

# NFRC Product Line Summary (2023 Std)

Simulation Report # FLE25001-SS

**Manufacturer:** Fleetwood Windows & Doors

**Product Line ID:** FLE-M-117

**Simulation Orig Report Date:** 5/20/2025

**Series/Model:** Series 4400-T Pivot Door

**Model Size:** 960mm x 2090mm

**Simulation Revision Date:** 5/20/2025

**Operator Type:** Side-Hinged Exterior Door

**Frame Abs.:** 0.3

**Report Type:** Recertification

**Frame Type:** Aluminum w/Thermal Breaks (AT)

**Simulation Lab Code:** SWWW

**Sash Type:** Aluminum w/Thermal Breaks (AT)

*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
231	CIG366/Arg 5mm SS-D	0.197, 0.197	0.632	ARG	0.020(2)	SS-D	N,G	0.38	49	CL	0.18	0.40	0.16	0.34	0.14	0.29
232	CIG366/Arg 6mm SS-D	0.236, 0.236	0.522	ARG	0.020(2)	SS-D	N,G	0.38	49	CL	0.18	0.39	0.16	0.34	0.14	0.29
233	CIG366-i89/Arg 5mm SS-D	0.197, 0.197	0.632	ARG	0.020(2) 0.149(4)	SS-D	N,G	0.35	48	CL	0.18	0.39	0.16	0.34	0.14	0.29
234	CIG366-i89/Arg 6mm SS-D	0.236, 0.236	0.522	ARG	0.020(2) 0.149(4)	SS-D	N,G	0.34	48	CL	0.18	0.39	0.16	0.33	0.14	0.28
235	CIG272/Arg 5mm SS-D	0.197, 0.197	0.632	ARG	0.042(2)	SS-D	N,G	0.39	49	CL	0.27	0.45	0.24	0.38	0.21	0.33
236	CIG272/Arg 6mm SS-D	0.236, 0.236	0.522	ARG	0.042(2)	SS-D	N,G	0.38	49	CL	0.27	0.44	0.23	0.38	0.20	0.32
237	CIG272-i89/Arg 5mm SS-D	0.197, 0.197	0.632	ARG	0.042(2) 0.149(4)	SS-D	N,G	0.35	48	CL	0.26	0.44	0.23	0.37	0.20	0.32
238	CIG272-i89/Arg 6mm SS-D	0.236, 0.236	0.522	ARG	0.042(2) 0.149(4)	SS-D	N,G	0.35	48	CL	0.26	0.43	0.23	0.37	0.20	0.31
239	CIG180/Arg 5mm SS-D	0.197, 0.197	0.632	ARG	0.068(2)	SS-D	N,G	0.39	48	CL	0.41	0.49	0.35	0.42	0.31	0.36
240	CIG180/Arg 6mm SS-D	0.236, 0.236	0.522	ARG	0.068(2)	SS-D	N,G	0.39	49	CL	0.40	0.48	0.34	0.41	0.30	0.35
241	CIG180-i89/Arg 5mm SS-D	0.197, 0.197	0.632	ARG	0.068(2) 0.149(4)	SS-D	N,G	0.35	48	CL	0.39	0.48	0.34	0.41	0.30	0.35
242	CIG180-i89/Arg 6mm SS-D	0.236, 0.236	0.522	ARG	0.068(2) 0.149(4)	SS-D	N,G	0.35	48	CL	0.38	0.47	0.33	0.40	0.29	0.34
243	Clear/Air 5mm A1-D	0.197, 0.197	0.621	AIR		A1-D	N,G	0.54	44	CL	0.47	0.50	0.41	0.43	0.35	0.37
244	Clear/Air 6mm A1-D	0.236, 0.236	0.542	AIR		A1-D	N,G	0.53	43	CL	0.46	0.50	0.40	0.43	0.34	0.36
245	SN68/Air 5mm A1-D	0.197, 0.197	0.621	AIR	0.039(2)	A1-D	N,G	0.44	46	CL	0.25	0.43	0.22	0.37	0.19	0.31
	sBZ-SN68/Air 5mm A1-D	0.197, 0.197	0.621	AIR	0.039(3)	A1-D	N,G	0.44	46	BZ	0.23	0.28	0.20	0.24	0.17	0.20
246	SN68/Air 6mm A1-D	0.236, 0.236	0.542	AIR	0.039(2)	A1-D	N,G	0.43	46	CL	0.25	0.42	0.22	0.36	0.19	0.31
	sBZ-SN68/Air 6mm A1-D	0.236, 0.236	0.542	AIR	0.039(3)	A1-D	N,G	0.43	46	BZ	0.21	0.25	0.19	0.22	0.16	0.19
247	SN68/Arg 5mm A1-D	0.197, 0.197	0.621	ARG	0.039(2)	A1-D	N,G	0.41	46	CL	0.25	0.43	0.22	0.37	0.19	0.31
248	SN68/Arg 6mm A1-D	0.236, 0.236	0.542	ARG	0.039(2)	A1-D	N,G	0.41	46	CL	0.25	0.42	0.22	0.36	0.19	0.31
249	SNX62/Air 5mm A1-D	0.197, 0.197	0.621	AIR	0.020(2)	A1-D	N,G	0.43	46	CL	0.18	0.39	0.16	0.33	0.14	0.28
250	SNX62/Air 6mm A1-D	0.236, 0.236	0.542	AIR	0.020(2)	A1-D	N,G	0.43	46	CL	0.18	0.38	0.16	0.33	0.14	0.28
251	SNX62/Arg 5mm A1-D	0.197, 0.197	0.621	ARG	0.020(2)	A1-D	N,G	0.40	46	CL	0.18	0.39	0.16	0.33	0.14	0.28
252	SNX62/Arg 6mm A1-D	0.236, 0.236	0.542	ARG	0.020(2)	A1-D	N,G	0.40	46	CL	0.18	0.38	0.16	0.33	0.14	0.28

