

NFRC Product Line Summary (2020 Std)

Simulation Report # FLE21010-SS

Manufacturer: Fleetwood Windows & Doors
Series/Model: (Formerly Series 250-T) Series 350-T Hopper (TB)
Operator Type: Projected-Awning
Frame Type: Aluminum w/ Thermal Breaks - All Members (AT)
Sash Type: Aluminum w/ Thermal Breaks - All Members (AT)

Product Line ID: FLE-M-91
Model Size: 1500mm x 600mm
Frame Abs.: 0.3

Simulation Orig Report Date: 12/21/2021

Simulation Revision Date: 12/21/2021

Report Type: Recertification

Simulation Lab Code: SWWC

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	Clear/Air 5mm	0.197, 0.197	0.601	AIR		A1-D	N,G	0.65	30	CL	0.51	0.52	0.47	0.47	0.42	0.42
314	Clear/Air 6mm	0.236, 0.236	0.538	AIR		A1-D	N,G	0.65	30	CL	0.50	0.52	0.46	0.47	0.41	0.42
315	Clear/Arg 5mm	0.197, 0.197	0.601	ARG		A1-D	N,G	0.64	30	CL	0.51	0.52	0.47	0.47	0.42	0.42
316	Clear/Arg 6mm	0.236, 0.236	0.538	ARG		A1-D	N,G	0.64	30	CL	0.50	0.52	0.46	0.47	0.41	0.42
317	SN68/Air 5mm	0.197, 0.197	0.601	AIR	0.039(2)	A1-D	N,G	0.55	31	CL	0.27	0.44	0.24	0.40	0.22	0.36
	sBZ-SN68/Air 5mm	0.197, 0.197	0.601	AIR	0.039(3)	A1-D	N,G	0.55	31	BZ	0.24	0.29	0.22	0.26	0.20	0.23
318	SN68/Air 6mm	0.236, 0.236	0.538	AIR	0.039(2)	A1-D	N,G	0.55	31	CL	0.26	0.44	0.24	0.40	0.22	0.36
	sBZ-SN68/Air 6mm	0.236, 0.236	0.538	AIR	0.039(3)	A1-D	N,G	0.55	31	BZ	0.22	0.26	0.21	0.24	0.19	0.21
319	SN68/Arg 5mm	0.197, 0.197	0.601	ARG	0.039(2)	A1-D	N,G	0.52	31	CL	0.26	0.44	0.24	0.40	0.22	0.36
320	SN68/Arg 6mm	0.236, 0.236	0.538	ARG	0.039(2)	A1-D	N,G	0.52	31	CL	0.26	0.44	0.24	0.40	0.22	0.36
321	SNX62/Air 5mm	0.197, 0.197	0.601	AIR	0.020(2)	A1-D	N,G	0.54	31	CL	0.19	0.40	0.18	0.36	0.16	0.33
322	SNX62/Air 6mm	0.236, 0.236	0.538	AIR	0.020(2)	A1-D	N,G	0.54	31	CL	0.19	0.40	0.18	0.36	0.16	0.32
323	SNX62/Arg 5mm	0.197, 0.197	0.601	ARG	0.020(2)	A1-D	N,G	0.52	31	CL	0.19	0.40	0.17	0.36	0.16	0.33
324	SNX62/Arg 6mm	0.236, 0.236	0.538	ARG	0.020(2)	A1-D	N,G	0.51	31	CL	0.19	0.40	0.18	0.36	0.16	0.32
325	SN68/Air/Ctr/Air/SN68 5mm	0.197, 0.197, 0.197	0.444, 0.444	AIR	0.039(2) 0.039(5)	A1-D	N,G	0.45	29	CL	0.23	0.34	0.21	0.31	0.19	0.27
326	SN68/Arg/Ctr/Arg/SN68 5mm	0.197, 0.197, 0.197	0.444, 0.444	ARG	0.039(2) 0.039(5)	A1-D	N,G	0.43	29	CL	0.23	0.34	0.21	0.31	0.19	0.27
327	SNX62/Air/Ctr/Air/SNX62 5mm	0.197, 0.197, 0.197	0.444, 0.444	AIR	0.020(2) 0.020(5)	A1-D	N,G	0.45	29	CL	0.17	0.28	0.16	0.25	0.14	0.23
328	SNX62/Arg/Ctr/Arg/SNX62 5mm	0.197, 0.197, 0.197	0.444, 0.444	ARG	0.020(2) 0.020(5)	A1-D	N,G	0.43	30	CL	0.17	0.28	0.16	0.25	0.14	0.23
329	SN68/Air/Ctr/Air/SN68 6mm	0.236, 0.236, 0.236	0.397, 0.397	AIR	0.039(2) 0.039(5)	A1-D	N	0.46	29	CL	0.23	0.33				
330	SN68/Arg/Ctr/Arg/SN68 6mm	0.236, 0.236, 0.236	0.397, 0.397	ARG	0.039(2) 0.039(5)	A1-D	N	0.44	30	CL	0.23	0.33				
331	SN68/Air/Ctr/Air/SN68 6mm	0.236, 0.236, 0.236	0.397, 0.397	AIR	0.039(2) 0.039(5)	A1-D	G	0.46	29	CL			0.21	0.30		
332	SN68/Arg/Ctr/Arg/SN68 6mm	0.236, 0.236, 0.236	0.397, 0.397	ARG	0.039(2) 0.039(5)	A1-D	G	0.44	30	CL			0.21	0.30		
333	SN68/Air/Ctr/Air/SN68 6mm	0.236, 0.236, 0.236	0.397, 0.397	AIR	0.039(2) 0.039(5)	A1-D	G	0.46	29	CL					0.19	0.27
334	SN68/Arg/Ctr/Arg/SN68 6mm	0.236, 0.236, 0.236	0.397, 0.397	ARG	0.039(2) 0.039(5)	A1-D	G	0.44	30	CL					0.19	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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Operator Type: Projected-Awning
Frame Type: Aluminum w/ Thermal Breaks - All Members (AT)
Sash Type: Aluminum w/ Thermal Breaks - All Members (AT)

Product Line ID: FLE-M-91
Model Size: 1500mm x 600mm
Frame Abs.: 0.3

Simulation Orig Report Date: 12/21/2021
Simulation Revision Date: 12/21/2021
Report Type: Recertification
Simulation Lab Code: SWWC

