

NFRC Product Line Summary (2020 Std)

Simulation Report # FLE21008-SS

Manufacturer: Fleetwood Windows & Doors

Product Line ID: FLE-M-100

Simulation Orig Report Date: 9/15/2021

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

Model Size: 600mm x 1500mm

Simulation Revision Date: 9/15/2021

Operator Type: Casement-Single Vent

Frame Abs.: 0.3

Report Type: Recertification

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

Simulation Lab Code: SWWW

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
245	Clear/Air 5mm	0.197, 0.197	0.601	AIR		A1-D	N,G	0.75	13	CL	0.51	0.52	0.47	0.47	0.42	0.42
246	Clear/Air 6mm	0.236, 0.236	0.538	AIR		A1-D	N,G	0.74	13	CL	0.50	0.52	0.46	0.46	0.42	0.42
247	Clear/Arg 5mm	0.197, 0.197	0.601	ARG		A1-D	N,G	0.73	13	CL	0.51	0.52	0.47	0.47	0.42	0.42
248	Clear/Arg 6mm	0.236, 0.236	0.538	ARG		A1-D	N,G	0.73	13	CL	0.50	0.52	0.46	0.46	0.42	0.42
249	SN68/Air 5mm	0.197, 0.197	0.601	AIR	0.039(2)	A1-D	N,G	0.65	13	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	0.65	13	BZ	0.24	0.29	0.22	0.26	0.21	0.23
250	SN68/Air 6mm	0.236, 0.236	0.538	AIR	0.039(2)	A1-D	N,G	0.65	13	CL	0.27	0.44	0.25	0.39	0.23	0.35
	sBZ-SN68/Air 6mm	0.236, 0.236	0.538	AIR	0.039(3)	A1-D	N,G	0.65	13	BZ	0.23	0.26	0.21	0.23	0.19	0.21
251	SN68/Arg 5mm	0.197, 0.197	0.601	ARG	0.039(2)	A1-D	N,G	0.62	13	CL	0.27	0.44	0.25	0.40	0.23	0.36
252	SN68/Arg 6mm	0.236, 0.236	0.538	ARG	0.039(2)	A1-D	N,G	0.62	13	CL	0.27	0.44	0.24	0.39	0.22	0.35
253	SNX62/Air 5mm	0.197, 0.197	0.601	AIR	0.020(2)	A1-D	N,G	0.64	13	CL	0.20	0.40	0.18	0.36	0.17	0.32
254	SNX62/Air 6mm	0.236, 0.236	0.538	AIR	0.020(2)	A1-D	N,G	0.64	13	CL	0.20	0.40	0.18	0.36	0.17	0.32
255	SNX62/Arg 5mm	0.197, 0.197	0.601	ARG	0.020(2)	A1-D	N,G	0.62	13	CL	0.19	0.40	0.18	0.36	0.17	0.32
256	SNX62/Arg 6mm	0.236, 0.236	0.538	ARG	0.020(2)	A1-D	N,G	0.62	13	CL	0.19	0.40	0.18	0.36	0.17	0.32
257	SN68/Air/Clr/Air/SN68 5mm	0.197, 0.197, 0.197	0.444, 0.444	AIR	0.039(2) 0.039(5)	A1-D	N,G	0.57	14	CL	0.23	0.34	0.22	0.30	0.20	0.27
258	SN68/Arg/Clr/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	14	CL	0.23	0.34	0.21	0.30	0.20	0.27
259	SNX62/Air/Clr/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	14	CL	0.17	0.28	0.16	0.25	0.15	0.22
260	SNX62/Arg/Clr/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	14	CL	0.17	0.28	0.16	0.25	0.15	0.22
261	SN68/Air/Clr/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	14	CL	0.23	0.33				
262	SN68/Arg/Clr/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	14	CL	0.23	0.33				
263	SN68/Air/Clr/Air/SN68 6mm	0.236, 0.236, 0.236	0.397, 0.397	AIR	0.039(2) 0.039(5)	A1-D	G	0.58	14	CL			0.21	0.30		
264	SN68/Arg/Clr/Arg/SN68 6mm	0.236, 0.236, 0.236	0.397, 0.397	ARG	0.039(2) 0.039(5)	A1-D	G	0.56	14	CL			0.21	0.30		
265	SN68/Air/Clr/Air/SN68 6mm	0.236, 0.236, 0.236	0.397, 0.397	AIR	0.039(2) 0.039(5)	A1-D	G	0.58	14	CL					0.20	0.27
266	SN68/Arg/Clr/Arg/SN68 6mm	0.236, 0.236, 0.236	0.397, 0.397	ARG	0.039(2) 0.039(5)	A1-D	G	0.56	14	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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Model Size: 600mm x 1500mm

