



LISTING INFORMATION OF
**Folding Sliding Doors Canada - FD Series Folding Door
Systems**
SPEC ID: 55812

Folding Sliding Doors Canada Ltd
105 - 1155 St Paul Street
Kelowna, BC V1Y 2C6
Canada

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LISTING INFORMATION

PERFORMANCE RATINGS:

FD27 UPVC Folding Door System

AAMA/WDMA/CSA 101/I.S.2/A440 (2011)		
OVERALL DIMENSIONS	PRIMARY DESIGNATOR	
Width: 3705 mm	Class N/A - PG30: Size Tested: 3705 x 2465 mm – Type SP	
Height: 2465 mm The size listed is the maximum that can be certified.	SECONDARY DESIGNATOR	RATINGS
	Positive Design Pressure	1440 Pa (30.08 psf)
	Negative Design Pressure	1440 Pa (30.08 psf)
	Water Penetration Test Pressure	400 Pa (8.25 psf)
	Canadian Air Infiltration / Exfiltration Level	A3
	Additional Test	Rating
	Resistance to Forced Entry	Grade 10
	Insect Screen Serviceability Test	Not applicable

FD68 VGFIG Folding Door System

AAMA/WDMA/CSA 101/I.S.2/A440 (2008)		
OVERALL DIMENSIONS	PRIMARY DESIGNATOR	
Width: 3650 mm	Class N/A - PG25: Size Tested: 3650 x 2470 mm – Type SP	
Height: 2470 mm The size listed is the maximum that can be certified.	SECONDARY DESIGNATOR	RATINGS
	Positive Design Pressure	1200 Pa (25.06 psf)
	Negative Design Pressure	1200 Pa (25.06 psf)
	Water Penetration Test Pressure	290 Pa (6.06 psf)
	Canadian Air Infiltration / Exfiltration Level	A3
	Additional Test	Rating
	Resistance to Forced Entry	Grade 20
	Insect Screen Serviceability Test	Not applicable

FD72 Aluminum Folding Door System

AAMA/WDMA/CSA 101/I.S.2/A440 (2011)		
OVERALL DIMENSIONS	PRIMARY DESIGNATOR	
Width: 3980 mm	Class N/A - PG40: Size Tested: 3980 x 2865 mm – Type SP	
Height: 2865 mm The size listed is the maximum that can be certified.	SECONDARY DESIGNATOR	RATINGS
	Positive Design Pressure	1920 Pa (40.10 psf)
	Negative Design Pressure	1920 Pa (40.10 psf)
	Water Penetration Test Pressure	730 Pa (15.30 psf)
	Canadian Air Infiltration / Exfiltration Level	A3

	Additional Test	Rating
	Resistance to Forced Entry	Grade 40
	Insect Screen Serviceability Test	Not applicable

FD72 Arch Folding Door System

AAMA/WDMA/CSA 101/I.S.2/A440 (2008)		
OVERALL DIMENSIONS	PRIMARY DESIGNATOR	
Width: 3590 mm Height: 2490 mm The size listed is the maximum that can be certified.	Class N/A - PG25: Size Tested: 3590 x 2490 mm – Type SP	
	SECONDARY DESIGNATOR	RATINGS
	Positive Design Pressure	1200 Pa (25 psf)
	Negative Design Pressure	1200 Pa (25 psf)
	Water Penetration Test Pressure	510 Pa (10.5 psf)
	Canadian Air Infiltration / Exfiltration Level	A3
	Additional Test	Rating
	Resistance to Forced Entry	Grade 20
	Insect Screen Serviceability Test	Not applicable

FD73 Wood Clad Aluminum Folding Door System

AAMA/WDMA/CSA 101/I.S.2/A440 (2011)		
OVERALL DIMENSIONS	PRIMARY DESIGNATOR	
Width: 3980 mm Height: 2865 mm The size listed is the maximum that can be certified.	Class N/A - PG35: Size Tested: 3980 x 2865 mm – Type SP	
	SECONDARY DESIGNATOR	RATINGS
	Positive Design Pressure	1680 Pa (35.10 psf)
	Negative Design Pressure	1680 Pa (35.10 psf)
	Water Penetration Test Pressure	260 Pa (5.43 psf)
	Canadian Air Infiltration / Exfiltration Level	A3
	Additional Test	Rating
	Resistance to Forced Entry	Grade 40
	Insect Screen Serviceability Test	Not applicable

THERMAL PERFORMANCE:

Product has been energy modeled in accordance with CSA A440.2-14 using THERM 7.4 and WINDOW 7.4. Please see the ER ratings under the attached Design section.

PRODUCT	STANDARD	ENERGY REPORT NAME
FD27	CSA A440.2	A. 2021-03-24 Folding Sliding Doors Canada G104596649 ER FLD FD27
FD68	CSA A440.2	B. 2020-03-12 Folding Sliding Doors Canada


		G103947171 ER FLD FD68
FD72	CSA A440.2	C. 2021-03-24 Folding Sliding Doors Canada G104596649 ER FLD FD72
FD73	CSA A440.2	D. 2021-03-24 Folding Sliding Doors Canada Ltd G104596649 ER FLD FD73
FD72 Arch	CSA A440.2	E. 2022-11-15 Folding Sliding Doors Canada Ltd G105203408 ER SP FD72 Arch

Attribute	Value
Criteria	CSA A440.2/A440.3 (2014)
CSI Code	08 30 00 Specialty Doors and Frames
Listing Section	FENESTRATION
Spec ID	55812

