



Alumicor

BUILDING EXCELLENCE



Reviewed
Reviewed as noted
Revise and resubmit
Not reviewed

Date: 2020 Feb. 18

Reviewed by: MH

This review by J.C.F.A.Inc. is for the sole purpose of ascertaining conformance with the general design concept for architectural features only, and does not in any way constitute review of the design of engineering elements which form part of the contract documents prepared by others. This review shall not mean that J.C.F.A.Inc. approves the detailed design inherent in the shop drawings, responsibility for which shall remain with the Contractor submitting same, and such review shall not relieve the Contractor of the responsibility for errors or omissions in the shop drawings or of the responsibility for meeting all requirements of the contract documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to fabrication processes or to techniques of construction and installation, and for coordination of the work of all trades.

Jason C. Flynn Architect Inc. (J.C.F.A.Inc.)

Canadiana

Comprehensive Entrance Door System



Catalogue Pages



Specifications



CAD details

www.alumicor.com

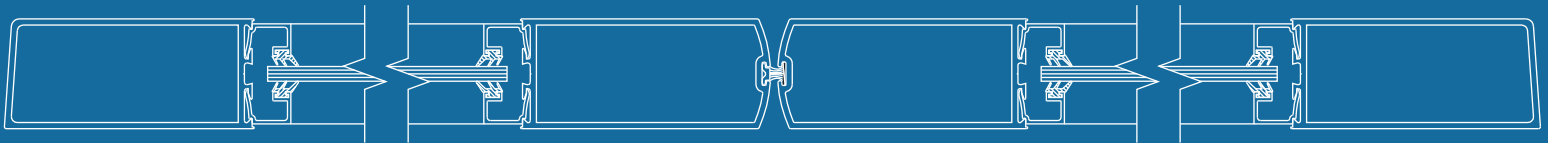
Canadiana

Comprehensive Entrance Door System



Features & Benefits

- Thickness of 1-3/4" (44.5mm)
- Ideal for non-thermally broken applications
- Canadiana Series doors are not just mechanically fastened. Each corner receives two deep penetration welds for added strength and security
- Stiles from 2-3/32" (53.2mm) to 5-3/4" (146.1mm)
- Top Rails from 2-1/8" (54.0mm) to 5-5/8" (142.9mm)
- Centre Rails from 3/4" (19.1mm) to a one piece 12-1/4" (311.2mm)
- Bottom Rails from 3-7/8" (98.4mm) to a one piece 12" (304.8mm)
- Designed to accept most universal as well as specialty hardware
- Standard glazing infill of 1/4" (6.4mm) or 1" (25.4mm)



Series 400A & 400B details



Onroute - King City, ON



St-Clair College Sportplex - Windsor, ON

Alumicor Western

800-665-3635

Alumicor Central

877-258-6426

Alumicor Eastern

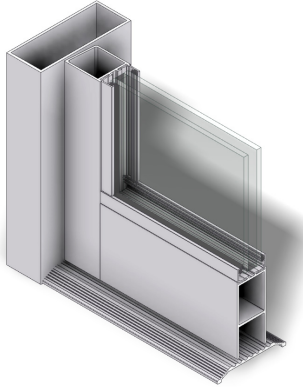
Facility 1 (St-Laurent, QC)
866-586-4267

Facility 2 (Bedford, NS)
888-346-5151

Canadiana - Entrance Door

Product Description

Non thermally broken 1 3/4" (44.5mm) thick door, available in narrow, medium and wide stiles



Recommended use

Ideal for non-thermally broken applications

Composition & Materials

- 6063 alloy, T5 or T6 temper aluminum extrusions
- Extruded EPDM gaskets

Finishes

Anodic coated finishes in Class I and Class II, architectural painted and powder coat finishes are available

Limitations

- Size restrictions. See size limitations charts for minimum/maximum sizes
- Not intended for residential applications

Technical Services

Contact any Alumicor regional office by visiting www.alumicor.com

Warranty

Alumicor standard warranty applies. Hardware is warranted by the hardware manufacturer. Extended warranties may be available. Alumicor's product warranties can be viewed at www.alumicor.com



