

FRAMELESS GLASS CURTAINS LIMITED COMPUTER SIMULATION REPORT

SCOPE OF WORK

FOLDING DOOR SYSTEM - NFRC 100/200/500

REPORT NUMBER

S2916.03-116-45 R4

TEST DATE

06/26/25

ISSUE DATE

06/26/25

REVISION DATE

03/31/26

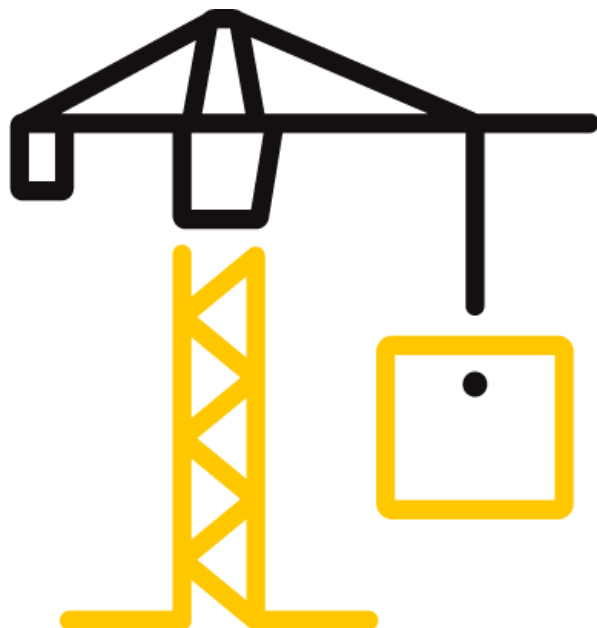
PAGES

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TEST REPORT FOR FRAMELESS GLASS CURTAINS LIMITED

Report No: S2916.03-116-45 R4

Date: 03/31/26

REPORT ISSUED TO

FRAMELESS GLASS CURTAINS LIMITED

Unit 6, Ballard Business Park, Cuxton Road
Strood, Kent ME2 2NY, United Kingdom

SECTION 1


SUMMARY

SERIES/MODEL: Folding Door System

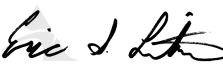
Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted to perform U-Factor, Solar Heat Gain Coefficient, Visible Transmittance and Condensation Resistance simulations in accordance with the National Fenestration Rating Council (NFRC).

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends five years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained for the entire test record retention period.

FOR INTERTEK B&C:

COMPLETED BY:	Cody L. French
TITLE:	Simulation Technician
SIGNATURE:	 <small>Digitally Signed by: Cody French</small>
DATE:	03/31/26

CLF:clf

REVIEWED BY:	Eric S. Leitner
TITLE:	Manager - Simulations & Thermal Testing, SIRC
SIGNATURE:	 <small>Digitally Signed by: Eric S. Leitner</small>
DATE:	03/31/26

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SECTION 2

TEST METHODS

The products were evaluated in accordance with the following:

ANSI/NFRC 100-2023, Procedure for Determining Fenestration Product U-Factors

ANSI/NFRC 200-2023, Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence

NFRC 500-2017, Procedure for Determining Fenestration Product Condensation Resistance Values

**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.*

Ratings values included in this report are for submittals to an NFRC-licensed IA and are not meant to be used directly for labeling purposes. Only those values identified on a valid Certificate of Authorization (CA) by an NFRC accredited Inspection Agency (IA) are to be used for labeling purposes. The ratings values were rounded in accordance with NFRC 601, NFRC Unit and Measurement Policy.

Intertek B&C is an NFRC accredited simulation laboratory and all simulations were conducted in full compliance with NFRC approved procedures and specifications. The values included in this report are not considered in compliance with ANSI/NFRC 100, ANSI/NFRC 200, and/or NFRC 500 unless the associated validation test requirements have been satisfied, as applicable.



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SECTION 3

TEST PROCEDURE

The total product, including specific frame, spacer, and glass details, was modeled using NFRC approved software.

FRAME AND EDGE MODELING	THERM 7.8.71
CENTER-OF-GLASS MODELING	WINDOW 7.8.71
TOTAL PRODUCT CALCULATIONS	WINDOW 7.8.71
SPECTRAL DATA LIBRARY	IGDB 110

Modeling Assumptions / Technical Interpretations

Any modeling assumptions and technical interpretations required to model this product are listed below.

- 1) To prevent air infiltration, tape was applied to all interior sash crack locations.