DRAWING INDEX

- A. 2021-03-24 Folding Sliding Doors Canada G104596649 ER FLD FD27
- B. 2020-03-12 Folding Sliding Doors Canada G103947171 ER FLD FD68
- C. 2021-03-24 Folding Sliding Doors Canada G104596649 ER FLD FD72
- D. 2021-03-24 Folding Sliding Doors Canada Ltd G104596649 ER FLD FD73
- E. 2022-11-15 Folding Sliding Doors Canada Ltd G105203408 ER SP FD72 Arch


A. 2021-03-24 FOLDING SLIDING DOORS CANADA G104596649 ER FLD FD27

		Client: Folding Sliding Doors Canada Project Number: G104596649 Window 7.4 Database: J9138.02-W7.mdb Spacer: Cardinal Endur SS-D Model Type: FD27 UPVC Folding Door System (1 Lite Configuration)				Date: 24-Mar-21 Simulated by: Jonathan P. Spencer Reviewed by: Eric S. Leitner				Standard: CSA A440.2-14			
ID	Manufacturer Product ID	Glazing Details	Loose Emittance	Gap / Fill	Spacer	Divider	Air Leakage Infiltration [L/(h·m²)]	Air Leakage Exfiltration [L/(h·m²)]	Visual Transmittance (VT)	Overall U-factor [W/(m²·K)]	SHGC _{0.5}	Energy Rating ER	Energy Star Requirement
1	FD27-270(4MM)-ARG90-CLR(4MM)	Folding Door System Double glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Interior - 4 mm Cardinal Clear	ID#: 2027 ID#: 2002 0.035	12.7 mm ARG 90%	SS-D	None	0.4	0.5	0.45	1.64	0.24	17	NO
2	FD27-366(4MM)-ARG90-CLR(4MM)	Folding Door System Double glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (S#2) Interior - 4 mm Cardinal Clear	ID#: 2155 ID#: 2002 0.02	13.7 mm ARG 90%	SS-D	None	0.4	0.5	0.42	1.62	0.19	15	NO
3	FD27-270(4MM)-ARG90-I89(4MM)	Folding Door System Double glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Interior - 4 mm Cardinal I89 on Clear (S#4)	ID#: 2027 ID#: 2160 0.035 0.149	14.7 mm ARG 90%	SS-D	None	0.4	0.5	0.44	1.42	0.24	22	NO
4	FD27-366(4MM)-ARG90-I89(4MM)	Folding Door System Double glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (S#2) Interior - 4 mm Cardinal I89 on Clear (S#4)	ID#: 2155 ID#: 2160 0.02 0.149	15.7 mm ARG 90%	SS-D	None	0.4	0.5	0.41	1.41	0.18	19	NO
5	FD27-270(4MM)-ARG90-CLR(4MM)-ARG90-270(4MM)	Folding Door System Triple glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Middle - 4 mm Cardinal Clear Interior - 4 mm Cardinal LoE2 270 on Clear (S#5)	ID#: 2027 ID#: 2002 ID#: 2027 0.035	16.7/16.7 mm ARG 90%	SS-D	None	0.4	0.5	0.35	1.27	0.21	23	NO
6	FD27-270(4MM)-ARG90-180(4MM)-ARG90-I89(4MM)	Folding Door System Triple glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Middle - 4 mm Cardinal LoE 180 on Clear (S#4) Interior - 4 mm Cardinal I89 on Clear (S#6)	ID#: 2027 ID#: 2192 ID#: 2160 0.035 0.068 0.149	17.7/17.7 mm ARG 90%	SS-D	None	0.4	0.5	0.39	1.19	0.21	25	YES
7	FD27-366(4MM)-ARG90-CLR(4MM)-ARG90-180(4MM)	Folding Door System Triple glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (S#2) Middle - 4 mm Cardinal Clear Interior - 4 mm Cardinal LoE 180 on Clear (S#5)	ID#: 2155 ID#: 2002 ID#: 2192 0.02 0.068	18.7/18.7 mm ARG 90%	SS-D	None	0.4	0.5	0.37	1.28	0.17	21	NO
8	FD27-CLR(4MM)-ARG90-180(4MM)	Folding Door System Double glazing Exterior - 4 mm Cardinal Clear Interior - 4 mm Cardinal LoE 180 on Clear (S#3)	ID#: 2002 ID#: 2192 0.068	19.7 mm ARG 90%	SS-D	None	0.4	0.5	0.51	1.7	0.45	28	NO
9	FD27-180(4MM)-ARG90-I89(4MM)	Folding Door System Double glazing Exterior - 4 mm Cardinal LoE 180 on Clear (S#2) Interior - 4 mm Cardinal I89 on Clear (S#4)	ID#: 2192 ID#: 2160 0.068 0.149	20.7 mm ARG 90%	SS-D	None	0.4	0.5	0.50	1.47	0.41	31	NO
10	FD27-270(4MM)-ARG90-180(4MM)	Folding Door System Double glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Interior - 4 mm Cardinal LoE 180 on Clear (S#3)	ID#: 2027 ID#: 2192 0.035 0.068	21.7 mm ARG 90%	SS-D	None	0.4	0.5	0.43	1.64	0.24	17	NO
11	FD27-366(4MM)-ARG90-180(4MM)	Folding Door System Double glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (S#2) Interior - 4 mm Cardinal LoE 180 on Clear (S#3)	ID#: 2155 ID#: 2192 0.02 0.068	22.7 mm ARG 90%	SS-D	None	0.4	0.5	0.40	1.63	0.18	14	NO
12	FD27-180(4MM)-ARG90-CLR(3MM)-ARG90-I89(4MM)	Folding Door System Triple glazing Exterior - 4 mm Cardinal LoE 180 on Clear (S#2) Middle - 3 mm Cardinal Clear Interior - 4 mm Cardinal I89 on Clear (S#6)	ID#: 2192 ID#: 2001 ID#: 2160 0.068 0.149	23.7/23.7 mm ARG 90%	SS-D	None	0.4	0.5	0.46	1.28	0.37	32	NO