Simulation Revision Date: 9/15/2021

Operator Type: Casement-Single Vent

Frame Abs.: 0.3

Report Type: Recertification

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

Simulation Lab Code: SWWW

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
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	N	0.57	14	CL	0.17	0.27				
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	N	0.55	14	CL	0.17	0.27				
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	0.58	14	CL			0.16	0.25		
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	14	CL			0.16	0.25		
271	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	0.58	14	CL					0.15	0.22
272	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	14	CL					0.15	0.22
273	SN68/Air 5mm	0.197, 0.197	0.596	AIR	0.039(2)	TS-D	N,G	0.64	13	CL	0.27	0.44	0.25	0.40	0.23	0.36
274	SN68/Air 6mm	0.236, 0.236	0.534	AIR	0.039(2)	TS-D	N,G	0.64	13	CL	0.27	0.44	0.25	0.39	0.23	0.35
275	SN68/Arg 5mm	0.197, 0.197	0.596	ARG	0.039(2)	TS-D	N,G	0.62	13	CL	0.27	0.44	0.25	0.40	0.23	0.36
276	SN68/Arg 6mm	0.236, 0.236	0.534	ARG	0.039(2)	TS-D	N,G	0.61	13	CL	0.27	0.44	0.24	0.39	0.22	0.35
277	SNX62/Air 5mm	0.197, 0.197	0.596	AIR	0.020(2)	TS-D	N,G	0.64	13	CL	0.20	0.40	0.18	0.36	0.17	0.32
278	SNX62/Air 6mm	0.236, 0.236	0.534	AIR	0.020(2)	TS-D	N,G	0.64	13	CL	0.20	0.40	0.18	0.36	0.17	0.32
279	SNX62/Arg 5mm	0.197, 0.197	0.596	ARG	0.020(2)	TS-D	N,G	0.61	13	CL	0.19	0.40	0.18	0.36	0.17	0.32
280	SNX62/Arg 6mm	0.236, 0.236	0.534	ARG	0.020(2)	TS-D	N,G	0.61	13	CL	0.19	0.40	0.18	0.36	0.17	0.32
281	SN68-IS20/Air 5mm	0.197, 0.197	0.596	AIR	0.039(2) 0.198(4)	TS-D	N,G	0.60	13	CL	0.26	0.43	0.24	0.38	0.22	0.34
282	SN68-IS20/Air 6mm	0.236, 0.236	0.534	AIR	0.039(2) 0.198(4)	TS-D	N,G	0.59	13	CL	0.26	0.42	0.24	0.38	0.22	0.34
283	SN68-IS20/Arg 5mm	0.197, 0.197	0.596	ARG	0.039(2) 0.198(4)	TS-D	N,G	0.58	13	CL	0.26	0.43	0.24	0.38	0.22	0.34
284	SN68-IS20/Arg 6mm	0.236, 0.236	0.534	ARG	0.039(2) 0.198(4)	TS-D	N,G	0.58	13	CL	0.26	0.42	0.24	0.38	0.22	0.34
285	SNX62-IS20/Air 5mm	0.197, 0.197	0.596	AIR	0.020(2) 0.198(4)	TS-D	N,G	0.59	13	CL	0.19	0.39	0.18	0.35	0.16	0.31
286	SNX62-IS20/Air 6mm	0.236, 0.236	0.534	AIR	0.020(2) 0.198(4)	TS-D	N,G	0.59	13	CL	0.19	0.38	0.18	0.35	0.16	0.31
287	SNX62-IS20/Arg 5mm	0.197, 0.197	0.596	ARG	0.020(2) 0.198(4)	TS-D	N,G	0.57	13	CL	0.19	0.39	0.18	0.35	0.16	0.31
288	SNX62-IS20/Arg 6mm	0.236, 0.236	0.534	ARG	0.020(2) 0.198(4)	TS-D	N,G	0.57	13	CL	0.19	0.38	0.18	0.35	0.16	0.31
289	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	14	CL	0.23	0.34	0.22	0.30	0.20	0.27
290	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	14	CL	0.23	0.34	0.21	0.30	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
291	SNX62/Air/Ctr/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	14	CL	0.17	0.28	0.16	0.25	0.15	0.22
292	SNX62/Arg/Ctr/Arg/SNX62 5mm	0.197, 0.197, 0.197	0.440, 0.440	ARG	0.020(2) 0.020(5)	TS-D	N,G	0.54	14	CL	0.17	0.28	0.16	0.25	0.15	0.22
293	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	14	CL	0.21	0.33	0.19	0.29	0.18	0.26
294	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	14	CL	0.21	0.33	0.19	0.29	0.18	0.26
295	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	14	CL	0.15	0.27	0.14	0.24	0.13	0.22
296	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	14	CL	0.15	0.27	0.14	0.24	0.13	0.22
297	SN68/Air/Ctr/Air/SN68 6mm	0.236, 0.236, 0.236	0.409, 0.409	AIR	0.039(2) 0.039(5)	TS-D	N	0.57	14	CL	0.23	0.33				
298	SN68/Arg/Ctr/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	14	CL	0.23	0.33				
299	SN68/Air/Ctr/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	14	CL			0.21	0.30		
300	SN68/Arg/Ctr/Arg/SN68 6mm	0.236, 0.236, 0.236	0.409, 0.409	ARG	0.039(2) 0.039(5)	TS-D	G	0.55	14	CL			0.21	0.30		
301	SN68/Air/Ctr/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	14	CL					0.20	0.27
302	SN68/Arg/Ctr/Arg/SN68 6mm	0.236, 0.236, 0.236	0.409, 0.409	ARG	0.039(2) 0.039(5)	TS-D	G	0.55	14	CL					0.20	0.27
303	SNX62/Air/Ctr/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	14	CL	0.17	0.27				
304	SNX62/Arg/Ctr/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	14	CL	0.17	0.27				
305	SNX62/Air/Ctr/Air/SNX62 6mm	0.236, 0.236, 0.236	0.409, 0.409	AIR	0.020(2) 0.020(5)	TS-D	G	0.57	14	CL			0.16	0.25		
306	SNX62/Arg/Ctr/Arg/SNX62 6mm	0.236, 0.236, 0.236	0.409, 0.409	ARG	0.020(2) 0.020(5)	TS-D	G	0.55	14	CL			0.16	0.25		
307	SNX62/Air/Ctr/Air/SNX62 6mm	0.236, 0.236, 0.236	0.409, 0.409	AIR	0.020(2) 0.020(5)	TS-D	G	0.57	14	CL					0.15	0.22
308	SNX62/Arg/Ctr/Arg/SNX62 6mm	0.236, 0.236, 0.236	0.409, 0.409	ARG	0.020(2) 0.020(5)	TS-D	G	0.55	14	CL					0.15	0.22
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	N	0.54	14	CL	0.21	0.32				
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	N	0.52	14	CL	0.21	0.32				
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	14	CL			0.19	0.29		
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	14	CL			0.19	0.29		
313	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	14	CL					0.18	0.26
314	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	0.53	14	CL					0.18	0.26