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
335	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	0.46	29	CL	0.17	0.28				
336	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	0.43	30	CL	0.17	0.28				
337	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	0.46	29	CL			0.16	0.25		
338	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	0.43	30	CL			0.15	0.25		
339	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	0.46	29	CL					0.14	0.22
340	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	0.43	30	CL					0.14	0.22
341	SN68/Air 5mm	0.197, 0.197	0.596	AIR	0.039(2)	TS-D	N,G	0.53	33	CL	0.27	0.44	0.24	0.40	0.22	0.36
342	SN68/Air 6mm	0.236, 0.236	0.534	AIR	0.039(2)	TS-D	N,G	0.53	33	CL	0.26	0.44	0.24	0.40	0.22	0.36
343	SN68/Arg 5mm	0.197, 0.197	0.596	ARG	0.039(2)	TS-D	N,G	0.50	33	CL	0.26	0.44	0.24	0.40	0.22	0.36
344	SN68/Arg 6mm	0.236, 0.236	0.534	ARG	0.039(2)	TS-D	N,G	0.50	33	CL	0.26	0.44	0.24	0.40	0.22	0.36
345	SNX62/Air 5mm	0.197, 0.197	0.596	AIR	0.020(2)	TS-D	N,G	0.53	33	CL	0.19	0.40	0.18	0.36	0.16	0.33
346	SNX62/Air 6mm	0.236, 0.236	0.534	AIR	0.020(2)	TS-D	N,G	0.53	33	CL	0.19	0.40	0.18	0.36	0.16	0.32
347	SNX62/Arg 5mm	0.197, 0.197	0.596	ARG	0.020(2)	TS-D	N,G	0.50	33	CL	0.19	0.40	0.17	0.36	0.16	0.33
348	SNX62/Arg 6mm	0.236, 0.236	0.534	ARG	0.020(2)	TS-D	N,G	0.50	33	CL	0.19	0.40	0.18	0.36	0.16	0.32
349	SN68-IS20/Air 5mm	0.197, 0.197	0.596	AIR	0.039(2) 0.198(4)	TS-D	N,G	0.50	32	CL	0.26	0.43	0.24	0.39	0.22	0.35
350	SN68-IS20/Air 6mm	0.236, 0.236	0.534	AIR	0.039(2) 0.198(4)	TS-D	N,G	0.50	32	CL	0.26	0.43	0.24	0.38	0.22	0.34
351	SN68-IS20/Arg 5mm	0.197, 0.197	0.596	ARG	0.039(2) 0.198(4)	TS-D	N,G	0.48	33	CL	0.26	0.43	0.24	0.39	0.22	0.35
352	SN68-IS20/Arg 6mm	0.236, 0.236	0.534	ARG	0.039(2) 0.198(4)	TS-D	N,G	0.48	32	CL	0.25	0.43	0.23	0.38	0.21	0.34
353	SNX62-IS20/Air 5mm	0.197, 0.197	0.596	AIR	0.020(2) 0.198(4)	TS-D	N,G	0.50	32	CL	0.19	0.39	0.17	0.35	0.16	0.32
354	SNX62-IS20/Air 6mm	0.236, 0.236	0.534	AIR	0.020(2) 0.198(4)	TS-D	N,G	0.49	32	CL	0.19	0.39	0.17	0.35	0.16	0.31
355	SNX62-IS20/Arg 5mm	0.197, 0.197	0.596	ARG	0.020(2) 0.198(4)	TS-D	N,G	0.47	33	CL	0.18	0.39	0.17	0.35	0.16	0.32
356	SNX62-IS20/Arg 6mm	0.236, 0.236	0.534	ARG	0.020(2) 0.198(4)	TS-D	N,G	0.47	32	CL	0.18	0.39	0.17	0.35	0.16	0.31
357	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	0.44	31	CL	0.23	0.34	0.21	0.31	0.19	0.27
358	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	0.42	31	CL	0.23	0.34	0.21	0.31	0.19	0.27

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											SHGC	VT	SHGC	VT	SHGC	VT
359	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	0.44	31	CL	0.17	0.28	0.16	0.25	0.14	0.23
360	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	0.41	31	CL	0.17	0.28	0.16	0.25	0.14	0.23
361	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	0.42	30	CL	0.21	0.33	0.19	0.30	0.17	0.27
362	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	0.40	30	CL	0.21	0.33	0.19	0.30	0.17	0.27
363	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	0.42	30	CL	0.15	0.27	0.14	0.25	0.13	0.22
364	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	0.40	30	CL	0.15	0.27	0.14	0.25	0.13	0.22
365	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	0.44	31	CL	0.23	0.33				
366	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	0.42	31	CL	0.23	0.33				
367	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	0.45	31	CL			0.21	0.30		
368	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	0.42	31	CL			0.21	0.30		
369	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	0.45	31	CL					0.19	0.27
370	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	0.42	31	CL					0.19	0.27
371	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	0.44	31	CL	0.17	0.28				
372	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	0.42	31	CL	0.17	0.28				
373	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	0.44	31	CL			0.16	0.25		
374	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	0.42	31	CL			0.15	0.25		
375	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	0.44	31	CL					0.14	0.22
376	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	0.42	31	CL					0.14	0.22
377	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	0.43	30	CL	0.20	0.32				
378	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	0.41	30	CL	0.20	0.32				
379	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	0.43	30	CL			0.19	0.29		
380	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	0.41	30	CL			0.19	0.29		
381	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	0.43	30	CL					0.17	0.26
382	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	0.41	30	CL					0.17	0.26

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Operator Type: Projected-Awning
Frame Type: Aluminum w/ Thermal Breaks - All Members (AT)
Sash Type: Aluminum w/ Thermal Breaks - All Members (AT)