Version: 25-Sept-2017

Page 1 of 2

A. 2021-03-24 FOLDING SLIDING DOORS CANADA G104596649 ER FLD FD27 (2 OF 2)

		Client: Folding Sliding Doors Canada Project Number: G104596649 Window 7.4 Database: J9138.02-W7.mdb Spacer: Cardinal Endur SS-D Model Type: FD27 UPVC Folding Door System (1 Lite Configuration)				Date: 24-Mar-21 Simulated by: Jonathan P. Spencer Reviewed by: Eric S. Leitner Standard: CSA A440.2-14								
ID	Manufacturer Product ID	Glazing Details	Loose Emittance	Gap / Fill	Spacer	Divider	Air Leakage Infiltration [L/(m ² ·h)]	Air Leakage Exfiltration [L/(m ² ·h)]	Visual Transmittance (VT)	Overall U-factor (W/m ² ·K)	SHGC _{eq}	Energy Rating ER	Energy Star Requirement	
13	FD27-180(4MM)-ARG90-180(3MM)-ARG90-189(4MM)	Triple glazing Exterior - 4 mm Cardinal LoE 180 on Clear (S#2) Middle - 3 mm Cardinal LoE 180 on Clear (S#4) Interior - 4 mm Cardinal 189 on Clear (S#6)	ID#: 2192 ID#: 2191 ID#: 2160	0.068 0.068 0.149	24.7/24.7 mm ARG 90%	SS-D	None	0.4	0.5	0.44	1.13	0.35	34	YES

Window/Door	Report #
FD27 Folding Door System	T1197-6-2


Version: 25-Sept-2017 Page 2 of 2

B. 2020-03-12 FOLDING SLIDING DOORS CANADA G103947171 ER FLD FD68

Client: Folding Sliding Doors Canada Project Number: G103947171 Window 7.4 Database: J9139.01 Spacer: Cardinal Endur SS-D Model Type: FD68 VGFIG Folding Door System (1 Lite Configuration)		Date: 22-Aug-19 Simulated by: Dale C. White Reviewed by: Eric S. Leitner Standard: CSA A440.2-14										
ID	Manufacturer Product ID	Glazing Details	LowE Emissivity	Gap / Fill	Spacer	Divider	Air Leakage Infiltration [L/s·m²]	Air Leakage Exfiltration [L/s·m²]	Visual Transmittance (VT)	Overall U-Factor [W/m²·°C]	SHGC _w	Energy Rating ER
1	FD68-270(4MM)-ARG90-CLR(4MM)	Double glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (SF2) Interior - 4 mm Cardinal Clear	0.037 0.84	19.8 mm ARG 90%	SS-D	None	0.1	0.2	0.44	1.63	0.24	18
2	FD68-366(4MM)-ARG90-CLR(4MM)	Double glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (SF2) Interior - 4 mm Cardinal Clear	0.022 0.84	19.8 mm ARG 90%	SS-D	None	0.1	0.2	0.41	1.61	0.18	15
3	FD68-270(4MM)-ARG90-189(4MM)	Double glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (SF2) Interior - 4 mm Cardinal 189 on Clear (SFA)	0.037 0.149	19.8 mm ARG 90%	SS-D	None	0.1	0.2	0.43	1.43	0.23	22
4	FD68-366(4MM)-ARG90-189(4MM)	Double glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (SF2) Interior - 4 mm Cardinal 189 on Clear (SFA)	0.022 0.149	19.8 mm ARG 90%	SS-D	None	0.1	0.2	0.40	1.41	0.18	19
5	FD68-270(4MM)-ARG90-CLR(4MM)-ARG90-270(4MM)	Triple glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (SF2) Middle - 4 mm Cardinal Clear Interior - 4 mm Cardinal LoE2 270 on Clear (SF5)	0.037 0.84 0.037	8.3/8.3 mm ARG 90%	SS-D	None	0.1	0.2	0.34	1.27	0.20	23
6	FD68-270(4MM)-ARG90-180(4MM)-ARG90-189(4MM)	Triple glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (SF2) Middle - 4 mm Cardinal LoE 180 on Clear (SFA) Interior - 4 mm Cardinal 189 on Clear (SF5)	0.037 0.068 0.149	8.3/8.3 mm ARG 90%	SS-D	None	0.1	0.2	0.38	1.20	0.21	25
7	FD68-366(4MM)-ARG90-CLR(4MM)-ARG90-180(4MM)	Triple glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (SF2) Middle - 4 mm Cardinal Clear Interior - 4 mm Cardinal LoE 180 on Clear (SF5)	0.022 0.84 0.068	8.3/8.3 mm ARG 90%	SS-D	None	0.1	0.2	0.36	1.28	0.17	21