SECTION 4

SIMULATION SPECIMEN DESCRIPTION

SERIES/MODEL	Folding Door System
PRODUCT TYPE	Swinging Entrance Door (Double)
FRAME MATERIAL	AT - Aluminum w/ Thermal Breaks
SASH MATERIAL	AT - Aluminum w/ Thermal Breaks
STANDARD SIZE	1920mm x 2090mm



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SECTION 4 (Continued)

SIMULATION SPECIMEN DESCRIPTION

SPACER OPTIONS			
TYPE	PRIMARY SEAL	SECONDARY SEAL	CODE
Glass Spacer Bar	Butyl Rubber	-	GL-S

GRID OPTIONS		
GRID SIZE	GRID TYPE	GRID PATTERN
None	-	-

REINFORCEMENT OPTIONS	
LOCATION	MATERIAL
None	-

GAS FILLING TECHNIQUE	
FILL TYPE	METHOD
90% Argon	Single Probe
90% Krypton	Dual Probe

EDGE-OF-GLASS CONSTRUCTION	
INTERIOR CONDITION	Silicone sealant between aluminum sash and glazing
EXTERIOR CONDITION	Silicone sealant between aluminum sash and glazing

WEATHERSTRIPPING		
TYPE	QUANTITY	LOCATION
Foam Gasket	1 row	Top/Bottom rail
Foam Gasket	4 rows	Stiles
Finpiles	3 rows	Top/Bottom rail
Finpiles	2 rows	Stiles
PVC strip	2 rows	Sill
Finpiles	4 rows	Head

FRAME/SASH MATERIALS FINISH	
INTERIOR	Aluminum (Painted)
EXTERIOR	Aluminum (Painted)

VALIDATION MATRIX*	
PRODUCT LINE	REPORT NUMBER
None	-

**These products are part of a validation matrix. Only one is required for validation testing.*



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SECTION 5

SPECIALTY PRODUCTS TABLE

The specialty products method allows the manufacturer to determine the overall product SHGC and VT for any glazing option. The center of glass SHGC and/or VT must be determined using WINDOW 7.8.71. The method calculates overall product SHGC and VT indexed on center of glass properties. All values used in the calculations are truncated to six decimal place precision.

	No Dividers	Dividers < 1	Dividers > 1
SHGC0	0.016516	0.019662	0.022594
SHGC1	0.763729	0.671299	0.585167
VT0	0.000000	0.000000	0.000000
VT1	0.747213	0.651637	0.562573

$$SHGC = SHGC0 + SHGCc (SHGC1 - SHGC0)$$

$$VT = VT0 + VTc (VT1 - VT0)$$



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SECTION 6

SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (Folding Door System)												
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft ² -F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
1	NO FOAM: Planiclear / ARG90 / PlanithermONE (4mm/4mm) 28mm IG											
	0.157	0.787	0.157					ARG90	0.030(#3)	CL	GL-S	N
	U-Factor 0.38			SHGC(N) 0.38				VT(N) 0.53		CR 40		
2	NO FOAM: Planiclear / ARG90 / PlanithermONE (4mm/6mm) 30mm IG											
	0.157	0.787	0.236					ARG90	0.030(#3)	CL	GL-S	N
	U-Factor 0.38			SHGC(N) 0.38				VT(N) 0.53		CR 41		
3	NO FOAM: Planiclear / ARG90 / PlanithermONE (6mm/6mm) 32mm IG											
	0.236	0.787	0.236					ARG90	0.030(#3)	CL	GL-S	N
	U-Factor 0.38			SHGC(N) 0.38				VT(N) 0.52		CR 40		
4	NO FOAM: Planiclear / ARG90 / Planiclear / ARG90 / PlanithermONE (4mm/4mm/4mm) 32mm IG											
	0.157	0.394	0.157	0.394	0.157			ARG90	0.030(#5)	CL	GL-S	N
	U-Factor 0.33			SHGC(N) 0.36				VT(N) 0.49		CR 40		
5	NO FOAM: PlanithermONE / ARG90 / Planiclear (4mm/4mm) 28mm IG											
	0.157	0.787	0.157					ARG90	0.030(#2)	CL	GL-S	N
	U-Factor 0.38			SHGC(N) 0.35				VT(N) 0.53		CR 41		
6	NO FOAM: PlanithermONE / ARG90 / Planiclear (4mm/6mm) 30mm IG											
	0.157	0.787	0.236					ARG90	0.030(#2)	CL	GL-S	N
	U-Factor 0.38			SHGC(N) 0.35				VT(N) 0.53		CR 41		
7	NO FOAM: PlanithermONE / ARG90 / Planiclear (6mm/6mm) 32mm IG											
	0.236	0.787	0.236					ARG90	0.030(#2)	CL	GL-S	N
	U-Factor 0.38			SHGC(N) 0.34				VT(N) 0.52		CR 41		
8	NO FOAM: PlanithermONE / ARG90 / Planiclear / ARG90 / Planiclear (4mm/4mm/4mm) 32mm IG											
	0.157	0.394	0.157	0.394	0.157			ARG90	0.030(#2)	CL	GL-S	N
	U-Factor 0.33			SHGC(N) 0.33				VT(N) 0.49		CR 42		
9	NO FOAM: PLANICLEAR / ARG90 / PLANITHERM ONE (6mm/6mm) 32mm IG											
	0.236	0.787	0.236					ARG90	0.030(#3)	CL	GL-S	N
	U-Factor 0.38			SHGC(N) 0.38				VT(N) 0.52		CR 40		
10	NO FOAM: PLANITHERM ONE / ARG90 / PLANICLEAR / ARG90 / PLANITHERM ONE (4mm/4mm/4mm) 32mm IG											
	0.157	0.394	0.157	0.394	0.157			ARG90	0.030(#2) / 0.030(#5)	CL	GL-S	N
	U-Factor 0.29			SHGC(N) 0.28				VT(N) 0.42		CR 41		



