

NFRC Product Line Summary (2020 Std)

Simulation Report # FLE23001-SS

Manufacturer: Fleetwood Windows & Doors

Product Line ID: FLE-M-76

Simulation Orig Report Date: 3/29/2023

Series/Model: 330-T Fixed

Model Size: 1200mm x 1500mm

Simulation Revision Date: 3/29/2023

Operator Type: Fixed (Picture Windows)

Frame Abs.: 0.3

Report Type: Recertification

Frame Type: Aluminum w/Thermal Breaks (AT)

Simulation Lab Code: SWWW

Sash Type: Not Applicable (NA)

Note: Options without numbers are grouped with the option(s) above

Option	Description/Code	Glass Thicknesses	Gap Width(s)	Gas	Emissivity(sfc)	Spacer/Seal	Divider	U-Factor	CR	Tint	No Dividers		Dividers < 1"		Dividers > 1"	
											SHGC	VT	SHGC	VT	SHGC	VT
187	CIG366/Arg 5mm SS-D	0.197, 0.197	0.632	ARG	0.020(2)	SS-D	N,G	0.32	44	CL	0.24	0.55	0.22	0.50	0.20	0.44
188	CIG366/Arg 6mm SS-D	0.236, 0.236	0.522	ARG	0.020(2)	SS-D	N,G	0.31	44	CL	0.24	0.55	0.22	0.49	0.20	0.44
189	CIG366-i89/Arg 5mm SS-D	0.197, 0.197	0.632	ARG	0.020(2) 0.149(4)	SS-D	N,G	0.28	43	CL	0.23	0.54	0.21	0.49	0.19	0.43
190	CIG366-i89/Arg 6mm SS-D	0.236, 0.236	0.522	ARG	0.020(2) 0.149(4)	SS-D	N,G	0.27	43	CL	0.23	0.53	0.21	0.48	0.19	0.43
191	CIG272/Arg 5mm SS-D	0.197, 0.197	0.632	ARG	0.042(2)	SS-D	N,G	0.33	44	CL	0.36	0.62	0.32	0.55	0.29	0.49
192	CIG272/Arg 6mm SS-D	0.236, 0.236	0.522	ARG	0.042(2)	SS-D	N,G	0.32	44	CL	0.35	0.61	0.32	0.54	0.29	0.49
193	CIG272-i89/Arg 5mm SS-D	0.197, 0.197	0.632	ARG	0.042(2) 0.149(4)	SS-D	N,G	0.28	43	CL	0.35	0.60	0.32	0.54	0.28	0.48
194	CIG272-i89/Arg 6mm SS-D	0.236, 0.236	0.522	ARG	0.042(2) 0.149(4)	SS-D	N,G	0.28	43	CL	0.34	0.59	0.31	0.53	0.28	0.47
195	CIG180/Arg 5mm SS-D	0.197, 0.197	0.632	ARG	0.068(2)	SS-D	N,G	0.34	44	CL	0.54	0.68	0.49	0.61	0.44	0.54
196	CIG180/Arg 6mm SS-D	0.236, 0.236	0.522	ARG	0.068(2)	SS-D	N,G	0.33	44	CL	0.53	0.67	0.48	0.60	0.43	0.53
197	CIG180-i89/Arg 5mm SS-D	0.197, 0.197	0.632	ARG	0.068(2) 0.149(4)	SS-D	N,G	0.29	43	CL	0.52	0.66	0.47	0.59	0.43	0.53
198	CIG180-i89/Arg 6mm SS-D	0.236, 0.236	0.522	ARG	0.068(2) 0.149(4)	SS-D	N,G	0.28	43	CL	0.51	0.65	0.46	0.59	0.41	0.52
199	Clear/Air 5mm A1-D	0.197, 0.197	0.621	AIR		A1-D	N,G	0.53	35	CL	0.63	0.70	0.57	0.62	0.51	0.56
200	Clear/Air 6mm A1-D	0.236, 0.236	0.542	AIR		A1-D	N,G	0.53	36	CL	0.62	0.69	0.56	0.62	0.50	0.55
201	SN68/Air 5mm A1-D	0.197, 0.197	0.621	AIR	0.039(2)	A1-D	N,G	0.39	37	CL	0.33	0.59	0.30	0.53	0.27	0.47
	sBZ-SN68/Air 5mm A1-D	0.197, 0.197	0.621	AIR	0.039(3)	A1-D	N,G	0.39	37	BZ	0.30	0.39	0.27	0.35	0.24	0.31
202	SN68/Air 6mm A1-D	0.236, 0.236	0.542	AIR	0.039(2)	A1-D	N,G	0.38	37	CL	0.33	0.59	0.30	0.53	0.27	0.47
	sBZ-SN68/Air 6mm A1-D	0.236, 0.236	0.542	AIR	0.039(3)	A1-D	N,G	0.38	37	BZ	0.28	0.35	0.25	0.31	0.23	0.28
203	SN68/Arg 5mm A1-D	0.197, 0.197	0.621	ARG	0.039(2)	A1-D	N,G	0.35	37	CL	0.33	0.59	0.30	0.53	0.27	0.47
204	SN68/Arg 6mm A1-D	0.236, 0.236	0.542	ARG	0.039(2)	A1-D	N,G	0.34	38	CL	0.33	0.59	0.30	0.53	0.27	0.47
205	SNX62/Air 5mm A1-D	0.197, 0.197	0.621	AIR	0.020(2)	A1-D	N,G	0.38	37	CL	0.23	0.54	0.21	0.48	0.19	0.43
206	SNX62/Air 6mm A1-D	0.236, 0.236	0.542	AIR	0.020(2)	A1-D	N,G	0.38	37	CL	0.23	0.53	0.21	0.48	0.19	0.43
207	SNX62/Arg 5mm A1-D	0.197, 0.197	0.621	ARG	0.020(2)	A1-D	N,G	0.34	37	CL	0.23	0.54	0.21	0.48	0.19	0.43
208	SNX62/Arg 6mm A1-D	0.236, 0.236	0.542	ARG	0.020(2)	A1-D	N,G	0.34	38	CL	0.23	0.53	0.21	0.48	0.19	0.43

