

NFRC Product Line Summary (2020 Std)

Simulation Report # FLE21011-SS

Manufacturer: Fleetwood Windows & Doors

Product Line ID: FLE-M-98

Simulation Orig Report Date: 12/21/2021

Series/Model: (Formerly Series 250-T) Series 350-T Hopper (N-TB)

Model Size: 1500mm x 600mm

Simulation Revision Date: 12/21/2021

Operator Type: Projected-Awning

Frame Abs.: 0.3

Report Type: Recertification

Frame Type: Aluminum (Non-thermal) (AL)

Simulation Lab Code: SWWC

Sash Type: Aluminum (Non-thermal) (AL)

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
243	Clear/Air 5mm	0.197, 0.197	0.601	AIR		A1-D	N.G	0.77	16	CL	0.52	0.52	0.47	0.47	0.43	0.42
244	Clear/Air 6mm	0.236, 0.236	0.538	AIR		A1-D	N.G	0.77	16	CL	0.51	0.52	0.46	0.47	0.42	0.42
245	Clear/Arg 5mm	0.197, 0.197	0.601	ARG		A1-D	N.G	0.76	16	CL	0.52	0.52	0.47	0.47	0.43	0.42
246	Clear/Arg 6mm	0.236, 0.236	0.538	ARG		A1-D	N.G	0.76	16	CL	0.51	0.52	0.46	0.47	0.42	0.42
247	SN68/Air 5mm	0.197, 0.197	0.601	AIR	0.039(2)	A1-D	N.G	0.67	17	CL	0.27	0.44	0.25	0.40	0.23	0.36
	sBZ-SN68/Air 5mm	0.197, 0.197	0.601	AIR	0.039(3)	A1-D	N.G	0.67	17	BZ	0.25	0.29	0.23	0.26	0.21	0.23
248	SN68/Air 6mm	0.236, 0.236	0.538	AIR	0.039(2)	A1-D	N.G	0.67	17	CL	0.27	0.44	0.25	0.40	0.23	0.36
	sBZ-SN68/Air 6mm	0.236, 0.236	0.538	AIR	0.039(3)	A1-D	N.G	0.67	17	BZ	0.23	0.26	0.21	0.24	0.20	0.21
249	SN68/Arg 5mm	0.197, 0.197	0.601	ARG	0.039(2)	A1-D	N.G	0.64	17	CL	0.27	0.44	0.25	0.40	0.23	0.36
250	SN68/Arg 6mm	0.236, 0.236	0.538	ARG	0.039(2)	A1-D	N.G	0.64	17	CL	0.27	0.44	0.25	0.40	0.23	0.36
251	SNX62/Air 5mm	0.197, 0.197	0.601	AIR	0.020(2)	A1-D	N.G	0.67	17	CL	0.20	0.40	0.19	0.36	0.17	0.33
252	SNX62/Air 6mm	0.236, 0.236	0.538	AIR	0.020(2)	A1-D	N.G	0.66	17	CL	0.20	0.40	0.19	0.36	0.17	0.32
253	SNX62/Arg 5mm	0.197, 0.197	0.601	ARG	0.020(2)	A1-D	N.G	0.64	17	CL	0.20	0.40	0.18	0.36	0.17	0.33
254	SNX62/Arg 6mm	0.236, 0.236	0.538	ARG	0.020(2)	A1-D	N.G	0.64	17	CL	0.20	0.40	0.18	0.36	0.17	0.32
255	SN68/Air/Ctrl/Air/SN68 5mm	0.197, 0.197, 0.197	0.444, 0.444	AIR	0.039(2) 0.039(5)	A1-D	N.G	0.56	16	CL	0.24	0.34	0.22	0.31	0.20	0.27
256	SN68/Arg/Ctrl/Arg/SN68 5mm	0.197, 0.197, 0.197	0.444, 0.444	ARG	0.039(2) 0.039(5)	A1-D	N.G	0.54	16	CL	0.24	0.34	0.22	0.31	0.20	0.27
257	SNX62/Air/Ctrl/Air/SNX62 5mm	0.197, 0.197, 0.197	0.444, 0.444	AIR	0.020(2) 0.020(5)	A1-D	N.G	0.56	16	CL	0.18	0.28	0.16	0.25	0.15	0.23
258	SNX62/Arg/Ctrl/Arg/SNX62 5mm	0.197, 0.197, 0.197	0.444, 0.444	ARG	0.020(2) 0.020(5)	A1-D	N.G	0.54	16	CL	0.18	0.28	0.16	0.25	0.15	0.23
259	SN68/Air/Ctrl/Air/SN68 6mm	0.236, 0.236, 0.236	0.397, 0.397	AIR	0.039(2) 0.039(5)	A1-D	N	0.57	16	CL	0.23	0.33				
260	SN68/Arg/Ctrl/Arg/SN68 6mm	0.236, 0.236, 0.236	0.397, 0.397	ARG	0.039(2) 0.039(5)	A1-D	N	0.55	16	CL	0.23	0.33				
261	SN68/Air/Ctrl/Air/SN68 6mm	0.236, 0.236, 0.236	0.397, 0.397	AIR	0.039(2) 0.039(5)	A1-D	G	0.57	16	CL			0.22	0.30		
262	SN68/Arg/Ctrl/Arg/SN68 6mm	0.236, 0.236, 0.236	0.397, 0.397	ARG	0.039(2) 0.039(5)	A1-D	G	0.55	16	CL			0.22	0.30		
263	SN68/Air/Ctrl/Air/SN68 6mm	0.236, 0.236, 0.236	0.397, 0.397	AIR	0.039(2) 0.039(5)	A1-D	G	0.57	16	CL					0.20	0.27
264	SN68/Arg/Ctrl/Arg/SN68 6mm	0.236, 0.236, 0.236	0.397, 0.397	ARG	0.039(2) 0.039(5)	A1-D	G	0.55	16	CL					0.20	0.27

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, Sec. 4.4)

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Product Line ID: FLE-M-98

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Model Size: 1500mm x 600mm

Simulation Revision Date: 12/21/2021

Operator Type: Projected-Awning

Frame Abs.: 0.3

Report Type: Recertification

Frame Type: Aluminum (Non-thermal) (AL)

Simulation Lab Code: SWWC

Sash Type: Aluminum (Non-thermal) (AL)