Features & Benefits

- Thickness of 1 3/4" (44.5mm)
- Stiles from 2 1/8" (54mm) to 5 3/4" (146.1mm)
- Top rails from 2 1/8" (54mm) to 5 5/8" (142.9mm)
- Bottom rails from 3 7/8" (98.4mm) to 12" (304.8mm) (one piece)
- Optional centre rails from 3/4" (19.1mm) to 12 1/4" (311.2mm) (one piece)
- Standard glazing infill of 1/4" (6.4mm) or 1" (25.4mm)
- Large size capability. Up to 36"W x 120"H or 42"W x 120"H
- The most comprehensive and versatile door available
- Available in numerous stile and rail combinations
- Choose our basic door, a pre-designed package, or create your own custom design
- Each corner receives two deep penetration welds for added strength and security
- Designed to accept most universal hardware, as well as specialty hardware

Installation

Alumicor recommends that installation be by authorized Alumicor dealers. Contact your Alumicor representative to confirm the trade contractor is authorized to install Alumicor products. Specifiers may wish to incorporate the requirement of a Product Confirmation as a submittal requirement. Adhere to design, specifications, manufacturers published manuals and recommended industry practice.

Design Considerations

It is important for designers and specifiers to ensure that competent manufacturers' representatives are involved in the early stages of project design

Considerations that must be addressed at early design development:

- Minimum and maximum size limitations

Maintenance

Cleaning should be undertaken as soon as possible after installation to remove construction and environmental dirt and impurities. High PH compounds and cementitious products such as mortar must be immediately removed from all surfaces or irreparable damage to finishes will occur. Cleaning should begin at the top of the building and proceed downward in a continuous operation. Care should be taken to prevent the use of procedures and cleaning materials that could damage the finishes of the aluminum, glass, infill panels or adjacent building components. Clean annually using approved, non-abrasive cleaners and potable water. Cleaning of aluminum components should be performed in accordance with AAMA 609.1 and 620.2

Annually clean all dirt and debris from within the sub-frame of the operable window insert, carefully wipe weather and air seal gaskets with a mild soap and water, rinse with clean potable water; lubricate all operating components with manufacturer's recommended lubricant

Availability & Cost

Availability: Available through authorized Alumicor dealers that are competent in fabrication, assembly and installation of Alumicor products.

Cost: The cost depends upon project design, extent of project, finishes, glazing infills, customer requirements, hardware options and project location. Contact Alumicor regional offices for pricing and/or a list of authorized Alumicor dealers.

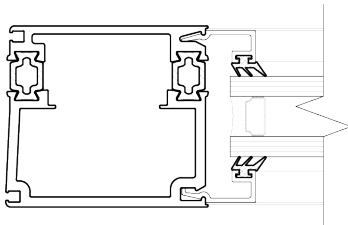
Filing System

MasterFormat, UniFormat or OmniClass

ThermaPorte 7700 - Thermally Broken Entrance Door

Product Description

Fully thermally broken entrance door available in narrow, medium and wide stiles. Available in singles and pairs.



Recommended use

Ideal for projects where heating & cooling costs are an important factor

Composition & Materials

- 6063 alloy, T5 or T6 temper aluminum extrusions
- Polyamide Thermal Break
- Extruded EPDM gaskets

Finishes

Anodic coated finishes in Class I and Class II, architectural painted and powder coat finishes are available

Limitations

- Not intended for residential applications
- Contact Alumicor for non-standard hardware applications

Technical Services

Contact any Alumicor regional office by visiting www.alumicor.com

Warranty

Alumicor standard warranty applies. Hardware is warranted by the hardware manufacturer. Extended warranties may be available. Alumicor's product warranties can be viewed at www.alumicor.com



Features & Benefits

- Thermally Broken 2 1/4" (57.2 mm) thick door
- Multiple stile and mid-rail options – narrow, medium or wide, which offer design freedom
- High performance thermal break provides full thermal separation of interior/exterior components, allowing different interior/exterior finishes
- 1" (25.4mm) glazing infills maintain high thermal properties
- Dual weatherstripping ensures a complete seal from the elements
- Mechanically fastened and welded corner construction for strength and durability
- Accommodates majority of standard industry hardware
- Completely factory fabricated by Alumicor for assurance in quality
- Fabricated at Alumicor facilities only
- Tested to AAMA and CSA requirements

Installation

Alumicor recommends that installation be by authorized Alumicor dealers. Contact your Alumicor representative to confirm the trade contractor is authorized to install Alumicor products. Specifiers may wish to incorporate the requirement of a Product Confirmation as a submittal requirement. Adhere to design, specifications, manufacturers published manuals and recommended industry practice.

