

LOFT PATIO DOOR SPECIFICATIONS

1. DESCRIPTION

Sliding patio door with aluminum frame and sashes

Classification :

AAMA/WDMA/CSA

Without reinforcement : LC PG40 (95 1/2"×95 1/2")

With reinforcement : CW PG50 (95 1/2"×95 1/2")

CAN/CGSB : A3, B3, C3, F20, E3 (95 1/2"×95 1/2")

Condensation Resistance Index:

I=53. Thermal Cycling tested ranging from -30 to 72 degrees celsius.

Noise Reduction:

4mm +4mm Insulated Glass: STC 31, OITC 24

4mm +6mm Insulated Glass (Option): STC 35, OITC 28

2. MANUFACTURING AND MATERIALS

- A. The aluminum sections are made with 6063-T5 alloy with a minimum wall thickness of 0.059" (1.50mm).
- B. The aluminum frame is composed of two aluminum faces held together by a Polyvinyl Chloride thermal barrier. This thermal barrier is inserted into grooves in the frame which forms a solid and water-tight whole without the use of screws, pins, etc., in order to avoid direct contact between the inside and outside aluminum components. The four sections of the frame are assembled with screws and clear sealant is applied over every joint. Guides are present on the jambs, head and sill frame sections.
- C. The frame is available in 2 standard thicknesses: 152mm (6") and 184mm (7¼"). An optional 51mm (2") option is available to achieve thicknesses of 203mm (8") and 235mm (9¼").
- D. The sill section has a thickness of 0.059" (1.50mm) and a 3" slope as well as weep holes designed to drain water to the outside.

3. SASHES

- A. The sashes are composed of two aluminum faces held together with a crimped polyamide thermal barrier. The meeting rail includes a crimped polyvinyl chloride thermal barrier that covers the entire thickness of the sash.
- B. The jambs are assembled at the top and bottom with ASA molded blocks and assembly keys that eliminate thermal bridges. These blocks are held in place with screws.
- C. The opening sash is mounted on a lift and slide mechanism. The sash can be lifted in order to release the weatherstrips and facilitate the lateral movement of the sash. One of the rollers is adjustable in height to allow an installation tolerance of +/- 2 mm.
- D. The opening sash is equipped with a zinc plated handle. (interior and exterior)
- E. The door is equipped with a standard zinc triple-point lock mechanism.
- F. The weatherstripping is made of silicone-treated polypropylene. The weatherstripping is doubled at the head, the sill rail sections and at the meeting stiles. It is tripled on the opening jamb (when inserted into the frame).
- G. **(CW-PG50 OPTION)** The meeting stiles can be reinforced with steel located outside the thermal barrier. The reinforcements are made of grade 90 galvanized steel with a thickness of 3.51mm (10Ga.)

4. SCREEN

- A. An aluminum insect screen is installed on a dedicated rail and is easily removable. It operates on adjustable ball bearing nylon rollers at the top and bottom. The screen is composed of a 0.011" (0.28mm) diameter black fiberglass mesh, 18×16 threads per inch, and is fixed to the extruded aluminum frame with a flexible tubular vinyl spline.

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- B. The screen includes a zinc plated lock & plastic handle.
- C. Doors with a height of 96" and more are equipped with a more robust screen. The width of the frame profile increases from 1-5/8" to 3".

5. GLAZING

- A. The two sashes hold insulated glass units of 25.4mm (1") thickness made with two tempered single panes with a thickness varying between 3 mm and 6 mm, depending on the surface area of the glass.
- B. All insulated glass units are held in place with polyethylene sealant tape and glazing stops.
- C. Triple glazed insulated glass units are available as an option with thickness of 31.75mm (1-1/4").

6. FINISH

- A. All aluminum sill parts are anodized.
- B. The aluminum visible on the interior has a standard *Duracron* white finish K-1285 or black K-90421 (with the exception of the sill). Anodized aluminium interior available as an option.
- C. The aluminum visible on the exterior has a standard *Duracron* white finish K-1285 or black K-90421 (with the exception of the sill). Anodized aluminium exterior available as an option.
- D. Other colors available on request.
- E. Standard handle colors are white, black or brushed nickel(option).