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
265	SNX62/Air/Ctrl/Air/SNX62 6mm	0.236, 0.236, 0.236	0.397, 0.397	AIR	0.020(2) 0.020(5)	A1-D	N	0.57	16	CL	0.18	0.28				
266	SNX62/Arg/Ctrl/Arg/SNX62 6mm	0.236, 0.236, 0.236	0.397, 0.397	ARG	0.020(2) 0.020(5)	A1-D	N	0.54	16	CL	0.17	0.28				
267	SNX62/Air/Ctrl/Air/SNX62 6mm	0.236, 0.236, 0.236	0.397, 0.397	AIR	0.020(2) 0.020(5)	A1-D	G	0.57	16	CL			0.16	0.25		
268	SNX62/Arg/Ctrl/Arg/SNX62 6mm	0.236, 0.236, 0.236	0.397, 0.397	ARG	0.020(2) 0.020(5)	A1-D	G	0.55	16	CL			0.16	0.25		
269	SNX62/Air/Ctrl/Air/SNX62 6mm	0.236, 0.236, 0.236	0.397, 0.397	AIR	0.020(2) 0.020(5)	A1-D	G	0.57	16	CL					0.15	0.22
270	SNX62/Arg/Ctrl/Arg/SNX62 6mm	0.236, 0.236, 0.236	0.397, 0.397	ARG	0.020(2) 0.020(5)	A1-D	G	0.55	16	CL					0.15	0.22
271	SN68/Air 5mm	0.197, 0.197	0.596	AIR	0.039(2)	TS-D	N,G	0.67	17	CL	0.27	0.44	0.25	0.40	0.23	0.36
272	SN68/Air 6mm	0.236, 0.236	0.534	AIR	0.039(2)	TS-D	N,G	0.66	17	CL	0.27	0.44	0.25	0.40	0.23	0.36
273	SN68/Arg 5mm	0.197, 0.197	0.596	ARG	0.039(2)	TS-D	N,G	0.64	17	CL	0.27	0.44	0.25	0.40	0.23	0.36
274	SN68/Arg 6mm	0.236, 0.236	0.534	ARG	0.039(2)	TS-D	N,G	0.64	17	CL	0.27	0.44	0.25	0.40	0.23	0.36
275	SNX62/Air 5mm	0.197, 0.197	0.596	AIR	0.020(2)	TS-D	N,G	0.66	17	CL	0.20	0.40	0.19	0.36	0.17	0.33
276	SNX62/Air 6mm	0.236, 0.236	0.534	AIR	0.020(2)	TS-D	N,G	0.66	17	CL	0.20	0.40	0.19	0.36	0.17	0.32
277	SNX62/Arg 5mm	0.197, 0.197	0.596	ARG	0.020(2)	TS-D	N,G	0.63	17	CL	0.20	0.40	0.18	0.36	0.17	0.33
278	SNX62/Arg 6mm	0.236, 0.236	0.534	ARG	0.020(2)	TS-D	N,G	0.63	17	CL	0.20	0.40	0.18	0.36	0.17	0.32
279	SN68-IS20/Air 5mm	0.197, 0.197	0.596	AIR	0.039(2) 0.198(4)	TS-D	N,G	0.63	17	CL	0.27	0.43	0.24	0.39	0.22	0.35
280	SN68-IS20/Air 6mm	0.236, 0.236	0.534	AIR	0.039(2) 0.198(4)	TS-D	N,G	0.63	17	CL	0.26	0.43	0.24	0.38	0.22	0.34
281	SN68-IS20/Arg 5mm	0.197, 0.197	0.596	ARG	0.039(2) 0.198(4)	TS-D	N,G	0.61	17	CL	0.26	0.43	0.24	0.39	0.22	0.35
282	SN68-IS20/Arg 6mm	0.236, 0.236	0.534	ARG	0.039(2) 0.198(4)	TS-D	N,G	0.61	17	CL	0.26	0.43	0.24	0.38	0.22	0.34
283	SNX62-IS20/Air 5mm	0.197, 0.197	0.596	AIR	0.020(2) 0.198(4)	TS-D	N,G	0.63	17	CL	0.19	0.39	0.18	0.35	0.17	0.32
284	SNX62-IS20/Air 6mm	0.236, 0.236	0.534	AIR	0.020(2) 0.198(4)	TS-D	N,G	0.63	17	CL	0.19	0.39	0.18	0.35	0.17	0.31
285	SNX62-IS20/Arg 5mm	0.197, 0.197	0.596	ARG	0.020(2) 0.198(4)	TS-D	N,G	0.61	17	CL	0.19	0.39	0.18	0.35	0.16	0.32
286	SNX62-IS20/Arg 6mm	0.236, 0.236	0.534	ARG	0.020(2) 0.198(4)	TS-D	N,G	0.61	17	CL	0.19	0.39	0.18	0.35	0.16	0.31
287	SN68/Air/Ctrl/Air/SN68 5mm	0.197, 0.197, 0.197	0.440, 0.440	AIR	0.039(2) 0.039(5)	TS-D	N,G	0.56	16	CL	0.24	0.34	0.22	0.31	0.20	0.27
288	SN68/Arg/Ctrl/Arg/SN68 5mm	0.197, 0.197, 0.197	0.440, 0.440	ARG	0.039(2) 0.039(5)	TS-D	N,G	0.54	16	CL	0.24	0.34	0.22	0.31	0.20	0.27

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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
289	SNX62/Air/Ctrl/Air/SNX62 5mm	0.197, 0.197, 0.197	0.440, 0.440	AIR	0.020(2) 0.020(5)	TS-D	N.G	0.56	16	CL	0.18	0.28	0.16	0.25	0.15	0.23
290	SNX62/Arg/Ctrl/Arg/SNX62 5mm	0.197, 0.197, 0.197	0.440, 0.440	ARG	0.020(2) 0.020(5)	TS-D	N.G	0.53	16	CL	0.18	0.28	0.16	0.25	0.15	0.23
291	SN68/Air/SN68/Air/IS20 5mm	0.197, 0.197, 0.197	0.440, 0.440	AIR	0.039(2) 0.039(4) 0.198(6)	TS-D	N.G	0.54	16	CL	0.21	0.33	0.20	0.30	0.18	0.27
292	SN68/Arg/SN68/Arg/IS20 5mm	0.197, 0.197, 0.197	0.440, 0.440	ARG	0.039(2) 0.039(4) 0.198(6)	TS-D	N.G	0.52	16	CL	0.21	0.33	0.20	0.30	0.18	0.27
293	SNX62/Air/SNX62/Air/IS20 5mm	0.197, 0.197, 0.197	0.440, 0.440	AIR	0.020(2) 0.020(4) 0.198(6)	TS-D	N.G	0.54	16	CL	0.15	0.27	0.14	0.25	0.13	0.22
294	SNX62/Arg/SNX62/Arg/IS20 5mm	0.197, 0.197, 0.197	0.440, 0.440	ARG	0.020(2) 0.020(4) 0.198(6)	TS-D	N.G	0.52	16	CL	0.15	0.27	0.14	0.25	0.13	0.22
295	SN68/Air/Ctrl/Air/SN68 6mm	0.236, 0.236, 0.236	0.409, 0.409	AIR	0.039(2) 0.039(5)	TS-D	N	0.56	16	CL	0.23	0.33				
296	SN68/Arg/Ctrl/Arg/SN68 6mm	0.236, 0.236, 0.236	0.409, 0.409	ARG	0.039(2) 0.039(5)	TS-D	N	0.54	16	CL	0.23	0.33				
297	SN68/Air/Ctrl/Air/SN68 6mm	0.236, 0.236, 0.236	0.409, 0.409	AIR	0.039(2) 0.039(5)	TS-D	G	0.57	16	CL			0.22	0.30		
298	SN68/Arg/Ctrl/Arg/SN68 6mm	0.236, 0.236, 0.236	0.409, 0.409	ARG	0.039(2) 0.039(5)	TS-D	G	0.54	16	CL			0.21	0.30		
299	SN68/Air/Ctrl/Air/SN68 6mm	0.236, 0.236, 0.236	0.409, 0.409	AIR	0.039(2) 0.039(5)	TS-D	G	0.56	16	CL					0.20	0.27
300	SN68/Arg/Ctrl/Arg/SN68 6mm	0.236, 0.236, 0.236	0.409, 0.409	ARG	0.039(2) 0.039(5)	TS-D	G	0.54	16	CL					0.20	0.27
301	SNX62/Air/Ctrl/Air/SNX62 6mm	0.236, 0.236, 0.236	0.409, 0.409	AIR	0.020(2) 0.020(5)	TS-D	N	0.56	16	CL	0.18	0.28				
302	SNX62/Arg/Ctrl/Arg/SNX62 6mm	0.236, 0.236, 0.236	0.409, 0.409	ARG	0.020(2) 0.020(5)	TS-D	N	0.54	16	CL	0.17	0.28				
303	SNX62/Air/Ctrl/Air/SNX62 6mm	0.236, 0.236, 0.236	0.409, 0.409	AIR	0.020(2) 0.020(5)	TS-D	G	0.56	16	CL			0.16	0.25		
304	SNX62/Arg/Ctrl/Arg/SNX62 6mm	0.236, 0.236, 0.236	0.409, 0.409	ARG	0.020(2) 0.020(5)	TS-D	G	0.54	16	CL			0.16	0.25		
305	SNX62/Air/Ctrl/Air/SNX62 6mm	0.236, 0.236, 0.236	0.409, 0.409	AIR	0.020(2) 0.020(5)	TS-D	G	0.56	16	CL					0.15	0.22
306	SNX62/Arg/Ctrl/Arg/SNX62 6mm	0.236, 0.236, 0.236	0.409, 0.409	ARG	0.020(2) 0.020(5)	TS-D	G	0.54	16	CL					0.15	0.22
307	SN68/Air/SN68/Air/IS20 6mm	0.236, 0.236, 0.236	0.409, 0.409	AIR	0.039(2) 0.039(4) 0.198(6)	TS-D	N	0.54	15	CL	0.21	0.32				
308	SN68/Arg/SN68/Arg/IS20 6mm	0.236, 0.236, 0.236	0.409, 0.409	ARG	0.039(2) 0.039(4) 0.198(6)	TS-D	N	0.52	15	CL	0.21	0.32				
309	SN68/Air/SN68/Air/IS20 6mm	0.236, 0.236, 0.236	0.409, 0.409	AIR	0.039(2) 0.039(4) 0.198(6)	TS-D	G	0.54	15	CL			0.20	0.29		
310	SN68/Arg/SN68/Arg/IS20 6mm	0.236, 0.236, 0.236	0.409, 0.409	ARG	0.039(2) 0.039(4) 0.198(6)	TS-D	G	0.52	15	CL			0.20	0.29		
311	SN68/Air/SN68/Air/IS20 6mm	0.236, 0.236, 0.236	0.409, 0.409	AIR	0.039(2) 0.039(4) 0.198(6)	TS-D	G	0.54	15	CL					0.18	0.26
312	SN68/Arg/SN68/Arg/IS20 6mm	0.236, 0.236, 0.236	0.409, 0.409	ARG	0.039(2) 0.039(4) 0.198(6)	TS-D	G	0.52	15	CL					0.18	0.26