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

Model Size: 600mm x 1500mm

Simulation Revision Date: 9/15/2021

Operator Type: Casement-Single Vent

Frame Abs.: 0.3

Report Type: Recertification

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

Simulation Lab Code: SWWW

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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
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	N	0.54	14	CL	0.15	0.27				
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	N	0.52	14	CL	0.15	0.27				
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	14	CL			0.14	0.24		
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	14	CL			0.14	0.24		
319	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	14	CL					0.13	0.21
320	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	14	CL					0.13	0.21
321	CIG272-i89/Air 5mm	0.197, 0.197	0.632	AIR	0.042(2) 0.149(4)	SS-D	N,G	0.59	13	CL	0.28	0.44	0.26	0.40	0.24	0.36
322	CIG272-i89/Air 6mm	0.236, 0.236	0.522	AIR	0.042(2) 0.149(4)	SS-D	N,G	0.59	13	CL	0.28	0.44	0.26	0.39	0.23	0.35
323	CIG272-i89/Arg 5mm	0.197, 0.197	0.632	ARG	0.042(2) 0.149(4)	SS-D	N,G	0.57	13	CL	0.28	0.44	0.26	0.40	0.24	0.36
324	CIG272-i89/Arg 6mm	0.236, 0.236	0.522	ARG	0.042(2) 0.149(4)	SS-D	N,G	0.57	13	CL	0.28	0.44	0.25	0.39	0.23	0.35
325	CIG366-i89/Air 5mm	0.197, 0.197	0.632	AIR	0.020(2) 0.149(4)	SS-D	N,G	0.59	13	CL	0.20	0.40	0.18	0.36	0.17	0.32
326	CIG366-i89/Air 6mm	0.236, 0.236	0.522	AIR	0.020(2) 0.149(4)	SS-D	N,G	0.59	13	CL	0.20	0.39	0.18	0.36	0.17	0.32
327	CIG366-i89/Arg 5mm	0.197, 0.197	0.632	ARG	0.020(2) 0.149(4)	SS-D	N,G	0.57	13	CL	0.20	0.40	0.18	0.36	0.17	0.32
328	CIG366-i89/Arg 6mm	0.236, 0.236	0.522	ARG	0.020(2) 0.149(4)	SS-D	N,G	0.57	13	CL	0.20	0.39	0.18	0.36	0.17	0.32
329	CIG180-i89/Arg 5mm	0.197, 0.197	0.632	ARG	0.068(2) 0.149(4)	SS-D	N,G	0.58	13	CL	0.41	0.49	0.38	0.44	0.34	0.39
330	CIG180-i89/Arg 6mm	0.236, 0.236	0.522	ARG	0.068(2) 0.149(4)	SS-D	N,G	0.57	13	CL	0.40	0.48	0.36	0.43	0.33	0.39
331	CIG272/Arg 5mm	0.197, 0.197	0.632	ARG	0.042(2)	SS-D	N,G	0.62	13	CL	0.29	0.45	0.26	0.41	0.24	0.37
332	CIG272/Arg 6mm	0.236, 0.236	0.522	ARG	0.042(2)	SS-D	N,G	0.61	13	CL	0.28	0.45	0.26	0.40	0.24	0.36
333	CIG366/Arg 5mm	0.197, 0.197	0.632	ARG	0.020(2)	SS-D	N,G	0.61	13	CL	0.20	0.41	0.19	0.37	0.17	0.33
334	CIG366/Arg 6mm	0.236, 0.236	0.522	ARG	0.020(2)	SS-D	N,G	0.61	13	CL	0.20	0.40	0.19	0.36	0.17	0.33
335	CIG180/Arg 5mm	0.197, 0.197	0.632	ARG	0.068(2)	SS-D	N,G	0.62	13	CL	0.42	0.50	0.39	0.45	0.35	0.40
336	CIG180/Arg 6mm	0.236, 0.236	0.522	ARG	0.068(2)	SS-D	N,G	0.62	13	CL	0.41	0.49	0.38	0.44	0.34	0.40
337	CIG272/Arg/Ctr/Arg/CIG180 5mm	0.197, 0.197, 0.197	0.462, 0.462	ARG	0.042(2) 0.068(5)	SS-D	N,G	0.54	14	CL	0.26	0.40	0.24	0.36	0.22	0.32
338	CIG180/Arg/Ctr/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	14	CL	0.37	0.44	0.34	0.39	0.31	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 # FLE21008-SS

