

PRODUCT PERFORMANCE TEST REPORT

Rendered To:

CMI ARCHITECTURAL PRODUCTS

608 Fourth Street S.E.
DeSmet, South Dakota 57231-0475

Report No. 02-31851.01
Test Dates: 12/09/1999
12/14/1999
Report Date: 12/29/1999

Scope: Air Infiltration Test
One Single and One Pair Aluminum Swinging Doors

Test Procedure:

Air infiltration testing was conducted in accordance with ASTM E 283-91, "*Standard Test Method for Rate of Air Leakage Through Exterior Windows, Curtainwalls and Doors Under Specified Pressure Differences Across the Specimen.*" Testing was conducted at a 1.56 psf pressure difference.

Series/Model Tested: Series 200 Narrow Stile Door

Type: Aluminum swinging door

Overall Frame Size:

Single – 3' 3-1/2" wide by 7' 1-3/4" high
Pair – 6' 3-1/2" wide by 7' 1-3/4" high

Door Opening Size:

Single – 3' 0" wide by 7' 0" high
Pair – 6' 0" wide by 7' 0" high

Overall Area:

Single – 23.5 ft²
Pair – 45.0 ft²

Finish: Painted aluminum.

Glazing: The glazing on both doors consisted of monolithic 1/4" tempered glass. The glass was set between aluminum stops with EPDM gasket used on both the interior and exterior.

Weatherstripping:

Single door –

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Neoprene bulb	1 row	Door stops (frame)
Vinyl leaf “sweep”	1 row	Door bottom rail
Wool pile pad	2	Sill corners

Pair doors –

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Neoprene bulb	1 row	Door stops (frame)
Vinyl leaf “sweep”	1 row	Bottom of both door rails
Wool pile “astragal”	2 rows	Active panel stile, where doors meet
Wool pile pad	2	Sill corners

Frame Construction: The frame consisted of extruded aluminum with the corners square cut, sealed with small joint sealant and secured with screwed on corner blocks.

Panel Construction: Door panels consisted of extruded aluminum stiles and rails with the corners butted, screw-fastened to aluminum corner blocks and welded. All ends of vertical stiles were filled with expandable foam.

Hardware:

Single door –

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Dead bolt lock	1	Midspan of door lock stile engaging keeper in frame
Butt hinges	2	Hinge jamb, 5” from each end

Pair doors –

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Dead bolt lock	1	Locking stile of active panel engaging stile of passive panel
Butt hinges	4	Two per door panel, 5” from each end
Flush bolt locks	2	Top and bottom of inactive leaf

Test Results:

<u>Title of Test</u>	<u>Results</u>	<u>Allowed</u>
Air Infiltration Per ASTM E 283 @ 1.56 psf		
Single Door	0.39 cfm/ft ²	0.50 cfm/ft ² max.
Pair Doors	0.44 cfm/ft ²	1.00 cfm/ft ² max.

A copy of this report will be retained by ATI for a period of four years. This report is the exclusive property of the client so named herein and is applicable to the sample tested. Results obtained are tested values and do not constitute an opinion or endorsement by this laboratory.

For ARCHITECTURAL TESTING, INC.

Steve D. Duren
Technician

Daniel A. Johnson
Regional Manager

SDD/jb
02-31851

DOCUMENT CONTROL ADDENDUM 02-31851

Current Issue Date: 12/29/99

Report No. 02-31851.01

Requested by: Gary Geigler

Purpose: Structural Test Report

Issue Date: 12/29/99

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Rendered to:

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Series 200 Narrow Stile Door

Report No: 02-31851.01
Report Date: 12/28/1999