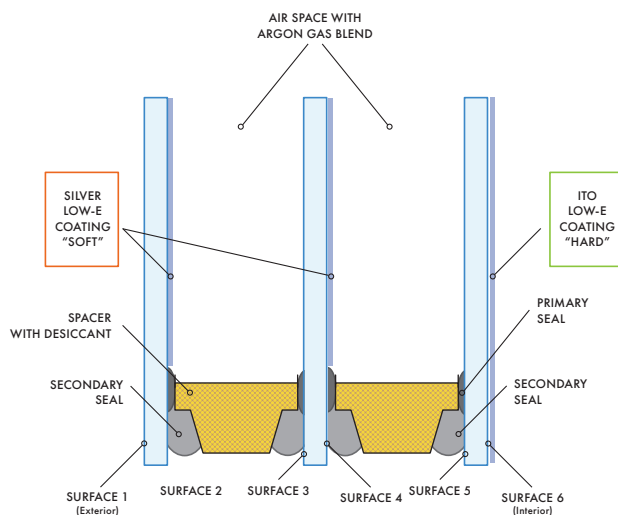




## ENHANCED ENERGY PERFORMANCE

Triple-pane glass is available on select 400 Series products to help you improve energy efficiency, lower energy bills, and meet ENERGY STAR® v. 7.0 performance requirements with multiple Low-E coating combinations. While triple-pane glass can be beneficial in all regions, its impact is most significant in colder climates where more months of the year are spent heating the home.



- Products with glass options that are NFRC certified and meet ENERGY STAR v. 7.0 performance requirements throughout the U.S.



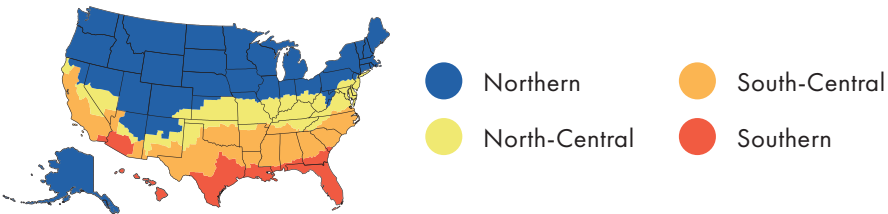
- Availability for 400 Series products:
  - Windows: casement, awning, casement/awning picture, casement/awning transom, tilt-wash double-hung full-frame, and tilt-wash transom
  - Doors: Frenchwood® gliding and Frenchwood hinged
  - Specialty products: shapes and complementary specialty shapes



400 SERIES Triple-Pane Glass Options

ENERGY STAR® V. 7.0 PERFORMANCE CRITERIA

ENERGY STAR version 7.0 brings much more stringent U-Factor requirements than before. In the Northern climate zone, triple-pane glass is now the best solution for meeting stricter performance requirements. The table below shows you the U-Factor and SHGC of specific 400 Series products with triple-pane compared to dual-pane glass so you can identify the best solutions for your project.



| PRODUCT  | GLASS OPTIONS                                 | TRIPLE-PANE |      |                     | DUAL-PANE |      |
|--|---|-------------|------|---------------------|-----------|------|
|  |   | U-FACTOR    | SHGC | ENERGY STAR® v. 7.0 | U-FACTOR  | SHGC |
| 400 SERIES<br>TILT-WASH<br>DOUBLE-HUNG<br>FULL-FRAME<br>WINDOW –<br>NO GRILLES | Low-E4®                                       | 0.28        | 0.29 | ○ ○ ○ ○             | 0.30      | 0.31 |
|  | Low-E4 Enhanced                               | 0.25        | 0.28 | ○ ● ○ ○             | –         | –    |
|  | Low-E4 Enhanced with HeatLock® Technology     | 0.22        | 0.27 | ● ● ○ ○             | –         | –    |
|  | SmartSun™                                     | 0.28        | 0.19 | ○ ○ ● ●             | 0.30      | 0.21 |
|  | SmartSun Enhanced                             | 0.24        | 0.19 | ○ ● ● ●             | –         | –    |
|  | SmartSun Enhanced with HeatLock Technology    | 0.22        | 0.18 | ● ● ● ●             | –         | –    |
|  | PassiveSun® Enhanced with HeatLock Technology | 0.23        | 0.40 | ● ● ○ ○             | –         | –    |
| 400 SERIES<br>CASEMENT<br>WINDOW –<br>NO GRILLES                               | Low-E4  | 0.26        | 0.29 | ○ ○ ○ ○             | 0.29      | 0.32 |
|  | Low-E4 Enhanced                               | 0.22        | 0.29 | ● ● ○ ○             | –         | –    |
|  | Low-E4 Enhanced with HeatLock Technology      | 0.20        | 0.27 | ● ● ○ ○             | –         | –    |
|  | SmartSun                                      | 0.25        | 0.20 | ○ ● ● ●             | 0.28      | 0.21 |
|  | SmartSun Enhanced                             | 0.22        | 0.19 | ● ● ● ●             | –         | –    |
|  | SmartSun Enhanced with HeatLock Technology    | 0.20        | 0.18 | ● ● ● ●             | –         | –    |
|  | PassiveSun Enhanced with HeatLock Technology  | 0.20        | 0.40 | ● ● ○ ○             | –         | –    |
| 400 SERIES<br>COMPLEMENTARY<br>SPECIALTY<br>WINDOWS –<br>NO GRILLES            | Low-E4  | 0.25        | 0.32 | ○ ● ○ ○             | 0.28      | 0.37 |
|  | Low-E4 Enhanced                               | 0.20        | 0.31 | ● ● ○ ○             | –         | –    |
|  | Low-E4 Enhanced with HeatLock Technology      | 0.18        | 0.29 | ● ● ○ ○             | –         | –    |
|  | SmartSun                                      | 0.25        | 0.22 | ○ ● ● ●             | 0.27      | 0.22 |
|  | SmartSun Enhanced                             | 0.20        | 0.21 | ● ● ● ●             | –         | –    |
|  | SmartSun Enhanced with HeatLock Technology    | 0.18        | 0.20 | ● ● ● ●             | –         | –    |
|  | PassiveSun Enhanced with HeatLock Technology  | –           | –    | Coming Soon         | –         | –    |



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