Manufacturer: Fleetwood Windows & Doors

Product Line ID: FLE-M-100

Simulation Orig Report Date: 9/15/2021

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

Model Size: 600mm x 1500mm

Simulation Revision Date: 9/15/2021

Operator Type: Casement-Single Vent

Frame Abs.: 0.3

Report Type: Recertification

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

Simulation Lab Code: SWWW

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
339	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	0.51	14	CL	0.25	0.39	0.23	0.35	0.21	0.31
340	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	0.52	14	CL	0.35	0.43	0.32	0.38	0.29	0.34
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	N	0.55	14	CL	0.25	0.39				
342	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	0.55	14	CL			0.23	0.35		
343	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	0.55	14	CL					0.21	0.31
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	N	0.55	14	CL	0.36	0.43				
345	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	14	CL			0.33	0.39		
346	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	14	CL					0.30	0.35
347	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	0.52	14	CL	0.24	0.38				
348	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	0.53	14	CL			0.22	0.34		
349	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	0.53	14	CL					0.21	0.31
350	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	0.52	14	CL	0.34	0.42				
351	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	0.53	14	CL			0.31	0.38		
352	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	0.53	14	CL					0.28	0.34
353	SN68/Arg 5mm	0.197, 0.197	0.625	ARG	0.039(2)	ZF-S	N,G	0.61	13	CL	0.27	0.44	0.25	0.40	0.23	0.36
354	SN68/Arg 6mm	0.236, 0.236	0.500	ARG	0.039(2)	ZF-S	N,G	0.61	13	CL	0.27	0.44	0.25	0.39	0.22	0.35
355	SNX62/Arg 5mm	0.197, 0.197	0.625	ARG	0.020(2)	ZF-S	N,G	0.61	13	CL	0.19	0.40	0.18	0.36	0.17	0.32
356	SNX62/Arg 6mm	0.236, 0.236	0.500	ARG	0.020(2)	ZF-S	N,G	0.61	13	CL	0.20	0.40	0.18	0.36	0.17	0.32
357	SN68-IS20/Arg 5mm	0.197, 0.197	0.625	ARG	0.039(2) 0.198(4)	ZF-S	N,G	0.57	13	CL	0.26	0.43	0.24	0.38	0.22	0.34
358	SN68-IS20/Arg 6mm	0.236, 0.236	0.500	ARG	0.039(2) 0.198(4)	ZF-S	N,G	0.57	13	CL	0.26	0.42	0.24	0.38	0.22	0.34
359	SNX62-IS20/Arg 5mm	0.197, 0.197	0.625	ARG	0.020(2) 0.198(4)	ZF-S	N,G	0.57	13	CL	0.19	0.39	0.18	0.35	0.16	0.31
360	SNX62-IS20/Arg 6mm	0.236, 0.236	0.500	ARG	0.020(2) 0.198(4)	ZF-S	N,G	0.57	13	CL	0.19	0.38	0.18	0.35	0.16	0.31
361	CIG366-i89/Arg 5mm	0.197, 0.197	0.625	ARG	0.020(2) 0.149(4)	ZF-S	N,G	0.57	13	CL	0.20	0.40	0.18	0.36	0.17	0.32
362	CIG366-i89/Arg 6mm	0.236, 0.236	0.500	ARG	0.020(2) 0.149(4)	ZF-S	N,G	0.57	13	CL	0.20	0.39	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 # FLE21008-SS

Manufacturer: Fleetwood Windows & Doors

Product Line ID: FLE-M-100

Simulation Orig Report Date: 9/15/2021

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

Model Size: 600mm x 1500mm

Simulation Revision Date: 9/15/2021

Operator Type: Casement-Single Vent

Frame Abs.: 0.3

Report Type: Recertification

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

Simulation Lab Code: SWWW

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
363	CIG366/Arg 5mm	0.197, 0.197	0.625	ARG	0.020(2)	ZF-S	N,G	0.61	13	CL	0.20	0.41	0.19	0.37	0.17	0.33
364	CIG366/Arg 6mm	0.236, 0.236	0.500	ARG	0.020(2)	ZF-S	N,G	0.61	13	CL	0.20	0.40	0.19	0.36	0.17	0.33
365	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	0.54	14	CL	0.23	0.34	0.21	0.30	0.20	0.27
366	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	14	CL	0.17	0.28	0.16	0.25	0.15	0.22
367	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	14	CL	0.21	0.33	0.19	0.29	0.18	0.26
368	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	14	CL	0.15	0.27	0.14	0.24	0.13	0.22
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	N	0.55	14	CL	0.23	0.33				
370	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	14	CL			0.21	0.30		
371	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	14	CL					0.20	0.27
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	N	0.54	14	CL	0.17	0.27				
373	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	0.55	14	CL			0.16	0.25		
374	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	0.55	14	CL					0.15	0.22
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	N	0.53	14	CL	0.21	0.32				
376	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	14	CL			0.19	0.29		
377	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	14	CL					0.18	0.26
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	N	0.52	14	CL	0.15	0.27				
379	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	14	CL			0.14	0.24		
380	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	14	CL					0.13	0.21
381	Clear/Air 10mm/10mm	0.394, 0.394	0.476	AIR		A1-D	N,G	0.75	14	CL	0.47	0.50	0.43	0.45	0.39	0.41
382	SN68/Air 10mm/10mm	0.394, 0.394	0.476	AIR	0.039(2)	A1-D	N,G	0.65	14	CL	0.26	0.42	0.24	0.38	0.22	0.34
	sBZ-SN68/Air 10mm/10mm	0.394, 0.394	0.476	AIR	0.039(3)	A1-D	N,G	0.65	14	BZ	0.19	0.18	0.17	0.16	0.16	0.14
383	SN68/Arg 10mm/10mm	0.394, 0.394	0.476	ARG	0.039(2)	A1-D	N,G	0.62	14	CL	0.26	0.42	0.24	0.38	0.22	0.34
384	SNX62/Air 10mm/10mm	0.394, 0.394	0.476	AIR	0.020(2)	A1-D	N,G	0.65	14	CL	0.20	0.38	0.19	0.35	0.17	0.31
385	SNX62/Arg 10mm/10mm	0.394, 0.394	0.476	ARG	0.020(2)	A1-D	N,G	0.62	14	CL	0.20	0.38	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 # FLE21008-SS