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Series/Model: (Formerly Series 250-T) Series 350-T Hopper (N-TB)

Model Size: 1500mm x 600mm

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Operator Type: Projected-Awning

Frame Abs.: 0.3

Report Type: Recertification

Frame Type: Aluminum (Non-thermal) (AL)

Simulation Lab Code: SWWC

Sash Type: Aluminum (Non-thermal) (AL)

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
313	SNX62/Air/SNX62/Air/IS20 6mm	0.236, 0.236, 0.236	0.409, 0.409	AIR	0.020(2) 0.020(4) 0.198(6)	TS-D	N	0.54	15	CL	0.15	0.27				
314	SNX62/Arg/SNX62/Arg/IS20 6mm	0.236, 0.236, 0.236	0.409, 0.409	ARG	0.020(2) 0.020(4) 0.198(6)	TS-D	N	0.52	16	CL	0.15	0.27				
315	SNX62/Air/SNX62/Air/IS20 6mm	0.236, 0.236, 0.236	0.409, 0.409	AIR	0.020(2) 0.020(4) 0.198(6)	TS-D	G	0.54	15	CL			0.14	0.24		
316	SNX62/Arg/SNX62/Arg/IS20 6mm	0.236, 0.236, 0.236	0.409, 0.409	ARG	0.020(2) 0.020(4) 0.198(6)	TS-D	G	0.52	16	CL			0.14	0.24		
317	SNX62/Air/SNX62/Air/IS20 6mm	0.236, 0.236, 0.236	0.409, 0.409	AIR	0.020(2) 0.020(4) 0.198(6)	TS-D	G	0.54	15	CL					0.13	0.22
318	SNX62/Arg/SNX62/Arg/IS20 6mm	0.236, 0.236, 0.236	0.409, 0.409	ARG	0.020(2) 0.020(4) 0.198(6)	TS-D	G	0.52	16	CL					0.13	0.22
319	CIG272-i89/Air 5mm	0.197, 0.197	0.632	AIR	0.042(2) 0.149(4)	SS-D	N,G	0.63	17	CL	0.28	0.45	0.26	0.40	0.24	0.36
320	CIG272-i89/Air 6mm	0.236, 0.236	0.522	AIR	0.042(2) 0.149(4)	SS-D	N,G	0.62	17	CL	0.28	0.44	0.26	0.40	0.24	0.36
321	CIG272-i89/Arg 5mm	0.197, 0.197	0.632	ARG	0.042(2) 0.149(4)	SS-D	N,G	0.61	17	CL	0.28	0.45	0.26	0.40	0.24	0.36
322	CIG272-i89/Arg 6mm	0.236, 0.236	0.522	ARG	0.042(2) 0.149(4)	SS-D	N,G	0.61	17	CL	0.28	0.44	0.26	0.40	0.24	0.36
323	CIG366-i89/Air 5mm	0.197, 0.197	0.632	AIR	0.020(2) 0.149(4)	SS-D	N,G	0.62	17	CL	0.20	0.40	0.19	0.36	0.17	0.33
324	CIG366-i89/Air 6mm	0.236, 0.236	0.522	AIR	0.020(2) 0.149(4)	SS-D	N,G	0.62	17	CL	0.20	0.40	0.19	0.36	0.17	0.32
325	CIG366-i89/Arg 5mm	0.197, 0.197	0.632	ARG	0.020(2) 0.149(4)	SS-D	N,G	0.60	17	CL	0.20	0.40	0.18	0.36	0.17	0.33
326	CIG366-i89/Arg 6mm	0.236, 0.236	0.522	ARG	0.020(2) 0.149(4)	SS-D	N,G	0.60	17	CL	0.20	0.40	0.18	0.36	0.17	0.32
327	CIG180-i89/Arg 5mm	0.197, 0.197	0.632	ARG	0.068(2) 0.149(4)	SS-D	N,G	0.61	17	CL	0.42	0.49	0.38	0.44	0.35	0.40
328	CIG180-i89/Arg 6mm	0.236, 0.236	0.522	ARG	0.068(2) 0.149(4)	SS-D	N,G	0.61	17	CL	0.40	0.49	0.37	0.44	0.34	0.39
329	CIG272/Arg 5mm	0.197, 0.197	0.632	ARG	0.042(2)	SS-D	N,G	0.64	17	CL	0.29	0.46	0.27	0.41	0.24	0.37
330	CIG272/Arg 6mm	0.236, 0.236	0.522	ARG	0.042(2)	SS-D	N,G	0.64	17	CL	0.29	0.45	0.26	0.41	0.24	0.37
331	CIG366/Arg 5mm	0.197, 0.197	0.632	ARG	0.020(2)	SS-D	N,G	0.63	17	CL	0.20	0.41	0.19	0.37	0.17	0.33
332	CIG366/Arg 6mm	0.236, 0.236	0.522	ARG	0.020(2)	SS-D	N,G	0.63	17	CL	0.20	0.41	0.19	0.37	0.17	0.33
333	CIG180/Arg 5mm	0.197, 0.197	0.632	ARG	0.068(2)	SS-D	N,G	0.64	17	CL	0.43	0.50	0.39	0.45	0.36	0.41
334	CIG180/Arg 6mm	0.236, 0.236	0.522	ARG	0.068(2)	SS-D	N,G	0.64	17	CL	0.42	0.50	0.38	0.45	0.35	0.40
335	CIG272/Arg/Ctrl/Arg/CIG180 5mm	0.197, 0.197, 0.197	0.462, 0.462	ARG	0.042(2) 0.068(5)	SS-D	N,G	0.53	16	CL	0.26	0.40	0.24	0.36	0.22	0.32
336	CIG180/Arg/Ctrl/Arg/CIG180 5mm	0.197, 0.197, 0.197	0.462, 0.462	ARG	0.068(2) 0.068(5)	SS-D	N,G	0.54	16	CL	0.37	0.44	0.34	0.40	0.31	0.36