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SECTION 6 (Continued)
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (Folding Door System)												
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft ² -F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
11	NO FOAM: COOL-LITE SKN 176 II / ARG90 / PLANICLEAR (6mm/6mm) 32mm IG											
	0.236	0.787	0.236					ARG90	0.016(#2)	CL	GL-S	N
	U-Factor 0.38			SHGC(N) 0.26				VT(N) 0.52		CR 41		
12	NO FOAM: COOL-LITE SKN 176 II / ARG90 / PLANICLEAR / ARG90 / PLANICLEAR (4mm/4mm/4mm) 32mm IG											
	0.157	0.394	0.157	0.394	0.157			ARG90	0.016(#2)	CL	GL-S	N
	U-Factor 0.33			SHGC(N) 0.25				VT(N) 0.48		CR 42		
13	NO FOAM: LAMI / ARG90 / PLANITHERM ONE (4mm 1.5PVB 4mm/6mm) 35.5mm IG											
	0.375	0.787	0.236					ARG90	0.030(#3)	CL	GL-S	N
	U-Factor 0.37			SHGC(N) 0.36				VT(N) 0.52		CR 41		
14	NO FOAM: COOL-LITE SKN 176 II / ARG90 / LAMI (6mm/4mm 1.5mmPVB 4mm) 35.5mm IG											
	0.236	0.787	0.375					ARG90	0.016(#2)	CL	GL-S	N
	U-Factor 0.37			SHGC(N) 0.26				VT(N) 0.51		CR 42		
15	NO FOAM: PLANICLEAR / KRY90 / PLANITHERM ONE (6mm/6mm) 32mm IG											
	0.236	0.787	0.236					KRY90	0.030(#3)	CL	GL-S	N
	U-Factor 0.36			SHGC(N) 0.38				VT(N) 0.52		CR 40		
16	NO FOAM: PLANITHERM ONE / KRY90 / PLANICLEAR / KRY90 / PLANITHERM ONE (4mm/4mm/4mm) 32mm IG											
	0.157	0.394	0.157	0.394	0.157			KRY90	0.030(#2) / 0.030(#5)	CL	GL-S	N
	U-Factor 0.27			SHGC(N) 0.28				VT(N) 0.42		CR 41		
17	NO FOAM: COOL-LITE SKN 176 II / KRY90 / PLANICLEAR (6mm/6mm) 32mm IG											
	0.236	0.787	0.236					KRY90	0.016(#2)	CL	GL-S	N
	U-Factor 0.36			SHGC(N) 0.26				VT(N) 0.52		CR 41		
18	NO FOAM: COOL-LITE SKN 176 II / KRY90 / PLANICLEAR / KRY90 / PLANICLEAR (4mm/4mm/4mm) 32mm IG											
	0.157	0.394	0.157	0.394	0.157			KRY90	0.016(#2)	CL	GL-S	N
	U-Factor 0.31			SHGC(N) 0.25				VT(N) 0.48		CR 42		
19	NO FOAM: LAMI / KRY90 / PLANITHERM ONE (4mm 1.5PVB 4mm/6mm) 35.5mm IG											
	0.375	0.787	0.236					KRY90	0.030(#3)	CL	GL-S	N
	U-Factor 0.36			SHGC(N) 0.36				VT(N) 0.52		CR 41		
20	NO FOAM: COOL-LITE SKN 176 II / KRY90 / LAMI (6mm/4mm 1.5mmPVB 4mm) 35.5mm IG											
	0.236	0.787	0.375					KRY90	0.016(#2)	CL	GL-S	N
	U-Factor 0.35			SHGC(N) 0.26				VT(N) 0.51		CR 42		