Manufacturer: Fleetwood Windows & Doors

Product Line ID: FLE-M-100

Simulation Orig Report Date: 9/15/2021

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

Model Size: 600mm x 1500mm

Simulation Revision Date: 9/15/2021

Operator Type: Casement-Single Vent

Frame Abs.: 0.3

Report Type: Recertification

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

Simulation Lab Code: SWWW

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
386	Clear/Air 10mm/6mm	0.394, 0.236	0.632	AIR		A1-D	N,G	0.75	14	CL	0.48	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	14	CL	0.50	0.51	0.45	0.46	0.41	0.41
387	SN68/Air 10mm/6mm	0.394, 0.236	0.632	AIR	0.039(2)	A1-D	N,G	0.65	14	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	0.65	14	CL	0.27	0.43	0.25	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	0.65	14	BZ	0.23	0.25	0.21	0.23	0.19	0.21
388	SN68/Arg 10mm/6mm	0.394, 0.236	0.632	ARG	0.039(2)	A1-D	N,G	0.63	14	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	14	CL	0.26	0.43	0.24	0.39	0.22	0.35
389	SNX62/Air 10mm/6mm	0.394, 0.236	0.632	AIR	0.020(2)	A1-D	N,G	0.65	14	CL	0.20	0.39	0.18	0.35	0.17	0.31
	SNX62/Air 6mm/10mm	0.236, 0.394	0.632	AIR	0.020(2)	A1-D	N,G	0.65	14	CL	0.20	0.39	0.18	0.35	0.17	0.32
390	SNX62/Arg 10mm/6mm	0.394, 0.236	0.632	ARG	0.020(2)	A1-D	N,G	0.62	14	CL	0.19	0.39	0.18	0.35	0.17	0.31
	SNX62/Arg 6mm/10mm	0.236, 0.394	0.632	ARG	0.020(2)	A1-D	N,G	0.62	14	CL	0.19	0.39	0.18	0.35	0.17	0.32
391	Clear/Air 10mm/10mm	0.394, 0.394	0.726	AIR		A1-D	N,G	0.74	14	CL	0.47	0.50	0.43	0.45	0.39	0.41
392	SN68/Air 10mm/10mm	0.394, 0.394	0.726	AIR	0.039(2)	A1-D	N,G	0.65	14	CL	0.26	0.42	0.24	0.38	0.22	0.34
	sBZ-SN68/Air 10mm/10mm	0.394, 0.394	0.726	AIR	0.039(3)	A1-D	N,G	0.65	14	BZ	0.18	0.18	0.17	0.16	0.16	0.14
393	SN68/Arg 10mm/10mm	0.394, 0.394	0.726	ARG	0.039(2)	A1-D	N,G	0.62	14	CL	0.26	0.42	0.24	0.38	0.22	0.34
394	SNX62/Air 10mm/10mm	0.394, 0.394	0.726	AIR	0.020(2)	A1-D	N,G	0.64	14	CL	0.20	0.38	0.18	0.35	0.17	0.31
395	SNX62/Arg 10mm/10mm	0.394, 0.394	0.726	ARG	0.020(2)	A1-D	N,G	0.62	14	CL	0.19	0.38	0.18	0.35	0.17	0.31
396	Clear/Air 10mm/6mm	0.394, 0.236	0.882	AIR		A1-D	N,G	0.74	14	CL	0.48	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	0.74	14	CL	0.50	0.51	0.45	0.46	0.41	0.41
397	SN68/Air 10mm/6mm	0.394, 0.236	0.882	AIR	0.039(2)	A1-D	N,G	0.65	14	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	0.65	14	CL	0.27	0.43	0.25	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	0.65	14	BZ	0.19	0.18	0.17	0.16	0.16	0.15
398	SN68/Arg 10mm/6mm	0.394, 0.236	0.882	ARG	0.039(2)	A1-D	N,G	0.62	14	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	0.62	14	CL	0.27	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 # FLE21008-SS