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)

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**Simulation Revision Date:** 5/20/2025

**Operator Type:** Side-Hinged Exterior Door

**Frame Abs.:** 0.3

**Report Type:** Recertification

**Frame Type:** Aluminum w/Thermal Breaks (AT)

**Simulation Lab Code:** SWWW

**Sash Type:** Aluminum w/Thermal Breaks (AT)

*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
253	SN68/Arg 5mm ZF-S	0.197, 0.197	0.625	ARG	0.039(2)	ZF-S	N,G	0.38	49	CL	0.25	0.43	0.22	0.37	0.19	0.31
254	SN68/Arg 6mm ZF-S	0.236, 0.236	0.538	ARG	0.039(2)	ZF-S	N,G	0.38	49	CL	0.25	0.42	0.22	0.36	0.19	0.31
255	SN68-IS20/Arg 5mm ZF-S	0.197, 0.197	0.625	ARG	0.039(2) 0.198(4)	ZF-S	N,G	0.35	49	CL	0.24	0.42	0.21	0.36	0.19	0.31
256	SN68-IS20/Arg 6mm ZF-S	0.236, 0.236	0.538	ARG	0.039(2) 0.198(4)	ZF-S	N,G	0.35	48	CL	0.24	0.41	0.21	0.36	0.18	0.30
257	SNX62/Arg 5mm ZF-S	0.197, 0.197	0.625	ARG	0.020(2)	ZF-S	N,G	0.38	49	CL	0.18	0.39	0.16	0.33	0.14	0.28
258	SNX62/Arg 6mm ZF-S	0.236, 0.236	0.538	ARG	0.020(2)	ZF-S	N,G	0.37	49	CL	0.18	0.38	0.16	0.33	0.14	0.28
259	SNX62-IS20/Arg 5mm ZF-S	0.197, 0.197	0.625	ARG	0.020(2) 0.198(4)	ZF-S	N,G	0.35	49	CL	0.17	0.38	0.15	0.33	0.13	0.28
260	SNX62-IS20/Arg 6mm ZF-S	0.236, 0.236	0.538	ARG	0.020(2) 0.198(4)	ZF-S	N,G	0.35	49	CL	0.17	0.38	0.15	0.32	0.14	0.27
261	SN68/Arg 5mm TS-D	0.197, 0.197	0.621	ARG	0.039(2)	TS-D	N,G	0.39	48	CL	0.25	0.43	0.22	0.37	0.19	0.31
262	SN68/Arg 6mm TS-D	0.236, 0.236	0.524	ARG	0.039(2)	TS-D	N,G	0.39	48	CL	0.25	0.42	0.22	0.36	0.19	0.31
263	SN68-IS20/Arg 5mm TS-D	0.197, 0.197	0.621	ARG	0.039(2) 0.198(4)	TS-D	N,G	0.36	48	CL	0.24	0.42	0.21	0.36	0.19	0.31
264	SN68-IS20/Arg 6mm TS-D	0.236, 0.236	0.524	ARG	0.039(2) 0.198(4)	TS-D	N,G	0.35	48	CL	0.24	0.41	0.21	0.36	0.18	0.30
265	SNX62/Arg 5mm TS-D	0.197, 0.197	0.621	ARG	0.020(2)	TS-D	N,G	0.38	48	CL	0.18	0.39	0.16	0.33	0.14	0.28
266	SNX62/Arg 6mm TS-D	0.236, 0.236	0.524	ARG	0.020(2)	TS-D	N,G	0.38	48	CL	0.18	0.38	0.16	0.33	0.14	0.28
267	SNX62-IS20/Arg 5mm TS-D	0.197, 0.197	0.621	ARG	0.020(2) 0.198(4)	TS-D	N,G	0.35	48	CL	0.17	0.38	0.15	0.33	0.14	0.28
268	SNX62-IS20/Arg 6mm TS-D	0.236, 0.236	0.524	ARG	0.020(2) 0.198(4)	TS-D	N,G	0.35	48	CL	0.17	0.38	0.15	0.32	0.14	0.27
269	CIG272-Clr-CIG180/Arg 5mm SS-D	0.197, 0.197, 0.197	0.462, 0.462	ARG	0.042(2) 0.068(5)	SS-D	N,G	0.31	49	CL	0.24	0.39	0.21	0.33	0.19	0.28
270	CIG272-Clr-CIG180/Arg 6mm SS-D N	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.042(2) 0.068(5)	SS-D	N	0.32	50	CL	0.24	0.38				
271	CIG272-Clr-CIG180/Arg 6mm SS-D Rect	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.042(2) 0.068(5)	SS-D	G	0.33	50	CL			0.21	0.33		
272	CIG272-Clr-CIG180/Arg 6mm SS-D Cont	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.042(2) 0.068(5)	SS-D	G	0.33	50	CL					0.18	0.28
273	CIG272-CIG180-i89/Arg 5mm SS-D	0.197, 0.197, 0.197	0.462, 0.462	ARG	0.042(2) 0.068(4) 0.149(6)	SS-D	N,G	0.30	48	CL	0.23	0.38	0.20	0.33	0.18	0.28
274	CIG272-CIG180-i89/Arg 6mm SS-D N	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.042(2) 0.068(4) 0.149(6)	SS-D	N	0.30	49	CL	0.23	0.37				
275	CIG272-CIG180-i89/Arg 6mm SS-D Rect	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.042(2) 0.068(4) 0.149(6)	SS-D	G	0.31	49	CL			0.20	0.32		
276	CIG272-CIG180-i89/Arg 6mm SS-D Cont	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.042(2) 0.068(4) 0.149(6)	SS-D	G	0.31	49	CL					0.17	0.27