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SECTION 6 (Continued)
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (Folding Door System)												
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft ² -F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
21	NO FOAM: KGLASS / ARGON90 / PLANITHERMONE (4MM/4MM) 20MM IG											
	0.150	0.472	0.157					ARG90	0.168(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.37			SHGC(N) 0.35				VT(N) 0.49		CR 41		
22	NO FOAM: COOL-LITE SKN 176 II / ARGON90 / PLANITHERMONE (4MM/4MM) 20MM IG											
	0.157	0.472	0.157					ARG90	0.016(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.37			SHGC(N) 0.24				VT(N) 0.45		CR 41		
23	NO FOAM: KGLASS / ARGON90 / PLANITHERMONE (4MM/4MM) 23MM IG											
	0.150	0.591	0.157					ARG90	0.168(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.38			SHGC(N) 0.35				VT(N) 0.49		CR 41		
24	NO FOAM: COOL-LITE SKN 176 II / ARGON90 / PLANITHERMONE (4MM/4MM) 23MM IG											
	0.157	0.591	0.157					ARG90	0.016(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.37			SHGC(N) 0.24				VT(N) 0.45		CR 41		
25	NO FOAM: KGLASSN / ARGON90 / PLANITHERMONE (6MM/6MM) 24MM IG											
	0.230	0.472	0.236					ARG90	0.157(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.37			SHGC(N) 0.34				VT(N) 0.48		CR 40		
26	NO FOAM: COOL-LITE SKN 176 II / ARGON90 / KGLASSN (6MM/6MM) 24MM IG											
	0.236	0.472	0.230					ARG90	0.016(#2) / 0.157(#4)	CL	GL-S	N
	U-Factor 0.32			SHGC(N) 0.25				VT(N) 0.48		CR 36		
27	NO FOAM: KGLASSN / ARGON90 / PLANITHERMONE (6MM/6MM) 24MM IG											
	0.230	0.472	0.236					ARG90	0.157(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.37			SHGC(N) 0.34				VT(N) 0.48		CR 40		
28	NO FOAM: COOL-LITE SKN 176 II / ARGON90 / PLANITHERMONE (6MM/6MM) 24MM IG											
	0.236	0.472	0.236					ARG90	0.016(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.37			SHGC(N) 0.24				VT(N) 0.45		CR 41		
29	NO FOAM: PLANITHERMONE lami33-1 / KRY90 / KGLASSN (3MM 015PVB 3MM/6MM) 24.23MM IG											
	0.251	0.472	0.230					KRY90	0.013(#2) / 0.157(#3)	CL	GL-S	N
	U-Factor 0.35			SHGC(N) 0.32				VT(N) 0.48		CR 41		
30	NO FOAM: PLANITHERMONE lami33-1 / ARGON90 / KGLASSN (3MM 015PVB 3MM/6MM) 24.23MM IG											
	0.251	0.472	0.230					ARG90	0.013(#2) / 0.157(#3)	CL	GL-S	N
	U-Factor 0.36			SHGC(N) 0.32				VT(N) 0.48		CR 41		