Window/Door	Report #
FD68 Folding Door System	100596450C02-0088


C. 2021-03-24 FOLDING SLIDING DOORS CANADA G104596649 ER FLD FD72

		Client: Folding Sliding Doors Canada Ltd. Project Number: G104596649 Window 7.4 Database: J9137.03-W7.mdb Spacer: Cardinal Endur SS-D Model Type: FD72 Aluminum Folding Door System (1 Lite Configuration)				Date: 24-Mar-21 Simulated by: Jonathan P. Spencer Reviewed by: Eric S. Leitner				Standard: CSA A440.2-14			
ID	Manufacturer Product ID	Glazing Details	Loose Emittance	Gap / Fill	Spacer	Divider	Air Leakage Infiltration [L/(h·m²)]	Air Leakage Exfiltration [L/(h·m²)]	Visual Transmittance (VT)	Overall U-factor [W/(m²·K)]	SHGC _g	Energy Rating ER	Energy Star Requirement
1	FD72-270(4MM)-ARG90-CLR(4MM)	Folding Door Double glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Interior - 4 mm Cardinal Clear	ID#: 2027 ID#: 2002 0.035	12.7 mm ARG 90%	SS-D	None	0.1	0.0	0.45	1.92	0.25	12	NO
2	FD72-366(4MM)-ARG90-CLR(4MM)	Folding Door Double glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (S#2) Interior - 4 mm Cardinal Clear	ID#: 2155 ID#: 2002 0.02	13.7 mm ARG 90%	SS-D	None	0.1	0.0	0.42	1.9	0.19	9	NO
3	FD72-270(4MM)-ARG90-I89(4MM)	Folding Door Double glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Interior - 4 mm Cardinal I89 on Clear (S#4)	ID#: 2027 ID#: 2160 0.035 0.149	14.7 mm ARG 90%	SS-D	None	0.1	0.0	0.44	1.7	0.24	16	NO
4	FD72-366(4MM)-ARG90-I89(4MM)	Folding Door Double glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (S#2) Interior - 4 mm Cardinal I89 on Clear (S#4)	ID#: 2155 ID#: 2160 0.02 0.149	15.7 mm ARG 90%	SS-D	None	0.1	0.0	0.41	1.68	0.18	13	NO
5	FD72-270(4MM)-ARG90-CLR(4MM)-ARG90-270(4MM)	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Middle - 4 mm Cardinal Clear Interior - 4 mm Cardinal LoE2 270 on Clear (S#5)	ID#: 2027 ID#: 2002 ID#: 2027 0.035	16.7/16.7 mm ARG 90%	SS-D	None	0.1	0.0	0.35	1.55	0.21	18	NO
6	FD72-270(4MM)-ARG90-180(4MM)-ARG90-I89(4MM)	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Middle - 4 mm Cardinal LoE 180 on Clear (S#4) Interior - 4 mm Cardinal I89 on Clear (S#6)	ID#: 2027 ID#: 2192 ID#: 2160 0.035 0.068 0.149	17.7/17.7 mm ARG 90%	SS-D	None	0.1	0.0	0.39	1.47	0.22	20	NO
7	FD72-366(4MM)-ARG90-CLR(4MM)-ARG90-180(4MM)	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (S#2) Middle - 4 mm Cardinal Clear Interior - 4 mm Cardinal LoE 180 on Clear (S#5)	ID#: 2155 ID#: 2002 ID#: 2192 0.02 0.068	18.7/18.7 mm ARG 90%	SS-D	None	0.1	0.0	0.37	1.55	0.17	16	NO
8	FD72-270(4MM)-ARG90-CLR(3MM)-ARG90-270(4MM)	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Middle - 3 mm Cardinal Clear Interior - 4 mm Cardinal LoE2 270 on Clear (S#5)	ID#: 2027 ID#: 2001 ID#: 2027 0.035 0.035	19.7/19.7 mm ARG 90%	SS-D	None	0.1	0.0	0.35	1.45	0.21	20	NO
9	FD72-270(4MM)-ARG90-180(3MM)-ARG90-I89(4MM)	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Middle - 3 mm Cardinal LoE 180 on Clear (S#4) Interior - 4 mm Cardinal I89 on Clear (S#6)	ID#: 2027 ID#: 2191 ID#: 2160 0.035 0.068 0.149	20.7/20.7 mm ARG 90%	SS-D	None	0.1	0.0	0.39	1.39	0.22	22	NO
10	FD72-366(4MM)-ARG90-CLR(4MM)-FOAM	Folding Door Double glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (S#2) Interior - 4 mm Cardinal Clear	ID#: 2155 ID#: 2002 0.02	13.7 mm ARG 90%	SS-D	None	0.1	0.0	0.42	1.9	0.19	9	NO
11	FD72-366(4MM)-ARG90-I89(4MM)-FOAM	Folding Door Double glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (S#2) Interior - 4 mm Cardinal I89 on Clear (S#4)	ID#: 2155 ID#: 2160 0.02 0.149	15.7 mm ARG 90%	SS-D	None	0.1	0.0	0.41	1.68	0.18	13	NO
12	FD72-270(4MM)-ARG90-CLR(3MM)-ARG90-270(4MM)-FOAM	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Middle - 3 mm Cardinal Clear Interior - 4 mm Cardinal LoE2 270 on Clear (S#5)	ID#: 2027 ID#: 2001 ID#: 2027 0.035 0.035	19.7/19.7 mm ARG 90%	SS-D	None	0.1	0.0	0.35	1.45	0.21	20	NO

