

**8321 Premium Double Hung 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 <sub>4</sub>	75.00	7.50	0.07	52 X 72
R40	90.00	6.00	0.05	44 X 60
R40	60.00	6.00	0.05	80 X 80 twin
C35 <sub>4</sub>	52.50	5.25	0.07	56 X 91
<b>Impact Model Rating - DP50, Large Missile Impact, Wind Zone 4, 52" x 72" TTT</b>				

<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>

<sub>4</sub> Requires optional "EP" upgrade

**8321 Premium Double Hung 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	0.45	0.43	0.60 (0.53)	0.62 (0.55)
Clear/Impact <sub>11</sub>	0.47	NA	0.50 (0.44)	0.59 (0.53)

Stock Low E insulating glass (RLE 63/31 <sub>12</sub> low e/clear, surface #2)				
RLE 6331	0.32	0.30	0.24 (0.21)	0.47 (0.42)
RLE 6331/Argon	0.28	0.26	0.24 (0.21)	0.47 (0.42)
RLE 6331/Argon/Impact <sub>11</sub>	0.29 (0.30)	NA	0.24 (0.21)	0.46 (0.41)

**Additional Performance Glass Options**

Low E insulating glass (RLE 71/38 <sub>12</sub> low e/clear, surface #2)				
RLE 7138	0.32	0.30	0.29 (0.26)	0.53 (0.47)
RLE 7138/Argon	0.28	0.26	0.29 (0.26)	0.53 (0.47)

Reversed Low E insulating glass (clear/RLE 71/38 low e, surface #3) <sub>9</sub>				
RLE 71/38	0.32	0.30	0.36 (0.33)	0.53 (0.47)
RLE 71/38 /Argon	0.28	0.26	0.36 (0.33)	0.53 (0.47)

Triple insulating glass (71/38 low e/clear/71/38 low e, surface #2,#5)				
RLE 7138/CLR/RLE 7138/Argon <sub>8</sub>	0.25	0.23	0.25 (0.23)	0.42 (0.37)
RLE 7138/CLR/RLE 7138/Blend <sub>8,10</sub>	0.22	0.20	0.25 (0.23)	0.42 (0.37)
RLE 7138/CLR/RLE 7138/Krypton <sub>8</sub>	0.20	0.18	0.25 (0.23)	0.42 (0.37)

<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> 63/31 Low E glass has a lower SHGC than 71/38.

EnergyStar Qualification			
Northern	N. Central	S. Central	Southern

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**8321 Premium Double Hung Acoustic Performance**  
(per ASTM E 90-99)

Glass Configuration	STC Value
Clear SS-Clear SS	29
Clear SS-1/4" Lami	33

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