LOFT PATIO DOOR CLASSIFICATIONS

CANADIAN SUMMARY TEST RESULTS

CAN/CGSB-82.1-M89

SIZE	95½" × 95½" (2426mm × 2426mm)
CONFIGURATION	XO/OX
MODEL	Loft
AIR	A3
WATER	B3
STRUCTURAL	C3
OPERATION	E3
FORCED-ENTRY	F20

UNIFIED SUMMARY TEST RESULTS

AAMA/WDMA/CSA101/I.S.2/A440-08

SIZE	95 1/2" × 95 1/2" (2426 mm × 2426 mm)	95 1/2" × 95 1/2" (2426 mm × 2426 mm)	107" × 95 1/2" (2718 mm × 2426 mm)
CONFIGURATION	XO/OX (Without reinforcement)	XO/OX (With reinforcement)	XO/OX (With reinforcement)
MODEL	LOFT	LOFT	LOFT
AIR	PASSED/A3	PASSED/A3	PASSED/A3
WATER	7.50 lb/ft ²	7.50 lb/ft ²	7.50 lb/ft ²
STRUCTURAL	PG-40	PG-60	PG-40
CLASS	LC-PG40	CW-PG50	CW-PG40
POSITIVE DESIGN PRESSURE	1920	2880	1920
NEGATIVE DESIGN PRESSURE	1920	2880	1920
WATER PRESSURE DIFFERENTIAL	360 Pa	360 Pa	360 Pa

LOFT PATIO DOOR SIZING CHART



TWO PANELS



Available left- or right-handed

METRIC UNITS (MILLIMETERS LENGTH × WIDTH)

WIDTH	DOOR	INSULATED GLASS	SCREEN	OPENING PANEL	FIXED PANEL
1.79 m	1791 × 2057	805 × 1879	894 × 2000	920 × 1975	888 × 1975
1.81 m	1816 × 2019	817 × 1841	906 × 1962	932 × 1937	900 × 1937
1.81 m	1816 × 2426	817 × 2248	906 × 2369	932 × 2344	900 × 2344
2.40 m	2400 × 2057	1109 × 1879	1198 × 2000	1224 × 1975	1192 × 1975
2.42 m	2426 × 2019	1122 × 1841	1211 × 1962	1237 × 1937	1205 × 1937
2.42 m	2426 × 2426	1122 × 2248	1211 × 2369	1237 × 2344	1205 × 2344
2.71 m	2718 × 2057	1268 × 1879	1357 × 2000	1383 × 1975	1351 × 1975
2.71 m	2718 × 2019	1268 × 1841	1357 × 1962	1383 × 1937	1351 × 1937
2.71 m	2718 × 2426	1268 × 2248	1357 × 2369	1383 × 2344	1351 × 2344
3.02 m	3023 × 2057	1421 × 1879	1510 × 2000	1536 × 1975	1504 × 1975
3.02 m	3023 × 2019	1421 × 1841	1510 × 1962	1536 × 1937	1504 × 1937
3.02 m	3023 × 2426	1421 × 2248	1510 × 2369	1536 × 2344	1504 × 2344
3.63 m	3632 × 2057	1725 × 1879	1814 × 2000	1840 × 1975	1808 × 1975
3.63 m	3632 × 2019	1725 × 1841	1814 × 1962	1840 × 1937	1808 × 1937
3.63 m	3632 × 2426	1725 × 2248	1814 × 2369	1840 × 2344	1808 × 2344

LOFT PATIO DOOR SIZING CHART

IMPERIAL UNITS (INCHES LENGTH × WIDTH)