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**Report Type:** Recertification

**Frame Type:** Aluminum w/Thermal Breaks (AT)

**Simulation Lab Code:** SWWW

**Sash Type:** Aluminum w/Thermal Breaks (AT)

*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
277	CIG180-Clr-CIG180/Arg 5mm SS-D	0.197, 0.197, 0.197	0.462, 0.462	ARG	0.068(2) 0.068(5)	SS-D	N,G	<b>0.32</b>	<b>49</b>	CL	<b>0.35</b>	0.43	<b>0.31</b>	0.37	<b>0.27</b>	0.31
278	CIG180-Clr-CIG180/Arg 6mm SS-D N	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.068(2) 0.068(5)	SS-D	N	<b>0.32</b>	<b>50</b>	CL	<b>0.34</b>	0.42				
279	CIG180-Clr-CIG180/Arg 6mm SS-D Rect	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.068(2) 0.068(5)	SS-D	G	<b>0.33</b>	<b>50</b>	CL			<b>0.30</b>	0.36		
280	CIG180-Clr-CIG180/Arg 6mm SS-D Cont	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.068(2) 0.068(5)	SS-D	G	<b>0.33</b>	<b>50</b>	CL					<b>0.26</b>	0.30
281	CIG180-CIG180-i89/Arg 5mm SS-D	0.197, 0.197, 0.197	0.462, 0.462	ARG	0.068(2) 0.068(4) 0.149(6)	SS-D	N,G	<b>0.30</b>	<b>48</b>	CL	<b>0.33</b>	0.42	<b>0.29</b>	0.36	<b>0.25</b>	0.31
282	CIG180-CIG180-i89/Arg 6mm SS-D N	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.068(2) 0.068(4) 0.149(6)	SS-D	N	<b>0.30</b>	<b>49</b>	CL	<b>0.32</b>	0.41				
283	CIG180-CIG180-i89/Arg 6mm SS-D Rect	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.068(2) 0.068(4) 0.149(6)	SS-D	G	<b>0.31</b>	<b>49</b>	CL			<b>0.28</b>	0.35		
284	CIG180-CIG180-i89/Arg 6mm SS-D Cont	0.236, 0.236, 0.236	0.396, 0.396	ARG	0.068(2) 0.068(4) 0.149(6)	SS-D	G	<b>0.31</b>	<b>49</b>	CL					<b>0.24</b>	0.30
285	SN68-Clr-SN68/Air 5mm A1-D	0.197, 0.197, 0.197	0.468, 0.468	AIR	0.039(2) 0.039(5)	A1-D	N,G	<b>0.35</b>	<b>46</b>	CL	<b>0.22</b>	0.33	<b>0.19</b>	0.28	<b>0.17</b>	0.24
286	SN68-Clr-SN68/Air 6mm A1-D N	0.236, 0.236, 0.236	0.374, 0.374	AIR	0.039(2) 0.039(5)	A1-D	N	<b>0.36</b>	<b>47</b>	CL	<b>0.21</b>	0.32				
287	SN68-Clr-SN68/Air 6mm A1-D Rect	0.236, 0.236, 0.236	0.374, 0.374	AIR	0.039(2) 0.039(5)	A1-D	G	<b>0.38</b>	<b>47</b>	CL			<b>0.19</b>	0.28		