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SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (Folding Door System)												
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft ² -F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
31	NO FOAM: KGLASSN / ARGON90 / PLANITHERMONE (6MM/6MM) 27MM IG											
	0.230	0.591	0.236					ARG90	0.157(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.37			SHGC(N) 0.34				VT(N) 0.48		CR 40		
32	NO FOAM: COOL-LITE SKN 176 II / ARGON90 / KGLASSN (6MM/6MM) 27MM IG											
	0.236	0.591	0.230					ARG90	0.016(#2) / 0.157(#4)	CL	GL-S	N
	U-Factor 0.32			SHGC(N) 0.25				VT(N) 0.48		CR 37		
33	NO FOAM: KGLASSN / KRY90 / PLANITHERMONE (6MM/6MM) 27MM IG											
	0.230	0.591	0.236					KRY90	0.157(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.36			SHGC(N) 0.34				VT(N) 0.48		CR 41		
34	NO FOAM: COOL-LITE SKN 176 II / KRY90 / PLANITHERMONE (6MM/6MM) 27MM IG											
	0.236	0.591	0.236					KRY90	0.016(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.36			SHGC(N) 0.23				VT(N) 0.45		CR 41		
35	NO FOAM: PLANITHERMONE lami33-1 / KRY90 / KGLASSN (3MM 015PVB 3MM/6MM) 27.23MM IG											
	0.251	0.591	0.230					KRY90	0.013(#2) / 0.157(#4)	CL	GL-S	N
	U-Factor 0.31			SHGC(N) 0.32				VT(N) 0.48		CR 39		
36	NO FOAM: PLANITHERMONE lami33-1 / ARGON90 / KGLASSN (3MM 015PVB 3MM/6MM) 27.23MM IG											
	0.251	0.591	0.230					ARG90	0.013(#2) / 0.157(#4)	CL	GL-S	N
	U-Factor 0.31			SHGC(N) 0.32				VT(N) 0.48		CR 38		
37	NO FOAM: KGLASS / KRY90 / PLANITHERMONE / KRY90 / PLANITHERMONE (4MM/4MM/4MM) 32MM IG											
	0.150	0.394	0.157	0.394	0.157			KRY90	0.168(#2) / 0.030(#3) / 0.030(#5)	CL	GL-S	N
	U-Factor 0.27			SHGC(N) 0.28				VT(N) 0.40		CR 41		
38	NO FOAM: KGLASS / ARG90 / PLANITHERMONE / ARG90 / PLANITHERMONE (4MM/4MM/4MM) 32MM IG											
	0.150	0.394	0.157	0.394	0.157			ARG90	0.168(#2) / 0.030(#3) / 0.030(#5)	CL	GL-S	N
	U-Factor 0.29			SHGC(N) 0.28				VT(N) 0.40		CR 41		
39	NO FOAM: COOL-LITE SKN 176 II / KRY90 / PLANICLEAR / KRY90 / KGLASS (4MM/4MM/4MM) 32MM IG											
	0.157	0.394	0.157	0.394	0.150			KRY90	0.016(#2) / 0.168(#6)	CL	GL-S	N
	U-Factor 0.28			SHGC(N) 0.24				VT(N) 0.45		CR 39		
40	NO FOAM: COOL-LITE SKN 176 II / KRY90 / PLANICLEAR / KRY90 / PLANITHERMONE (4MM/4MM/4MM) 32MM IG											
	0.157	0.394	0.157	0.394	0.157			KRY90	0.016(#2) / 0.030(#5)	CL	GL-S	N
	U-Factor 0.27			SHGC(N) 0.22				VT(N) 0.42		CR 41		