WIDTH	DOOR	INSULATED GLASS	SCREEN	OPENING PANEL	FIXED PANEL
6 ft	70 1/2" × 81 "	31 11/16" × 74"	35 3/16" × 78 3/4"	36 1/4" × 77 3/4"	34 15/16" × 77 3/4"
6 ft	71 1/2" × 79 1/2"	32 3/16" × 72 1/2"	35 11/16" × 77 1/4"	36 11/16" × 76 1/4"	35 7/16" × 76 1/4"
6 ft	71 1/2" × 95 1/2"	32 3/16" × 88 1/2"	35 11/16" × 93 1/4"	36 11/16" × 92 5/16"	35 7/16" × 92 5/16"
8 ft	94 1/2" × 81 "	43 11/16" × 74"	47 3/16" × 78 3/4"	48 3/16" × 77 3/4"	46 15/16" × 77 3/4"
8 ft	95 1/2" × 79 1/2"	44 3/16" × 72 1/2"	47 11/16" × 77 1/4"	48 11/16" × 76 1/4"	47 7/16" × 76 1/4"
8 ft	95 1/2" × 95 1/2"	44 3/16" × 88 1/2"	47 11/16" × 93 1/4"	48 11/16" × 92 5/16"	47 7/16" × 92 5/16"
9 ft	107" × 81 "	49 15/16" × 74"	53 7/16" × 78 3/4"	54 7/16" × 77 3/4"	53 3/16" × 77 3/4"
9 ft	107" × 79 1/2"	49 15/16" × 72 1/2"	53 7/16" × 77 1/4"	54 7/16" × 76 1/4"	53 3/16" × 76 1/4"
9 ft	107" × 95 1/2"	49 15/16" × 88 1/2"	53 7/16" × 93 1/4"	54 7/16" × 92 5/16"	53 3/16" × 92 5/16"
10 ft	119" × 81 "	55 15/16" × 74 "	59 7/16" × 78 3/4"	60 1/2" × 77 3/4"	59 3/16" × 77 3/4"
10 ft	119" × 79 1/2"	55 15/16" × 72 1/2"	59 7/16" × 77 1/4"	60 1/2" × 76 1/4"	59 3/16" × 76 1/4"
10 ft	119" × 95 1/2"	55 15/16" × 88 1/2"	59 7/16" × 93 1/4"	60 1/2" × 92 5/16"	59 3/16" × 92 5/16"
12 ft	143" × 81 "	67 15/16" × 74 "	71 7/16" × 78 3/4"	72 7/16" × 77 3/4"	71 3/16" × 77 3/4"
12 ft	143" × 79 1/2"	67 15/16" × 72 1/2"	71 7/16" × 77 1/4"	72 7/16" × 76 1/4"	71 3/16" × 76 1/4"
12 ft	143" × 95 1/2"	67 15/16" × 88 1/2"	71 7/16" × 93 1/4"	72 7/16" × 92 5/16"	71 3/16" × 92 5/16"

LOFT PATIO DOOR SIZING CHART



TWO PANELS—ASYMMETRICAL



Available left- or right-handed

METRIC UNITS (MILLIMETERS LENGTH × WIDTH)

WIDTH	DOOR	OPENING PANEL	CLEAR OPENING
2.09 m	2095 × 2057	914 × 1975	762
2.12 m	2120 × 2019	914 × 1937	762
2.12 m	2120 × 2426	914 × 2344	762
2.41 m	2407 × 2057	914 × 1975	762
2.41 m	2414 × 2019	914 × 1937	762
2.41 m	2419 × 2426	914 × 2344	762
2.71 m	2711 × 2057	914 × 1975	762
2.72 m	2723 × 2019	914 × 1937	762
2.72 m	2723 × 2426	914 × 2344	762
3.01 m	3015 × 2057	1219 × 1975	1066
3.03 m	3028 × 2019	1219 × 1937	1066
3.03 m	3028 × 2426	1219 × 2344	1066

IMPERIAL UNITS (INCHES LENGTH × WIDTH)

WIDTH	DOOR	OPENING PANEL	CLEAR OPENING
7 ft	82 1/2" × 81 "	36 × 77 3/4"	30
7 ft	83 1/2" × 79 1/2"	36 × 76 1/4"	30
7 ft	83 1/2" × 95 1/2"	36 × 92 5/16"	30
8 ft	94 3/4" × 81"	36 × 77 3/4"	30
8 ft	95 1/4" × 79 1/2"	36 × 76 1/4"	30
8 ft	95 1/4" × 95 1/2"	36 × 92 5/16"	30
9 ft	106 3/4" × 81 "	36 × 77 3/4"	30
9 ft	107 1/4" × 79 1/2"	36 × 76 1/4"	30
9 ft	107 1/4" × 95 1/2"	36 × 92 5/16"	30
10 ft	118 3/4" × 81"	48 × 77 3/4"	42
10 ft	119 3/4" × 79 1/2"	48 × 76 1/4"	42
10 ft	119 3/4" × 95 1/2"	48 × 92 5/16"	42