SunSmart 2 (LoE 366/Cl) | 1.59 | | 0.50 | 0.21 | LC- PG55 | 2640 | 400 | A3 | | | |
| SunSmart 1+ (LoE 272/i89) | 1.36 | | 0.54 | 0.31 | LC- PG55 | 2640 | 400 | A3 | | | |
| SunSmart 2+ (LoE 366/i89) | 1.31 | | 0.49 | 0.21 | LC- PG55 | 2640 | 400 | A3 | | | |

| Triple Pane | | | | | | | | |
|-------------------------------|---------|----|------|------|----------|------|-----|----|
| Glass Package | U-Value | ER | VT | SHGC | PG | DP | WP | А3 |
| SunSmart 3 (LoE 272/272/Cl) | 1.19 | 28 | 0.44 | 0.26 | LC- PG55 | 2640 | 400 | A3 |
| SunSmart 4 (LoE 366/366/Cl) | 1.19 | 23 | 0.36 | 0.17 | LC- PG55 | 2640 | 400 | A3 |
| SunSmart 3+ (LoE 272/272/i89) | 1.14 | 29 | 0.43 | 0.25 | LC- PG55 | 2640 | 400 | A3 |
| SunSmart 4+ (LoE 366/366/i89) | 1.08 | 25 | 0.35 | 0.16 | LC- PG55 | 2640 | 400 | A3 |

Size tested 86 3/16 x 82 3/16 (2 panel)