Product Line ID: FLE-M-91
Model Size: 1500mm x 600mm
Frame Abs.: 0.3

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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
383	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	0.42	30	CL	0.15	0.27				
384	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	0.40	30	CL	0.15	0.27				
385	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	0.43	30	CL			0.14	0.24		
386	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	0.41	30	CL			0.14	0.24		
387	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	0.43	30	CL					0.13	0.22
388	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	0.41	30	CL					0.13	0.22
389	CIG272-i89/Air 5mm	0.197, 0.197	0.632	AIR	0.042(2) 0.149(4)	SS-D	N,G	0.49	32	CL	0.28	0.45	0.25	0.40	0.23	0.36
390	CIG272-i89/Air 6mm	0.236, 0.236	0.522	AIR	0.042(2) 0.149(4)	SS-D	N,G	0.49	32	CL	0.27	0.44	0.25	0.40	0.23	0.36
391	CIG272-i89/Arg 5mm	0.197, 0.197	0.632	ARG	0.042(2) 0.149(4)	SS-D	N,G	0.47	33	CL	0.28	0.45	0.25	0.40	0.23	0.36
392	CIG272-i89/Arg 6mm	0.236, 0.236	0.522	ARG	0.042(2) 0.149(4)	SS-D	N,G	0.47	33	CL	0.27	0.44	0.25	0.40	0.23	0.36
393	CIG366-i89/Air 5mm	0.197, 0.197	0.632	AIR	0.020(2) 0.149(4)	SS-D	N,G	0.49	32	CL	0.19	0.40	0.18	0.36	0.16	0.33
394	CIG366-i89/Air 6mm	0.236, 0.236	0.522	AIR	0.020(2) 0.149(4)	SS-D	N,G	0.49	32	CL	0.19	0.40	0.18	0.36	0.17	0.32
395	CIG366-i89/Arg 5mm	0.197, 0.197	0.632	ARG	0.020(2) 0.149(4)	SS-D	N,G	0.47	33	CL	0.19	0.40	0.18	0.36	0.16	0.33
396	CIG366-i89/Arg 6mm	0.236, 0.236	0.522	ARG	0.020(2) 0.149(4)	SS-D	N,G	0.47	33	CL	0.19	0.40	0.18	0.36	0.16	0.32
397	CIG180-i89/Arg 5mm	0.197, 0.197	0.632	ARG	0.068(2) 0.149(4)	SS-D	N,G	0.48	32	CL	0.41	0.49	0.37	0.44	0.34	0.40
398	CIG180-i89/Arg 6mm	0.236, 0.236	0.522	ARG	0.068(2) 0.149(4)	SS-D	N,G	0.48	33	CL	0.40	0.49	0.36	0.44	0.33	0.39
399	CIG272/Arg 5mm	0.197, 0.197	0.632	ARG	0.042(2)	SS-D	N,G	0.50	33	CL	0.28	0.46	0.26	0.41	0.24	0.37
400	CIG272/Arg 6mm	0.236, 0.236	0.522	ARG	0.042(2)	SS-D	N,G	0.50	33	CL	0.28	0.45	0.26	0.41	0.23	0.37
401	CIG366/Arg 5mm	0.197, 0.197	0.632	ARG	0.020(2)	SS-D	N,G	0.50	33	CL	0.20	0.41	0.18	0.37	0.17	0.33
402	CIG366/Arg 6mm	0.236, 0.236	0.522	ARG	0.020(2)	SS-D	N,G	0.49	33	CL	0.20	0.41	0.18	0.37	0.17	0.33
403	CIG180/Arg 5mm	0.197, 0.197	0.632	ARG	0.068(2)	SS-D	N,G	0.51	33	CL	0.42	0.50	0.38	0.45	0.35	0.41
404	CIG180/Arg 6mm	0.236, 0.236	0.522	ARG	0.068(2)	SS-D	N,G	0.50	33	CL	0.41	0.50	0.37	0.45	0.34	0.40
405	CIG272/Arg/Clr/Arg/CIG180 5mm	0.197, 0.197, 0.197	0.462, 0.462	ARG	0.042(2) 0.068(5)	SS-D	N,G	0.41	31	CL	0.25	0.40	0.23	0.36	0.21	0.32
406	CIG180/Arg/Clr/Arg/CIG180 5mm	0.197, 0.197, 0.197	0.462, 0.462	ARG	0.068(2) 0.068(5)	SS-D	N,G	0.41	31	CL	0.37	0.44	0.33	0.40	0.30	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 # FLE21010-SS

Manufacturer: Fleetwood Windows & Doors
Series/Model: (Formerly Series 250-T) Series 350-T Hopper (TB)
Operator Type: Projected-Awning
Frame Type: Aluminum w/ Thermal Breaks - All Members (AT)
Sash Type: Aluminum w/ Thermal Breaks - All Members (AT)

Product Line ID: FLE-M-91
Model Size: 1500mm x 600mm
Frame Abs.: 0.3

Simulation Orig Report Date: 12/21/2021
Simulation Revision Date: 12/21/2021
Report Type: Recertification
Simulation Lab Code: SWWC

