

Validation of WINDOW 6 and THERM 6 for Use in Determining the Solar Heat Gain Coefficients and U-Factors of Complex Glazing Systems Research Project

NFRC Project Number: 07-101-RP

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Errors in Final Report

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Errors in Final Report

- The following 4 slides contain errors presented in the original NFRC Webinar conducted on July 6, 2011, 1:00 – 3:00 p.m. EDT.
- The errors have been identified in *red italic font*.
- Other than the modification of the font format, these slides contain the original values presented.
- The corrected values are in updated presentations currently available to the NFRC Membership.

Criteria for Recommendation

- U-Factor (NFRC 100)
 - Within ± 0.3 if U-Factor is ≤ 0.3
 - Within 10% if U-Factor is > 0.3
- SHGC (PMTG)
 - Within ± 0.4 if *U-Factor* is ≤ 0.4
 - Within 15% if *U-Factor* is > 0.4

Recommendation: U-Factor Between Glazing Venetian Blinds

Test Specimen	NFRC 102	ISO 15099	% Diff.	Diff.
	Test	Simulation		
Tpl Low-E + Low α Venetian (Closed)	0.25	0.260	1.04%	0.003
Tpl Low-E + Low α Venetian (45°)	0.26	0.275	3.85%	0.010
Tpl Low-E + Low α Venetian (Open)	0.27	0.279	1.50%	0.004
Dbl Clr + High α Venetian (Open)	0.42	0.457	5.11%	0.021
Dbl Clr + High α Venetian (Retract)	0.46	0.501	4.08%	0.019
Minimum	0.25	0.260	1.04%	0.003
Maximum	0.46	0.501	5.11%	0.021
Average	0.33	0.354	3.12%	0.011
Standard Deviation	0.099	0.1152	1.76%	0.0084

Recommendation: U-Factor Outdoor Woven Shades

	NFRC 102	ISO 15099		
Test Specimen	Test	Simulation	% Diff.	Diff.
Dbl Clr + Low α Screen	0.38	0.393	-0.82%	-0.003
Dbl Low-E + High α Screen	0.26	0.242	-6.08%	-0.016
Minimum	0.26	0.242	-6.08%	-0.016
Maximum	0.38	0.393	-0.82%	-0.003
Average	0.32	0.317	-3.45%	-0.009
Standard Deviation	0.089	0.1069	3.72%	0.0088

Comparison of U-Factor Between Glazing Woven Shades

Test Specimen	NFRC 102	ISO 15099	% Diff.	Diff.
	Test	Simulation		
Dbl Clr + Low α Screen	0.38	0.440	11.01%	0.042
Tpl Low-E + High α Screen	0.26	0.276	4.84%	0.013
Minimum	0.26	0.276	4.84%	0.013
Maximum	0.38	0.440	11.01%	0.042
Average	0.32	0.358	7.93%	0.027
Standard Deviation	0.086	0.1160	4.36%	0.0208