

**8351 Casement Air, Water, Structural Performance**  
(per AAMA/WDMA/CSA 101/I.S.2/A440-05)

Rating (DP) <sub>1</sub>	Max. Structural Pressure	Water Infiltration <sub>2</sub>	Air Infiltration <sub>3</sub>	Size Tested
C50	75.00	7.50	0.08	36 x 72
C65	97.80	12.00	0.01	36 x 60
Impact Model Rating - DP50, Large Missile Impact, Wind Zone 4, 35.5" x 65.5" TTT				

<sub>1</sub> Structural Test Pressure (psf) tested to at least 150% of DP rating

<sub>2</sub> Water Infiltration (psf) tested to at least 15% of DP rating

<sub>3</sub> Air infiltration units = scfm/ft<sup>2</sup>

EnergyStar Qualification			
Northern	N. Central	S. Central	Southern
Blue	Yellow	Yellow	Red
Blue	Yellow	Yellow	Red
Blue	Yellow	Yellow	Red

**8351 Casement Thermal Performance**

per NFRC 100 & 200 (values in parentheses have grids)

Glass Type	Unit u-value	u-value FF <sub>7</sub>	Unit SHGC <sub>5</sub>	Unit VLT <sub>6</sub>
Clear insulating glass (clear/clear)				
Clear	0.42	0.40	0.54 (0.49)	0.55 (0.50)
Clear/Impact <sub>11</sub>	0.44 (0.45)	NA	0.45 (0.41)	0.53 (0.48)
Low E insulating glass (RLE 63/31 <sub>12</sub> low e/clear, surface #2)				
RLE 63/31	0.30	0.28	0.22 (0.20)	0.47 (0.42)
RLE 63/31/Argon	0.27	0.25	0.22 (0.20)	0.47 (0.42)
RLE 63/31/Argon/Impact <sub>11</sub>	0.28	NA	0.21 (0.20)	0.41 (0.37)

Blue	Yellow	Yellow	Red
Blue	Yellow	Yellow	Red
Blue	Yellow	Yellow	Red

**Additional Performance Glass Options**

Low E insulating glass (RLE 71/38 <sub>12</sub> low e/clear, surface #2)				
RLE 71/38	0.31	0.28	0.27 (0.24)	0.48 (0.43)
RLE 71/38/Argon	0.27	0.25	0.27 (0.24)	0.48 (0.43)
Reversed Low E insulating glass (clear/RLE 71/38 low e, surface #3) <sub>9</sub>				
RLE 71/38	0.31	0.29	0.33 (0.30)	0.48 (0.43)
RLE 71/38 /Argon	0.27	0.25	0.33 (0.30)	0.48 (0.43)
Triple insulating glass (71/38 low e/clear/71/38 low e, surface #2,#5)				
RLE 71/38/CLR/RLE 71/38/Argon <sub>8</sub>	0.25	0.23	0.25 (0.23)	0.43 (0.39)
RLE 71/38/CLR/RLE 71/38/Blend <sub>8,10</sub>	0.22	0.20	0.25 (0.23)	0.43 (0.39)
RLE 71/38/CLR/RLE 71/38/Krypton <sub>8</sub>	0.20	0.18	0.25 (0.23)	0.41 (0.37)

F	Blue	Yellow	Yellow	Red
F	Blue	Yellow	Yellow	Red

F	Blue	Yellow	Yellow	Red
F	Blue	Yellow	Yellow	Red

Blue	Yellow	Yellow	Red
Blue	Yellow	Yellow	Red
Blue	Yellow	Yellow	Red

<sub>5</sub> Solar Heat Gain Coefficient (with grids)      <sub>6</sub> Visible Light Transmission (with grids)

<sub>7</sub> Optional Foam Insulation. **F** indicates EnergyStar qualification with foam insulation option.

<sub>8</sub> Subject to glass size limitations

<sub>9</sub> Low E coating on surface #3 to increase SHGC

<sub>10</sub> Blend for triple IG is Krypton in one airspace, Argon in the other.

<sub>11</sub> Laminated glass used in Paradigm Impact windows meets the requirements of ASTM C 1172

<sub>12</sub> 71/38 Low E is regular residential SHGC glass. 63/31 Low E is low SHGC glass.

**8351 Casement Acoustic Performance<sub>13</sub>**

(per ASTM E 90-99)

Glass Configuration	STC Value
Clear SS-Clear SS	30
Clear SS-1/4" Lami	38

<sub>13</sub> Using Awning Test Data

Note: Some listed options may require special pricing and have extended lead times