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. (NFRC 500)

NFRC Product Line Summary (2020 Std)

Simulation Report # FLE23001-SS

Manufacturer: Fleetwood Windows & Doors

Product Line ID: FLE-M-76

Simulation Orig Report Date: 3/29/2023

Series/Model: 330-T Fixed

Model Size: 1200mm x 1500mm

Simulation Revision Date: 3/29/2023

Operator Type: Fixed (Picture Windows)

Frame Abs.: 0.3

Report Type: Recertification

Frame Type: Aluminum w/Thermal Breaks (AT)

Simulation Lab Code: SWWW

Sash Type: Not Applicable (NA)

Note: Options without numbers are grouped with the option(s) above

Option	Description/Code	Glass Thicknesses	Gap Width(s)	Gas	Emissivity(sfc)	Spacer/Seal	Divider	U-Factor	CR	Tint	No Dividers		Dividers < 1"		Dividers > 1"	
											SHGC	VT	SHGC	VT	SHGC	VT
209	SN68/Arg 5mm ZF-S	0.197, 0.197	0.625	ARG	0.039(2)	ZF-S	N,G	0.32	45	CL	0.33	0.59	0.30	0.53	0.27	0.47
210	SN68/Arg 6mm ZF-S	0.236, 0.236	0.538	ARG	0.039(2)	ZF-S	N,G	0.32	45	CL	0.33	0.59	0.30	0.53	0.27	0.47
211	SN68-IS20/Arg 5mm ZF-S	0.197, 0.197	0.625	ARG	0.039(2) 0.198(4)	ZF-S	N,G	0.28	44	CL	0.32	0.58	0.29	0.52	0.26	0.46
212	SN68-IS20/Arg 6mm ZF-S	0.236, 0.236	0.538	ARG	0.039(2) 0.198(4)	ZF-S	N,G	0.28	44	CL	0.32	0.57	0.29	0.51	0.26	0.46
213	SNX62/Arg 5mm ZF-S	0.197, 0.197	0.625	ARG	0.020(2)	ZF-S	N,G	0.32	45	CL	0.23	0.54	0.21	0.48	0.19	0.43
214	SNX62/Arg 6mm ZF-S	0.236, 0.236	0.538	ARG	0.020(2)	ZF-S	N,G	0.31	45	CL	0.23	0.53	0.21	0.48	0.19	0.43
215	SNX62-IS20/Arg 5mm ZF-S	0.197, 0.197	0.625	ARG	0.020(2) 0.198(4)	ZF-S	N,G	0.28	45	CL	0.22	0.52	0.20	0.47	0.19	0.42
216	SNX62-IS20/Arg 6mm ZF-S	0.236, 0.236	0.538	ARG	0.020(2) 0.198(4)	ZF-S	N,G	0.27	44	CL	0.22	0.52	0.20	0.47	0.19	0.42
217	SN68/Arg 5mm TS-D	0.197, 0.197	0.621	ARG	0.039(2)	TS-D	N,G	0.33	43	CL	0.33	0.59	0.30	0.53	0.27	0.47
218	SN68/Arg 6mm TS-D	0.236, 0.236	0.524	ARG	0.039(2)	TS-D	N,G	0.33	43	CL	0.33	0.59	0.30	0.53	0.27	0.47
219	SN68-IS20/Arg 5mm TS-D	0.197, 0.197	0.621	ARG	0.039(2) 0.198(4)	TS-D	N,G	0.29	42	CL	0.32	0.58	0.29	0.52	0.26	0.46
220	SN68-IS20/Arg 6mm TS-D	0.236, 0.236	0.524	ARG	0.039(2) 0.198(4)	TS-D	N,G	0.28	42	CL	0.32	0.57	0.29	0.51	0.26	0.46
221	SNX62/Arg 5mm TS-D	0.197, 0.197	0.621	ARG	0.020(2)	TS-D	N,G	0.32	43	CL	0.23	0.54	0.21	0.48	0.19	0.43
222	SNX62/Arg 6mm TS-D	0.236, 0.236	0.524	ARG	0.020(2)	TS-D	N,G	0.32	43	CL	0.23	0.53	0.21	0.48	0.19	0.43
223	SNX62-IS20/Arg 5mm TS-D	0.197, 0.197	0.621	ARG	0.020(2) 0.198(4)	TS-D	N,G	0.28	42	CL	0.22	0.52	0.20	0.47	0.19	0.42
224	SNX62-IS20/Arg 6mm TS-D	0.236, 0.236	0.524	ARG	0.020(2) 0.198(4)	TS-D	N,G	0.28	42	CL	0.22	0.52	0.20	0.47	0.19	0.42