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, Sec. 4.4)

NFRC Product Line Summary (2020 Std)

Simulation Report # FLE21011-SS

Manufacturer: Fleetwood Windows & Doors

Product Line ID: FLE-M-98

Simulation Orig Report Date: 12/21/2021

Series/Model: (Formerly Series 250-T) Series 350-T Hopper (N-TB)

Model Size: 1500mm x 600mm

Simulation Revision Date: 12/21/2021

Operator Type: Projected-Awning

Frame Abs.: 0.3

Report Type: Recertification

Frame Type: Aluminum (Non-thermal) (AL)

Simulation Lab Code: SWWC

Sash Type: Aluminum (Non-thermal) (AL)

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
337	CIG272/Arg/CIG180/Arg/CIG189 5mm	0.197, 0.197, 0.197	0.462, 0.462	ARG	0.042(2) 0.068(4) 0.149(6)	SS-D	N,G	0.52	16	CL	0.25	0.39	0.23	0.35	0.21	0.31
338	CIG180/Arg/CIG180/Arg/CIG189 5mm	0.197, 0.197, 0.197	0.462, 0.462	ARG	0.068(2) 0.068(4) 0.149(6)	SS-D	N,G	0.52	16	CL	0.36	0.43	0.33	0.39	0.30	0.35
339	CIG272/Arg/Cir/Arg/CIG180 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.042(2) 0.068(5)	SS-D	N	0.54	16	CL	0.26	0.39				
340	CIG272/Arg/Cir/Arg/CIG180 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.042(2) 0.068(5)	SS-D	G	0.54	16	CL			0.24	0.35		
341	CIG272/Arg/Cir/Arg/CIG180 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.042(2) 0.068(5)	SS-D	G	0.54	16	CL					0.22	0.32
342	CIG180/Arg/Cir/Arg/CIG180 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.068(2) 0.068(5)	SS-D	N	0.54	16	CL	0.36	0.43				
343	CIG180/Arg/Cir/Arg/CIG180 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.068(2) 0.068(5)	SS-D	G	0.55	16	CL			0.33	0.39		
344	CIG180/Arg/Cir/Arg/CIG180 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.068(2) 0.068(5)	SS-D	G	0.55	16	CL					0.30	0.35
345	CIG272/Arg/CIG180/Arg/CIG189 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.042(2) 0.068(4) 0.149(6)	SS-D	N	0.52	16	CL	0.25	0.38				
346	CIG272/Arg/CIG180/Arg/CIG189 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.042(2) 0.068(4) 0.149(6)	SS-D	G	0.53	16	CL			0.23	0.34		
347	CIG272/Arg/CIG180/Arg/CIG189 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.042(2) 0.068(4) 0.149(6)	SS-D	G	0.53	16	CL					0.21	0.31
348	CIG180/Arg/CIG180/Arg/CIG189 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.068(2) 0.068(4) 0.149(6)	SS-D	N	0.53	16	CL	0.34	0.42				
349	CIG180/Arg/CIG180/Arg/CIG189 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.068(2) 0.068(4) 0.149(6)	SS-D	G	0.53	16	CL			0.31	0.38		
350	CIG180/Arg/CIG180/Arg/CIG189 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.068(2) 0.068(4) 0.149(6)	SS-D	G	0.53	16	CL					0.29	0.34
351	SN68/Arg 5mm	0.197, 0.197	0.625	ARG	0.039(2)	ZF-S	N,G	0.64	17	CL	0.27	0.44	0.25	0.40	0.23	0.36
352	SN68/Arg 6mm	0.236, 0.236	0.500	ARG	0.039(2)	ZF-S	N,G	0.63	17	CL	0.27	0.44	0.25	0.40	0.23	0.36
353	SNX62/Arg 5mm	0.197, 0.197	0.625	ARG	0.020(2)	ZF-S	N,G	0.63	17	CL	0.20	0.40	0.18	0.36	0.17	0.33
354	SNX62/Arg 6mm	0.236, 0.236	0.500	ARG	0.020(2)	ZF-S	N,G	0.63	17	CL	0.20	0.40	0.18	0.36	0.17	0.32
355	SN68-IS20/Arg 5mm	0.197, 0.197	0.625	ARG	0.039(2) 0.198(4)	ZF-S	N,G	0.61	17	CL	0.26	0.43	0.24	0.39	0.22	0.35
356	SN68-IS20/Arg 6mm	0.236, 0.236	0.500	ARG	0.039(2) 0.198(4)	ZF-S	N,G	0.61	17	CL	0.26	0.43	0.24	0.38	0.22	0.34
357	SNX62-IS20/Arg 5mm	0.197, 0.197	0.625	ARG	0.020(2) 0.198(4)	ZF-S	N,G	0.61	17	CL	0.19	0.39	0.18	0.35	0.16	0.32
358	SNX62-IS20/Arg 6mm	0.236, 0.236	0.500	ARG	0.020(2) 0.198(4)	ZF-S	N,G	0.60	17	CL	0.19	0.39	0.18	0.35	0.17	0.31
359	CIG366-i89/Arg 5mm	0.197, 0.197	0.625	ARG	0.020(2) 0.149(4)	ZF-S	N,G	0.60	17	CL	0.20	0.40	0.18	0.36	0.17	0.33
360	CIG366-i89/Arg 6mm	0.236, 0.236	0.500	ARG	0.020(2) 0.149(4)	ZF-S	N,G	0.60	17	CL	0.20	0.40	0.18	0.36	0.17	0.32

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, Sec. 4.4)

NFRC Product Line Summary (2020 Std)

Simulation Report # FLE21011-SS

Manufacturer: Fleetwood Windows & Doors

Product Line ID: FLE-M-98

Simulation Orig Report Date: 12/21/2021

Series/Model: (Formerly Series 250-T) Series 350-T Hopper (N-TB)

Model Size: 1500mm x 600mm

Simulation Revision Date: 12/21/2021

Operator Type: Projected-Awning

Frame Abs.: 0.3

Report Type: Recertification

Frame Type: Aluminum (Non-thermal) (AL)

Simulation Lab Code: SWWC

Sash Type: Aluminum (Non-thermal) (AL)