Version: 25-Sept-2017

Page 1 of 3


C. 2021-03-24 FOLDING SLIDING DOORS CANADA G104596649 ER FLD FD72 (2 OF 3)

		Client: Folding Sliding Doors Canada Ltd. Project Number: G104596649 Window 7.4 Database: J9137.03-W7.mdb Spacer: Cardinal Endur SS-D Model Type: FD72 Aluminum Folding Door System (1 Lite Configuration)				Date: 24-Mar-21 Simulated by: Jonathan P. Spencer Reviewed by: Eric S. Leitner				Standard: CSA A440.2-14			
ID	Manufacturer Product ID	Glazing Details	LoeE Emittance	Gap / Fill	Spacer	Divider	Air Leakage Infiltration [L/(h·m ²)]	Air Leakage Exfiltration [L/(h·m ²)]	Visual Transmittance (VT)	Overall U-factor [W/(m ² ·K)]	SHGC _g	Energy Rating ER	Energy Star Requirement
13	FD72-270(4MM)-ARG90-180(3MM)-ARG90-189(4MM)-FOAM	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Middle - 3 mm Cardinal LoE 180 on Clear (S#4) Interior - 4 mm Cardinal 189 on Clear (S#6)	ID#: 2027 ID#: 2191 ID#: 2160 0.035 0.068 0.149	20.7/20.7 mm ARG 90%	SS-D	None	0.1	0.0	0.39	1.39	0.22	22	NO
14	FD72-CLR(4MM)-ARG90-180(4MM)	Folding Door Double glazing Exterior - 4 mm Cardinal Clear Interior - 4 mm Cardinal LoE 180 on Clear (S#3)	ID#: 2002 ID#: 2192 0.068	21.7 mm ARG 90%	SS-D	None	0.1	0.0	0.51	2	0.45	22	NO
15	FD72-180(4MM)-ARG90-189(4MM)	Folding Door Double glazing Exterior - 4 mm Cardinal LoE 180 on Clear (S#2) Interior - 4 mm Cardinal 189 on Clear (S#4)	ID#: 2192 ID#: 2160 0.068 0.149	22.7 mm ARG 90%	SS-D	None	0.1	0.0	0.50	1.77	0.41	25	NO
16	FD72-270(4MM)-ARG90-180(4MM)	Folding Door Double glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Interior - 4 mm Cardinal LoE 180 on Clear (S#3)	ID#: 2027 ID#: 2192 0.035 0.068	23.7 mm ARG 90%	SS-D	None	0.1	0.0	0.44	1.94	0.25	12	NO
17	FD72-366(4MM)-ARG90-180(4MM)	Folding Door Double glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (S#2) Interior - 4 mm Cardinal LoE 180 on Clear (S#3)	ID#: 2155 ID#: 2192 0.02 0.068	24.7 mm ARG 90%	SS-D	None	0.1	0.0	0.40	1.93	0.19	9	NO
18	FD72-180(4MM)-ARG90-CLR(3MM)-ARG90-189(4MM)	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE 180 on Clear (S#2) Middle - 3 mm Cardinal Clear Interior - 4 mm Cardinal 189 on Clear (S#6)	ID#: 2192 ID#: 2001 ID#: 2160 0.068 0.068 0.149	25.7/25.7 mm ARG 90%	SS-D	None	0.1	0.0	0.46	1.59	0.38	27	NO
19	FD72-180(4MM)-ARG90-180(3MM)-ARG90-189(4MM)	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE 180 on Clear (S#2) Middle - 3 mm Cardinal LoE 180 on Clear (S#4) Interior - 4 mm Cardinal 189 on Clear (S#6)	ID#: 2192 ID#: 2191 ID#: 2160 0.068 0.068 0.149	26.7/26.7 mm ARG 90%	SS-D	None	0.1	0.0	0.44	1.44	0.35	28	NO
20	FD72-CLR(4MM)-ARG90-180(4MM)-FOAM	Folding Door Double glazing Exterior - 4 mm Cardinal Clear Interior - 4 mm Cardinal LoE 180 on Clear (S#3)	ID#: 2002 ID#: 2192 0.068	21.7 mm ARG 90%	SS-D	None	0.1	0.0	0.51	2	0.45	22	NO
21	FD72-180(4MM)-ARG90-189(4MM)-FOAM	Folding Door Double glazing Exterior - 4 mm Cardinal LoE 180 on Clear (S#2) Interior - 4 mm Cardinal 189 on Clear (S#4)	ID#: 2192 ID#: 2160 0.068 0.149	22.7 mm ARG 90%	SS-D	None	0.1	0.0	0.50	1.77	0.41	25	NO
22	FD72-270(4MM)-ARG90-180(4MM)-FOAM	Folding Door Double glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Interior - 4 mm Cardinal LoE 180 on Clear (S#3)	ID#: 2027 ID#: 2192 0.035 0.068	23.7 mm ARG 90%	SS-D	None	0.1	0.0	0.44	1.94	0.25	12	NO
23	FD72-366(4MM)-ARG90-180(4MM)-FOAM	Folding Door Double glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (S#2) Interior - 4 mm Cardinal LoE 180 on Clear (S#3)	ID#: 2155 ID#: 2192 0.02 0.068	24.7 mm ARG 90%	SS-D	None	0.1	0.0	0.40	1.93	0.19	9	NO
24	FD72-180(4MM)-ARG90-CLR(3MM)-ARG90-189(4MM)-FOAM	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE 180 on Clear (S#2) Middle - 3 mm Cardinal Clear Interior - 4 mm Cardinal 189 on Clear (S#6)	ID#: 2192 ID#: 2001 ID#: 2160 0.068 0.068 0.149	25.7/25.7 mm ARG 90%	SS-D	None	0.1	0.0	0.46	1.59	0.38	27	NO

