

TEST REPORT # T796-3

DATE: October 16, 2012

CLIENT: **Westeck Windows Mfg. Inc.**
8104 Evans Road
Chilliwack, British Columbia
V2R 5R8
Contact: Terry Adamson

SAMPLE ID: Outswing door - Fiberglass slab

SAMPLE DESCRIPTION: Width: 954 mm Height: 2078 mm See page 3 for full description.

SAMPLING PROCEDURES: See page 2 for the sampling procedure.

DATE OF RECEIPT: October 5, 2012

DATE(S) OF TESTING: October 9, 2012 - December 19, 2012

TESTING REQUESTED: **Testing to the mandatory requirements of AAMA/WDMA/CSA
101/I.S.2/A440-08 NAFS - North American Fenestration Standard
/ Specification for windows, doors and skylights**

TEST RESULTS: See Page 3 for the test results.

CONTENTS: Test Report Pages 1 through 6, Appendix A1 through A16

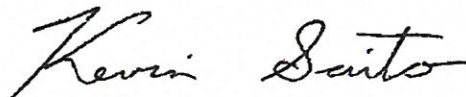
TESTING PERFORMED AT: Quality Auditing Institute, Coquitlam

Reported By

Reviewed By



Jason Komorski
Project Manager



Kevin Saito
Windows Division Manager

Product Ratings:

Table 1: Summary of test results

Test Name	AAMA/WDMA/CSA 101/I.S.2/A440-08 NAFS - North American Fenestration Standard / Specification for windows, doors and skylights Result:
Force To Latch Test (5.3.1.2.1)	16.8 lbf
Deadbolt Force Test (5.3.1.2.2)	N/A – Deadbolt was not provided
Air Tightness (ASTM E283)	Pressure differential = 75 Pa A3 Rating Infiltration result = 0.000 cfm/ft ² Exfiltration result = 0.000 cfm/ft ² Average result = 0.000 cfm/ft ²
Water Tightness (ASTM E331)	Maximum pressure differential = 330 Pa (PG 45 – 6.75 psf)
Wind Load Resistance – Deflection (ASTM E330 – Procedure A)	Maximum pressure differential = 2160 Pa (PG 45 - 45 psf)
Wind Load Resistance – Blowout (ASTM E330 – Procedure A)	Maximum pressure differential = 3240 Pa (PG 45 - 67.5 psf)
Forced Entry (AAMA 1304)	Pass
Thermoplastic Corner Weld Test (Clause 5.3.6.2)	N/A
Operation/cycling performance (5.3.6.10)	Pass 100,000 cycles
Vertical Loading Resistance (Clause 5.3.6.11)	Pass Maximum load applied: 150 lbf Maximum vertical deflection: 0.253" Residual vertical deflection: 0.000" Diagonal deformation: 0.000"

Performance Classification: LC
Performance Grade: 45 PG
Maximum Size Tested: 954 mm wide x 2078 mm tall (38" x 82")

Primary Designator:

Class LC – PG45: Size tested 954 x 2078 mm (38 x 82 in) – Side Hinged Door (Type SHD)
Class LC – PG2160 (metric): Size tested 954 x 2078 mm – Side Hinged Door (Type SHD)

Secondary Designator:

Positive Design Pressure (DP) = 2160 Pa (45 psf)
Negative Design Pressure (DP) = -2160 Pa (-45 psf)
Water Penetration Resistance Test Pressure = 330 Pa (6.75 psf)
Canadian Air Infiltration / Exfiltration = A3 Level

Note: AAMA/WDMA/CSA 101/I.S.2/A440-08, Clause 5.2.5: The air, water and structural tests were performed on test specimens installed per the method outlined in the test conditions section of this report. The test procedures are designed to test the performance of the test specimen only and are not used to test the performance of the installation, in particular the perimeter sealant joint and the anchoring of the assembly. However, products not installed according to the installation method described in this report may not perform to an equivalent performance level.



CANADA:
#16 - 211 SCHOOLHOUSE
STREET
COQUITLAM
BRITISH COLUMBIA
V3K 4X9
T: 604.527.8378
F: 604.527.8368
www.qai.org • info@qai.org

UNITED STATES:
8385 WHITE OAK AVENUE
RANCHO CUCAMONGA
CALIFORNIA
91730
T: 909.483.0250
F: 905.483.0336
www.qai.org • info@qai.org

TEST REPORT # T796-4

DATE: October 16, 2012

CLIENT: **Westeck Windows Mfg. Inc.**
8104 Evans Road
Chilliwack, British Columbia
V2R 5R8
Contact: Terry Adamson

SAMPLE ID: Outswing door - Aluminum clad wood slab

SAMPLE DESCRIPTION: Width: 954 mm Height: 2078 mm See page 3 for full description.

SAMPLING PROCEDURES: See page 2 for the sampling procedure.