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
407	CIG272/Arg/CIG180/Arg/CIGi89 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	0.40	31	CL	0.24	0.39	0.22	0.35	0.21	0.31
408	CIG180/Arg/CIG180/Arg/CIGi89 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	0.40	31	CL	0.35	0.43	0.32	0.39	0.29	0.35
409	CIG272/Arg/Ctr/Arg/CIG180 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.042(2) 0.068(5)	SS-D	N	0.42	31	CL	0.25	0.39				
410	CIG272/Arg/Ctr/Arg/CIG180 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.042(2) 0.068(5)	SS-D	G	0.42	31	CL			0.23	0.35		
411	CIG272/Arg/Ctr/Arg/CIG180 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.042(2) 0.068(5)	SS-D	G	0.42	31	CL					0.21	0.32
412	CIG180/Arg/Ctr/Arg/CIG180 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.068(2) 0.068(5)	SS-D	N	0.42	31	CL	0.35	0.43				
413	CIG180/Arg/Ctr/Arg/CIG180 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.068(2) 0.068(5)	SS-D	G	0.43	31	CL			0.32	0.39		
414	CIG180/Arg/Ctr/Arg/CIG180 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.068(2) 0.068(5)	SS-D	G	0.43	31	CL					0.29	0.35
415	CIG272/Arg/CIG180/Arg/CIGi89 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.042(2) 0.068(4) 0.149(6)	SS-D	N	0.41	30	CL	0.24	0.38				
416	CIG272/Arg/CIG180/Arg/CIGi89 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.042(2) 0.068(4) 0.149(6)	SS-D	G	0.41	30	CL			0.22	0.34		
417	CIG272/Arg/CIG180/Arg/CIGi89 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.042(2) 0.068(4) 0.149(6)	SS-D	G	0.41	30	CL					0.20	0.31
418	CIG180/Arg/CIG180/Arg/CIGi89 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.068(2) 0.068(4) 0.149(6)	SS-D	N	0.41	30	CL	0.34	0.42				
419	CIG180/Arg/CIG180/Arg/CIGi89 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.068(2) 0.068(4) 0.149(6)	SS-D	G	0.41	30	CL			0.31	0.38		
420	CIG180/Arg/CIG180/Arg/CIGi89 6mm	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.068(2) 0.068(4) 0.149(6)	SS-D	G	0.41	30	CL					0.28	0.34
421	SN68/Arg 5mm	0.197, 0.197	0.625	ARG	0.039(2)	ZF-S	N,G	0.50	34	CL	0.26	0.44	0.24	0.40	0.22	0.36
422	SN68/Arg 6mm	0.236, 0.236	0.500	ARG	0.039(2)	ZF-S	N,G	0.50	34	CL	0.26	0.44	0.24	0.40	0.22	0.36
423	SNX62/Arg 5mm	0.197, 0.197	0.625	ARG	0.020(2)	ZF-S	N,G	0.49	34	CL	0.19	0.40	0.17	0.36	0.16	0.33
424	SNX62/Arg 6mm	0.236, 0.236	0.500	ARG	0.020(2)	ZF-S	N,G	0.49	34	CL	0.19	0.40	0.18	0.36	0.16	0.32
425	SN68-IS20/Arg 5mm	0.197, 0.197	0.625	ARG	0.039(2) 0.198(4)	ZF-S	N,G	0.47	33	CL	0.26	0.43	0.24	0.39	0.22	0.35
426	SN68-IS20/Arg 6mm	0.236, 0.236	0.500	ARG	0.039(2) 0.198(4)	ZF-S	N,G	0.47	33	CL	0.25	0.43	0.23	0.38	0.21	0.34
427	SNX62-IS20/Arg 5mm	0.197, 0.197	0.625	ARG	0.020(2) 0.198(4)	ZF-S	N,G	0.47	33	CL	0.18	0.39	0.17	0.35	0.16	0.32
428	SNX62-IS20/Arg 6mm	0.236, 0.236	0.500	ARG	0.020(2) 0.198(4)	ZF-S	N,G	0.47	33	CL	0.19	0.39	0.17	0.35	0.16	0.31
429	CIG366-i89/Arg 5mm	0.197, 0.197	0.625	ARG	0.020(2) 0.149(4)	ZF-S	N,G	0.47	33	CL	0.19	0.40	0.18	0.36	0.16	0.33
430	CIG366-i89/Arg 6mm	0.236, 0.236	0.500	ARG	0.020(2) 0.149(4)	ZF-S	N,G	0.46	33	CL	0.19	0.40	0.18	0.36	0.16	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 # FLE21010-SS

Manufacturer: Fleetwood Windows & Doors
Series/Model: (Formerly Series 250-T) Series 350-T Hopper (TB)
Operator Type: Projected-Awning
Frame Type: Aluminum w/ Thermal Breaks - All Members (AT)
Sash Type: Aluminum w/ Thermal Breaks - All Members (AT)

Product Line ID: FLE-M-91
Model Size: 1500mm x 600mm
Frame Abs.: 0.3

Simulation Orig Report Date: 12/21/2021

Simulation Revision Date: 12/21/2021

Report Type: Recertification

Simulation Lab Code: SWWC

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
431	CIG366/Arg 5mm	0.197, 0.197	0.625	ARG	0.020(2)	ZF-S	N,G	0.49	34	CL	0.20	0.41	0.18	0.37	0.17	0.33
432	CIG366/Arg 6mm	0.236, 0.236	0.500	ARG	0.020(2)	ZF-S	N,G	0.49	34	CL	0.20	0.41	0.18	0.37	0.17	0.33
433	SN68/Arg/Ctr/Arg/SN68 5mm	0.197, 0.197, 0.197	0.438, 0.438	ARG	0.039(2) 0.039(5)	ZF-S	N,G	0.41	31	CL	0.23	0.34	0.21	0.31	0.19	0.27
434	SNX62/Arg/Ctr/Arg/SNX62 5mm	0.197, 0.197, 0.197	0.438, 0.438	ARG	0.020(2) 0.020(5)	ZF-S	N,G	0.41	32	CL	0.17	0.28	0.16	0.25	0.14	0.23
435	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	0.40	31	CL	0.21	0.33	0.19	0.30	0.17	0.27
436	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	0.40	31	CL	0.15	0.27	0.14	0.25	0.13	0.22
437	SN68/Arg/Ctr/Arg/SN68 6mm	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.039(2) 0.039(5)	ZF-S	N	0.42	31	CL	0.23	0.33				
438	SN68/Arg/Ctr/Arg/SN68 6mm	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.039(2) 0.039(5)	ZF-S	G	0.43	31	CL			0.21	0.30		
439	SN68/Arg/Ctr/Arg/SN68 6mm	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.039(2) 0.039(5)	ZF-S	G	0.43	31	CL					0.19	0.27
440	SNX62/Arg/Ctr/Arg/SNX62 6mm	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.020(2) 0.020(5)	ZF-S	N	0.42	31	CL	0.17	0.28				
441	SNX62/Arg/Ctr/Arg/SNX62 6mm	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.020(2) 0.020(5)	ZF-S	G	0.42	31	CL			0.16	0.25		
442	SNX62/Arg/Ctr/Arg/SNX62 6mm	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.020(2) 0.020(5)	ZF-S	G	0.42	31	CL					0.14	0.22
443	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	0.41	31	CL	0.20	0.32				
444	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	0.41	31	CL			0.19	0.29		
445	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	0.41	31	CL					0.17	0.26
446	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	0.40	31	CL	0.15	0.27				
447	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	0.41	31	CL			0.14	0.24		
448	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	0.41	31	CL					0.13	0.22
449	Clear/Air 10mm/10mm	0.394, 0.394	0.476	AIR		A1-D	N,G	0.64	28	CL	0.47	0.51	0.43	0.46	0.39	0.41
450	SN68/Air 10mm/10mm	0.394, 0.394	0.476	AIR	0.039(2)	A1-D	N,G	0.54	29	CL	0.26	0.43	0.24	0.38	0.22	0.35
	sBZ-SN68/Air 10mm/10mm	0.394, 0.394	0.476	AIR	0.039(3)	A1-D	N,G	0.54	29	BZ	0.18	0.18	0.17	0.16	0.16	0.15
451	SN68/Arg 10mm/10mm	0.394, 0.394	0.476	ARG	0.039(2)	A1-D	N,G	0.51	29	CL	0.26	0.43	0.24	0.38	0.22	0.35
452	SNX62/Air 10mm/10mm	0.394, 0.394	0.476	AIR	0.020(2)	A1-D	N,G	0.54	29	CL	0.20	0.39	0.18	0.35	0.17	0.31
453	SNX62/Arg 10mm/10mm	0.394, 0.394	0.476	ARG	0.020(2)	A1-D	N,G	0.51	29	CL	0.19	0.39	0.18	0.35	0.16	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 # FLE21010-SS