Version: 25-Sept-2017

Page 2 of 3

C. 2021-03-24 FOLDING SLIDING DOORS CANADA G104596649 ER FLD FD72 (3 OF 3)

		Client: Folding Sliding Doors Canada Ltd. Project Number: G104596649 Window 7.4 Database: J9137.03-W7.mdb Spacer: Cardinal Endur SS-D Model Type: FD72 Aluminum Folding Door System (1 Lite Configuration)				Date: 24-Mar-21 Simulated by: Jonathan P. Spencer Reviewed by: Eric S. Leitner Standard: CSA A440.2-14							
ID	Manufacturer Product ID	Glazing Details	Loose Emittance	Gap / Fill	Spacer	Divider	Air Leakage Infiltration [L/(m ² ·h)]	Air Leakage Exfiltration [L/(m ² ·h)]	Visual Transmittance (VT)	Overall U-factor [W/(m ² ·°C)]	SHGC _{eq}	Energy Rating ER	Energy Star Requirement
25	FD72-180(4MM)-ARG90-180(3MM)-ARG90-189(4MM)-FOAM	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE 180 on Clear (S#2) Middle - 3 mm Cardinal LoE 180 on Clear (S#4) Interior - 4 mm Cardinal 189 on Clear (S#6)	ID#: 2192 ID#: 2191 ID#: 2160 0.068 0.068 0.149	26.7/26.7 mm ARG 90%	SS-D	None	0.1	0.0	0.44	1.44	0.35	28	NO
Window/Door										Report #			
FD72 Folding Door System										101818270COQ-001A			


D. 2021-03-24 FOLDING SLIDING DOORS CANADA LTD G104596649 ER FLD FD73

intertek		Client: Folding Sliding Doors Canada Ltd. Project Number: G104596649 Window 7.4 Database: J9136.03-W7.mdb Spacer: Cardinal Endur SS-D Model Type: FD73 Aluminum Folding Door System (1 Lite Configuration)				Date: 24-Mar-21 Simulated by: Jonathan P. Spencer Reviewed by: Eric S. Leitner				Standard: CSA A440.2-14			
ID	Manufacturer Product ID	Glazing Details	Loose Emittance	Gap / Fill	Spacer	Divider	Air Leakage Infiltration [L/(h·m²)]	Air Leakage Exfiltration [L/(h·m²)]	Visual Transmittance (VT)	Overall U-factor [W/(m²·K)]	SHGC _g	Energy Rating ER	Energy Star Requirement
1	FD72-270(4MM)-ARG90-CLR(4MM)	Folding Door Double glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Interior - 4 mm Cardinal Clear	ID# 2027 ID# 2002 0.035	12.7 mm ARG 90%	SS-D	None	0.3	0.3	0.45	1.86	0.25	13	NO
2	FD72-366(4MM)-ARG90-CLR(4MM)	Folding Door Double glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (S#2) Interior - 4 mm Cardinal Clear	ID# 2155 ID# 2002 0.02	13.7 mm ARG 90%	SS-D	None	0.3	0.3	0.42	1.84	0.19	10	NO
3	FD72-270(4MM)-ARG90-I89(4MM)	Folding Door Double glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Interior - 4 mm Cardinal I89 on Clear (S#4)	ID# 2027 ID# 2160 0.035 0.149	14.7 mm ARG 90%	SS-D	None	0.3	0.3	0.44	1.64	0.24	17	NO
4	FD72-366(4MM)-ARG90-I89(4MM)	Folding Door Double glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (S#2) Interior - 4 mm Cardinal I89 on Clear (S#4)	ID# 2155 ID# 2160 0.02 0.149	15.7 mm ARG 90%	SS-D	None	0.3	0.3	0.41	1.63	0.18	14	NO
5	FD72-270(4MM)-ARG90-CLR(4MM)-ARG90-270(4MM)	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Middle - 4 mm Cardinal Clear Interior - 4 mm Cardinal LoE2 270 on Clear (S#5)	ID# 2027 ID# 2002 ID# 2027 0.035	16.7/16.7 mm ARG 90%	SS-D	None	0.3	0.3	0.35	1.5	0.21	19	NO
6	FD72-270(4MM)-ARG90-180(4MM)-ARG90-I89(4MM)	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Middle - 4 mm Cardinal LoE 180 on Clear (S#4) Interior - 4 mm Cardinal I89 on Clear (S#6)	ID# 2027 ID# 2192 ID# 2160 0.035 0.068 0.149	17.7/17.7 mm ARG 90%	SS-D	None	0.3	0.3	0.39	1.42	0.22	21	NO
7	FD72-366(4MM)-ARG90-CLR(4MM)-ARG90-180(4MM)	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (S#2) Middle - 4 mm Cardinal Clear Interior - 4 mm Cardinal LoE 180 on Clear (S#5)	ID# 2155 ID# 2002 ID# 2192 0.02 0.068	18.7/18.7 mm ARG 90%	SS-D	None	0.3	0.3	0.37	1.51	0.17	16	NO
8	FD72-270(4MM)-ARG90-180(4MM)-ARG90-I89(4MM)	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Middle - 4 mm Cardinal LoE 180 on Clear (S#4) Interior - 4 mm Cardinal I89 on Clear (S#6)	ID# 2027 ID# 2192 ID# 2160 0.035 0.068 0.149	20.7/20.7 mm ARG 90%	SS-D	None	0.3	0.3	0.39	1.35	0.22	23	NO
9	FD72-366(4MM)-ARG90-CLR(4MM)-FOAM	Folding Door Double glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (S#2) Interior - 4 mm Cardinal Clear	ID# 2155 ID# 2002 0.02	13.7 mm ARG 90%	SS-D	None	0.3	0.3	0.42	1.84	0.19	10	NO
10	FD72-366(4MM)-ARG90-I89(4MM)-FOAM	Folding Door Double glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (S#2) Interior - 4 mm Cardinal I89 on Clear (S#4)	ID# 2155 ID# 2160 0.02 0.149	15.7 mm ARG 90%	SS-D	None	0.3	0.3	0.41	1.63	0.18	14	NO
11	FD72-270(4MM)-ARG90-180(4MM)-ARG90-I89(4MM)-FOAM	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Middle - 4 mm Cardinal LoE 180 on Clear (S#4) Interior - 4 mm Cardinal I89 on Clear (S#6)	ID# 2027 ID# 2192 ID# 2160 0.035 0.068 0.149	20.7/20.7 mm ARG 90%	SS-D	None	0.3	0.3	0.39	1.35	0.22	23	NO
12	FD72-CLR(4MM)-ARG90-180(4MM)	Folding Door Double glazing Exterior - 4 mm Cardinal Clear Interior - 4 mm Cardinal LoE 180 on Clear (S#3)	ID# 2002 ID# 2192 0.068	21.7 mm ARG 90%	SS-D	None	0.3	0.3	0.51	1.93	0.45	23	NO