Manufacturer: Fleetwood Windows & Doors

Product Line ID: FLE-M-100

Simulation Orig Report Date: 9/15/2021

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

Model Size: 600mm x 1500mm

Simulation Revision Date: 9/15/2021

Operator Type: Casement-Single Vent

Frame Abs.: 0.3

Report Type: Recertification

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

Simulation Lab Code: SWWW

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
399	SNX62/Air 10mm/6mm	0.394, 0.236	0.882	AIR	0.020(2)	A1-D	N,G	0.65	14	CL	0.20	0.39	0.18	0.35	0.17	0.31
	SNX62/Air 6mm/10mm	0.236, 0.394	0.882	AIR	0.020(2)	A1-D	N,G	0.65	14	CL	0.20	0.39	0.18	0.35	0.17	0.32
400	SNX62/Arg 10mm/6mm	0.394, 0.236	0.882	ARG	0.020(2)	A1-D	N,G	0.62	14	CL	0.20	0.39	0.18	0.35	0.17	0.31
	SNX62/Arg 6mm/10mm	0.236, 0.394	0.882	ARG	0.020(2)	A1-D	N,G	0.62	14	CL	0.20	0.39	0.18	0.35	0.17	0.32
401	SN68/Air 10mm/10mm	0.394, 0.394	0.470	AIR	0.039(2)	TS-D	N,G	0.64	14	CL	0.26	0.42	0.24	0.38	0.22	0.34
402	SN68/Arg 10mm/10mm	0.394, 0.394	0.470	ARG	0.039(2)	TS-D	N,G	0.61	14	CL	0.26	0.42	0.24	0.38	0.22	0.34
403	SNX62/Air 10mm/10mm	0.394, 0.394	0.470	AIR	0.020(2)	TS-D	N,G	0.64	14	CL	0.20	0.38	0.19	0.35	0.17	0.31
404	SNX62/Arg 10mm/10mm	0.394, 0.394	0.470	ARG	0.020(2)	TS-D	N,G	0.61	14	CL	0.20	0.38	0.18	0.35	0.17	0.31
405	SN68/Air 10mm/6mm	0.394, 0.236	0.633	AIR	0.039(2)	TS-D	N,G	0.64	14	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	0.64	14	CL	0.27	0.43	0.25	0.39	0.22	0.35
406	SN68/Arg 10mm/6mm	0.394, 0.236	0.633	ARG	0.039(2)	TS-D	N,G	0.62	14	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	14	CL	0.26	0.43	0.24	0.39	0.22	0.35
407	SN68-IS20/Air 10mm/6mm	0.394, 0.236	0.633	AIR	0.039(2) 0.198(4)	TS-D	N,G	0.60	14	CL	0.25	0.42	0.23	0.37	0.21	0.34
408	SN68-IS20/Arg 10mm/6mm	0.394, 0.236	0.633	ARG	0.039(2) 0.198(4)	TS-D	N,G	0.58	14	CL	0.25	0.42	0.23	0.37	0.21	0.34
409	SNX62/Air 10mm/6mm	0.394, 0.236	0.633	AIR	0.020(2)	TS-D	N,G	0.64	14	CL	0.20	0.39	0.18	0.35	0.17	0.31
	SNX62/Air 6mm/10mm	0.236, 0.394	0.633	AIR	0.020(2)	TS-D	N,G	0.64	14	CL	0.20	0.39	0.18	0.35	0.17	0.32
410	SNX62/Arg 10mm/6mm	0.394, 0.236	0.633	ARG	0.020(2)	TS-D	N,G	0.61	14	CL	0.19	0.39	0.18	0.35	0.17	0.31
	SNX62/Arg 6mm/10mm	0.236, 0.394	0.633	ARG	0.020(2)	TS-D	N,G	0.61	14	CL	0.19	0.39	0.18	0.35	0.17	0.32
411	SNX62-IS20/Air 10mm/6mm	0.394, 0.236	0.633	AIR	0.020(2) 0.198(4)	TS-D	N,G	0.59	14	CL	0.19	0.38	0.18	0.34	0.16	0.30
412	SNX62-IS20/Arg 10mm/6mm	0.394, 0.236	0.633	ARG	0.020(2) 0.198(4)	TS-D	N,G	0.58	14	CL	0.19	0.38	0.17	0.34	0.16	0.30
413	SN68/Air 10mm/10mm	0.394, 0.394	0.714	AIR	0.039(2)	TS-D	N,G	0.64	14	CL	0.26	0.42	0.24	0.38	0.22	0.34
414	SN68/Arg 10mm/10mm	0.394, 0.394	0.714	ARG	0.039(2)	TS-D	N,G	0.61	14	CL	0.26	0.42	0.24	0.38	0.22	0.34
415	SNX62/Air 10mm/10mm	0.394, 0.394	0.714	AIR	0.020(2)	TS-D	N,G	0.64	14	CL	0.20	0.38	0.18	0.35	0.17	0.31
416	SNX62/Arg 10mm/10mm	0.394, 0.394	0.714	ARG	0.020(2)	TS-D	N,G	0.61	14	CL	0.19	0.38	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 # FLE21008-SS