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
361	ClG366/Arg 5mm	0.197, 0.197	0.625	ARG	0.020(2)	ZF-S	N.G	0.63	17	CL	0.20	0.41	0.19	0.37	0.17	0.33
362	ClG366/Arg 6mm	0.236, 0.236	0.500	ARG	0.020(2)	ZF-S	N.G	0.63	17	CL	0.20	0.41	0.19	0.37	0.17	0.33
363	SN68/Arg/Clr/Arg/SN68 5mm	0.197, 0.197, 0.197	0.438, 0.438	ARG	0.039(2) 0.039(5)	ZF-S	N.G	0.53	16	CL	0.24	0.34	0.22	0.31	0.20	0.27
364	SNX62/Arg/Clr/Arg/SNX62 5mm	0.197, 0.197, 0.197	0.438, 0.438	ARG	0.020(2) 0.020(5)	ZF-S	N.G	0.53	16	CL	0.18	0.28	0.16	0.25	0.15	0.23
365	SN68/Arg/SN68/Arg/IS20 5mm	0.197, 0.197, 0.197	0.438, 0.438	ARG	0.039(2) 0.039(4) 0.198(6)	ZF-S	N.G	0.52	16	CL	0.21	0.33	0.20	0.30	0.18	0.27
366	SNX62/Arg/SNX62/Arg/IS20 5mm	0.197, 0.197, 0.197	0.438, 0.438	ARG	0.020(2) 0.020(4) 0.198(6)	ZF-S	N.G	0.52	16	CL	0.15	0.27	0.14	0.25	0.13	0.22
367	SN68/Arg/Clr/Arg/SN68 6mm	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.039(2) 0.039(5)	ZF-S	N	0.54	16	CL	0.23	0.33				
368	SN68/Arg/Clr/Arg/SN68 6mm	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.039(2) 0.039(5)	ZF-S	G	0.55	16	CL			0.22	0.30		
369	SN68/Arg/Clr/Arg/SN68 6mm	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.039(2) 0.039(5)	ZF-S	G	0.55	16	CL					0.20	0.27
370	SNX62/Arg/Clr/Arg/SNX62 6mm	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.020(2) 0.020(5)	ZF-S	N	0.54	16	CL	0.17	0.28				
371	SNX62/Arg/Clr/Arg/SNX62 6mm	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.020(2) 0.020(5)	ZF-S	G	0.54	16	CL			0.16	0.25		
372	SNX62/Arg/Clr/Arg/SNX62 6mm	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.020(2) 0.020(5)	ZF-S	G	0.54	16	CL					0.15	0.22
373	SN68/Arg/SN68/Arg/IS20 6mm	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.039(2) 0.039(4) 0.198(6)	ZF-S	N	0.53	16	CL	0.21	0.32				
374	SN68/Arg/SN68/Arg/IS20 6mm	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.039(2) 0.039(4) 0.198(6)	ZF-S	G	0.53	16	CL			0.20	0.29		
375	SN68/Arg/SN68/Arg/IS20 6mm	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.039(2) 0.039(4) 0.198(6)	ZF-S	G	0.53	16	CL					0.18	0.26
376	SNX62/Arg/SNX62/Arg/IS20 6mm	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.020(2) 0.020(4) 0.198(6)	ZF-S	N	0.53	16	CL	0.15	0.27				
377	SNX62/Arg/SNX62/Arg/IS20 6mm	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.020(2) 0.020(4) 0.198(6)	ZF-S	G	0.53	16	CL			0.14	0.24		
378	SNX62/Arg/SNX62/Arg/IS20 6mm	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.020(2) 0.020(4) 0.198(6)	ZF-S	G	0.53	16	CL					0.13	0.22
379	Clear/Air 10mm/10mm	0.394, 0.394	0.476	AIR		A1-D	N.G	0.75	15	CL	0.48	0.51	0.43	0.46	0.40	0.41
380	SN68/Air 10mm/10mm	0.394, 0.394	0.476	AIR	0.039(2)	A1-D	N.G	0.65	16	CL	0.27	0.43	0.25	0.38	0.23	0.35
	sBZ-SN68/Air 10mm/10mm	0.394, 0.394	0.476	AIR	0.039(3)	A1-D	N.G	0.65	16	BZ	0.19	0.18	0.18	0.16	0.16	0.15
381	SN68/Arg 10mm/10mm	0.394, 0.394	0.476	ARG	0.039(2)	A1-D	N.G	0.62	16	CL	0.26	0.43	0.24	0.38	0.22	0.35
382	SNX62/Air 10mm/10mm	0.394, 0.394	0.476	AIR	0.020(2)	A1-D	N.G	0.65	16	CL	0.20	0.39	0.19	0.35	0.17	0.31
383	SNX62/Arg 10mm/10mm	0.394, 0.394	0.476	ARG	0.020(2)	A1-D	N.G	0.62	16	CL	0.20	0.39	0.18	0.35	0.17	0.31

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, Sec. 4.4)

NFRC Product Line Summary (2020 Std)

Simulation Report # FLE21011-SS

Manufacturer: Fleetwood Windows & Doors

Product Line ID: FLE-M-98

Simulation Orig Report Date: 12/21/2021

Series/Model: (Formerly Series 250-T) Series 350-T Hopper (N-TB)

Model Size: 1500mm x 600mm

Simulation Revision Date: 12/21/2021

Operator Type: Projected-Awning

Frame Abs.: 0.3

Report Type: Recertification

Frame Type: Aluminum (Non-thermal) (AL)

Simulation Lab Code: SWWC

Sash Type: Aluminum (Non-thermal) (AL)

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
384	Clear/Air 10mm/6mm	0.394, 0.236	0.632	AIR		A1-D	N.G	0.75	15	CL	0.49	0.51	0.44	0.46	0.40	0.41
	Clear/Air 6mm/10mm	0.236, 0.394	0.632	AIR		A1-D	N.G	0.75	15	CL	0.50	0.51	0.46	0.46	0.41	0.41
385	SN68/Air 10mm/6mm	0.394, 0.236	0.632	AIR	0.039(2)	A1-D	N.G	0.66	15	CL	0.27	0.43	0.24	0.39	0.22	0.35
	SN68/Air 6mm/10mm	0.236, 0.394	0.632	AIR	0.039(2)	A1-D	N.G	0.66	15	CL	0.27	0.43	0.25	0.39	0.23	0.35
	sBZ-SN68/Air 6mm/10mm	0.236, 0.394	0.632	AIR	0.039(3)	A1-D	N.G	0.66	15	BZ	0.23	0.26	0.21	0.23	0.20	0.21
386	SN68/Arg 10mm/6mm	0.394, 0.236	0.632	ARG	0.039(2)	A1-D	N.G	0.63	15	CL	0.26	0.43	0.24	0.39	0.22	0.35
	SN68/Arg 6mm/10mm	0.236, 0.394	0.632	ARG	0.039(2)	A1-D	N.G	0.63	15	CL	0.27	0.43	0.25	0.39	0.23	0.35
387	SNX62/Air 10mm/6mm	0.394, 0.236	0.632	AIR	0.020(2)	A1-D	N.G	0.65	15	CL	0.20	0.39	0.19	0.35	0.17	0.32
	SNX62/Air 6mm/10mm	0.236, 0.394	0.632	AIR	0.020(2)	A1-D	N.G	0.65	15	CL	0.20	0.39	0.18	0.36	0.17	0.32
388	SNX62/Arg 10mm/6mm	0.394, 0.236	0.632	ARG	0.020(2)	A1-D	N.G	0.62	15	CL	0.20	0.39	0.18	0.35	0.17	0.32
	SNX62/Arg 6mm/10mm	0.236, 0.394	0.632	ARG	0.020(2)	A1-D	N.G	0.62	15	CL	0.20	0.39	0.18	0.36	0.17	0.32
389	Clear/Air 10mm/10mm	0.394, 0.394	0.726	AIR		A1-D	N.G	0.74	15	CL	0.48	0.51	0.44	0.46	0.40	0.41
390	SN68/Air 10mm/10mm	0.394, 0.394	0.726	AIR	0.039(2)	A1-D	N.G	0.65	15	CL	0.26	0.43	0.24	0.38	0.22	0.35
	sBZ-SN68/Air 10mm/10mm	0.394, 0.394	0.726	AIR	0.039(3)	A1-D	N.G	0.65	15	BZ	0.19	0.18	0.17	0.16	0.16	0.15
391	SN68/Arg 10mm/10mm	0.394, 0.394	0.726	ARG	0.039(2)	A1-D	N.G	0.62	15	CL	0.26	0.43	0.24	0.38	0.22	0.35
392	SNX62/Air 10mm/10mm	0.394, 0.394	0.726	AIR	0.020(2)	A1-D	N.G	0.64	15	CL	0.20	0.39	0.19	0.35	0.17	0.31
393	SNX62/Arg 10mm/10mm	0.394, 0.394	0.726	ARG	0.020(2)	A1-D	N.G	0.62	15	CL	0.20	0.39	0.18	0.35	0.17	0.31
394	Clear/Air 10mm/6mm	0.394, 0.236	0.882	AIR		A1-D	N.G	0.75	15	CL	0.49	0.51	0.44	0.46	0.40	0.41
	Clear/Air 6mm/10mm	0.236, 0.394	0.882	AIR		A1-D	N.G	0.75	15	CL	0.50	0.51	0.46	0.46	0.41	0.41
395	SN68/Air 10mm/6mm	0.394, 0.236	0.882	AIR	0.039(2)	A1-D	N.G	0.65	15	CL	0.27	0.43	0.25	0.39	0.23	0.35
	SN68/Air 6mm/10mm	0.236, 0.394	0.882	AIR	0.039(2)	A1-D	N.G	0.65	15	CL	0.27	0.43	0.25	0.39	0.23	0.35
	sBZ-SN68/Air 10mm/6mm	0.394, 0.236	0.882	AIR	0.039(3)	A1-D	N.G	0.65	15	BZ	0.19	0.18	0.18	0.17	0.16	0.15
396	SN68/Arg 10mm/6mm	0.394, 0.236	0.882	ARG	0.039(2)	A1-D	N.G	0.63	15	CL	0.26	0.43	0.24	0.39	0.22	0.35
	SN68/Arg 6mm/10mm	0.236, 0.394	0.882	ARG	0.039(2)	A1-D	N.G	0.63	15	CL	0.27	0.43	0.25	0.39	0.23	0.35

