

# NFRC 100/200 Test Results



## NFRC Test Results – NuAir Windows

|                          |                         | I.G. Config Type | Pane thickness<br>#1 | Spacer / Gap<br>Fill | Pane thickness<br>#2 | Grid Size | Total Product<br>U-Factor | Total Product<br>SHGC | Total Product VT |      |
|--------------------------|-------------------------|------------------|----------------------|----------------------|----------------------|-----------|---------------------------|-----------------------|------------------|------|
| Single Hung Window       | Series 900              | Clr / Clr        | 1/8"                 | 5/16" Air            | 1/8"                 | n/a       | 0.67                      | 0.64                  | 0.68             |      |
|                          |                         | Clr / Clr        | 1/8"                 | 5/16" Air            | 1/8"                 | <1"       | 0.68                      | 0.58                  | 0.61             |      |
|                          |                         | SB60 / Clr       | 1/8"                 | 5/16" Air            | 1/8"                 | n/a       | 0.54                      | 0.34                  | 0.61             |      |
|                          |                         | SB60 / Clr       | 1/8"                 | 5/16" Air            | 1/8"                 | <1"       | 0.56                      | 0.31                  | 0.54             |      |
|                          | Series 950              | Clr / Clr        | 1/8"                 | 5/16" Air            | 1/8"                 | n/a       | 0.67                      | 0.64                  | 0.68             |      |
|                          |                         | Clr / Clr        | 1/8"                 | 5/16" Air            | 1/8"                 | <1"       | 0.68                      | 0.58                  | 0.61             |      |
|                          |                         | SB60 / Clr       | 1/8"                 | 5/16" Air            | 1/8"                 | n/a       | 0.54                      | 0.34                  | 0.61             |      |
|                          |                         | SB60 / Clr       | 1/8"                 | 5/16" Air            | 1/8"                 | <1"       | 0.56                      | 0.31                  | 0.54             |      |
|                          | Series 975              | Clr / Clr        | 1/8"                 | 5/16" Air            | 1/8"                 | n/a       | 0.69                      | 0.64                  | 0.67             |      |
|                          |                         | Clr / Clr        | 1/8"                 | 5/16" Air            | 1/8"                 | <1"       | 0.70                      | 0.57                  | 0.60             |      |
|                          |                         | SB60 / Clr       | 1/8"                 | 5/16" Air            | 1/8"                 | n/a       | 0.56                      | 0.34                  | 0.60             |      |
|                          |                         | SB60 / Clr       | 1/8"                 | 5/16" Air            | 1/8"                 | <1"       | 0.58                      | 0.31                  | 0.53             |      |
|                          | Series 9000             | Clr / Clr Lami   | 1/8"                 | 3/16" Air            | 5/16" Lami           | n/a       | 0.76                      | 0.57                  | 0.61             |      |
|                          |                         | Clr / Clr Lami   | 1/8"                 | 3/16" Air            | 5/16" Lami           | <1"       | 0.79                      | 0.51                  | 0.54             |      |
|                          |                         | SB60 / Clr Lami  | 1/8"                 | 3/16" Air            | 5/16" Lami           | n/a       | 0.68                      | 0.32                  | 0.54             |      |
|                          |                         | SB60 / Clr Lami  | 1/8"                 | 3/16" Air            | 5/16" Lami           | <1"       | 0.72                      | 0.29                  | 0.48             |      |
| Horizontal Roller Window | Series 900              | Clr / Clr        | 1/8"                 | 3/16" Air            | 1/8"                 | n/a       | 0.69                      | 0.63                  | 0.66             |      |
|                          |                         | Clr / Clr        | 1/8"                 | 3/16" Air            | 1/8"                 | <1"       | 0.69                      | 0.57                  | 0.59             |      |
|                          |                         | SB60 / Clr       | 1/8"                 | 3/16" Air            | 1/8"                 | n/a       | 0.56                      | 0.34                  | 0.59             |      |
