

# NFRC/WERS Certified Product Directory

## Product: 451 Series Fixed Window – Double Glazing

Glazing Type	Cooling Stars	Heating Stars	Uw	SHGCw
6 Clear/12 air/6 Clear IGU	★★	★★★★☆	3.7	0.61
6 Green/12 air/6 Clear IGU	★★★★☆	★★★★☆	3.7	0.43
6 Grey/12 air/6 Clear IGU	★★★★☆	★★★★☆	3.7	0.39
6 Bronze/12 air/6 Clear IGU	★★★★☆	★★★★☆	3.7	0.43
6 Panasap Dark Blue/12 air/6 Clear IGU	★★★★☆	★★★★☆	3.7	0.41
6 Evergreen/12 air/6 Clear IGU	★★★★★	★★★★☆	3.7	0.35
6 Azuria/12 air/6 Clear IGU	★★★★★	★★★★☆	3.7	0.34
6 Energy Advantage Low E (S2)/12 air/6 Clear IGU	★★★	★★★★☆	3.2	0.54
6 Clear/12 air/6 Energy Advantage Low E (S3) IGU	★★★	★★★★☆	3.2	0.57
6 Green/12 air/6 Energy Advantage Low E (S3) IGU	★★★★★	★★★★★	3.2	0.39
6 Grey/12 air/6 Energy Advantage Low E (S3) IGU	★★★★★	★★★★☆	3.2	0.35
6 Bronze/12 air/6 Energy Advantage Low E (S3) IGU	★★★★★	★★★★★	3.2	0.39
6 Panasap Dark Blue/12 air/6 Energy Advantage Low E (S3) IGU	★★★★★	★★★★★	3.2	0.36
6 Evergreen/12 air/6 Energy Advantage Low E (S3) IGU	★★★★★☆☆	★★★★☆	3.2	0.31
6 Azuria/12 air/6 Energy Advantage Low E (S3) IGU	★★★★★☆☆	★★★★☆	3.2	0.30
6 Solarplus LE80i Low E on Clear (S2)/12 air/6 Clear IGU	★★★★☆	★★★★☆	3.1	0.45
6 Solarplus LE80i Low E on Green (S2)/12 air/6 Clear IGU	★★★★★☆☆	★★★★☆	3.1	0.33
6 Solarplus LE80i Low E on Grey (S2)/12 air/6 Clear IGU	★★★★★☆☆	★★★★☆	3.1	0.28
6 Solarplus LE80i Low E on Bronze (S2)/12 air/6 Clear IGU	★★★★★☆☆	★★★★☆	3.1	0.33
6 Solarplus LE80i Low E on Panasap Dark Blue (S2)/12 air/6 Clear IGU	★★★★★☆☆	★★★★☆	3.1	0.30
6 Solarplus LE80i Low E on Evergreen (S2)/12 air/6 Clear IGU	★★★★★☆☆	★★★★☆	3.1	0.27
6 Solarplus LE80i Low E on Azuria (S2)/12 air/6 Clear IGU	★★★★★☆☆	★★★★☆	3.1	0.27
6 Solarplus LE60i Low E on Clear (S2)/12 air/6 Clear IGU	★★★★★	★★★★★	3.1	0.35
6 Solarplus LE60i Low E on Green (S2)/12 air/6 Clear IGU	★★★★★☆☆	★★★★☆	3.1	0.33
6 Solarplus LE60i Low E on Grey (S2)/12 air/6 Clear IGU	★★★★★	★★★★	3.1	0.23
6 Solarplus LE60i Low E on Bronze (S2)/12 air/6 Clear IGU	★★★★★	★★★★☆	3.1	0.27
6 Solarplus LE60i Low E on Panasap Dark Blue (S2)/12 air/6 Clear IGU	★★★★★	★★★★☆	3.1	0.25
6 Solarplus LE60i Low E on Evergreen (S2)/12 air/6 Clear IGU	★★★★★	★★★★	3.1	0.23
6 Solarplus LE60i Low E on Azuria (S2)/12 air/6 Clear IGU	★★★★★	★★★★	3.1	0.23
6 Solarplus LE54i Low E on Clear (S2)/12 air/6 Clear IGU	★★★★★☆☆	★★★★☆	3.1	0.32
6 Solarplus LE54i Low E on Green (S2)/12 air/6 Clear IGU	★★★★★	★★★★☆	3.1	0.25
6 Solarplus LE54i Low E on Grey (S2)/12 air/6 Clear IGU	★★★★★	★★★★	3.1	0.22
6 Solarplus LE54i Low E on Bronze (S2)/12 air/6 Clear IGU	★★★★★	★★★★☆	3.1	0.25
6 Solarplus LE54i Low E on Panasap Dark Blue (S2)/12 air/6 Clear IGU	★★★★★	★★★★	3.1	0.24
6 Solarplus LE54i Low E on Evergreen (S2)/12 air/6 Clear IGU	★★★★★	★★★★	3.1	0.22
6 Solarplus LE54i Low E on Azuria (S2)/12 air/6 Clear IGU	★★★★★	★★★★	3.1	0.22