288	SN68-Clr-SN68/Air 6mm A1-D Cont	0.236, 0.236, 0.236	0.374, 0.374	AIR	0.039(2) 0.039(5)	A1-D	G	<b>0.38</b>	<b>47</b>	CL					<b>0.17</b>	0.24
289	SN68-Clr-SN68/Arg 5mm A1-D	0.197, 0.197, 0.197	0.468, 0.468	ARG	0.039(2) 0.039(5)	A1-D	N,G	<b>0.33</b>	<b>46</b>	CL	<b>0.21</b>	0.33	<b>0.19</b>	0.28	<b>0.17</b>	0.24
290	SN68-Clr-SN68/Arg 6mm A1-D N	0.236, 0.236, 0.236	0.374, 0.374	ARG	0.039(2) 0.039(5)	A1-D	N	<b>0.34</b>	<b>47</b>	CL	<b>0.21</b>	0.32				
291	SN68-Clr-SN68/Arg 6mm A1-D Rect	0.236, 0.236, 0.236	0.374, 0.374	ARG	0.039(2) 0.039(5)	A1-D	G	<b>0.35</b>	<b>47</b>	CL			<b>0.19</b>	0.28		
292	SN68-Clr-SN68/Arg 6mm A1-D Cont	0.236, 0.236, 0.236	0.374, 0.374	ARG	0.039(2) 0.039(5)	A1-D	G	<b>0.35</b>	<b>47</b>	CL					<b>0.16</b>	0.24
293	SNX62-Clr-SNX62/Air 5mm A1-D	0.197, 0.197, 0.197	0.468, 0.468	AIR	0.020(2) 0.020(5)	A1-D	N,G	<b>0.35</b>	<b>46</b>	CL	<b>0.16</b>	0.27	<b>0.14</b>	0.23	<b>0.12</b>	0.20
294	SNX62-Clr-SNX62/Air 6mm A1-D N	0.236, 0.236, 0.236	0.374, 0.374	AIR	0.020(2) 0.020(5)	A1-D	N	<b>0.36</b>	<b>47</b>	CL	<b>0.16</b>	0.27				
295	SNX62-Clr-SNX62/Air 6mm A1-D Rect	0.236, 0.236, 0.236	0.374, 0.374	AIR	0.020(2) 0.020(5)	A1-D	G	<b>0.37</b>	<b>47</b>	CL			<b>0.14</b>	0.23		
296	SNX62-Clr-SNX62/Air 6mm A1-D Cont	0.236, 0.236, 0.236	0.374, 0.374	AIR	0.020(2) 0.020(5)	A1-D	G	<b>0.37</b>	<b>47</b>	CL					<b>0.12</b>	0.20
297	SNX62-Clr-SNX62/Arg 5mm A1-D	0.197, 0.197, 0.197	0.468, 0.468	ARG	0.020(2) 0.020(5)	A1-D	N,G	<b>0.33</b>	<b>46</b>	CL	<b>0.16</b>	0.27	<b>0.14</b>	0.23	<b>0.12</b>	0.20
298	SNX62-Clr-SNX62/Arg 6mm A1-D N	0.236, 0.236, 0.236	0.374, 0.374	ARG	0.020(2) 0.020(5)	A1-D	N	<b>0.34</b>	<b>47</b>	CL	<b>0.16</b>	0.27				
299	SNX62-Clr-SNX62/Arg 6mm A1-D Rect	0.236, 0.236, 0.236	0.374, 0.374	ARG	0.020(2) 0.020(5)	A1-D	G	<b>0.35</b>	<b>47</b>	CL			<b>0.14</b>	0.23		
300	SNX62-Clr-SNX62/Arg 6mm A1-D Cont	0.236, 0.236, 0.236	0.374, 0.374	ARG	0.020(2) 0.020(5)	A1-D	G	<b>0.35</b>	<b>47</b>	CL					<b>0.12</b>	0.20