Version: 25-Sept-2017


Page 1 of 2

D. 2021-03-24 FOLDING SLIDING DOORS CANADA LTD G104596649 ER FLD FD73 (2 OF 2)

		Client: Folding Sliding Doors Canada Ltd. Project Number: G104596649 Window 7.4 Database: J9136.03-W7.mdb Spacer: Cardinal Endur SS-D Model Type: FD73 Aluminum Folding Door System (1 Lite Configuration)				Date: 24-Mar-21 Simulated by: Jonathan P. Spencer Reviewed by: Eric S. Leitner Standard: CSA A440.2-14							
ID	Manufacturer Product ID	Glazing Details	LoeE Emisivity	Gap / Fill	Spacer	Divider	Air Leakage Infiltration [L/(h·m ²)]	Air Leakage Exfiltration [L/(h·m ²)]	Visual Transmittance [VT]	Overall U-factor [W/(m ² ·K)]	SHGC _g	Energy Rating ER	Energy Star Requirement
13	FD72-180(4MM)-ARG90-I89(4MM)	Folding Door Double glazing Exterior - 4 mm Cardinal LoE 180 on Clear (S#2) Interior - 4 mm Cardinal I89 on Clear (S#4)	ID#: 2192 ID#: 2160 0.068 0.149	22.7 mm ARG 90%	SS-D	None	0.3	0.3	0.50	1.7	0.41	26	NO
14	FD72-270(4MM)-ARG90-180(4MM)	Folding Door Double glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Interior - 4 mm Cardinal LoE 180 on Clear (S#3)	ID#: 2027 ID#: 2192 0.035 0.068	23.7 mm ARG 90%	SS-D	None	0.3	0.3	0.44	1.87	0.24	12	NO
15	FD72-366(4MM)-ARG90-180(4MM)	Folding Door Double glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (S#2) Interior - 4 mm Cardinal LoE 180 on Clear (S#3)	ID#: 2155 ID#: 2192 0.02 0.068	24.7 mm ARG 90%	SS-D	None	0.3	0.3	0.41	1.86	0.19	10	NO
16	FD72-180(4MM)-ARG90-CLR(3MM)-ARG90-I89(4MM)	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE 180 on Clear (S#2) Middle - 3 mm Cardinal Clear Interior - 4 mm Cardinal I89 on Clear (S#6)	ID#: 2192 ID#: 2001 ID#: 2160 0.068 0.149	25.7/25.7 mm ARG 90%	SS-D	None	0.3	0.3	0.46	1.51	0.38	28	NO
17	FD72-180(4MM)-ARG90-180(3MM)-ARG90-I89(4MM)	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE 180 on Clear (S#2) Middle - 3 mm Cardinal LoE 180 on Clear (S#4) Interior - 4 mm Cardinal I89 on Clear (S#6)	ID#: 2192 ID#: 2191 ID#: 2160 0.068 0.068 0.149	26.7/26.7 mm ARG 90%	SS-D	None	0.3	0.3	0.44	1.36	0.35	30	NO
18	FD72-CLR(4MM)-ARG90-180(4MM)-FOAM	Folding Door Double glazing Exterior - 4 mm Cardinal Clear Interior - 4 mm Cardinal LoE 180 on Clear (S#3)	ID#: 2002 ID#: 2192 0.068	21.7 mm ARG 90%	SS-D	None	0.3	0.3	0.51	1.94	0.45	23	NO
19	FD72-180(4MM)-ARG90-I89(4MM)-FOAM	Folding Door Double glazing Exterior - 4 mm Cardinal LoE 180 on Clear (S#2) Interior - 4 mm Cardinal I89 on Clear (S#4)	ID#: 2192 ID#: 2160 0.068 0.149	22.7 mm ARG 90%	SS-D	None	0.3	0.3	0.50	1.7	0.41	26	NO
20	FD72-270(4MM)-ARG90-180(4MM)-FOAM	Folding Door Double glazing Exterior - 4 mm Cardinal LoE2 270 on Clear (S#2) Interior - 4 mm Cardinal LoE 180 on Clear (S#3)	ID#: 2027 ID#: 2192 0.035 0.068	23.7 mm ARG 90%	SS-D	None	0.3	0.3	0.44	1.88	0.24	12	NO
21	FD72-366(4MM)-ARG90-180(4MM)-FOAM	Folding Door Double glazing Exterior - 4 mm Cardinal LoE3 366 on Clear (S#2) Interior - 4 mm Cardinal LoE 180 on Clear (S#3)	ID#: 2155 ID#: 2192 0.02 0.068	24.7 mm ARG 90%	SS-D	None	0.3	0.3	0.41	1.86	0.19	10	NO
22	FD72-180(4MM)-ARG90-CLR(3MM)-ARG90-I89(4MM)-FOAM	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE 180 on Clear (S#2) Middle - 3 mm Cardinal Clear Interior - 4 mm Cardinal I89 on Clear (S#6)	ID#: 2192 ID#: 2001 ID#: 2160 0.068 0.149	25.7/25.7 mm ARG 90%	SS-D	None	0.3	0.3	0.46	1.51	0.38	28	NO
23	FD72-180(4MM)-ARG90-180(3MM)-ARG90-I89(4MM)-FOAM	Folding Door Triple glazing Exterior - 4 mm Cardinal LoE 180 on Clear (S#2) Middle - 3 mm Cardinal LoE 180 on Clear (S#4) Interior - 4 mm Cardinal I89 on Clear (S#6)	ID#: 2192 ID#: 2191 ID#: 2160 0.068 0.068 0.149	26.7/26.7 mm ARG 90%	SS-D	None	0.3	0.3	0.44	1.36	0.35	30	NO