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, Sec. 4.4)

NFRC Product Line Summary (2020 Std)

Simulation Report # FLE21011-SS

Manufacturer: Fleetwood Windows & Doors

Product Line ID: FLE-M-98

Simulation Orig Report Date: 12/21/2021

Series/Model: (Formerly Series 250-T) Series 350-T Hopper (N-TB)

Model Size: 1500mm x 600mm

Simulation Revision Date: 12/21/2021

Operator Type: Projected-Awning

Frame Abs.: 0.3

Report Type: Recertification

Frame Type: Aluminum (Non-thermal) (AL)

Simulation Lab Code: SWWC

Sash Type: Aluminum (Non-thermal) (AL)

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
397	SNX62/Air 10mm/6mm	0.394, 0.236	0.882	AIR	0.020(2)	A1-D	N,G	0.65	15	CL	0.20	0.39	0.19	0.35	0.17	0.32
	SNX62/Air 6mm/10mm	0.236, 0.394	0.882	AIR	0.020(2)	A1-D	N,G	0.65	15	CL	0.20	0.39	0.19	0.36	0.17	0.32
398	SNX62/Arg 10mm/6mm	0.394, 0.236	0.882	ARG	0.020(2)	A1-D	N,G	0.62	15	CL	0.20	0.39	0.18	0.35	0.17	0.32
	SNX62/Arg 6mm/10mm	0.236, 0.394	0.882	ARG	0.020(2)	A1-D	N,G	0.62	15	CL	0.20	0.39	0.18	0.36	0.17	0.32
399	SN68/Air 10mm/10mm	0.394, 0.394	0.470	AIR	0.039(2)	TS-D	N,G	0.64	16	CL	0.27	0.43	0.25	0.38	0.23	0.35
400	SN68/Arg 10mm/10mm	0.394, 0.394	0.470	ARG	0.039(2)	TS-D	N,G	0.62	16	CL	0.26	0.43	0.24	0.38	0.22	0.35
401	SNX62/Air 10mm/10mm	0.394, 0.394	0.470	AIR	0.020(2)	TS-D	N,G	0.64	16	CL	0.20	0.39	0.19	0.35	0.17	0.31
402	SNX62/Arg 10mm/10mm	0.394, 0.394	0.470	ARG	0.020(2)	TS-D	N,G	0.61	16	CL	0.20	0.39	0.18	0.35	0.17	0.31
403	SN68/Air 10mm/6mm	0.394, 0.236	0.633	AIR	0.039(2)	TS-D	N,G	0.65	16	CL	0.27	0.43	0.24	0.39	0.22	0.35
	SN68/Air 6mm/10mm	0.236, 0.394	0.633	AIR	0.039(2)	TS-D	N,G	0.65	16	CL	0.27	0.43	0.25	0.39	0.23	0.35
404	SN68/Arg 10mm/6mm	0.394, 0.236	0.633	ARG	0.039(2)	TS-D	N,G	0.62	16	CL	0.26	0.43	0.24	0.39	0.22	0.35
	SN68/Arg 6mm/10mm	0.236, 0.394	0.633	ARG	0.039(2)	TS-D	N,G	0.62	16	CL	0.27	0.43	0.25	0.39	0.23	0.35
405	SN68-IS20/Air 10mm/6mm	0.394, 0.236	0.633	AIR	0.039(2) 0.198(4)	TS-D	N,G	0.61	15	CL	0.26	0.42	0.24	0.38	0.22	0.34
406	SN68-IS20/Arg 10mm/6mm	0.394, 0.236	0.633	ARG	0.039(2) 0.198(4)	TS-D	N,G	0.59	15	CL	0.26	0.42	0.24	0.38	0.22	0.34
407	SNX62/Air 10mm/6mm	0.394, 0.236	0.633	AIR	0.020(2)	TS-D	N,G	0.64	16	CL	0.20	0.39	0.19	0.35	0.17	0.32
	SNX62/Air 6mm/10mm	0.236, 0.394	0.633	AIR	0.020(2)	TS-D	N,G	0.64	16	CL	0.20	0.39	0.18	0.36	0.17	0.32
408	SNX62/Arg 10mm/6mm	0.394, 0.236	0.633	ARG	0.020(2)	TS-D	N,G	0.62	16	CL	0.20	0.39	0.18	0.35	0.17	0.32
	SNX62/Arg 6mm/10mm	0.236, 0.394	0.633	ARG	0.020(2)	TS-D	N,G	0.62	16	CL	0.20	0.39	0.18	0.36	0.17	0.32
409	SNX62-IS20/Air 10mm/6mm	0.394, 0.236	0.633	AIR	0.020(2) 0.198(4)	TS-D	N,G	0.61	15	CL	0.19	0.38	0.18	0.34	0.17	0.31
410	SNX62-IS20/Arg 10mm/6mm	0.394, 0.236	0.633	ARG	0.020(2) 0.198(4)	TS-D	N,G	0.59	15	CL	0.19	0.38	0.18	0.34	0.16	0.31
411	SN68/Air 10mm/10mm	0.394, 0.394	0.714	AIR	0.039(2)	TS-D	N,G	0.64	16	CL	0.26	0.43	0.24	0.38	0.22	0.35
412	SN68/Arg 10mm/10mm	0.394, 0.394	0.714	ARG	0.039(2)	TS-D	N,G	0.61	16	CL	0.26	0.43	0.24	0.38	0.22	0.35
413	SNX62/Air 10mm/10mm	0.394, 0.394	0.714	AIR	0.020(2)	TS-D	N,G	0.64	16	CL	0.20	0.39	0.18	0.35	0.17	0.31
414	SNX62/Arg 10mm/10mm	0.394, 0.394	0.714	ARG	0.020(2)	TS-D	N,G	0.61	16	CL	0.20	0.39	0.18	0.35	0.17	0.31