Manufacturer: Fleetwood Windows & Doors

Product Line ID: FLE-M-100

Simulation Orig Report Date: 9/15/2021

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

Model Size: 600mm x 1500mm

Simulation Revision Date: 9/15/2021

Operator Type: Casement-Single Vent

Frame Abs.: 0.3

Report Type: Recertification

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

Simulation Lab Code: SWWW

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
417	SN68/Air 10mm/6mm	0.394, 0.236	0.784	AIR	0.039(2)	TS-D	N,G	0.64	14	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	0.64	14	CL	0.27	0.43	0.24	0.39	0.22	0.35
418	SN68/Arg 10mm/6mm	0.394, 0.236	0.784	ARG	0.039(2)	TS-D	N,G	0.62	14	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	14	CL	0.26	0.43	0.24	0.39	0.22	0.35
419	SN68-IS20/Air 10mm/6mm	0.394, 0.236	0.784	AIR	0.039(2) 0.198(4)	TS-D	N,G	0.59	14	CL	0.25	0.42	0.23	0.37	0.21	0.34
420	SN68-IS20/Arg 10mm/6mm	0.394, 0.236	0.784	ARG	0.039(2) 0.198(4)	TS-D	N,G	0.58	14	CL	0.25	0.42	0.23	0.37	0.21	0.34
421	SNX62/Air 10mm/6mm	0.394, 0.236	0.784	AIR	0.020(2)	TS-D	N,G	0.64	14	CL	0.20	0.39	0.18	0.35	0.17	0.31
	SNX62/Air 6mm/10mm	0.236, 0.394	0.784	AIR	0.020(2)	TS-D	N,G	0.64	14	CL	0.20	0.39	0.18	0.35	0.17	0.32
422	SNX62/Arg 10mm/6mm	0.394, 0.236	0.784	ARG	0.020(2)	TS-D	N,G	0.61	14	CL	0.20	0.39	0.18	0.35	0.17	0.31
	SNX62/Arg 6mm/10mm	0.236, 0.394	0.784	ARG	0.020(2)	TS-D	N,G	0.61	14	CL	0.19	0.39	0.18	0.35	0.17	0.32
423	SNX62-IS20/Air 10mm/6mm	0.394, 0.236	0.784	AIR	0.020(2) 0.198(4)	TS-D	N,G	0.59	14	CL	0.19	0.38	0.18	0.34	0.16	0.30
424	SNX62-IS20/Arg 10mm/6mm	0.394, 0.236	0.784	ARG	0.020(2) 0.198(4)	TS-D	N,G	0.57	14	CL	0.19	0.38	0.18	0.34	0.16	0.30
425	CIG366/Arg 8mm/8mm	0.315, 0.315	0.632	ARG	0.020(2)	SS-D	N,G	0.61	14	CL	0.20	0.39	0.18	0.35	0.17	0.32
426	CIG272/Arg 8mm/8mm	0.315, 0.315	0.632	ARG	0.042(2)	SS-D	N,G	0.62	14	CL	0.28	0.44	0.25	0.39	0.23	0.35
427	CIG180/Arg 8mm/8mm	0.315, 0.315	0.632	ARG	0.068(2)	SS-D	N,G	0.62	14	CL	0.40	0.48	0.36	0.43	0.33	0.39
428	CIG366/Arg 8mm/6mm	0.315, 0.236	0.699	ARG	0.020(2)	SS-D	N,G	0.61	14	CL	0.20	0.40	0.19	0.36	0.17	0.32
	CIG366/Arg 6mm/8mm	0.236, 0.315	0.699	ARG	0.020(2)	SS-D	N,G	0.61	14	CL	0.20	0.40	0.18	0.36	0.17	0.32
429	CIG366-i89/Air 8mm/6mm	0.315, 0.236	0.699	AIR	0.020(2) 0.149(4)	SS-D	N,G	0.59	14	CL	0.20	0.39	0.18	0.35	0.17	0.31
430	CIG366-i89/Arg 8mm/6mm	0.315, 0.236	0.699	ARG	0.020(2) 0.149(4)	SS-D	N,G	0.57	14	CL	0.20	0.39	0.18	0.35	0.17	0.31
431	CIG272/Arg 8mm/6mm	0.315, 0.236	0.699	ARG	0.042(2)	SS-D	N,G	0.62	14	CL	0.28	0.44	0.26	0.40	0.23	0.36
	CIG272/Arg 6mm/8mm	0.236, 0.315	0.699	ARG	0.042(2)	SS-D	N,G	0.62	14	CL	0.28	0.44	0.26	0.40	0.24	0.36
432	CIG272-i89/Air 8mm/6mm	0.315, 0.236	0.699	AIR	0.042(2) 0.149(4)	SS-D	N,G	0.59	14	CL	0.27	0.43	0.25	0.39	0.23	0.35
433	CIG272-i89/Arg 8mm/6mm	0.315, 0.236	0.699	ARG	0.042(2) 0.149(4)	SS-D	N,G	0.58	14	CL	0.27	0.43	0.25	0.39	0.23	0.35
434	CIG180/Arg 8mm/6mm	0.315, 0.236	0.699	ARG	0.068(2)	SS-D	N,G	0.62	14	CL	0.40	0.49	0.37	0.44	0.33	0.39