Filing System

MasterFormat, UniFormat or OmniClass

Design Considerations

It is important for designers and specifiers to ensure that competent manufacturers' representatives are involved in the early stages of project design

Considerations that must be addressed at early design development:

- Minimum and maximum size limitations

Applicable Standards

ASTM E283 Standard Test Method for Determining Rate of Air Leakage through Exterior Windows, Curtain Walls and Doors under Specified Pressure Differences across the Specimen

AAMA 1304 – Voluntary Specification for Forced Entry Resistance for Side Hinged Door Systems

Maintenance

Cleaning should be undertaken as soon as possible after installation to remove construction and environmental dirt and impurities. High PH compounds and cementitious products such as mortar must be immediately removed from all surfaces or irreparable damage to finishes will occur. Cleaning should begin at the top of the building and proceed downward in a continuous operation. Care should be taken to prevent the use of procedures and cleaning materials that could damage the finishes of the aluminum, glass, infill panels or adjacent building components. Clean annually using approved, non-abrasive cleaners and potable water. Cleaning of aluminum components should be performed in accordance with AAMA 609.1 and 620.2

Annually clean all dirt and debris from within the sub-frame of the operable window insert, carefully wipe weather and air seal gaskets with a mild soap and water, rinse with clean potable water; lubricate all operating components with manufacturer's recommended lubricant

Availability & Cost

Availability: Available through authorized Alumicor dealers that are competent in fabrication, assembly and installation of Alumicor products.

Cost: The cost depends upon project design, extent of project, finishes, glazing infills, customer requirements, hardware options and project location. Contact Alumicor regional offices for pricing and/or a list of authorized Alumicor dealers.

Physical Properties

Property	Test Method	Result
Air Infiltration 75 Pa (1.57 psf)	ASTM E283	Single Result – 2.92 L/s.m.2 (0.58 cfm/ft ²) Double Result – 4.03 L/s.m.2 (0.79 cfm/ft ²)
Forced Entry Resistance	AAMA 1304	Single & Double Pass - The leaf remained locked and closed, and the locks and hinges did not disengage

*Tests performed by Exova, 2395 Speakman Drive, Mississauga, Ontario, L5K 1B3. Copies of test reports available upon request



AlumicorTM
BUILDING EXCELLENCE



ThermaPorte 7700

Fully Thermally Broken



Catalogue Pages



Specifications



CAD details

www.alumicor.com

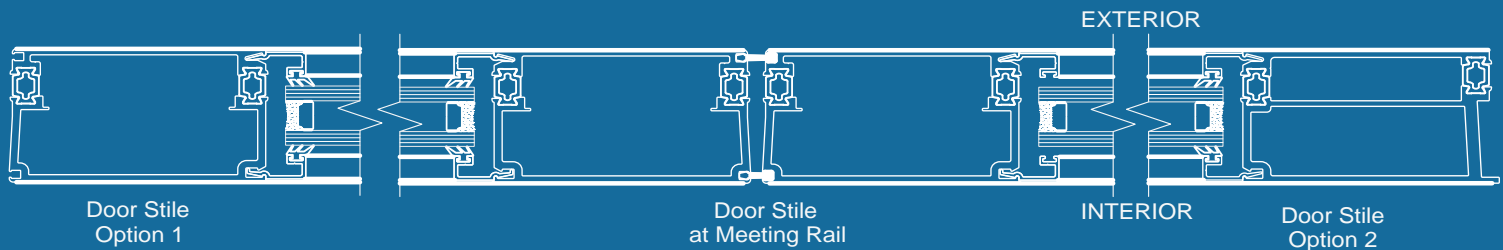


ThermaPorte 7700

The last piece of the high performance picture

Features & Benefits

- A true thermally broken door, NOT clad
- High performance thermal break provides full thermal separation of interior/exterior components and permits split interior/exterior finishes
- Multiple stile and mid-rail options – narrow, medium or wide
- Accepts 1" (25.4mm) glazing infills
- Dual weatherstripping along with bulb gaskets
- Mechanically fastened and plug-welded corners
- Accommodates majority of standard industry hardware
- Completely factory fabricated for assurance in quality



