



Quality Accuracy Assurance

Fenestration Testing Laboratory, Inc.

8148 N.W. 74th Avenue Medley, FL 33166 Phone: (305) 885-3328 Fax: (305) 885-3329 (888) 819-7877
e-mail: clientservices@ftl-inc.com www.ftl-inc.com

Report Date: 1/15/2022
Simulation Date: 1/15/2022
Expiration Date: 1/15/2027
Report Number: 12912
Project Number: 21-1260
Revision Number: 0

Thermal Simulation Report

Manufacture: Matthews Millwork

Address: 1105 Jim Circle
Monroe, North Carolina 28110

Specifications: ANSI/NFRC 100-2017: Procedure for Determining Fenestration Product U-Factor
ANSI/NFRC 200-2017: Procedure for Determining Fenestration Product Solar Heat Gain Coefficients and Visible Transmittance at Normal Incidence.
NFRC 500-2017: Procedure for Determining Fenestration Product Condensation Resistance Values

Software: Therm 7.7.7.10, Simulation Manual
Spectral Data Library: N/A

Baseline Product Validation

The baseline product must be tested in accordance with NFRC 102 "Test Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems" to validate the U Values indicated. NFRC 100-2017 states "The baseline product is the individual product selected for validation testing". The individual product selected as the baseline product shall have a simulated U-factor within 0.10 Btu/h·ft²·F or 20% of the lowest simulated U-factor, whichever is greater.

Product Description	Product ID Number	Door Description	Door Sub-Structure	Panel	U Factor	R Value
Embossed door	01	EM	WD	N	0.09	11

Door Test Size: N/A



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Model Designation:	TB-PLUS10 Door
Operator Code:	EDSL
Simulated Model Size:	960 mm (37 3/4") by 2090 mm (82 3/8") high

Frame and Panel Construction	
Frame Material and Finish:	(WD) Wood profiles
Panel Material and Finish:	(OT) Medium density fiberboard and 1.5" polyisocyanurate insulation

Weather Stripping		
Quantity	Description	Location
Single row	Q-lon	Perimeter of frame on the interior

Hardware		
Quantity	Description	Location
None	None	None

Only continuous elements which require modeling are listed

Reinforcement	
Material	Location
None	None

Modeling Assumptions: None



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Simulated Data

Product Description	Product ID Number	Door Description	Door Sub-Structure	Panel	U Factor	R Value
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Remarks
<p>“Rating values included in this report are for submittals to an NFRC licensed IA and are not meant to be used directly for labeling purposes. Only those values identified on a valid Certification Authorization Report (CAR) by an NFRC accredited inspection agency (IA) are to be used for labeling purposes.”</p> <p>“The values included in this report are not considered in compliance with NFRC 100, NFRC 200, and/or NFRC 500 unless the associated validation test requirements have been satisfied, as applicable.”</p> <p>“The Condensation Resistance results obtained from this procedure are for controlled laboratory conditions and do not include the effects of air movement through the specimen, solar radiation, and the thermal bridging that may occur due to the specific design and construction of the fenestration system opening.”</p> <p>Simulations were conducted in full compliance with NFRC requirements. Simulation relates only to the simulated Fenestration product.</p> <p>Rounding is per requirements of NFRC 601, NFRC Unit and Measurement Policy.</p> <p>U factors, Solar Heat Gain Coefficients, Visible Transmittance and Condensation Resistance values are calculated with a default frame absorption of 0.30 for all products other than glazed walls and slope glazing which have a frame absorption of 0.50.</p> <p>Drawings referenced in this document are an integral part of this report, therefore, are required when distributing this test report. Simulation results obtained represent the actual value of the simulated specimen and does not constitute opinion, endorsement or certification by this laboratory.</p> <p>This test report is considered the exclusive property of the client named herein and is applicable to the specimen simulated. This report may not be reproduced without the approval of Fenestration Testing Laboratory, Inc and if so must be in full.</p>

Revision History Table			
Revision	Description	Author	Effective Date
0	Initial Release	Jose Sanchez	1/15/2022

Simulation Conducted by
Monika Sanchez
NFRC Certified Simulator

Jose Sanchez
Simulator- in- Responsible- Charge



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Appendix

Fenestration Simulated Product Drawings and Bill of Material