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											SHGC	VT	SHGC	VT	SHGC	VT
301	SN68-Clr-SN68/Arg 5mm ZF-S	0.197, 0.197, 0.197	0.438, 0.438	ARG	0.039(2) 0.039(5)	ZF-S	N,G	<b>0.30</b>	<b>50</b>	CL	<b>0.21</b>	0.33	<b>0.19</b>	0.28	<b>0.17</b>	0.24
302	SN68-Clr-SN68/Arg 6mm ZF-S N	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.039(2) 0.039(5)	ZF-S	N	<b>0.31</b>	<b>50</b>	CL	<b>0.21</b>	0.32				
303	SN68-Clr-SN68/Arg 6mm ZF-S Rect	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.039(2) 0.039(5)	ZF-S	G	<b>0.32</b>	<b>50</b>	CL			<b>0.19</b>	0.28		
304	SN68-Clr-SN68/Arg 6mm ZF-S Cont	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.039(2) 0.039(5)	ZF-S	G	<b>0.32</b>	<b>50</b>	CL					<b>0.16</b>	0.24
305	SN68-SN68-IS20/Arg 5mm ZF-S	0.197, 0.197, 0.197	0.438, 0.438	ARG	0.039(2) 0.039(4) 0.198(6)	ZF-S	N,G	<b>0.29</b>	<b>50</b>	CL	<b>0.19</b>	0.32	<b>0.17</b>	0.27	<b>0.15</b>	0.23
306	SN68-SN68-IS20/Arg 6mm ZF-S N	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.039(2) 0.039(4) 0.198(6)	ZF-S	N	<b>0.30</b>	<b>50</b>	CL	<b>0.19</b>	0.32				
307	SN68-SN68-IS20/Arg 6mm ZF-S Rect	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.039(2) 0.039(4) 0.198(6)	ZF-S	G	<b>0.31</b>	<b>50</b>	CL			<b>0.17</b>	0.27		
308	SN68-SN68-IS20/Arg 6mm ZF-S Cont	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.039(2) 0.039(4) 0.198(6)	ZF-S	G	<b>0.31</b>	<b>50</b>	CL					<b>0.15</b>	0.23
309	SNX62-Clr-SNX62/Arg 5mm ZF-S	0.197, 0.197, 0.197	0.438, 0.438	ARG	0.020(2) 0.020(5)	ZF-S	N,G	<b>0.30</b>	<b>50</b>	CL	<b>0.16</b>	0.27	<b>0.14</b>	0.23	<b>0.12</b>	0.20
310	SNX62-Clr-SNX62/Arg 6mm ZF-S N	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.020(2) 0.020(5)	ZF-S	N	<b>0.31</b>	<b>50</b>	CL	<b>0.16</b>	0.27				
311	SNX62-Clr-SNX62/Arg 6mm ZF-S Rect	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.020(2) 0.020(5)	ZF-S	G	<b>0.32</b>	<b>50</b>	CL			<b>0.14</b>	0.23		
312	SNX62-Clr-SNX62/Arg 6mm ZF-S Cont	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.020(2) 0.020(5)	ZF-S	G	<b>0.32</b>	<b>50</b>	CL					<b>0.12</b>	0.20
313	SNX62-SNX62-IS20/Arg 5mm ZF-S	0.197, 0.197, 0.197	0.438, 0.438	ARG	0.020(2) 0.020(4) 0.198(6)	ZF-S	N,G	<b>0.29</b>	<b>50</b>	CL	<b>0.13</b>	0.26	<b>0.12</b>	0.23	<b>0.11</b>	0.19
314	SNX62-SNX62-IS20/Arg 6mm ZF-S N	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.020(2) 0.020(4) 0.198(6)	ZF-S	N	<b>0.30</b>	<b>50</b>	CL	<b>0.13</b>	0.26				
315	SNX62-SNX62-IS20/Arg 6mm ZF-S Rect	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.020(2) 0.020(4) 0.198(6)	ZF-S	G	<b>0.31</b>	<b>50</b>	CL			<b>0.12</b>	0.22		
316	SNX62-SNX62-IS20/Arg 6mm ZF-S Cont	0.236, 0.236, 0.236	0.375, 0.375	ARG	0.020(2) 0.020(4) 0.198(6)	ZF-S	G	<b>0.31</b>	<b>50</b>	CL					<b>0.11</b>	0.19
317	SN68-SN68-IS20/Arg 5mm TS-D	0.197, 0.197, 0.197	0.462, 0.462	ARG	0.039(2) 0.039(4) 0.198(6)	TS-D	N,G	<b>0.30</b>	<b>49</b>	CL	<b>0.19</b>	0.32	<b>0.17</b>	0.27	<b>0.15</b>	0.23
318	SN68-SN68-IS20/Arg 6mm TS-D N	0.236, 0.236, 0.236	0.399, 0.399	ARG	0.039(2) 0.039(4) 0.198(6)	TS-D	N	<b>0.31</b>	<b>48</b>	CL	<b>0.19</b>	0.32				
319	SN68-SN68-IS20/Arg 6mm TS-D Rect	0.236, 0.236, 0.236	0.399, 0.399	ARG	0.039(2) 0.039(4) 0.198(6)	TS-D	G	<b>0.31</b>	<b>48</b>	CL			<b>0.17</b>	0.27		
320	SN68-SN68-IS20/Arg 6mm TS-D Cont	0.236, 0.236, 0.236	0.399, 0.399	ARG	0.039(2) 0.039(4) 0.198(6)	TS-D	G	<b>0.31</b>	<b>48</b>	CL					<b>0.15</b>	0.23
321	SNX62-SNX62-IS20/Arg 5mm TS-D	0.197, 0.197, 0.197	0.462, 0.462	ARG	0.020(2) 0.020(4) 0.198(6)	TS-D	N,G	<b>0.30</b>	<b>49</b>	CL	<b>0.13</b>	0.26	<b>0.12</b>	0.23	<b>0.11</b>	0.19
322	SNX62-SNX62-IS20/Arg 6mm TS-D N	0.236, 0.236, 0.236	0.399, 0.399	ARG	0.020(2) 0.020(4) 0.198(6)	TS-D	N	<b>0.30</b>	<b>48</b>	CL	<b>0.13</b>	0.26				
323	SNX62-SNX62-IS20/Arg 6mm TS-D Rect	0.236, 0.236, 0.236	0.399, 0.399	ARG	0.020(2) 0.020(4) 0.198(6)	TS-D	G	<b>0.31</b>	<b>48</b>	CL			<b>0.12</b>	0.22		
324	SNX62-SNX62-IS20/Arg 6mm TS-D Cont	0.236, 0.236, 0.236	0.399, 0.399	ARG	0.020(2) 0.020(4) 0.198(6)	TS-D	G	<b>0.31</b>	<b>48</b>	CL					<b>0.11</b>	0.19

