





8331 Hopper Air, Water, Structural Performance
(per AAMA/WDMA/CSA 101/I.S.2/A440-05)

Rating (DP) ₁	Max. Structural Pressure	Water Infiltration ₂	Air Infiltration ₃	Size Tested
R40	90.00	6.00	0.01	48 x 16

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

₂ Water Infiltration (psf) tested to at least 15% of DP rating

₃ Air infiltration units = scfm/ft²

EnergyStar Qualification			
Northern	N. Central	S. Central	Southern
			

8331 Hopper Thermal Performance

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

Glass Type	Unit u-value	Unit SHGC ₅	Unit VLT ₆
<i>Clear insulating glass (clear/clear)</i>			
Clear	0.41	0.55 (0.50)	0.56 (0.51)

<i>Low E insulating glass (RLE 63/31₁₀ low e/clear, surface #2)</i>			
RLE 63/31	0.28	0.22 (0.20)	0.44 (0.39)
RLE 63/31/Argon	0.25	0.22 (0.20)	0.44 (0.39)

Additional Performance Glass Options

<i>Low E insulating glass (RLE 71/38₁₀ low e/clear, surface #2)</i>			
RLE 7138	0.28	0.30 (0.27)	0.48 (0.44)
RLE 7138/Argon	0.25	0.30 (0.27)	0.48 (0.44)

<i>Reversed Low E insulating glass (clear/RLE 71/38 low e, surface #3)₈</i>			
RLE 71/38	0.28	0.33 (0.30)	0.48 (0.44)
RLE 71/38/Argon	0.25	0.33 (0.30)	0.48 (0.44)

<i>Triple insulating glass (71/38 low e/clear/71/38 low e, surface #2,#5)</i>			
RLE 71/38/CLR/RLE 71/38/Argon ₇	0.24	0.23 (0.21)	0.38 (0.34)
RLE 71/38/CLR/RLE 71/38/Blend _{7,9}	0.22	0.23 (0.21)	0.38 (0.34)
RLE 71/38/CLR/RLE 71/38/Krypton ₇	0.18	0.23 (0.21)	0.38 (0.34)

₅ Solar Heat Gain Coefficient





































₆ Visible Light Transmission

₇ Subject to glass size limitations

₈ Low E coating on surface #3 to increase SHGC

₉ Blend for triple IG is Krypton in one airspace, Argon in the other.

₁₀ 71/38 Low E is regular residential SHGC glass. 63/31 Low E is low SHGC glass.

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