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 # FLE21008-SS

Manufacturer: Fleetwood Windows & Doors

Product Line ID: FLE-M-100

Simulation Orig Report Date: 9/15/2021

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

Model Size: 600mm x 1500mm

Simulation Revision Date: 9/15/2021

Operator Type: Casement-Single Vent

Frame Abs.: 0.3

Report Type: Recertification

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

Simulation Lab Code: SWWW

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	0.62	14	CL	0.41	0.49	0.38	0.44	0.34	0.39
435	CIG180-i89/Arg 8mm/6mm	0.315, 0.236	0.699	ARG	0.068(2) 0.149(4)	SS-D	N,G	0.58	14	CL	0.39	0.48	0.35	0.43	0.32	0.38
436	CIG366/Arg 8mm/8mm	0.315, 0.315	0.837	ARG	0.020(2)	SS-D	N,G	0.61	14	CL	0.20	0.39	0.19	0.35	0.17	0.32
437	CIG272/Arg 8mm/8mm	0.315, 0.315	0.837	ARG	0.042(2)	SS-D	N,G	0.62	14	CL	0.28	0.44	0.25	0.39	0.23	0.35
438	CIG180/Arg 8mm/8mm	0.315, 0.315	0.837	ARG	0.068(2)	SS-D	N,G	0.62	14	CL	0.40	0.48	0.36	0.43	0.33	0.39
439	SN68/Arg 10mm/10mm	0.394, 0.394	0.439	ARG	0.039(2)	ZF-S	N,G	0.61	15	CL	0.26	0.42	0.24	0.38	0.22	0.34
440	SNX62/Arg 10mm/10mm	0.394, 0.394	0.439	ARG	0.020(2)	ZF-S	N,G	0.61	15	CL	0.20	0.38	0.18	0.35	0.17	0.31
441	CIG366/Arg 8mm/8mm	0.315, 0.315	0.625	ARG	0.020(2)	ZF-S	N,G	0.61	15	CL	0.20	0.39	0.18	0.35	0.17	0.32
442	SN68/Arg 10mm/6mm	0.394, 0.236	0.625	ARG	0.039(2)	ZF-S	N,G	0.61	14	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	0.61	14	CL	0.26	0.43	0.24	0.39	0.22	0.35
443	SN68-IS20/Arg 10mm/6mm	0.394, 0.236	0.625	ARG	0.039(2) 0.198(4)	ZF-S	N,G	0.58	14	CL	0.25	0.42	0.23	0.37	0.21	0.34
444	SNX62/Arg 10mm/6mm	0.394, 0.236	0.625	ARG	0.020(2)	ZF-S	N,G	0.61	14	CL	0.19	0.39	0.18	0.35	0.17	0.31
	SNX62/Arg 6mm/10mm	0.236, 0.394	0.625	ARG	0.020(2)	ZF-S	N,G	0.61	14	CL	0.19	0.39	0.18	0.35	0.17	0.32
445	SNX62-IS20/Arg 10mm/6mm	0.394, 0.236	0.625	ARG	0.020(2) 0.198(4)	ZF-S	N,G	0.57	14	CL	0.19	0.38	0.17	0.34	0.16	0.30
446	CIG366/Arg 8mm/6mm	0.315, 0.236	0.688	ARG	0.020(2)	ZF-S	N,G	0.61	14	CL	0.20	0.40	0.19	0.36	0.17	0.32
	CIG366/Arg 6mm/8mm	0.236, 0.315	0.688	ARG	0.020(2)	ZF-S	N,G	0.61	14	CL	0.20	0.40	0.18	0.36	0.17	0.32
447	CIG366-i89/Arg 8mm/6mm	0.315, 0.236	0.688	ARG	0.020(2) 0.149(4)	ZF-S	N,G	0.57	14	CL	0.20	0.39	0.18	0.35	0.17	0.31
448	SN68/Arg 10mm/10mm	0.394, 0.394	0.688	ARG	0.039(2)	ZF-S	N,G	0.61	14	CL	0.26	0.42	0.24	0.38	0.22	0.34
449	SNX62/Arg 10mm/10mm	0.394, 0.394	0.688	ARG	0.020(2)	ZF-S	N,G	0.61	14	CL	0.19	0.38	0.18	0.35	0.17	0.31
450	CIG366/Arg 8mm/8mm	0.315, 0.315	0.787	ARG	0.020(2)	ZF-S	N,G	0.61	14	CL	0.20	0.39	0.19	0.35	0.17	0.32
451	SN68/Arg 10mm/6mm	0.394, 0.236	0.787	ARG	0.039(2)	ZF-S	N,G	0.62	14	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	14	CL	0.26	0.43	0.24	0.39	0.22	0.35
452	SN68-IS20/Arg 10mm/6mm	0.394, 0.236	0.787	ARG	0.039(2) 0.198(4)	ZF-S	N,G	0.58	14	CL	0.25	0.42	0.23	0.37	0.21	0.34
453	SNX62/Arg 10mm/6mm	0.394, 0.236	0.787	ARG	0.020(2)	ZF-S	N,G	0.61	14	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 # FLE21008-SS

Manufacturer: Fleetwood Windows & Doors

Product Line ID: FLE-M-100

Simulation Orig Report Date: 9/15/2021

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

Model Size: 600mm x 1500mm

Simulation Revision Date: 9/15/2021

Operator Type: Casement-Single Vent

Frame Abs.: 0.3

Report Type: Recertification

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

Simulation Lab Code: SWWW

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	14	CL	0.19	0.39	0.18	0.35	0.17	0.32
454	SNX62-IS20/Arg 10mm/6mm	0.394, 0.236	0.787	ARG	0.020(2) 0.198(4)	ZF-S	N,G	0.58	14	CL	0.19	0.38	0.18	0.34	0.16	0.30
455	CIG366/Arg 8mm/6mm	0.315, 0.236	0.787	ARG	0.020(2)	ZF-S	N,G	0.61	14	CL	0.20	0.40	0.19	0.36	0.17	0.32
	CIG366/Arg 6mm/8mm	0.236, 0.315	0.787	ARG	0.020(2)	ZF-S	N,G	0.61	14	CL	0.20	0.40	0.19	0.36	0.17	0.32
456	CIG366-i89/Arg 8mm/6mm	0.315, 0.236	0.787	ARG	0.020(2) 0.149(4)	ZF-S	N,G	0.57	14	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)

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 Casement
(N-TB-OG)

Operator Type: Casement-Single Vent

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

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

WESTLab Report No.:
FLE21008-SS

WESTLab Report Date:
9/15/2021

Revision/Addendum Date:
9/15/2021

NFRC Product Line ID:
FLE-M-100

Report Type:
Recertification

Baseline Product for U-Factor Validation Testing:

Description: No Validation Unit required. This product validates with the FLE-M-96 (Formerly Series 250-T) Series 350-T Casement (IG) (N-TB). Please see WESTLab report FLE21009-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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