The Condensation Resistance results obtained from this procedure are for controlled laboratory conditions and do not include the effects of air movement through the specimen, solar radiation, and the thermal bridging that may occur due to the specific design and construction of the fenestration system opening. (NFRC 500)

# NFRC Product Line Summary (2023 Std)

Simulation Report # FLE25001-SS

**Manufacturer:** Fleetwood Windows & Doors

**Product Line ID:** FLE-M-117

**Simulation Orig Report Date:** 5/20/2025

**Series/Model:** Series 4400-T Pivot Door

**Model Size:** 960mm x 2090mm

**Simulation Revision Date:** 5/20/2025

**Operator Type:** Side-Hinged Exterior Door

**Frame Abs.:** 0.3

**Report Type:** Recertification

**Frame Type:** Aluminum w/Thermal Breaks (AT)

**Simulation Lab Code:** SWWW

**Sash Type:** Aluminum w/Thermal Breaks (AT)

*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
325	CIG366/Arg 6mm SS-D	0.236, 0.236	0.778	ARG	0.020(2)	SS-D	N,G	<b>0.38</b>	<b>49</b>	CL	<b>0.18</b>	0.39	<b>0.16</b>	0.34	<b>0.14</b>	0.29
326	CIG366-i89/Arg 6mm SS-D	0.236, 0.236	0.778	ARG	0.020(2) 0.149(4)	SS-D	N,G	<b>0.35</b>	<b>48</b>	CL	<b>0.18</b>	0.39	<b>0.16</b>	0.33	<b>0.14</b>	0.28
327	CIG272/Arg 6mm SS-D	0.236, 0.236	0.778	ARG	0.042(2)	SS-D	N,G	<b>0.39</b>	<b>49</b>	CL	<b>0.26</b>	0.44	<b>0.23</b>	0.38	<b>0.20</b>	0.32
328	CIG272-i89/Arg 6mm SS-D	0.236, 0.236	0.778	ARG	0.042(2) 0.149(4)	SS-D	N,G	<b>0.35</b>	<b>48</b>	CL	<b>0.26</b>	0.43	<b>0.23</b>	0.37	<b>0.20</b>	0.31
329	CIG180/Arg 6mm SS-D	0.236, 0.236	0.778	ARG	0.068(2)	SS-D	N,G	<b>0.40</b>	<b>49</b>	CL	<b>0.40</b>	0.48	<b>0.34</b>	0.41	<b>0.30</b>	0.35
330	CIG180-i89/Arg 6mm SS-D	0.236, 0.236	0.778	ARG	0.068(2) 0.149(4)	SS-D	N,G	<b>0.36</b>	<b>48</b>	CL	<b>0.38</b>	0.47	<b>0.33</b>	0.40	<b>0.29</b>	0.34
331	Clear/Air 6mm A1-D	0.236, 0.236	0.788	AIR		A1-D	N,G	<b>0.54</b>	<b>43</b>	CL	<b>0.46</b>	0.50	<b>0.40</b>	0.43	<b>0.34</b>	0.36
332	SN68/Air 6mm A1-D	0.236, 0.236	0.788	AIR	0.039(2)	A1-D	N,G	<b>0.44</b>	<b>45</b>	CL	<b>0.25</b>	0.42	<b>0.22</b>	0.36	<b>0.19</b>	0.31
	sBZ-SN68/Air 6mm A1-D	0.236, 0.236	0.788	AIR	0.039(3)	A1-D	N,G	<b>0.44</b>	<b>45</b>	BZ	<b>0.21</b>	0.25	<b>0.19</b>	0.22	<b>0.16</b>	0.19