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, Sec. 4.4)

NFRC Product Line Summary (2020 Std)

Simulation Report # FLE21011-SS

Manufacturer: Fleetwood Windows & Doors

Product Line ID: FLE-M-98

Simulation Orig Report Date: 12/21/2021

Series/Model: (Formerly Series 250-T) Series 350-T Hopper (N-TB)

Model Size: 1500mm x 600mm

Simulation Revision Date: 12/21/2021

Operator Type: Projected-Awning

Frame Abs.: 0.3

Report Type: Recertification

Frame Type: Aluminum (Non-thermal) (AL)

Simulation Lab Code: SWWC

Sash Type: Aluminum (Non-thermal) (AL)

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
415	SN68/Air 10mm/6mm	0.394, 0.236	0.784	AIR	0.039(2)	TS-D	N.G	0.65	16	CL	0.27	0.43	0.25	0.39	0.22	0.35
	SN68/Air 6mm/10mm	0.236, 0.394	0.784	AIR	0.039(2)	TS-D	N.G	0.65	16	CL	0.27	0.43	0.25	0.39	0.23	0.35
416	SN68/Arg 10mm/6mm	0.394, 0.236	0.784	ARG	0.039(2)	TS-D	N.G	0.62	16	CL	0.26	0.43	0.24	0.39	0.22	0.35
	SN68/Arg 6mm/10mm	0.236, 0.394	0.784	ARG	0.039(2)	TS-D	N.G	0.62	16	CL	0.27	0.43	0.25	0.39	0.23	0.35
417	SN68-IS20/Air 10mm/6mm	0.394, 0.236	0.784	AIR	0.039(2) 0.198(4)	TS-D	N.G	0.61	16	CL	0.26	0.42	0.24	0.38	0.22	0.34
418	SN68-IS20/Arg 10mm/6mm	0.394, 0.236	0.784	ARG	0.039(2) 0.198(4)	TS-D	N.G	0.59	16	CL	0.26	0.42	0.24	0.38	0.22	0.34
419	SNX62/Air 10mm/6mm	0.394, 0.236	0.784	AIR	0.020(2)	TS-D	N.G	0.64	16	CL	0.20	0.39	0.19	0.35	0.17	0.32
	SNX62/Air 6mm/10mm	0.236, 0.394	0.784	AIR	0.020(2)	TS-D	N.G	0.64	16	CL	0.20	0.39	0.18	0.36	0.17	0.32
420	SNX62/Arg 10mm/6mm	0.394, 0.236	0.784	ARG	0.020(2)	TS-D	N.G	0.62	16	CL	0.20	0.39	0.18	0.35	0.17	0.32
	SNX62/Arg 6mm/10mm	0.236, 0.394	0.784	ARG	0.020(2)	TS-D	N.G	0.62	16	CL	0.20	0.39	0.18	0.36	0.17	0.32
421	SNX62-IS20/Air 10mm/6mm	0.394, 0.236	0.784	AIR	0.020(2) 0.198(4)	TS-D	N.G	0.61	16	CL	0.19	0.38	0.18	0.34	0.17	0.31
422	SNX62-IS20/Arg 10mm/6mm	0.394, 0.236	0.784	ARG	0.020(2) 0.198(4)	TS-D	N.G	0.59	16	CL	0.19	0.38	0.18	0.34	0.16	0.31
423	CIG366/Arg 8mm/8mm	0.315, 0.315	0.632	ARG	0.020(2)	SS-D	N.G	0.61	16	CL	0.20	0.40	0.19	0.36	0.17	0.32
424	CIG272/Arg 8mm/8mm	0.315, 0.315	0.632	ARG	0.042(2)	SS-D	N.G	0.62	16	CL	0.28	0.44	0.26	0.40	0.24	0.36
425	CIG180/Arg 8mm/8mm	0.315, 0.315	0.632	ARG	0.068(2)	SS-D	N.G	0.62	16	CL	0.40	0.49	0.37	0.44	0.34	0.39
426	CIG366/Arg 8mm/6mm	0.315, 0.236	0.699	ARG	0.020(2)	SS-D	N.G	0.62	16	CL	0.20	0.40	0.19	0.36	0.17	0.33
	CIG366/Arg 6mm/8mm	0.236, 0.315	0.699	ARG	0.020(2)	SS-D	N.G	0.62	16	CL	0.20	0.40	0.19	0.36	0.17	0.32
427	CIG366-i89/Air 8mm/6mm	0.315, 0.236	0.699	AIR	0.020(2) 0.149(4)	SS-D	N.G	0.60	16	CL	0.20	0.39	0.18	0.35	0.17	0.32
428	CIG366-i89/Arg 8mm/6mm	0.315, 0.236	0.699	ARG	0.020(2) 0.149(4)	SS-D	N.G	0.58	16	CL	0.20	0.39	0.18	0.35	0.17	0.32
429	CIG272/Arg 8mm/6mm	0.315, 0.236	0.699	ARG	0.042(2)	SS-D	N.G	0.62	16	CL	0.28	0.45	0.26	0.40	0.24	0.36
	CIG272/Arg 6mm/8mm	0.236, 0.315	0.699	ARG	0.042(2)	SS-D	N.G	0.62	16	CL	0.28	0.45	0.26	0.40	0.24	0.36
430	CIG272-i89/Air 8mm/6mm	0.315, 0.236	0.699	AIR	0.042(2) 0.149(4)	SS-D	N.G	0.61	16	CL	0.28	0.44	0.25	0.39	0.23	0.35
431	CIG272-i89/Arg 8mm/6mm	0.315, 0.236	0.699	ARG	0.042(2) 0.149(4)	SS-D	N.G	0.59	16	CL	0.27	0.44	0.25	0.39	0.23	0.35
432	CIG180/Arg 8mm/6mm	0.315, 0.236	0.699	ARG	0.068(2)	SS-D	N.G	0.63	16	CL	0.40	0.49	0.37	0.44	0.34	0.40

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, Sec. 4.4)

NFRC Product Line Summary (2020 Std)

Simulation Report # FLE21011-SS

Manufacturer: Fleetwood Windows & Doors

Product Line ID: FLE-M-98

Simulation Orig Report Date: 12/21/2021

Series/Model: (Formerly Series 250-T) Series 350-T Hopper (N-TB)

Model Size: 1500mm x 600mm

Simulation Revision Date: 12/21/2021

Operator Type: Projected-Awning

Frame Abs.: 0.3

Report Type: Recertification

Frame Type: Aluminum (Non-thermal) (AL)

Simulation Lab Code: SWWC

Sash Type: Aluminum (Non-thermal) (AL)