Window/Door: FD73 Folding Door System Report #: 101818270COQ-0018

E. 2022-11-15 FOLDING SLIDING DOORS CANADA LTD G105203408 ER SP FD72 ARCH

		Client: Folding Sliding Doors Canada LTD. Project Number: G105203408 Window 7.4 Database: P2816.01 W7 Spacer: Cardinal Endur Spacer Model Type: FD72 ARCH FOLDING DOOR				Date: 28-Oct-22 Simulated by: Eric S. Leitner Reviewed by: Allison M. Ford Standard: CSA A440.2-14							
ID	Manufacturer Product ID	Glazing Details	Loose Emittance	Gap / Fill	Spacer	Divider	Air Leakage Infiltration [L/(m ² ·h)]	Air Leakage Exfiltration [L/(m ² ·h)]	Visual Transmittance (VT)	Overall U-factor (W/(m ² ·°C))	SHGC	Energy Rating ER	Energy Star Requirement
1	E366/Argon/i89(4mm/4mm)27.5mm	Double glazing Exterior - LoE ³ 366 on 4mm Clear (S#2) Interior - i89 on 4mm Clear (S#4)	ID# 2155 ID# 2160 0.02 0.149	19.5 mm ARG 90%	SS-D	None	0.3	0.6	0.41	1.93	0.19	8	NO
2	E366/Argon/Clear(4mm/4mm)27.5mm	Double glazing Exterior - LoE ³ 366 on 4mm Clear (S#2) Interior - Float Glass - 4mm	ID# 2155 ID# 2002 0.02 0.84	19.5 mm ARG 90%	SS-D	None	0.3	0.6	0.42	2.14	0.19	3	NO
3	E270/Argon/i89(4mm/4mm)27.5mm	Double glazing Exterior - LoE ³ 270 on 4mm Clear (S#2) Interior - i89 on 4mm Clear (S#4)	ID# 2027 ID# 2160 0.035 0.149	19.5 mm ARG 90%	SS-D	None	0.3	0.6	0.44	1.94	0.25	11	NO
4	E270/Argon/Clear(4mm/4mm)27.5mm	Double glazing Exterior - LoE ³ 270 on 4mm Clear (S#2) Interior - Float Glass - 4mm	ID# 2027 ID# 2002 0.035 0.84	19.3 mm ARG 90%	SS-D	None	0.3	0.6	0.45	2.16	0.25	6	NO
5	E270/Argon/Clear/Argon/E270(4mm/3mm/4mm)32mm	Triple glazing Exterior - LoE ³ 270 on 4mm Clear (S#2) Middle - Float Glass - 3mm Interior - LoE ³ 270 on 4mm Clear (S#5)	ID# 2027 ID# 2001 ID# 2027 0.035 0.84 0.035	10.5/10.5 mm ARG 90%	SS-D	None	0.3	0.6	0.35	1.69	0.22	15	NO
6	E180/Argon/Clear/Argon/i89(4mm/3mm/4mm)32mm	Triple glazing Exterior - LoE 180 on 4mm Clear (S#2) Middle - Float Glass - 3mm Interior - i89 on 4mm Clear (S#6)	ID# 2192 ID# 2001 ID# 2160 0.068 0.84 0.149	10.5/10.5 mm ARG 90%	SS-D	None	0.3	0.6	0.46	1.79	0.38	22	NO
7	E270/Argon/Clear/Argon/i89(4mm/3mm/4mm)32mm	Triple glazing Exterior - LoE ³ 270 on 4mm Clear (S#2) Middle - Float Glass - 3mm Interior - i89 on 4mm Clear (S#6)	ID# 2027 ID# 2001 ID# 2160 0.035 0.84 0.149	10.5/10.5 mm ARG 90%	SS-D	None	0.3	0.6	0.40	1.77	0.23	14	NO
8	E270/Argon/E180/Argon/i89(4mm/3mm/4mm)32mm	Triple glazing Exterior - LoE ³ 270 on 4mm Clear (S#2) Middle - LoE 180 on 3mm Clear (S#4) Interior - i89 on 4mm Clear (S#6)	ID# 2027 ID# 2191 ID# 2160 0.035 0.068 0.149	10.5/10.5 mm ARG 90%	SS-D	None	0.3	0.6	0.39	1.63	0.22	16	NO
9	E180/Argon/E180/Argon/i89(4mm/3mm/4mm)32mm	Triple glazing Exterior - LoE 180 on 4mm Clear (S#2) Middle - LoE 180 on 3mm Clear (S#4) Interior - i89 on 4mm Clear (S#6)	ID# 2192 ID# 2191 ID# 2160 0.068 0.068 0.149	10.5/10.5 mm ARG 90%	SS-D	None	0.3	0.6	0.44	1.64	0.35	23	NO

Window/Door	Report #
Bifold Door with Swing Door System	100596450COQ-008A