Alumicor Western

800-665-3635

Alumicor Central

877-258-6426

Alumicor Eastern

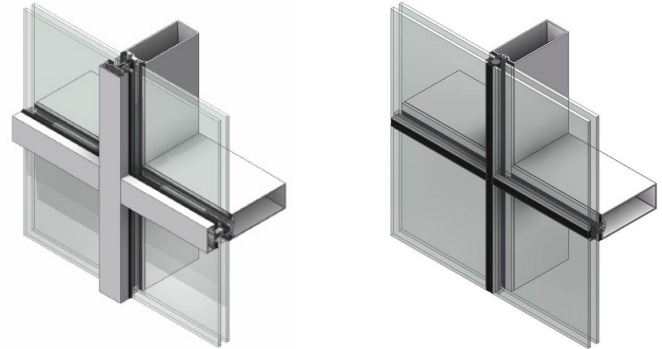
Montreal
866-586-4267

Halifax
888-346-5151

ThermaWall TW2200 Thermally Broken Curtain Wall System

Product Description

Thermally broken curtain wall - Capped and SSG
2" (50.8mm) profile



Recommended use

For low to medium rise curtain wall and storefront when high performance is crucial

Composition & Materials

- 6063 alloy, T6 or T5 temper aluminum extrusions
- Polyamide Thermal Break
- Extruded EPDM or silicone air and weather seal gaskets
- Structural extruded silicone glazing spacer is compatible with structural silicone sealants
- When necessary, internal reinforcing members are galvanized steel to suit engineering requirements
- Anchor devices may be a combination of pre-manufactured aluminum or steel components; project specific designs and/or cadmium plated fasteners

Finishes

Anodic coated finishes in Class I and Class II and architectural painted finishes are available. Also, two colour (exterior and interior) finishes are possible

Limitations

- Curtain wall applications should be reviewed by a qualified engineer for structural and load requirements
- Curtain wall is intended to be installed perpendicular (90 Degrees) to the floor. Any attempts to change this should be presented to Alumicor at the design stage to ensure drainage paths are maintained
- Thermal performance of curtain wall is dependent upon fenestration design and infill products, see available thermal charts
- Contact Alumicor for technical support in this area

Features & Benefits

- Fully thermally broken stick curtain wall in a slim 2" (50.8mm) profile with superior thermal performance
- Suitable for low rise curtain wall designs as well as storefront type applications
- Mullion depths from 2" (50.8mm) to 5" (127mm)
- Conventional capped or structural silicone glazed (SSG) options
- Composite action polyamide thermal break provides increased resistance to condensation and wind loads
- Available in both double and triple glazed
- A variety of pressure plate caps are available
- Compatible with all Alumicor operable windows, doors, etc.
- Custom offset pressure plate
- T-Anchor and splices available
- Unique glass support eliminates concerns of dead loads imposed upon the thermal break
- Proprietary gasket provides improved thermal performance
- Tested to NAFS-11 AW, CSA A440 & AAMA 501 requirements

Warranty

Alumicor standard product warranty applies. Extended warranties may be available. Alumicor's product warranties can be reviewed at www.alumicor.com

Filing System

MasterFormat, UniFormat or OmniClass

Technical Services

Contact any Alumicor regional office by visiting www.alumicor.com

Design Considerations

- Curtain wall designs are complex. It is important for designers and specifiers to ensure that competent manufacturer's representatives are involved in the early stages of the project.
- Some of the considerations that must be addressed at the early design stages are:
 - Design loads
 - Glazing infills (both vision, spandrel and operables)
 - Building construction components (and their effects upon the curtain wall)
 - Thermal performance requirements
 - Seismic requirements
 - Integration of the curtain wall into adjacent construction
 - Modules and spans

Applicable Standards

ASTM E283 Standard Test Method for Determining Rate of Air Leakage through Exterior Windows, Curtain Walls and Doors under Specified Pressure Differences across the Specimen.

ASTM E330 – Standard Test Method for Structural Performance of Exterior Windows, Doors Skylights and Curtain Walls by Uniform Static Air Pressure Difference

ASTM E331 – Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference

AAMA 501.1 – Standard Test Method for Water Penetration of Windows, Curtain Walls, and Doors using Dynamic Pressure

AAMA 501.4 – Static Test Method for Evaluating Curtain Wall and Store Front Systems subjected to Seismic and Wind Induced Inter-Story Drifts

AAMA 501.5 – Test Method for Thermal Cycling of Exterior Walls

AAMA 501.7 – Static Test Method for Evaluating Windows, Window Wall, Curtain Wall and Storefront Systems Subjected to Vertical Inter-Story Movements

Maintenance

Cleaning should be undertaken as soon as possible after installation to remove construction and environmental dirt and impurities. Cleaning should begin at the top of the building and proceed downward in a continuous operation. Care should be taken to prevent the use of procedures and cleaning materials that could damage the finishes of the aluminum, glass, infill panels or adjacent building components. The curtain wall system should be cleaned annually using approved, non-abrasive cleaners and potable water. Cleaning of aluminum components should be performed in accordance with AAMA 609.1 and 610.2.