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
	CIG180/Arg 6mm/8mm	0.236, 0.315	0.699	ARG	0.068(2)	SS-D	N.G	0.63	16	CL	0.42	0.49	0.38	0.44	0.35	0.40
433	CIG180-i89/Arg 8mm/6mm	0.315, 0.236	0.699	ARG	0.068(2) 0.149(4)	SS-D	N.G	0.59	16	CL	0.39	0.48	0.36	0.43	0.33	0.39
434	CIG366/Arg 8mm/8mm	0.315, 0.315	0.837	ARG	0.020(2)	SS-D	N.G	0.61	16	CL	0.20	0.40	0.19	0.36	0.17	0.32
435	CIG272/Arg 8mm/8mm	0.315, 0.315	0.837	ARG	0.042(2)	SS-D	N.G	0.62	16	CL	0.28	0.44	0.26	0.40	0.24	0.36
436	CIG180/Arg 8mm/8mm	0.315, 0.315	0.837	ARG	0.068(2)	SS-D	N.G	0.62	16	CL	0.40	0.49	0.37	0.44	0.33	0.39
437	SN68/Arg 10mm/10mm	0.394, 0.394	0.439	ARG	0.039(2)	ZF-S	N.G	0.61	16	CL	0.26	0.43	0.24	0.38	0.22	0.35
438	SNX62/Arg 10mm/10mm	0.394, 0.394	0.439	ARG	0.020(2)	ZF-S	N.G	0.61	16	CL	0.20	0.39	0.18	0.35	0.17	0.31
439	CIG366/Arg 8mm/8mm	0.315, 0.315	0.625	ARG	0.020(2)	ZF-S	N.G	0.61	16	CL	0.20	0.40	0.19	0.36	0.17	0.32
440	SN68/Arg 10mm/6mm	0.394, 0.236	0.625	ARG	0.039(2)	ZF-S	N.G	0.62	16	CL	0.26	0.43	0.24	0.39	0.22	0.35
	SN68/Arg 6mm/10mm	0.236, 0.394	0.625	ARG	0.039(2)	ZF-S	N.G	0.62	16	CL	0.27	0.43	0.25	0.39	0.23	0.35
441	SN68-IS20/Arg 10mm/6mm	0.394, 0.236	0.625	ARG	0.039(2) 0.198(4)	ZF-S	N.G	0.59	16	CL	0.26	0.42	0.24	0.38	0.22	0.34
442	SNX62/Arg 10mm/6mm	0.394, 0.236	0.625	ARG	0.020(2)	ZF-S	N.G	0.61	16	CL	0.20	0.39	0.18	0.35	0.17	0.32
	SNX62/Arg 6mm/10mm	0.236, 0.394	0.625	ARG	0.020(2)	ZF-S	N.G	0.61	16	CL	0.20	0.39	0.18	0.36	0.17	0.32
443	SNX62-IS20/Arg 10mm/6mm	0.394, 0.236	0.625	ARG	0.020(2) 0.198(4)	ZF-S	N.G	0.58	16	CL	0.19	0.38	0.18	0.34	0.16	0.31
444	CIG366/Arg 8mm/6mm	0.315, 0.236	0.688	ARG	0.020(2)	ZF-S	N.G	0.61	16	CL	0.20	0.40	0.19	0.36	0.17	0.33
	CIG366/Arg 6mm/8mm	0.236, 0.315	0.688	ARG	0.020(2)	ZF-S	N.G	0.61	16	CL	0.20	0.40	0.19	0.36	0.17	0.32
445	CIG366-i89/Arg 8mm/6mm	0.315, 0.236	0.688	ARG	0.020(2) 0.149(4)	ZF-S	N.G	0.58	16	CL	0.20	0.39	0.18	0.35	0.17	0.32
446	SN68/Arg 10mm/10mm	0.394, 0.394	0.688	ARG	0.039(2)	ZF-S	N.G	0.61	16	CL	0.26	0.43	0.24	0.38	0.22	0.35
447	SNX62/Arg 10mm/10mm	0.394, 0.394	0.688	ARG	0.020(2)	ZF-S	N.G	0.61	16	CL	0.20	0.39	0.18	0.35	0.17	0.31
448	CIG366/Arg 8mm/8mm	0.315, 0.315	0.787	ARG	0.020(2)	ZF-S	N.G	0.61	16	CL	0.20	0.40	0.19	0.36	0.17	0.32
449	SN68/Arg 10mm/6mm	0.394, 0.236	0.787	ARG	0.039(2)	ZF-S	N.G	0.62	16	CL	0.26	0.43	0.24	0.39	0.22	0.35
	SN68/Arg 6mm/10mm	0.236, 0.394	0.787	ARG	0.039(2)	ZF-S	N.G	0.62	16	CL	0.27	0.43	0.25	0.39	0.23	0.35
450	SN68-IS20/Arg 10mm/6mm	0.394, 0.236	0.787	ARG	0.039(2) 0.198(4)	ZF-S	N.G	0.59	16	CL	0.26	0.42	0.24	0.38	0.22	0.34
451	SNX62/Arg 10mm/6mm	0.394, 0.236	0.787	ARG	0.020(2)	ZF-S	N.G	0.61	16	CL	0.20	0.39	0.18	0.35	0.17	0.32

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, Sec. 4.4)

NFRC Product Line Summary (2020 Std)

Simulation Report # FLE21011-SS

Manufacturer: Fleetwood Windows & Doors

Product Line ID: FLE-M-98

Simulation Orig Report Date: 12/21/2021

Series/Model: (Formerly Series 250-T) Series 350-T Hopper (N-TB)

Model Size: 1500mm x 600mm

Simulation Revision Date: 12/21/2021

Operator Type: Projected-Awning

Frame Abs.: 0.3

Report Type: Recertification

Frame Type: Aluminum (Non-thermal) (AL)

Simulation Lab Code: SWWC

Sash Type: Aluminum (Non-thermal) (AL)

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
	SNX62/Arg 6mm/10mm	0.236, 0.394	0.787	ARG	0.020(2)	ZF-S	N,G	0.61	16	CL	0.20	0.39	0.18	0.36	0.17	0.32
452	SNX62-IS20/Arg 10mm/6mm	0.394, 0.236	0.787	ARG	0.020(2) 0.198(4)	ZF-S	N,G	0.58	16	CL	0.19	0.38	0.18	0.34	0.16	0.31
453	CIG366/Arg 8mm/6mm	0.315, 0.236	0.787	ARG	0.020(2)	ZF-S	N,G	0.61	16	CL	0.20	0.40	0.19	0.36	0.17	0.33
	CIG366/Arg 6mm/8mm	0.236, 0.315	0.787	ARG	0.020(2)	ZF-S	N,G	0.61	16	CL	0.20	0.40	0.19	0.36	0.17	0.32
454	CIG366-i89/Arg 8mm/6mm	0.315, 0.236	0.787	ARG	0.020(2) 0.149(4)	ZF-S	N,G	0.58	16	CL	0.20	0.39	0.18	0.35	0.17	0.32

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, Sec. 4.4)

Manufacturer: Fleetwood Windows & Doors

Contact: Joe Zammit

Address: 1 Fleetwood Way
Corona, CA 92879

Phone: 951-279-1070

**RECERTIFICATION
REPORT**

Model/Series: (Formerly Series 250-T) Series 350-T Hopper (N-TB)

Operator Type: Projected-Awning

Frame Type: Aluminum (Non-thermal) (AL)

Sash Type: Aluminum (Non-thermal) (AL)

WESTLab Report No.:
FLE21011-SS

WESTLab Report Date:
12/21/2021

Revision/Addendum Date:
12/21/2021

NFRC Product Line ID:
FLE-M-98

Report Type:
Recertification

Baseline Product for U-Factor Validation Testing:

Description: No Validation Unit required. This product validates with the FLE-M-90 (Formerly Series 250-T) Series 350-T Casement (OG). Please see WESTLab report FLE21007-SS for validation product details.

Simulated U-factor:

Test Size (mm): x

Physical Test Tolerance: to

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 500-2020, 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 Certification Authorization Report (CAR) 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.