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TEST REPORT FOR FRAMELESS GLASS CURTAINS LIMITED

Report No: S2916.03-116-45 R4

Date: 03/31/26

SECTION 6 (Continued)
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (Folding Door System)												
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft ² -F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
41	FOAM: Planiclear / ARG90 / PlanithermONE (4mm/4mm) 28mm IG											
	0.157	0.787	0.157					ARG90	0.030(#3)	CL	GL-S	N
	U-Factor 0.38			SHGC(N) 0.38				VT(N) 0.53		CR 41		
42	FOAM: Planiclear / ARG90 / PlanithermONE (4mm/6mm) 30mm IG											
	0.157	0.787	0.236					ARG90	0.030(#3)	CL	GL-S	N
	U-Factor 0.38			SHGC(N) 0.38				VT(N) 0.53		CR 42		
43	FOAM: Planiclear / ARG90 / PlanithermONE (6mm/6mm) 32mm IG											
	0.236	0.787	0.236					ARG90	0.030(#3)	CL	GL-S	N
	U-Factor 0.38			SHGC(N) 0.38				VT(N) 0.52		CR 41		
44	FOAM: Planiclear / ARG90 / Planiclear / ARG90 / PlanithermONE (4mm/4mm/4mm) 32mm IG											
	0.157	0.394	0.157	0.394	0.157			ARG90	0.030(#5)	CL	GL-S	N
	U-Factor 0.33			SHGC(N) 0.36				VT(N) 0.49		CR 40		
45	FOAM: PlanithermONE / ARG90 / Planiclear (4mm/4mm) 28mm IG											
	0.157	0.787	0.157					ARG90	0.030(#2)	CL	GL-S	N
	U-Factor 0.38			SHGC(N) 0.35				VT(N) 0.53		CR 42		
46	FOAM: PlanithermONE / ARG90 / Planiclear (4mm/6mm) 30mm IG											
	0.157	0.787	0.236					ARG90	0.030(#2)	CL	GL-S	N
	U-Factor 0.38			SHGC(N) 0.35				VT(N) 0.53		CR 42		
47	FOAM: PlanithermONE / ARG90 / Planiclear (6mm/6mm) 32mm IG											
	0.236	0.787	0.236					ARG90	0.030(#2)	CL	GL-S	N
	U-Factor 0.38			SHGC(N) 0.34				VT(N) 0.52		CR 42		
48	FOAM: PlanithermONE / ARG90 / Planiclear / ARG90 / Planiclear (4mm/4mm/4mm) 32mm IG											
	0.157	0.394	0.157	0.394	0.157			ARG90	0.030(#2)	CL	GL-S	N
	U-Factor 0.33			SHGC(N) 0.33				VT(N) 0.49		CR 42		
49	FOAM: PLANICLEAR / ARG90 / PLANITHERM ONE (6mm/6mm) 32mm IG											
	0.236	0.787	0.236					ARG90	0.030(#3)	CL	GL-S	N
	U-Factor 0.38			SHGC(N) 0.38				VT(N) 0.52		CR 41		
50	FOAM: PLANITHERM ONE / ARG90 / PLANICLEAR / ARG90 / PLANITHERM ONE (4mm/4mm/4mm) 32mm IG											
	0.157	0.394	0.157	0.394	0.157			ARG90	0.030(#2) / 0.030(#5)	CL	GL-S	N
	U-Factor 0.29			SHGC(N) 0.28				VT(N) 0.42		CR 41		



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Report No: S2916.03-116-45 R4

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SECTION 6 (Continued)
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (Folding Door System)												
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft ² -F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
51	FOAM: COOL-LITE SKN 176 II / ARG90 / PLANICLEAR (6mm/6mm) 32mm IG											
	0.236	0.787	0.236					ARG90	0.016(#2)	CL	GL-S	N
	U-Factor 0.37			SHGC(N) 0.26				VT(N) 0.52		CR 42		
52	FOAM: COOL-LITE SKN 176 II / ARG90 / PLANICLEAR / ARG90 / PLANICLEAR (4mm/4mm/4mm) 32mm IG											
	0.157	0.394	0.157	0.394	0.157			ARG90	0.016(#2)	CL	GL-S	N
	U-Factor 0.33			SHGC(N) 0.25				VT(N) 0.48		CR 42		
53	FOAM: LAMI / ARG90 / PLANITHERM ONE (4mm 1.5PVB 4mm/6mm) 35.5mm IG											
	0.375	0.787	0.236					ARG90	0.030(#3)	CL	GL-S	N
	U-Factor 0.37			SHGC(N) 0.36				VT(N) 0.52		CR 42		
54	FOAM: COOL-LITE SKN 176 II / ARG90 / LAMI (6mm/4mm 1.5mmPVB 4mm) 35.5mm IG											
	0.236	0.787	0.375					ARG90	0.016(#2)	CL	GL-S	N
	U-Factor 0.37			SHGC(N) 0.26				VT(N) 0.51		CR 43		
55	FOAM: PLANICLEAR / KRY90 / PLANITHERM ONE (6mm/6mm) 32mm IG											
	0.236	0.787	0.236					KRY90	0.030(#3)	CL	GL-S	N
	U-Factor 0.36			SHGC(N) 0.38				VT(N) 0.52		CR 41		
56	FOAM: PLANITHERM ONE / KRY90 / PLANICLEAR / KRY90 / PLANITHERM ONE (4mm/4mm/4mm) 32mm IG											
	0.157	0.394	0.157	0.394	0.157			KRY90	0.030(#2) / 0.030(#5)	CL	GL-S	N
	U-Factor 0.27			SHGC(N) 0.28				VT(N) 0.42		CR 41		
57	FOAM: COOL-LITE SKN 176 II / KRY90 / PLANICLEAR (6mm/6mm) 32mm IG											
	0.236	0.787	0.236					KRY90	0.016(#2)	CL	GL-S	N
	U-Factor 0.35			SHGC(N) 0.26				VT(N) 0.52		CR 42		
58	FOAM: COOL-LITE SKN 176 II / KRY90 / PLANICLEAR / KRY90 / PLANICLEAR (4mm/4mm/4mm) 32mm IG											
	0.157	0.394	0.157	0.394	0.157			KRY90	0.016(#2)	CL	GL-S	N
	U-Factor 0.31			SHGC(N) 0.25				VT(N) 0.48		CR 42		
59	FOAM: LAMI / KRY90 / PLANITHERM ONE (4mm 1.5PVB 4mm/6mm) 35.5mm IG											
	0.375	0.787	0.236					KRY90	0.030(#3)	CL	GL-S	N
	U-Factor 0.35			SHGC(N) 0.36				VT(N) 0.52		CR 42		
60	FOAM: COOL-LITE SKN 176 II / KRY90 / LAMI (6mm/4mm 1.5mmPVB 4mm) 35.5mm IG											
	0.236	0.787	0.375					KRY90	0.016(#2)	CL	GL-S	N
	U-Factor 0.35			SHGC(N) 0.26				VT(N) 0.51		CR 43		