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. (NFRC 500)

Manufacturer: Fleetwood Windows & Doors

Contact: Joe Zammit

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Corona, CA 92879

Phone: 951-279-1070

Model/Series: 330-T Fixed

**RECERTIFICATION
REPORT**

WESTLab Report No.:

FLE23001-SS

WESTLab Report Date:

3/29/2023

Revision/Addendum Date:

3/29/2023

NFRC Product Line ID:

FLE-M-76

Report Type:

Recertification

Operator Type: Fixed (Picture Windows)

Frame Type: Aluminum w/Thermal Breaks (AT)

Sash Type: Not Applicable (NA)

Baseline Product for U-Factor Validation Testing:

Description: Validation Unit Dual Glazed IG: 5mm Cardinal LE366 (e=0.022, sfc#2), 0.632" 90% Argon-filled Gap, 5mm Clear with Cardinal Endur spacer and no grids. The validation unit has an anodized finish. See W7 Option #999 for area weighted calculations.

Simulated U-factor: 0.32

Test Size (mm): 1200 x 1500 (47.2in. x 59.1in.)

Physical Test Tolerance: 0.29 to 0.35

Notes: Manufacturer must have the product described above tested by an accredited physical testing laboratory. Physical test window U-factor results must be within the tolerance range listed above. The baseline product simulated U-factor is within 20% or 0.10 of the lowest simulated U-factor listed in the matrix (as allowed by ANSI/NFRC 100-2020) unless otherwise noted in the "Other Notes and Comments" section.

**Signature of Simulator
In-Responsible-Charge:**

Staci Zastrow

Staci Zastrow, Certified Simulator

Disclaimers/Notes:

The window U-factor, SHGC, VT & CR values presented in this report were determined using the Therm and Window computer programs in full compliance with ANSI/NFRC 100-2020, ANSI/200-2020 and NFRC 500-2017, and from information supplied by the manufacturer. This report does not constitute certification of this product and only relates to the fenestration products simulated. Authorized use of any U-factor, SHGC Visible Transmittance and Condensation Resistance ratings may only be granted by the Certification Program Administrator. WESTLab does not imply or claim that the product simulated in this report will perform as stated in actual use conditions. This report is the property of WESTLab and the client, and must not be reproduced, except in full, without written approval from WESTLab and the client. Ratings values included in this report are for submittal to an NFRC-licensed IA are not meant to be used directly for labeling purposes. Only those values identified on a valid Certificate of Authorization (CA) by an NFRC accredited Inspection Agency (IA) are to be used for labeling purposes. Rounding of values in this report is per NFRC 601 NFRC unit and measurement policy.