Manufacturer: Fleetwood Windows & Doors
Series/Model: (Formerly Series 250-T) Series 350-T Hopper (TB)
Operator Type: Projected-Awning
Frame Type: Aluminum w/ Thermal Breaks - All Members (AT)
Sash Type: Aluminum w/ Thermal Breaks - All Members (AT)

Product Line ID: FLE-M-91
Model Size: 1500mm x 600mm
Frame Abs.: 0.3

Simulation Orig Report Date: 12/21/2021

Simulation Revision Date: 12/21/2021

Report Type: Recertification

Simulation Lab Code: SWWC

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
454	Clear/Air 10mm/6mm	0.394, 0.236	0.632	AIR		A1-D	N,G	0.65	28	CL	0.48	0.51	0.43	0.46	0.39	0.41
	Clear/Air 6mm/10mm	0.236, 0.394	0.632	AIR		A1-D	N,G	0.65	28	CL	0.49	0.51	0.45	0.46	0.41	0.41
455	SN68/Air 10mm/6mm	0.394, 0.236	0.632	AIR	0.039(2)	A1-D	N,G	0.55	28	CL	0.26	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	0.55	28	CL	0.26	0.43	0.24	0.39	0.22	0.35
	sBZ-SN68/Air 6mm/10mm	0.236, 0.394	0.632	AIR	0.039(3)	A1-D	N,G	0.55	28	BZ	0.22	0.26	0.20	0.23	0.19	0.21
456	SN68/Arg 10mm/6mm	0.394, 0.236	0.632	ARG	0.039(2)	A1-D	N,G	0.52	28	CL	0.26	0.43	0.23	0.39	0.21	0.35
	SN68/Arg 6mm/10mm	0.236, 0.394	0.632	ARG	0.039(2)	A1-D	N,G	0.52	28	CL	0.26	0.43	0.24	0.39	0.22	0.35
457	SNX62/Air 10mm/6mm	0.394, 0.236	0.632	AIR	0.020(2)	A1-D	N,G	0.54	28	CL	0.19	0.39	0.18	0.35	0.16	0.32
	SNX62/Air 6mm/10mm	0.236, 0.394	0.632	AIR	0.020(2)	A1-D	N,G	0.54	28	CL	0.19	0.39	0.18	0.36	0.16	0.32
458	SNX62/Arg 10mm/6mm	0.394, 0.236	0.632	ARG	0.020(2)	A1-D	N,G	0.52	28	CL	0.19	0.39	0.17	0.35	0.16	0.32
	SNX62/Arg 6mm/10mm	0.236, 0.394	0.632	ARG	0.020(2)	A1-D	N,G	0.52	28	CL	0.19	0.39	0.17	0.36	0.16	0.32
459	Clear/Air 10mm/10mm	0.394, 0.394	0.726	AIR		A1-D	N,G	0.64	28	CL	0.47	0.51	0.43	0.46	0.39	0.41
460	SN68/Air 10mm/10mm	0.394, 0.394	0.726	AIR	0.039(2)	A1-D	N,G	0.54	28	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	0.54	28	BZ	0.18	0.18	0.17	0.16	0.15	0.15
461	SN68/Arg 10mm/10mm	0.394, 0.394	0.726	ARG	0.039(2)	A1-D	N,G	0.51	28	CL	0.25	0.43	0.23	0.38	0.21	0.35
462	SNX62/Air 10mm/10mm	0.394, 0.394	0.726	AIR	0.020(2)	A1-D	N,G	0.54	28	CL	0.19	0.39	0.18	0.35	0.16	0.31
463	SNX62/Arg 10mm/10mm	0.394, 0.394	0.726	ARG	0.020(2)	A1-D	N,G	0.51	28	CL	0.19	0.39	0.17	0.35	0.16	0.31
464	Clear/Air 10mm/6mm	0.394, 0.236	0.882	AIR		A1-D	N,G	0.64	27	CL	0.48	0.51	0.43	0.46	0.39	0.41
	Clear/Air 6mm/10mm	0.236, 0.394	0.882	AIR		A1-D	N,G	0.64	27	CL	0.49	0.51	0.45	0.46	0.41	0.41
465	SN68/Air 10mm/6mm	0.394, 0.236	0.882	AIR	0.039(2)	A1-D	N,G	0.54	28	CL	0.26	0.43	0.24	0.39	0.22	0.35
	SN68/Air 6mm/10mm	0.236, 0.394	0.882	AIR	0.039(2)	A1-D	N,G	0.54	28	CL	0.26	0.43	0.24	0.39	0.22	0.35
	sBZ-SN68/Air 10mm/6mm	0.394, 0.236	0.882	AIR	0.039(3)	A1-D	N,G	0.54	28	BZ	0.18	0.18	0.17	0.17	0.15	0.15
466	SN68/Arg 10mm/6mm	0.394, 0.236	0.882	ARG	0.039(2)	A1-D	N,G	0.52	28	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	0.52	28	CL	0.26	0.43	0.24	0.39	0.22	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 # FLE21010-SS

Manufacturer: Fleetwood Windows & Doors
Series/Model: (Formerly Series 250-T) Series 350-T Hopper (TB)
Operator Type: Projected-Awning
Frame Type: Aluminum w/ Thermal Breaks - All Members (AT)
Sash Type: Aluminum w/ Thermal Breaks - All Members (AT)