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SECTION 6 (Continued)
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (Folding Door System)												
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft ² -F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
61	FOAM: KGLASS / ARGON90 / PLANITHERMONE (4MM/4MM) 20MM IG											
	0.150	0.472	0.157					ARG90	0.168(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.37			SHGC(N) 0.35				VT(N) 0.49		CR 41		
62	FOAM: COOL-LITE SKN 176 II / ARGON90 / PLANITHERMONE (4MM/4MM) 20MM IG											
	0.157	0.472	0.157					ARG90	0.016(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.36			SHGC(N) 0.24				VT(N) 0.45		CR 42		
63	FOAM: KGLASS / ARGON90 / PLANITHERMONE (4MM/4MM) 23MM IG											
	0.150	0.591	0.157					ARG90	0.168(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.37			SHGC(N) 0.35				VT(N) 0.49		CR 41		
64	FOAM: COOL-LITE SKN 176 II / ARGON90 / PLANITHERMONE (4MM/4MM) 23MM IG											
	0.157	0.591	0.157					ARG90	0.016(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.37			SHGC(N) 0.24				VT(N) 0.45		CR 41		
65	FOAM: KGLASSN / ARGON90 / PLANITHERMONE (6MM/6MM) 24MM IG											
	0.230	0.472	0.236					ARG90	0.157(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.37			SHGC(N) 0.34				VT(N) 0.48		CR 41		
66	FOAM: COOL-LITE SKN 176 II / ARGON90 / KGLASSN (6MM/6MM) 24MM IG											
	0.236	0.472	0.230					ARG90	0.016(#2) / 0.157(#4)	CL	GL-S	N
	U-Factor 0.31			SHGC(N) 0.25				VT(N) 0.48		CR 36		
67	FOAM: KGLASSN / ARGON90 / PLANITHERMONE (6MM/6MM) 24MM IG											
	0.230	0.472	0.236					ARG90	0.157(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.37			SHGC(N) 0.34				VT(N) 0.48		CR 41		
68	FOAM: COOL-LITE SKN 176 II / ARGON90 / PLANITHERMONE (6MM/6MM) 24MM IG											
	0.236	0.472	0.236					ARG90	0.016(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.36			SHGC(N) 0.24				VT(N) 0.45		CR 41		
69	FOAM: PLANITHERMONE lami33-1 / KRY90 / KGLASSN (3MM 015PVB 3MM/6MM) 24.23MM IG											
	0.251	0.472	0.230					KRY90	0.013(#2) / 0.157(#3)	CL	GL-S	N
	U-Factor 0.35			SHGC(N) 0.32				VT(N) 0.48		CR 42		
70	FOAM: PLANITHERMONE lami33-1 / ARGON90 / KGLASSN (3MM 015PVB 3MM/6MM) 24.23MM IG											
	0.251	0.472	0.230					ARG90	0.013(#2) / 0.157(#3)	CL	GL-S	N
	U-Factor 0.36			SHGC(N) 0.32				VT(N) 0.48		CR 42		



