

| International Window 5420 7/8" Insulating Glass Unit Performance | | | | | | | | | | | | |
|---|------------------|------------|-----------------|----------------------------|------------------|-----------------------------|-------------|-----------------|------------------|----------------------|-----------------|------------------|
| Casement w/Steel Spacer | U-Factors | | | | | | SHGC | | | Visible Light | | |
| | Air fill | With Argon | Sculptured Grid | Sculptured Grid with Argon | 1/8" x 3/4" Grid | 1/8" x 3/4" Grid with Argon | | Sculptured Grid | 1/8" x 3/4" Grid | | Sculptured Grid | 1/8" x 3/4" Grid |
| SS clear/ SS clear | 0.44 | 0.43 | 0.44 | 0.43 | 0.44 | 0.43 | 0.50 | 0.45 | 0.45 | 0.53 | 0.48 | 0.48 |
| DS clear/ DS clear | 0.44 | 0.43 | 0.44 | 0.43 | 0.44 | 0.43 | 0.50 | 0.45 | 0.45 | 0.53 | 0.48 | 0.48 |
| 3/16 clear/ 3/16 clear | 0.44 | 0.42 | 0.44 | 0.42 | 0.44 | 0.42 | 0.48 | 0.43 | 0.43 | 0.52 | 0.47 | 0.47 |
| SS EnergyShield™/ SS clear | 0.33 | 0.30 | 0.33 | 0.30 | 0.33 | 0.30 | 0.22 | 0.20 | 0.20 | 0.41 | 0.37 | 0.37 |
| DS EnergyShield™/ DS clear | 0.33 | 0.30 | 0.33 | 0.30 | 0.33 | 0.30 | 0.22 | 0.20 | 0.20 | 0.41 | 0.37 | 0.37 |
| 3/16 EnergyShield™/ 3/16 clear | 0.33 | 0.30 | 0.33 | 0.30 | 0.33 | 0.30 | 0.21 | 0.19 | 0.19 | 0.39 | 0.35 | 0.35 |
| SS EnergyShield Xtreme™/ SS clear | 0.33 | 0.30 | 0.33 | 0.30 | 0.33 | 0.30 | 0.18 | 0.17 | 0.17 | 0.40 | 0.36 | 0.36 |
| DS EnergyShield Xtreme™/ DS clear | 0.33 | 0.30 | 0.33 | 0.30 | 0.33 | 0.30 | 0.18 | 0.17 | 0.17 | 0.40 | 0.36 | 0.36 |
| 3/16 EnergyShield Xtreme™/ 3/16 clear | 0.33 | 0.30 | 0.33 | 0.30 | 0.33 | 0.30 | 0.18 | 0.17 | 0.17 | 0.40 | 0.36 | 0.36 |
| DS bronze/ DS clear | 0.44 | 0.43 | 0.44 | 0.43 | 0.44 | 0.43 | 0.41 | 0.37 | 0.37 | 0.39 | 0.35 | 0.35 |
| 3/16 bronze/ 3/16 clear | 0.44 | 0.42 | 0.44 | 0.42 | 0.44 | 0.42 | 0.37 | 0.33 | 0.33 | 0.34 | 0.31 | 0.31 |
| 5/32 Solarcool/ 3/16 clear | 0.43 | 0.42 | 0.43 | 0.42 | 0.43 | 0.42 | 0.24 | 0.22 | 0.22 | 0.14 | 0.13 | 0.13 |
| DS grey/ DS clear | 0.44 | 0.43 | 0.44 | 0.43 | 0.44 | 0.43 | 0.38 | 0.35 | 0.35 | 0.35 | 0.32 | 0.32 |
| 3/16 grey/ 3/16 clear | 0.44 | 0.42 | 0.44 | 0.42 | 0.44 | 0.42 | 0.33 | 0.30 | 0.30 | 0.29 | 0.27 | 0.27 |
| DS greylite # 31/ DS clear | 0.44 | 0.43 | 0.44 | 0.43 | 0.44 | 0.43 | 0.21 | 0.19 | 0.19 | 0.14 | 0.13 | 0.13 |
| DS Azuria/ DS clear | 0.44 | 0.43 | 0.44 | 0.43 | 0.44 | 0.43 | 0.32 | 0.29 | 0.29 | 0.45 | 0.41 | 0.41 |
| 3/16 Azuria/ 3/16 clear | 0.44 | 0.42 | 0.44 | 0.42 | 0.44 | 0.42 | 0.28 | 0.26 | 0.26 | 0.42 | 0.38 | 0.38 |
| DS bronze/ DS EnergyShield™ | 0.33 | 0.30 | 0.33 | 0.30 | 0.33 | 0.30 | 0.24 | 0.22 | 0.22 | 0.31 | 0.28 | 0.28 |
| 3/16 bronze/ 3/16 EnergyShield™ | 0.33 | 0.30 | 0.33 | 0.30 | 0.33 | 0.30 | 0.22 | 0.20 | 0.20 | 0.25 | 0.23 | 0.23 |
| DS grey/ DS EnergyShield™ | 0.33 | 0.30 | 0.33 | 0.30 | 0.33 | 0.30 | 0.22 | 0.21 | 0.21 | 0.28 | 0.25 | 0.25 |
| 3/16 grey/ 3/16 EnergyShield™ | 0.33 | 0.30 | 0.33 | 0.30 | 0.33 | 0.30 | 0.20 | 0.18 | 0.18 | 0.22 | 0.20 | 0.20 |
| DS Azuria/ DS EnergyShield™ | 0.33 | 0.30 | 0.33 | 0.30 | 0.33 | 0.30 | 0.23 | 0.21 | 0.21 | 0.36 | 0.32 | 0.32 |
| 3/16 Azuria/ 3/16 EnergyShield™ | 0.33 | 0.30 | 0.33 | 0.30 | 0.33 | 0.30 | 0.22 | 0.20 | 0.20 | 0.31 | 0.28 | 0.28 |
| 3/16 Solexia/ 3/16 EnergyShield™ | 0.33 | 0.30 | 0.33 | 0.30 | 0.33 | 0.30 | 0.24 | 0.22 | 0.22 | 0.35 | 0.31 | 0.31 |