333	SN68/Arg 6mm A1-D	0.236, 0.236	0.788	ARG	0.039(2)	A1-D	N,G	<b>0.42</b>	<b>45</b>	CL	<b>0.25</b>	0.42	<b>0.22</b>	0.36	<b>0.19</b>	0.31
334	SNX62/Air 6mm A1-D	0.236, 0.236	0.788	AIR	0.020(2)	A1-D	N,G	<b>0.44</b>	<b>45</b>	CL	<b>0.18</b>	0.38	<b>0.16</b>	0.33	<b>0.14</b>	0.28
335	SNX62/Arg 6mm A1-D	0.236, 0.236	0.788	ARG	0.020(2)	A1-D	N,G	<b>0.41</b>	<b>45</b>	CL	<b>0.18</b>	0.38	<b>0.16</b>	0.33	<b>0.14</b>	0.28
336	SN68/Arg 6mm ZF-S	0.236, 0.236	0.750	ARG	0.039(2)	ZF-S	N,G	<b>0.38</b>	<b>50</b>	CL	<b>0.25</b>	0.42	<b>0.22</b>	0.36	<b>0.19</b>	0.31
337	SN68-IS20/Arg 6mm ZF-S	0.236, 0.236	0.750	ARG	0.039(2) 0.198(4)	ZF-S	N,G	<b>0.35</b>	<b>49</b>	CL	<b>0.24</b>	0.41	<b>0.21</b>	0.36	<b>0.18</b>	0.30
338	SNX62/Arg 6mm ZF-S	0.236, 0.236	0.750	ARG	0.020(2)	ZF-S	N,G	<b>0.38</b>	<b>50</b>	CL	<b>0.18</b>	0.38	<b>0.16</b>	0.33	<b>0.14</b>	0.28
339	SNX62-IS20/Arg 6mm ZF-S	0.236, 0.236	0.750	ARG	0.020(2) 0.198(4)	ZF-S	N,G	<b>0.35</b>	<b>49</b>	CL	<b>0.17</b>	0.38	<b>0.15</b>	0.32	<b>0.13</b>	0.27
340	SN68/Arg 6mm TS-D	0.236, 0.236	0.784	ARG	0.039(2)	TS-D	N,G	<b>0.39</b>	<b>48</b>	CL	<b>0.25</b>	0.42	<b>0.22</b>	0.36	<b>0.19</b>	0.31
341	SN68-IS20/Arg 6mm TS-D	0.236, 0.236	0.784	ARG	0.039(2) 0.198(4)	TS-D	N,G	<b>0.36</b>	<b>48</b>	CL	<b>0.24</b>	0.41	<b>0.21</b>	0.36	<b>0.18</b>	0.30
342	SNX62/Arg 6mm TS-D	0.236, 0.236	0.784	ARG	0.020(2)	TS-D	N,G	<b>0.39</b>	<b>49</b>	CL	<b>0.18</b>	0.38	<b>0.16</b>	0.33	<b>0.14</b>	0.28
343	SNX62-IS20/Arg 6mm TS-D	0.236, 0.236	0.784	ARG	0.020(2) 0.198(4)	TS-D	N,G	<b>0.36</b>	<b>48</b>	CL	<b>0.17</b>	0.38	<b>0.15</b>	0.32	<b>0.13</b>	0.27
344	CIG366/Arg 8mm SS-D	0.315, 0.315	0.837	ARG	0.020(2)	SS-D	N,G	<b>0.38</b>	<b>49</b>	CL	<b>0.18</b>	0.39	<b>0.16</b>	0.33	<b>0.14</b>	0.28
345	CIG366-i89/Arg 8mm SS-D	0.315, 0.315	0.837	ARG	0.020(2) 0.149(4)	SS-D	N,G	<b>0.35</b>	<b>49</b>	CL	<b>0.18</b>	0.38	<b>0.16</b>	0.32	<b>0.14</b>	0.28
346	CIG272/Arg 8mm SS-D	0.315, 0.315	0.837	ARG	0.042(2)	SS-D	N,G	<b>0.39</b>	<b>49</b>	CL	<b>0.26</b>	0.43	<b>0.23</b>	0.37	<b>0.20</b>	0.31
347	CIG272-i89/Arg 8mm SS-D	0.315, 0.315	0.837	ARG	0.042(2) 0.149(4)	SS-D	N,G	<b>0.35</b>	<b>49</b>	CL	<b>0.25</b>	0.42	<b>0.22</b>	0.36	<b>0.19</b>	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)