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SECTION 6 (Continued)
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (Folding Door System)												
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft ² -F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
71	FOAM: KGLASSN / ARGON90 / PLANITHERMONE (6MM/6MM) 27MM IG											
	0.230	0.591	0.236					ARG90	0.157(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.37			SHGC(N) 0.34				VT(N) 0.48		CR 41		
72	FOAM: COOL-LITE SKN 176 II / ARGON90 / KGLASSN (6MM/6MM) 27MM IG											
	0.236	0.591	0.230					ARG90	0.016(#2) / 0.157(#4)	CL	GL-S	N
	U-Factor 0.32			SHGC(N) 0.25				VT(N) 0.48		CR 37		
73	FOAM: KGLASSN / KRY90 / PLANITHERMONE (6MM/6MM) 27MM IG											
	0.230	0.591	0.236					KRY90	0.157(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.36			SHGC(N) 0.34				VT(N) 0.48		CR 41		
74	FOAM: COOL-LITE SKN 176 II / KRY90 / PLANITHERMONE (6MM/6MM) 27MM IG											
	0.236	0.591	0.236					KRY90	0.016(#2) / 0.030(#3)	CL	GL-S	N
	U-Factor 0.36			SHGC(N) 0.23				VT(N) 0.45		CR 41		
75	FOAM: PLANITHERMONE lami33-1 / KRY90 / KGLASSN (3MM 015PVB 3MM/6MM) 27.23MM IG											
	0.251	0.591	0.230					KRY90	0.013(#2) / 0.157(#4)	CL	GL-S	N
	U-Factor 0.30			SHGC(N) 0.32				VT(N) 0.48		CR 39		
76	FOAM: PLANITHERMONE lami33-1 / ARGON90 / KGLASSN (3MM 015PVB 3MM/6MM) 27.23MM IG											
	0.251	0.591	0.230					ARG90	0.013(#2) / 0.157(#4)	CL	GL-S	N
	U-Factor 0.31			SHGC(N) 0.32				VT(N) 0.48		CR 38		
77	FOAM: KGLASS / KRY90 / PLANITHERMONE / KRY90 / PLANITHERMONE (4MM/4MM/4MM) 32MM IG											
	0.150	0.394	0.157	0.394	0.157			KRY90	0.168(#2) / 0.030(#3) / 0.030(#5)	CL	GL-S	N
	U-Factor 0.26			SHGC(N) 0.28				VT(N) 0.40		CR 42		
78	FOAM: KGLASS / ARG90 / PLANITHERMONE / ARG90 / PLANITHERMONE (4MM/4MM/4MM) 32MM IG											
	0.150	0.394	0.157	0.394	0.157			ARG90	0.168(#2) / 0.030(#3) / 0.030(#5)	CL	GL-S	N
	U-Factor 0.29			SHGC(N) 0.28				VT(N) 0.40		CR 42		
79	FOAM: COOL-LITE SKN 176 II / KRY90 / PLANICLEAR / KRY90 / KGLASS (4MM/4MM/4MM) 32MM IG											
	0.157	0.394	0.157	0.394	0.150			KRY90	0.016(#2) / 0.168(#6)	CL	GL-S	N
	U-Factor 0.27			SHGC(N) 0.24				VT(N) 0.45		CR 40		
80	FOAM: COOL-LITE SKN 176 II / KRY90 / PLANICLEAR / KRY90 / PLANITHERMONE (4MM/4MM/4MM) 32MM IG											
	0.157	0.394	0.157	0.394	0.157			KRY90	0.016(#2) / 0.030(#5)	CL	GL-S	N
	U-Factor 0.26			SHGC(N) 0.22				VT(N) 0.42		CR 42		



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SECTION 6 (Continued)

SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (Folding Door System)													
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type	
	U-Factor (Btu/Hr-Ft ² -F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)			
81	NO FOAM: COOL-LITE SKN 176 II / KRY90 / KGLASSN (6MM/6MM) 27MM IG												
	0.236	0.591	0.230					KRY90	0.016(#2) / 0.157(#4)		CL	GL-S	N
	U-Factor		0.31	SHGC(N)			0.25	VT(N)		0.48	CR		38



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SECTION 7

DRAWINGS / BILL OF MATERIALS

The drawings which follow have been reviewed by Intertek B&C and are representative of the simulation results reported herein. Any deviations are documented herein or on the drawings.



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SECTION 8

REVISION LOG

REVISION #	DATE	PAGES	REVISION
.01R0	04/08/25	N/A	Original report issue.
.02R0	05/09/25	N/A	Add Options #9-20
.03R0	06/26/25	N/A	Add Options #21-80.
.03R1	03/02/26	N/A	Revise HD/SI models; update all options, 0/1 table, drawing package
.03R2	03/05/26	N/A	Corrected frame/SHGC length JL- MS, - Added parts/materials to report matching modeling. Corrected BC MS. Corrected glass naming in W7. Corrected low-e on glazing options #33-34. Recalculated results.
.03R3	03/30/26	N/A	Add Option #81.
.03R4	03/31/26	N/A	Add Foam/No Foam description.