U-Value is the overall coefficient of heat transmittance of heat flow measured in BTU/hr.*ft²*°F. Lower U-Values indicate better performance. Winter nighttime U-Values are calculated using an outdoor air temperature of 0°F and indoor air temperature of 70°F.

Solar Heat Gain Coefficient is defined that fraction of incident solar radiation that actually enters a building through the window as heat gain. The SHGC is expressed as a dimensionless number from 0 to 1.0 A high coefficient signifies high heat gain, while a low number means low heat gain.

Visible Transmittance is the amount of light in the visible portion of the spectrum that passes through a glazing material. This property does not directly affect heating and cooling loads in a building.

Clear glass - includes all non-tinted pattern glass, i.e. Obscure, Rain, Delta Frost
 EnergyShield™ spectrally selective Low-E with emissivity 0.036
 EnergyShield Xtreme™ spectrally selective Low-E with emissivity 0.024

| International Window 5420 7/8" Insulating Glass Unit Performance | | | | | | | | | | | | |
|---|------------------|------------|-----------------|----------------------------|------------------|-----------------------------|-------------|-----------------|------------------|----------------------|-----------------|------------------|
| Casement w/ Xtreme spacer | U-Factors | | | | | | SHGC | | | Visible Light | | |
| | Air fill | With Argon | Sculptured Grid | Sculptured Grid with Argon | 1/8" x 3/4" Grid | 1/8" x 3/4" Grid with Argon | | Sculptured Grid | 1/8" x 3/4" Grid | | Sculptured Grid | 1/8" x 3/4" Grid |
| SS clear/ SS clear | 0.43 | 0.41 | 0.43 | 0.41 | 0.43 | 0.41 | 0.50 | 0.45 | 0.45 | 0.53 | 0.48 | 0.48 |
| DS clear/ DS clear | 0.43 | 0.41 | 0.43 | 0.41 | 0.43 | 0.41 | 0.50 | 0.45 | 0.45 | 0.53 | 0.48 | 0.48 |
| 3/16 clear/ 3/16 clear | 0.43 | 0.41 | 0.43 | 0.41 | 0.43 | 0.41 | 0.48 | 0.43 | 0.43 | 0.52 | 0.47 | 0.47 |
| SS EnergyShield™/ SS clear | 0.31 | 0.29 | 0.31 | 0.29 | 0.31 | 0.29 | 0.22 | 0.20 | 0.20 | 0.41 | 0.37 | 0.37 |
| DS EnergyShield™/ DS clear | 0.31 | 0.29 | 0.31 | 0.29 | 0.31 | 0.29 | 0.22 | 0.20 | 0.20 | 0.41 | 0.37 | 0.37 |
| 3/16 EnergyShield™/ 3/16 clear | 0.32 | 0.28 | 0.32 | 0.28 | 0.32 | 0.28 | 0.21 | 0.19 | 0.19 | 0.39 | 0.35 | 0.35 |