**NOTES**

1. Uw is the whole window *U-value*
2. SHGCw is the whole window *solar heat gain coefficient*
3. Static performance (Uw SHGCw) calculated using Window 5.2 and Therm 5.2 software (LBNL), 2000-2003
4. Annual energy performance stars calculated using Nationwide House Energy Rating Software (AccuRate) according to procedures of WERS 2008.
5. Results disclosed at National Fenestration Rating Council (NFRC) regulations.

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Product: 451 Series Fixed Window – Double Glazing (cont.)

Glazing Type	Cooling Stars	Heating Stars	Uw	SHGCw
6 Solarplus DLE70 Low E on Clear (S2)/12 air/6 Clear IGU	★★★★☆	★★★☆☆	3.0	0.31
6 Solarplus DLE70 Low E on Green (S2)/12 air/6 Clear IGU	★★★★★	★★★☆☆	3.0	0.26
6 Solarplus DLE70 Low E on Grey (S2)/12 air/6 Clear IGU	★★★★★	★★★☆☆	3.0	0.21
6 Solarplus DLE70 Low E on Bronze (S2)/12 air/6 Clear IGU	★★★★★	★★★☆☆	3.0	0.23
6 Solarplus DLE70 Low E on Panasap Dark Blue (S2)/12 air/6 Clear IGU	★★★★★	★★★☆☆	3.0	0.23
6 Solarplus DLE70 Low E on Evergreen (S2)/12 air/6 Clear IGU	★★★★★	★★★☆☆	3.0	0.23
6 Solarplus DLE70 Low E on Azuria (S2)/12 air/6 Clear IGU	★★★★★	★★★☆☆	3.0	0.23
6 Solarplus DLE55 Low E on Clear (S2)/12 air/6 Clear IGU	★★★★☆	★★★☆☆	3.0	0.27
6 Solarplus DLE55 Low E on Green (S2)/12 air/6 Clear IGU	★★★★★	★★★☆☆	3.0	0.23
6 Solarplus DLE55 Low E on Grey (S2)/12 air/6 Clear IGU	★★★★★☆☆	★★★☆☆	3.0	0.19
6 Solarplus DLE55 Low E on Bronze (S2)/12 air/6 Clear IGU	★★★★★☆☆	★★★☆☆	3.0	0.20
6 Solarplus DLE55 Low E on Panasap Dark Blue (S2)/12 air/6 Clear IGU	★★★★★	★★★☆☆	3.0	0.22
6 Solarplus DLE55 Low E on Arctic Blue (S2)/12 air/6 Clear IGU	★★★★★☆☆	★★★☆☆	3.0	0.19
6 Solarplus DLE55 Low E on Evergreen (S2)/12 air/6 Clear IGU	★★★★★☆☆	★★★☆☆	3.0	0.20
6 Solarplus DLE55 Low E on Azuria (S2)/12 air/6 Clear IGU	★★★★★	★★★☆☆	3.0	0.21
6 Solarplus DLE55 Low E on Caribia (S2)/12 air/6 Clear IGU	★★★★★☆☆	★★★☆☆	3.0	0.20

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