Installation

Alumicor recommends that installation be by authorized Alumicor dealers. Contact your Alumicor representative to confirm the trade contractor is authorized to install Alumicor products. Specifiers may wish to incorporate the requirement of a Product Confirmation as a Submittals requirement. Adhere to design, specifications, manufacturers published manuals and recommended industry practice.

Availability & Cost

Availability: Available through authorized Alumicor dealers that are competent in fabrication, assembly and/or installation of the system.

Cost: The cost is dependent upon design, extent of project, finishes, glazing infill's, custom requirements, and project location. Contact Alumicor regional offices for pricing and/or a list of authorized Alumicor dealers that are authorized in fabrication, assembly and/or installation of the system.

Physical Properties

Property	Test Method	Result
Air Infiltration 300 Pa (6.26 psf)	ASTM E283	Allowable - 0.0003 m ³ /s/m ² (0.06 cfm/ft ²) Results - 0.00005 m ³ /s/m ² (0.01069 cfm/ft ²)
Air Exfiltration 300 Pa (6.26 psf)	ASTM E283	Allowable - 0.0003 m ³ /s/m ² (0.06 cfm/ft ²) Results - 0.00001 m ³ /s/m ² (0.00246 cfm/ft ²)
Water Penetration by Static Air Pressure Difference	ASTM E331	Allowable - No uncontrolled water penetration Results - Passed @ 720 Pa (15.04 psf)
Water Penetration by Dynamic Pressure Difference	AAMA 501.1	Allowable - No uncontrolled water penetration Results - Passed @ 720 Pa (15.04 psf)
Uniform Load Deflection	ASTM E330	Allowable - L/175 Passed - +1676 Pa, (+35 psf) - 1676 Pa, (-35 psf)
Uniform Load Structural	ASTM E330	Allowable - L/250 Passed - +2514 Pa, (+52.5 psf) - 2514 Pa, (-52.5 psf)
Horizontal Interstory Movement	AAMA 501.4	Passed - 3 Cycles of Movement at +/- 19.05mm (0.75 in)
Vertical Interstory Movement	AAMA 501.7	Passed - 3 Cycles of Movement at +/- 19.05mm (0.75 in)
Thermal Cycling	AAMA 501.5	Passed - 3 Cycles of Interior Temperature +21°C & Exterior Temperature -35°C – 60°C

*Tests performed by Exova, 2395 Speakman Dr, Mississauga, Ontario, L5K 1B3. Copies of test reports available upon request.



290 Humberline Drive, Toronto, Ontario, M9W 5S2
Phone: 416-745-4222 Fax: 416-745-4794
info@alumicor.com www.alumicor.com



AlumicorTM
BUILDING EXCELLENCE



ThermaWall TW2200

2" (50.8mm) Thermally Broken Curtain Wall



Catalog Pages



Specifications



CAD details

www.alumicor.com

ThermaWall TW2200

Thermally Broken Curtain Wall

FEATURES & BENEFITS

- Fully thermally broken stick curtain wall in a slim 2" (50.8mm) profile with superior thermal performance
- Suitable for low rise curtain wall designs as well as storefront type applications
- Mullion depths from 2" (50.8mm) to 5" (127mm)
- Conventional capped or structural silicone glazed (SSG) options
- Composite action polyamide thermal break provides increased resistance to condensation and wind loads
- Custom offset pressure plate
- Available in both double and triple glazed
- Compatible with all Alumicor operable windows, doors, etc.
- A variety of pressure plate caps are available
- Unique glass support eliminates concerns of dead loads imposed upon the thermal break
- Proprietary gasket provides improved thermal performance
- Tested to NAFS-11 AW, CSA A440 & AAMA 501 requirements

Capped



SSG



Alumicor West
Winnipeg, MB
800-665-3635

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Toronto, ON
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866-586-4267
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