| SS EnergyShield Xtreme™/ SS clear | 0.31 | 0.28 | 0.31 | 0.28 | 0.31 | 0.28 | 0.18 | 0.16 | 0.16 | 0.40 | 0.36 | 0.36 |
| DS EnergyShield Xtreme™/ DS clear | 0.31 | 0.28 | 0.31 | 0.28 | 0.31 | 0.28 | 0.18 | 0.17 | 0.17 | 0.40 | 0.36 | 0.36 |
| 3/16 EnergyShield Xtreme™/ 3/16 clear | 0.31 | 0.28 | 0.31 | 0.28 | 0.31 | 0.28 | 0.18 | 0.17 | 0.17 | 0.40 | 0.36 | 0.36 |
| DS bronze/ DS clear | 0.43 | 0.41 | 0.43 | 0.41 | 0.43 | 0.41 | 0.41 | 0.37 | 0.37 | 0.39 | 0.35 | 0.35 |
| 3/16 bronze/ 3/16 clear | 0.43 | 0.41 | 0.43 | 0.41 | 0.43 | 0.41 | 0.37 | 0.33 | 0.33 | 0.34 | 0.31 | 0.31 |
| 5/32 Solarcool/ 3/16 clear | 0.42 | 0.41 | 0.42 | 0.41 | 0.42 | 0.41 | 0.24 | 0.22 | 0.22 | 0.14 | 0.13 | 0.13 |
| DS grey/ DS clear | 0.43 | 0.41 | 0.43 | 0.41 | 0.43 | 0.41 | 0.38 | 0.35 | 0.35 | 0.35 | 0.32 | 0.32 |
| 3/16 grey/ 3/16 clear | 0.43 | 0.41 | 0.43 | 0.41 | 0.43 | 0.41 | 0.33 | 0.30 | 0.30 | 0.29 | 0.27 | 0.27 |
| DS greylite # 31/ DS clear | 0.43 | 0.41 | 0.43 | 0.41 | 0.43 | 0.41 | 0.21 | 0.19 | 0.19 | 0.14 | 0.13 | 0.13 |
| DS Azuria/ DS clear | 0.43 | 0.41 | 0.43 | 0.41 | 0.43 | 0.41 | 0.32 | 0.29 | 0.29 | 0.45 | 0.41 | 0.41 |
| 3/16 Azuria/ 3/16 clear | 0.43 | 0.41 | 0.43 | 0.41 | 0.43 | 0.41 | 0.28 | 0.26 | 0.26 | 0.42 | 0.38 | 0.38 |
| DS bronze/ DS EnergyShield™ | 0.32 | 0.29 | 0.32 | 0.29 | 0.32 | 0.29 | 0.24 | 0.22 | 0.22 | 0.31 | 0.28 | 0.28 |
| 3/16 bronze/ 3/16 EnergyShield™ | 0.32 | 0.28 | 0.32 | 0.28 | 0.32 | 0.28 | 0.22 | 0.20 | 0.20 | 0.25 | 0.23 | 0.23 |
| DS grey/ DS EnergyShield™ | 0.32 | 0.29 | 0.32 | 0.29 | 0.32 | 0.29 | 0.22 | 0.21 | 0.21 | 0.28 | 0.25 | 0.25 |
| 3/16 grey/ 3/16 EnergyShield™ | 0.32 | 0.28 | 0.32 | 0.28 | 0.32 | 0.28 | 0.20 | 0.18 | 0.18 | 0.22 | 0.20 | 0.20 |
| DS Azuria/ DS EnergyShield™ | 0.32 | 0.29 | 0.32 | 0.29 | 0.32 | 0.29 | 0.23 | 0.21 | 0.21 | 0.36 | 0.32 | 0.32 |
| 3/16 Azuria/ 3/16 EnergyShield™ | 0.32 | 0.28 | 0.32 | 0.28 | 0.32 | 0.28 | 0.22 | 0.20 | 0.20 | 0.31 | 0.28 | 0.28 |
| 3/16 Solexia/ 3/16 EnergyShield™ | 0.32 | 0.28 | 0.32 | 0.28 | 0.32 | 0.28 | 0.24 | 0.22 | 0.22 | 0.35 | 0.31 | 0.31 |

U-Value is the overall coefficient of heat transmittance of heat flow measured in BTU/hr.*ft²*°F. Lower U-Values indicate better performance. Winter nighttime U-Values are calculated using an outdoor air temperature of 0°F and indoor air temperature of 70°F.