Product Line ID: FLE-M-91
Model Size: 1500mm x 600mm
Frame Abs.: 0.3

Simulation Orig Report Date: 12/21/2021

Simulation Revision Date: 12/21/2021

Report Type: Recertification

Simulation Lab Code: SWWC

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
467	SNX62/Air 10mm/6mm	0.394, 0.236	0.882	AIR	0.020(2)	A1-D	N,G	0.54	28	CL	0.19	0.39	0.18	0.35	0.17	0.32
	SNX62/Air 6mm/10mm	0.236, 0.394	0.882	AIR	0.020(2)	A1-D	N,G	0.54	28	CL	0.19	0.39	0.18	0.36	0.16	0.32
468	SNX62/Arg 10mm/6mm	0.394, 0.236	0.882	ARG	0.020(2)	A1-D	N,G	0.51	28	CL	0.19	0.39	0.18	0.35	0.16	0.32
	SNX62/Arg 6mm/10mm	0.236, 0.394	0.882	ARG	0.020(2)	A1-D	N,G	0.51	28	CL	0.19	0.39	0.18	0.36	0.16	0.32
469	SN68/Air 10mm/10mm	0.394, 0.394	0.470	AIR	0.039(2)	TS-D	N,G	0.53	30	CL	0.26	0.43	0.24	0.38	0.22	0.35
470	SN68/Arg 10mm/10mm	0.394, 0.394	0.470	ARG	0.039(2)	TS-D	N,G	0.50	30	CL	0.26	0.43	0.24	0.38	0.22	0.35
471	SNX62/Air 10mm/10mm	0.394, 0.394	0.470	AIR	0.020(2)	TS-D	N,G	0.52	30	CL	0.20	0.39	0.18	0.35	0.17	0.31
472	SNX62/Arg 10mm/10mm	0.394, 0.394	0.470	ARG	0.020(2)	TS-D	N,G	0.49	30	CL	0.19	0.39	0.18	0.35	0.16	0.31
473	SN68/Air 10mm/6mm	0.394, 0.236	0.633	AIR	0.039(2)	TS-D	N,G	0.53	29	CL	0.26	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	0.53	29	CL	0.26	0.43	0.24	0.39	0.22	0.35
474	SN68/Arg 10mm/6mm	0.394, 0.236	0.633	ARG	0.039(2)	TS-D	N,G	0.50	30	CL	0.26	0.43	0.23	0.39	0.21	0.35
	SN68/Arg 6mm/10mm	0.236, 0.394	0.633	ARG	0.039(2)	TS-D	N,G	0.50	30	CL	0.26	0.43	0.24	0.39	0.22	0.35
475	SN68-IS20/Air 10mm/6mm	0.394, 0.236	0.633	AIR	0.039(2) 0.198(4)	TS-D	N,G	0.49	29	CL	0.25	0.42	0.23	0.38	0.21	0.34
476	SN68-IS20/Arg 10mm/6mm	0.394, 0.236	0.633	ARG	0.039(2) 0.198(4)	TS-D	N,G	0.47	29	CL	0.25	0.42	0.23	0.38	0.21	0.34
477	SNX62/Air 10mm/6mm	0.394, 0.236	0.633	AIR	0.020(2)	TS-D	N,G	0.53	29	CL	0.19	0.39	0.18	0.35	0.16	0.32
	SNX62/Air 6mm/10mm	0.236, 0.394	0.633	AIR	0.020(2)	TS-D	N,G	0.53	29	CL	0.19	0.39	0.18	0.36	0.16	0.32
478	SNX62/Arg 10mm/6mm	0.394, 0.236	0.633	ARG	0.020(2)	TS-D	N,G	0.50	30	CL	0.19	0.39	0.17	0.35	0.16	0.32
	SNX62/Arg 6mm/10mm	0.236, 0.394	0.633	ARG	0.020(2)	TS-D	N,G	0.50	30	CL	0.19	0.39	0.17	0.36	0.16	0.32
479	SNX62-IS20/Air 10mm/6mm	0.394, 0.236	0.633	AIR	0.020(2) 0.198(4)	TS-D	N,G	0.49	29	CL	0.19	0.38	0.17	0.34	0.16	0.31
480	SNX62-IS20/Arg 10mm/6mm	0.394, 0.236	0.633	ARG	0.020(2) 0.198(4)	TS-D	N,G	0.47	29	CL	0.18	0.38	0.17	0.34	0.16	0.31
481	SN68/Air 10mm/10mm	0.394, 0.394	0.714	AIR	0.039(2)	TS-D	N,G	0.52	30	CL	0.26	0.43	0.24	0.38	0.22	0.35
482	SN68/Arg 10mm/10mm	0.394, 0.394	0.714	ARG	0.039(2)	TS-D	N,G	0.50	30	CL	0.25	0.43	0.23	0.38	0.21	0.35
483	SNX62/Air 10mm/10mm	0.394, 0.394	0.714	AIR	0.020(2)	TS-D	N,G	0.52	30	CL	0.19	0.39	0.18	0.35	0.16	0.31
484	SNX62/Arg 10mm/10mm	0.394, 0.394	0.714	ARG	0.020(2)	TS-D	N,G	0.49	30	CL	0.19	0.39	0.17	0.35	0.16	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 # FLE21010-SS

Manufacturer: Fleetwood Windows & Doors
Series/Model: (Formerly Series 250-T) Series 350-T Hopper (TB)
Operator Type: Projected-Awning
Frame Type: Aluminum w/ Thermal Breaks - All Members (AT)
Sash Type: Aluminum w/ Thermal Breaks - All Members (AT)