# NFRC Product Line Summary (2023 Std)

Simulation Report # FLE25001-SS

**Manufacturer:** Fleetwood Windows & Doors

**Product Line ID:** FLE-M-117

**Simulation Orig Report Date:** 5/20/2025

**Series/Model:** Series 4400-T Pivot Door

**Model Size:** 960mm x 2090mm

**Simulation Revision Date:** 5/20/2025

**Operator Type:** Side-Hinged Exterior Door

**Frame Abs.:** 0.3

**Report Type:** Recertification

**Frame Type:** Aluminum w/Thermal Breaks (AT)

**Simulation Lab Code:** SWWW

**Sash Type:** Aluminum w/Thermal Breaks (AT)

*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
348	CIG180/Arg 8mm SS-D	0.315, 0.315	0.837	ARG	0.068(2)	SS-D	N,G	<b>0.39</b>	<b>49</b>	CL	<b>0.38</b>	0.47	<b>0.33</b>	0.41	<b>0.28</b>	0.34
349	CIG180-i89/Arg 8mm SS-D	0.315, 0.315	0.837	ARG	0.068(2) 0.149(4)	SS-D	N,G	<b>0.36</b>	<b>48</b>	CL	<b>0.37</b>	0.46	<b>0.32</b>	0.40	<b>0.28</b>	0.34
350	Clear/Air 10mm A1-D	0.394, 0.394	0.726	AIR		A1-D	N,G	<b>0.53</b>	<b>43</b>	CL	<b>0.45</b>	0.49	<b>0.39</b>	0.42	<b>0.34</b>	0.36
351	SN68/Air 10mm A1-D	0.394, 0.394	0.726	AIR	0.039(2)	A1-D	N,G	<b>0.44</b>	<b>45</b>	CL	<b>0.24</b>	0.41	<b>0.21</b>	0.36	<b>0.19</b>	0.30
	sBZ-SN68/Air 10mm A1-D	0.394, 0.394	0.726	AIR	0.039(3)	A1-D	N,G	<b>0.44</b>	<b>45</b>	BZ	<b>0.17</b>	0.17	<b>0.15</b>	0.15	<b>0.13</b>	0.13
352	SN68/Arg 10mm A1-D	0.394, 0.394	0.726	ARG	0.039(2)	A1-D	N,G	<b>0.41</b>	<b>46</b>	CL	<b>0.24</b>	0.41	<b>0.21</b>	0.36	<b>0.18</b>	0.30
353	SNX62/Air 10mm A1-D	0.394, 0.394	0.726	AIR	0.020(2)	A1-D	N,G	<b>0.44</b>	<b>46</b>	CL	<b>0.18</b>	0.38	<b>0.16</b>	0.32	<b>0.14</b>	0.28
354	SNX62/Arg 10mm A1-D	0.394, 0.394	0.726	ARG	0.020(2)	A1-D	N,G	<b>0.41</b>	<b>46</b>	CL	<b>0.18</b>	0.38	<b>0.16</b>	0.32	<b>0.14</b>	0.28
355	SN68/Arg 10mm ZF-S	0.394, 0.394	0.688	ARG	0.039(2)	ZF-S	N,G	<b>0.38</b>	<b>50</b>	CL	<b>0.24</b>	0.41	<b>0.21</b>	0.36	<b>0.18</b>	0.30
356	SN68-IS20/Arg 10mm ZF-S	0.394, 0.394	0.688	ARG	0.039(2) 0.198(4)	ZF-S	N,G	<b>0.35</b>	<b>49</b>	CL	<b>0.23</b>	0.40	<b>0.20</b>	0.34	<b>0.18</b>	0.29
357	SNX62/Arg 10mm ZF-S	0.394, 0.394	0.688	ARG	0.020(2)	ZF-S	N,G	<b>0.37</b>	<b>50</b>	CL	<b>0.18</b>	0.38	<b>0.16</b>	0.32	<b>0.14</b>	0.28
358	SNX62-IS20/Arg 10mm ZF-S	0.394, 0.394	0.688	ARG	0.020(2) 0.198(4)	ZF-S	N,G	<b>0.34</b>	<b>49</b>	CL	<b>0.17</b>	0.36	<b>0.15</b>	0.31	<b>0.13</b>	0.27
359	SN68/Arg 10mm TS-D	0.394, 0.394	0.714	ARG	0.039(2)	TS-D	N,G	<b>0.39</b>	<b>49</b>	CL	<b>0.24</b>	0.41	<b>0.21</b>	0.36	<b>0.18</b>	0.30
360	SN68-IS20/Arg 10mm TS-D	0.394, 0.394	0.714	ARG	0.039(2) 0.198(4)	TS-D	N,G	<b>0.35</b>	<b>48</b>	CL	<b>0.23</b>	0.40	<b>0.20</b>	0.34	<b>0.18</b>	0.29
361	SNX62/Arg 10mm TS-D	0.394, 0.394	0.714	ARG	0.020(2)	TS-D	N,G	<b>0.38</b>	<b>49</b>	CL	<b>0.18</b>	0.38	<b>0.16</b>	0.32	<b>0.14</b>	0.28
362	SNX62-IS20/Arg 10mm TS-D	0.394, 0.394	0.714	ARG	0.020(2) 0.198(4)	TS-D	N,G	<b>0.35</b>	<b>48</b>	CL	<b>0.17</b>	0.36	<b>0.15</b>	0.31	<b>0.13</b>	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)



An NFRC Accredited  
Simulation Laboratory

# ANSI/NFRC 100/200-2023 /NFRC 500-2017 Simulation Report

**Manufacturer:** Fleetwood Windows & Doors

**Contact:** Kevin Nguyen

**Address:** 1 Fleetwood Way  
Corona, CA 92879

**Phone:** 951-279-1070

**Model/Series:** Series 4400-T Pivot Door

## RECERTIFICATION REPORT

WESTLab Report No.:

**FLE25001-SS**

WESTLab Report Date:

**5/20/2025**

Revision/Addendum Date:

**5/20/2025**

NFRC Product Line ID:

**FLE-M-117**

Report Type:

**Recertification**

**Operator Type:** Side-Hinged Exterior Door

**Frame Type:** Aluminum w/Thermal Breaks (AT)

**Sash Type:** Aluminum w/Thermal Breaks (AT)

### Baseline Product for U-Factor Validation Testing:

**Description:** Validation Unit Triple Glazed IG: 5mm Guardian SN68 (e=0.039, sfc#2), 0.468" Air-filled gap, 5mm Clear, 0.468" Air-filled gap, 5mm Guardian SN68 (e=0.039 sfc#5) with Aluminum Box spacer and no grids. The validation unit has an anodized finish. See W7 Option #999 for area weighted calculations.

**Simulated U-factor:** **0.38**

**Test Size (mm):** 960 x 2090 (37.8in. x 82.3in.)

**Physical Test Tolerance:** 0.34 to 0.42

**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 100-2023) unless otherwise noted in the "Other Notes and Comments" section.

Signature of Simulator  
In-Responsible-Charge:

*Staci Zastrow*

Staci Zastrow, Certified Simulator

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