Solar Heat Gain Coefficient is defined that fraction of incident solar radiation that actually enters a building through the window as heat gain. The SHGC is expressed as a dimensionless number from 0 to 1.0 A high coefficient signifies high heat gain, while a low number means low heat gain.

Visible Transmittance is the amount of light in the visible portion of the spectrum that passes through a glazing material. This property does not directly affect heating and cooling loads in a building.

Clear glass - includes all non-tinted pattern glass, i.e. Obscure, Rain, Delta Frost
 EnergyShield™ spectrally selective Low-E with emissivity 0.036
 EnergyShield Xtreme™ spectrally selective Low-E with emissivity 0.024

International Window 5420 1 1/8" Triple Glaze Unit Performance

**Horizontal Slide
w/Steel Spacer**

| | U-Factors | | | | | | SHGC | | | Visible Light | | |
|---|-----------|------------|-----------------|----------------------------|------------------|-----------------------------|------|-----------------|------------------|---------------|-----------------|------------------|
| | Air fill | With Argon | Sculptured Grid | Sculptured Grid with Argon | 1/8" x 3/4" Grid | 1/8" x 3/4" Grid with Argon | | Sculptured Grid | 1/8" x 3/4" Grid | | Sculptured Grid | 1/8" x 3/4" Grid |
| SS EnergyShield™/ SS clear / SS clear | 0.29 | 0.28 | 0.32 | 0.26 | 0.32 | 0.26 | 0.23 | 0.21 | 0.21 | 0.42 | 0.38 | 0.38 |
| DS EnergyShield™/ DS clear / DS clear | 0.31 | 0.27 | 0.31 | 0.27 | 0.31 | 0.27 | 0.22 | 0.21 | 0.21 | 0.41 | 0.37 | 0.37 |
| 3/16 EnergyShield™/ 3/16 clear / 3/16 clear | 0.33 | 0.30 | NA | NA | 0.34 | 0.31 | 0.22 | NA | 0.20 | 0.40 | NA | 0.36 |
| SS EnergyShield™/ SS clear / SS EnergyShield™ | 0.25 | 0.23 | 0.25 | 0.24 | 0.25 | 0.24 | 0.21 | 0.19 | 0.19 | 0.35 | 0.32 | 0.32 |
| DS EnergyShield™/ DS clear / DS EnergyShield™ | 0.26 | 0.24 | 0.26 | 0.25 | 0.26 | 0.25 | 0.21 | 0.19 | 0.19 | 0.35 | 0.31 | 0.31 |
| 3/16 EnergyShield™/ 3/16 clear / 3/16 EnergyShield™ | 0.29 | 0.26 | NA | NA | 0.29 | 0.26 | 0.21 | NA | 0.19 | 0.34 | NA | 0.31 |
| SS EnergyShield Xtreme™/ SS clear / SS clear | 0.28 | 0.28 | 0.29 | 0.28 | 0.29 | 0.28 | 0.17 | 0.15 | 0.15 | 0.37 | 0.34 | 0.34 |
| DS EnergyShield Xtreme™/ DS clear / DS clear | 0.29 | 0.28 | 0.30 | 0.28 | 0.30 | 0.28 | 0.17 | 0.15 | 0.15 | 0.37 | 0.33 | 0.33 |
| 3/16 EnergyShield Xtreme™/ 3/16 clear / 3/16 clear | 0.32 | 0.30 | NA | NA | 0.32 | 0.31 | 0.17 | NA | 0.16 | 0.36 | NA | 0.32 |
| SS EnergyShield Xtreme™/ SS clear / SS EnergyShield Xtreme™ | 0.25 | 0.22 | 0.25 | 0.22 | 0.25 | 0.22 | 0.17 | 0.15 | 0.15 | 0.37 | 0.34 | 0.34 |
| DS EnergyShield Xtreme™/ DS clear / DS EnergyShield Xtreme™ | 0.26 | 0.23 | 0.26 | 0.23 | 0.26 | 0.23 | 0.17 | 0.15 | 0.15 | 0.37 | 0.33 | 0.33 |
| 3/16 EnergyShield Xtreme™/ 3/16 clear / 3/16 EnergyShield Xtreme™ | 0.28 | 0.26 | NA | NA | 0.29 | 0.27 | 0.17 | NA | 0.16 | 0.36 | NA | 0.32 |