Product Line ID: FLE-M-91
Model Size: 1500mm x 600mm
Frame Abs.: 0.3

Simulation Orig Report Date: 12/21/2021

Simulation Revision Date: 12/21/2021

Report Type: Recertification

Simulation Lab Code: SWWC

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
485	SN68/Air 10mm/6mm	0.394, 0.236	0.784	AIR	0.039(2)	TS-D	N,G	0.53	30	CL	0.26	0.43	0.24	0.39	0.22	0.35
	SN68/Air 6mm/10mm	0.236, 0.394	0.784	AIR	0.039(2)	TS-D	N,G	0.53	30	CL	0.26	0.43	0.24	0.39	0.22	0.35
486	SN68/Arg 10mm/6mm	0.394, 0.236	0.784	ARG	0.039(2)	TS-D	N,G	0.50	31	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	0.50	31	CL	0.26	0.43	0.24	0.39	0.22	0.35
487	SN68-IS20/Air 10mm/6mm	0.394, 0.236	0.784	AIR	0.039(2) 0.198(4)	TS-D	N,G	0.49	30	CL	0.25	0.42	0.23	0.38	0.21	0.34
488	SN68-IS20/Arg 10mm/6mm	0.394, 0.236	0.784	ARG	0.039(2) 0.198(4)	TS-D	N,G	0.47	30	CL	0.25	0.42	0.23	0.38	0.21	0.34
489	SNX62/Air 10mm/6mm	0.394, 0.236	0.784	AIR	0.020(2)	TS-D	N,G	0.53	30	CL	0.19	0.39	0.18	0.35	0.16	0.32
	SNX62/Air 6mm/10mm	0.236, 0.394	0.784	AIR	0.020(2)	TS-D	N,G	0.53	30	CL	0.19	0.39	0.18	0.36	0.16	0.32
490	SNX62/Arg 10mm/6mm	0.394, 0.236	0.784	ARG	0.020(2)	TS-D	N,G	0.50	31	CL	0.19	0.39	0.18	0.35	0.16	0.32
	SNX62/Arg 6mm/10mm	0.236, 0.394	0.784	ARG	0.020(2)	TS-D	N,G	0.50	31	CL	0.19	0.39	0.17	0.36	0.16	0.32
491	SNX62-IS20/Air 10mm/6mm	0.394, 0.236	0.784	AIR	0.020(2) 0.198(4)	TS-D	N,G	0.49	30	CL	0.19	0.38	0.17	0.34	0.16	0.31
492	SNX62-IS20/Arg 10mm/6mm	0.394, 0.236	0.784	ARG	0.020(2) 0.198(4)	TS-D	N,G	0.47	30	CL	0.18	0.38	0.17	0.34	0.16	0.31
493	CIG366/Arg 8mm/8mm	0.315, 0.315	0.632	ARG	0.020(2)	SS-D	N,G	0.49	30	CL	0.19	0.40	0.18	0.36	0.17	0.32
494	CIG272/Arg 8mm/8mm	0.315, 0.315	0.632	ARG	0.042(2)	SS-D	N,G	0.50	30	CL	0.27	0.44	0.25	0.40	0.23	0.36
495	CIG180/Arg 8mm/8mm	0.315, 0.315	0.632	ARG	0.068(2)	SS-D	N,G	0.51	30	CL	0.40	0.49	0.36	0.44	0.33	0.39
496	CIG366/Arg 8mm/6mm	0.315, 0.236	0.699	ARG	0.020(2)	SS-D	N,G	0.50	30	CL	0.20	0.40	0.18	0.36	0.17	0.33
	CIG366/Arg 6mm/8mm	0.236, 0.315	0.699	ARG	0.020(2)	SS-D	N,G	0.50	30	CL	0.19	0.40	0.18	0.36	0.17	0.32
497	CIG366-i89/Air 8mm/6mm	0.315, 0.236	0.699	AIR	0.020(2) 0.149(4)	SS-D	N,G	0.49	29	CL	0.19	0.39	0.18	0.35	0.16	0.32
498	CIG366-i89/Arg 8mm/6mm	0.315, 0.236	0.699	ARG	0.020(2) 0.149(4)	SS-D	N,G	0.47	30	CL	0.19	0.39	0.18	0.35	0.16	0.32
499	CIG272/Arg 8mm/6mm	0.315, 0.236	0.699	ARG	0.042(2)	SS-D	N,G	0.50	30	CL	0.27	0.45	0.25	0.40	0.23	0.36
	CIG272/Arg 6mm/8mm	0.236, 0.315	0.699	ARG	0.042(2)	SS-D	N,G	0.50	30	CL	0.28	0.45	0.25	0.40	0.23	0.36
500	CIG272-i89/Air 8mm/6mm	0.315, 0.236	0.699	AIR	0.042(2) 0.149(4)	SS-D	N,G	0.49	29	CL	0.27	0.44	0.25	0.39	0.22	0.35
501	CIG272-i89/Arg 8mm/6mm	0.315, 0.236	0.699	ARG	0.042(2) 0.149(4)	SS-D	N,G	0.47	30	CL	0.27	0.44	0.24	0.39	0.22	0.35
502	CIG180/Arg 8mm/6mm	0.315, 0.236	0.699	ARG	0.068(2)	SS-D	N,G	0.51	30	CL	0.40	0.49	0.36	0.44	0.33	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 # FLE21010-SS

Manufacturer: Fleetwood Windows & Doors
Series/Model: (Formerly Series 250-T) Series 350-T Hopper (TB)
Operator Type: Projected-Awning
Frame Type: Aluminum w/ Thermal Breaks - All Members (AT)
Sash Type: Aluminum w/ Thermal Breaks - All Members (AT)