|                          |                         | SB60 / Clr       | 1/8"                 | 3/16" Air            | 1/8"                 | <1"       | 0.57                      | 0.31                  | 0.53             |      |
|                          | Series 975              | Clr / Clr        | 1/8"                 | 3/16" Air            | 1/8"                 | n/a       | 0.69                      | 0.63                  | 0.66             |      |
|                          |                         | Clr / Clr        | 1/8"                 | 3/16" Air            | 1/8"                 | <1"       | 0.70                      | 0.57                  | 0.59             |      |
|                          |                         | SB60 / Clr       | 1/8"                 | 3/16" Air            | 1/8"                 | n/a       | 0.55                      | 0.34                  | 0.60             |      |
|                          |                         | SB60 / Clr       | 1/8"                 | 3/16" Air            | 1/8"                 | <1"       | 0.56                      | 0.31                  | 0.53             |      |
|                          | Series 9000             | Clr / Clr Lami   | 1/8"                 | 3/16" Air            | 5/16" Lami           | n/a       | 0.76                      | 0.56                  | 0.60             |      |
|                          |                         | Clr / Clr Lami   | 1/8"                 | 3/16" Air            | 5/16" Lami           | <1"       | 0.79                      | 0.50                  | 0.53             |      |
|                          |                         | SB60 / Clr Lami  | 1/8"                 | 3/16" Air            | 5/16" Lami           | n/a       | 0.68                      | 0.32                  | 0.53             |      |
|                          |                         | SB60 / Clr Lami  | 1/8"                 | 3/16" Air            | 5/16" Lami           | <1"       | 0.72                      | 0.29                  | 0.47             |      |
|                          | Designer Picture Window | Series 900       | Clr / Clr            | 1/8"                 | 5/16" Air            | 1/8"      | n/a                       | 0.63                  | 0.70             | 0.74 |
|                          |                         |                  | Clr / Clr            | 1/8"                 | 5/16" Air            | 1/8"      | <1"                       | 0.64                  | 0.64             | 0.67 |
|                          |                         |                  | SB60 / Clr           | 1/8"                 | 5/16" Air            | 1/8"      | n/a                       | 0.48                  | 0.37             | 0.66 |
|                          |                         |                  | SB60 / Clr           | 1/8"                 | 5/16" Air            | 1/8"      | <1"                       | 0.50                  | 0.34             | 0.59 |
| Series 975               |                         | Clr / Clr        | 1/8"                 | 5/16" Air            | 1/8"                 | n/a       | 0.62                      | 0.68                  | 0.73             |      |
|                          |                         | Clr / Clr        | 1/8"                 | 5/16" Air            | 1/8"                 | <1"       | 0.63                      | 0.62                  | 0.66             |      |
|                          |                         | SB60 / Clr       | 1/8"                 | 5/16" Air            | 1/8"                 | n/a       | 0.48                      | 0.36                  | 0.65             |      |
|                          |                         | SB60 / Clr       | 1/8"                 | 5/16" Air            | 1/8"                 | <1"       | 0.50                      | 0.33                  | 0.58             |      |
| Series 9000              |                         | Clr / Clr Lami   | 1/8"                 | 5/16" Air            | 5/16" Lami           | n/a       | 0.65                      | 0.65                  | 0.72             |      |
|                          |                         | Clr / Clr Lami   | 1/8"                 | 5/16" Air            | 5/16" Lami           | <1"       | 0.68                      | 0.59                  | 0.64             |      |
|                          |                         | SB60 / Clr Lami  | 1/8"                 | 3/16" Air            | 5/16" Lami           | n/a       | 0.55                      | 0.36                  | 0.63             |      |
|                          |                         | SB60 / Clr Lami  | 1/8"                 | 3/16" Air            | 5/16" Lami           | <1"       | 0.60                      | 0.33                  | 0.57             |      |