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 EnergyShield™ spectrally selective Low-E with emissivity 0.036
 EnergyShield Xtreme™ spectrally selective Low-E with emissivity 0.024

International Window 5420 1 1/8" Triple Glaze Unit Performance

**Horizontal Slide
w/Xtreme Spacer**

| | U-Factors | | | | | | SHGC | | | Visible Light | | |
|---|-----------|------------|-----------------|----------------------------|------------------|-----------------------------|------|-----------------|------------------|---------------|-----------------|------------------|
| | Air fill | With Argon | Sculptured Grid | Sculptured Grid with Argon | 1/8" x 3/4" Grid | 1/8" x 3/4" Grid with Argon | | Sculptured Grid | 1/8" x 3/4" Grid | | Sculptured Grid | 1/8" x 3/4" Grid |
| SS EnergyShield™/ SS clear / SS clear | 0.28 | 0.26 | 0.30 | 0.25 | 0.30 | 0.25 | 0.23 | 0.21 | 0.21 | 0.42 | 0.38 | 0.38 |
| DS EnergyShield™/ DS clear / DS clear | 0.29 | 0.25 | 0.30 | 0.26 | 0.30 | 0.26 | 0.22 | 0.21 | 0.21 | 0.41 | 0.37 | 0.37 |
| 3/16 EnergyShield™/ 3/16 clear / 3/16 clear | 0.32 | 0.28 | NA | NA | 0.33 | 0.29 | 0.22 | NA | 0.20 | 0.40 | NA | 0.36 |
| SS EnergyShield™/ SS clear / SS EnergyShield™ | 0.23 | 0.21 | 0.23 | 0.22 | 0.23 | 0.22 | 0.21 | 0.19 | 0.19 | 0.35 | 0.32 | 0.32 |
| DS EnergyShield™/ DS clear / DS EnergyShield™ | 0.24 | 0.23 | 0.25 | 0.23 | 0.25 | 0.23 | 0.21 | 0.19 | 0.19 | 0.35 | 0.31 | 0.31 |
| 3/16 EnergyShield™/ 3/16 clear / 3/16 EnergyShield™ | 0.27 | 0.24 | NA | NA | 0.28 | 0.24 | 0.21 | NA | 0.19 | 0.34 | NA | 0.31 |
| SS EnergyShield Xtreme™/ SS clear / SS clear | 0.27 | 0.26 | 0.27 | 0.27 | 0.27 | 0.27 | 0.17 | 0.15 | 0.15 | 0.37 | 0.34 | 0.34 |
| DS EnergyShield Xtreme™/ DS clear / DS clear | 0.28 | 0.26 | 0.28 | 0.27 | 0.28 | 0.27 | 0.17 | 0.15 | 0.15 | 0.37 | 0.33 | 0.33 |
| 3/16 EnergyShield Xtreme™/ 3/16 clear / 3/16 clear | 0.30 | 0.28 | NA | NA | 0.31 | 0.29 | 0.17 | NA | 0.16 | 0.36 | NA | 0.32 |
| SS EnergyShield Xtreme™/ SS clear / SS EnergyShield Xtreme™ | 0.23 | 0.21 | 0.23 | 0.21 | 0.23 | 0.21 | 0.17 | 0.15 | 0.15 | 0.37 | 0.34 | 0.34 |
| DS EnergyShield Xtreme™/ DS clear / DS EnergyShield Xtreme™ | 0.24 | 0.21 | 0.24 | 0.22 | 0.24 | 0.22 | 0.17 | 0.15 | 0.15 | 0.37 | 0.33 | 0.33 |
| 3/16 EnergyShield Xtreme™/ 3/16 clear / 3/16 EnergyShield Xtreme™ | 0.27 | 0.25 | NA | NA | 0.28 | 0.26 | 0.17 | NA | 0.16 | 0.36 | NA | 0.32 |

U-Value is the overall coefficient of heat transmittance of heat flow measured in BTU/hr.* ft²*°F. Lower U-Values indicate better performance. Winter nighttime U-Values are calculated using an outdoor air temperature of 0°F and indoor air temperature of 70°F.

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EnergyShield™ spectrally selective Low-E with emissivity 0.036

EnergyShield Xtreme™ spectrally selective Low-E with emissivity 0.024