Product Line ID: FLE-M-91
Model Size: 1500mm x 600mm
Frame Abs.: 0.3

Simulation Orig Report Date: 12/21/2021

Simulation Revision Date: 12/21/2021

Report Type: Recertification

Simulation Lab Code: SWWC

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	0.51	30	CL	0.41	0.49	0.37	0.44	0.34	0.40
503	CIG180-i89/Arg 8mm/6mm	0.315, 0.236	0.699	ARG	0.068(2) 0.149(4)	SS-D	N,G	0.47	30	CL	0.38	0.48	0.35	0.43	0.32	0.39
504	CIG366/Arg 8mm/8mm	0.315, 0.315	0.837	ARG	0.020(2)	SS-D	N,G	0.49	31	CL	0.20	0.40	0.18	0.36	0.17	0.32
505	CIG272/Arg 8mm/8mm	0.315, 0.315	0.837	ARG	0.042(2)	SS-D	N,G	0.50	31	CL	0.27	0.44	0.25	0.40	0.23	0.36
506	CIG180/Arg 8mm/8mm	0.315, 0.315	0.837	ARG	0.068(2)	SS-D	N,G	0.50	30	CL	0.40	0.49	0.36	0.44	0.33	0.39
507	SN68/Arg 10mm/10mm	0.394, 0.394	0.439	ARG	0.039(2)	ZF-S	N,G	0.49	31	CL	0.26	0.43	0.24	0.38	0.22	0.35
508	SNX62/Arg 10mm/10mm	0.394, 0.394	0.439	ARG	0.020(2)	ZF-S	N,G	0.49	31	CL	0.19	0.39	0.18	0.35	0.16	0.31
509	CIG366/Arg 8mm/8mm	0.315, 0.315	0.625	ARG	0.020(2)	ZF-S	N,G	0.49	31	CL	0.19	0.40	0.18	0.36	0.17	0.32
510	SN68/Arg 10mm/6mm	0.394, 0.236	0.625	ARG	0.039(2)	ZF-S	N,G	0.50	30	CL	0.26	0.43	0.23	0.39	0.21	0.35
	SN68/Arg 6mm/10mm	0.236, 0.394	0.625	ARG	0.039(2)	ZF-S	N,G	0.50	30	CL	0.26	0.43	0.24	0.39	0.22	0.35
511	SN68-IS20/Arg 10mm/6mm	0.394, 0.236	0.625	ARG	0.039(2) 0.198(4)	ZF-S	N,G	0.47	30	CL	0.25	0.42	0.23	0.38	0.21	0.34
512	SNX62/Arg 10mm/6mm	0.394, 0.236	0.625	ARG	0.020(2)	ZF-S	N,G	0.49	30	CL	0.19	0.39	0.17	0.35	0.16	0.32
	SNX62/Arg 6mm/10mm	0.236, 0.394	0.625	ARG	0.020(2)	ZF-S	N,G	0.49	30	CL	0.19	0.39	0.17	0.36	0.16	0.32
513	SNX62-IS20/Arg 10mm/6mm	0.394, 0.236	0.625	ARG	0.020(2) 0.198(4)	ZF-S	N,G	0.47	30	CL	0.18	0.38	0.17	0.34	0.16	0.31
514	CIG366/Arg 8mm/6mm	0.315, 0.236	0.688	ARG	0.020(2)	ZF-S	N,G	0.49	30	CL	0.20	0.40	0.18	0.36	0.17	0.33
	CIG366/Arg 6mm/8mm	0.236, 0.315	0.688	ARG	0.020(2)	ZF-S	N,G	0.49	30	CL	0.19	0.40	0.18	0.36	0.17	0.32
515	CIG366-i89/Arg 8mm/6mm	0.315, 0.236	0.688	ARG	0.020(2) 0.149(4)	ZF-S	N,G	0.46	30	CL	0.19	0.39	0.18	0.35	0.16	0.32
516	SN68/Arg 10mm/10mm	0.394, 0.394	0.688	ARG	0.039(2)	ZF-S	N,G	0.49	31	CL	0.25	0.43	0.23	0.38	0.21	0.35
517	SNX62/Arg 10mm/10mm	0.394, 0.394	0.688	ARG	0.020(2)	ZF-S	N,G	0.49	31	CL	0.19	0.39	0.17	0.35	0.16	0.31
518	CIG366/Arg 8mm/8mm	0.315, 0.315	0.787	ARG	0.020(2)	ZF-S	N,G	0.49	32	CL	0.20	0.40	0.18	0.36	0.17	0.32
519	SN68/Arg 10mm/6mm	0.394, 0.236	0.787	ARG	0.039(2)	ZF-S	N,G	0.50	31	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	0.50	31	CL	0.26	0.43	0.24	0.39	0.22	0.35
520	SN68-IS20/Arg 10mm/6mm	0.394, 0.236	0.787	ARG	0.039(2) 0.198(4)	ZF-S	N,G	0.47	30	CL	0.25	0.42	0.23	0.38	0.21	0.34
521	SNX62/Arg 10mm/6mm	0.394, 0.236	0.787	ARG	0.020(2)	ZF-S	N,G	0.49	31	CL	0.19	0.39	0.18	0.35	0.16	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 # FLE21010-SS

Manufacturer: Fleetwood Windows & Doors
Series/Model: (Formerly Series 250-T) Series 350-T Hopper (TB)
Operator Type: Projected-Awning
Frame Type: Aluminum w/ Thermal Breaks - All Members (AT)
Sash Type: Aluminum w/ Thermal Breaks - All Members (AT)

Product Line ID: FLE-M-91
Model Size: 1500mm x 600mm
Frame Abs.: 0.3

Simulation Orig Report Date: 12/21/2021
Simulation Revision Date: 12/21/2021

Report Type: Recertification
Simulation Lab Code: SWWC

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	0.49	31	CL	0.19	0.39	0.17	0.36	0.16	0.32
522	SNX62-IS20/Arg 10mm/6mm	0.394, 0.236	0.787	ARG	0.020(2) 0.198(4)	ZF-S	N,G	0.46	30	CL	0.18	0.38	0.17	0.34	0.16	0.31
523	CIG366/Arg 8mm/6mm	0.315, 0.236	0.787	ARG	0.020(2)	ZF-S	N,G	0.49	32	CL	0.20	0.40	0.18	0.36	0.17	0.33
	CIG366/Arg 6mm/8mm	0.236, 0.315	0.787	ARG	0.020(2)	ZF-S	N,G	0.49	32	CL	0.20	0.40	0.18	0.36	0.17	0.32
524	CIG366-i89/Arg 8mm/6mm	0.315, 0.236	0.787	ARG	0.020(2) 0.149(4)	ZF-S	N,G	0.46	31	CL	0.19	0.39	0.18	0.35	0.16	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)



An NFRC Accredited
Simulation Laboratory

ANSI/NFRC 100/200-2020/NFRC 500-2020 Simulation Report

Manufacturer: Fleetwood Windows & Doors

Contact: Joe Zammit

Address: 1 Fleetwood Way
Corona, CA 92879

Phone: 951-279-1070

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

Operator Type: Projected-Awning

Frame Type: Aluminum w/ Thermal Breaks - All Members (AT)

Sash Type: Aluminum w/ Thermal Breaks - All Members (AT)

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.

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WESTLab Report No.:
FLE21010-SS

WESTLab Report Date:
12/21/2021

Revision/Addendum Date:
12/21/2021

NFRC Product Line ID:
FLE-M-91

Report Type:
Recertification