## NFRC Test Results – NuAir Sliding Glass Doors

|                            |                    | I.G. Config Type | Pane thickness<br>#1 | Spacer / Gap<br>Fill | Pane thickness<br>#2 | Grid Size | Total Product<br>U-Factor | Total Product<br>SHGC | Total Product VT |
|----------------------------|--------------------|------------------|----------------------|----------------------|----------------------|-----------|---------------------------|-----------------------|------------------|
| <b>Sliding Glass Doors</b> | <b>Series 200</b>  | Clr / Clr        | 3/16"                | 1/4" Air             | 3/16"                | n/a       | 0.71                      | 0.62                  | 0.68             |
|                            |                    | Clr / Clr        | 3/16"                | 1/4" Air             | 3/16"                | <1"       | 0.74                      | 0.55                  | 0.6              |
|                            |                    | SB60 / Clr       | 3/16"                | 1/4" Air             | 3/16"                | n/a       | 0.61                      | 0.35                  | 0.61             |
|                            |                    | SB60 / Clr       | 3/16"                | 1/4" Air             | 3/16"                | <1"       | 0.65                      | 0.31                  | 0.53             |
|                            | <b>Series 500</b>  | Clr / Clr        | 3/16"                | 1/4" Air             | 3/16"                | n/a       | 0.73                      | 0.59                  | 0.64             |
|                            |                    | Clr / Clr        | 3/16"                | 1/4" Air             | 3/16"                | <1"       | 0.76                      | 0.52                  | 0.56             |
|                            |                    | SB60 / Clr       | 3/16"                | 1/4" Air             | 3/16"                | n/a       | 0.63                      | 0.33                  | 0.57             |
|                            |                    | SB60 / Clr       | 3/16"                | 1/4" Air             | 3/16"                | <1"       | 0.67                      | 0.29                  | 0.5              |
|                            | <b>Series 975</b>  | Clr / Clr        | 3/16"                | 1/4" Air             | 3/16"                | n/a       | 0.71                      | 0.62                  | 0.68             |
|                            |                    | Clr / Clr        | 3/16"                | 1/4" Air             | 3/16"                | <1"       | 0.74                      | 0.55                  | 0.60             |
|                            |                    | SB60 / Clr       | 3/16"                | 1/4" Air             | 3/16"                | n/a       | 0.61                      | 0.35                  | 0.61             |
|                            |                    | SB60 / Clr       | 3/16"                | 1/4" Air             | 3/16"                | <1"       | 0.65                      | 0.31                  | 0.53             |
|                            | <b>Series 9000</b> | Clr / Clr Lami   | 3/16"                | 1/4" Air             | 7/16" Lami           | n/a       | 0.69                      | 0.55                  | 0.62             |
|                            |                    | Clr / Clr Lami   | 3/16"                | 1/4" Air             | 7/16" Lami           | <1"       | 0.7                       | 0.49                  | 0.54             |
|                            |                    | SB60 / Clr Lami  | 3/16"                | 1/4" Air             | 7/16" Lami           | n/a       | 0.57                      | 0.31                  | 0.55             |
|                            |                    | SB60 / Clr Lami  | 3/16"                | 1/4" Air             | 7/16" Lami           | <1"       | 0.58                      | 0.28                  | 0.48             |

Products tested to NFRC 100/200 in accordance with the 2004 Florida Building Code Chapter 13 Section 104.4.5  
Simulation reports available on request.

Requirements for fenestration products (windows and other glazed products) have been in the building codes for many years. Typically these requirements had more to do with structural performance and safety glazing than with energy. However, since the 1970's, energy code requirements have been established for windows in both residential and commercial construction. NFRC's sole mission is to establish a fair, accurate, and credible rating system for fenestration products and to coordinate certification and labeling activities to ensure their uniform application. NFRC's rating procedure is designed to meet the requirement of the Energy Policy Act of 1992 and certain federal government program requirements (DOE, FTC).