DATE OF RECEIPT: October 5, 2012

DATE(S) OF TESTING: October 9, 2012 - December 19, 2012

TESTING REQUESTED: Testing to the mandatory requirements of AAMA/WDMA/CSA
101/I.S.2/A440-08 NAFS - North American Fenestration Standard
/ Specification for windows, doors and skylights

TEST RESULTS: See Page 3 for the test results.

CONTENTS: Test Report Pages 1 through 7, Appendix A1 through A20

TESTING PERFORMED AT: Quality Auditing Institute, Coquitlam

Reported By

Reviewed By

Jason Komorski
Project Manager

Kevin Saito
Windows Division Manager

Product Ratings:

Table 1: Summary of test results

Test Name	AAMA/WDMA/CSA 101/I.S.2/A440-08 NAFS - North American Fenestration Standard / Specification for windows, doors and skylights Result:
Force To Latch Test (5.3.1.2.1)	16.8 lbf
Deadbolt Force Test (5.3.1.2.2)	N/A – Deadbolt was not provided
Air Tightness (ASTM E283)	Pressure differential = 75 Pa A3 Rating Infiltration result = 0.000 cfm/ft ² Exfiltration result = 0.000 cfm/ft ² Average result = 0.000 cfm/ft ²
Water Tightness (ASTM E331)	Maximum pressure differential = 330 Pa (PG 45 – 6.75 psf)
Wind Load Resistance – Deflection (ASTM E330 – Procedure A)	Maximum pressure differential = 2160 Pa (PG 45 - 45 psf)
Wind Load Resistance – Blowout (ASTM E330 – Procedure A)	Maximum pressure differential = 3240 Pa (PG 45 - 67.5 psf)
Forced Entry (AAMA 1304)	Pass
Thermoplastic Corner Weld Test (Clause 5.3.6.2)	N/A
Operation/cycling performance (5.3.6.10)	Pass 100,000 cycles
Vertical Loading Resistance (Clause 5.3.6.11)	Pass Maximum load applied: 150 lbf Maximum vertical deflection: 0.253" Residual vertical deflection: 0.000" Diagonal deformation: 0.000"

Performance Classification: LC
Performance Grade: 45 PG
Maximum Size Tested: 954 mm wide x 2078 mm tall (38" x 82")

Primary Designator:

Class LC – PG45: Size tested 954 x 2078 mm (38 x 82 in) – Side Hinged Door (Type SHD)
Class LC – PG2160 (metric): Size tested 954 x 2078 mm – Side Hinged Door (Type SHD)

Secondary Designator:

Positive Design Pressure (DP) = 2160 Pa (45 psf)
Negative Design Pressure (DP) = -2160 Pa (-45 psf)
Water Penetration Resistance Test Pressure = 330 Pa (6.75 psf)
Canadian Air Infiltration / Exfiltration = A3 Level

Note: AAMA/WDMA/CSA 101/I.S.2/A440-08, Clause 5.2.5: The air, water and structural tests were performed on test specimens installed per the method outlined in the test conditions section of this report. The test procedures are designed to test the performance of the test specimen only and are not used to test the performance of the installation, in particular the perimeter sealant joint and the anchoring of the assembly. However, products not installed according to the installation method described in this report may not perform to an equivalent performance level.

TEST REPORT # T796-5

DATE: April 2, 2013

CLIENT: **Westeck Windows Mfg. Inc.**
8104 Evans Road
Chilliwack, British Columbia
V2R 5R8
Contact: Terry Adamson

SAMPLE ID: Double Outswing Door with Fiberglass Full Lite Slabs

SAMPLE DESCRIPTION: Width: 1850 mm Height: 2078 mm See page 3 for full description.

SAMPLING PROCEDURES: See page 2 for the sampling procedure.

DATE OF RECEIPT: February 10, 2013

DATE(S) OF TESTING: February 13, 2013 - April 1, 2013

TESTING REQUESTED: **Testing to the mandatory requirements of AAMA/WDMA/CSA
101/I.S.2/A440-08 NAFS - North American Fenestration Standard
/ Specification for windows, doors and skylights**

TEST RESULTS: See Page 3 for the test results.

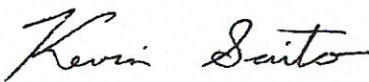
CONTENTS: Test Report Pages 1 through 6, Appendix A1 through A17

TESTING PERFORMED AT: Quality Auditing Institute, Coquitlam

Reported By

Reviewed By


Neil Dumont
Project Manager


Kevin Saito
Windows Division Manager

Product Ratings:

Table 1: Summary of test results

Test Name	AAMA/WDMA/CSA 101/I.S.2/A440-08 NAFS - North American Fenestration Standard / Specification for windows, doors and skylights Result:
Force To Latch Test (5.3.1.2.1)	14.7 lbf
Deadbolt Force Test (5.3.1.2.2)	N/A – Deadbolt was not provided
Air Tightness (ASTM E283)	Pressure differential = 75 Pa A3 Rating Infiltration result = 0.000 cfm/ft ² Exfiltration result = 0.000 cfm/ft ² Average result = 0.000 cfm/ft ²
Water Tightness (ASTM E331)	Maximum pressure differential = 510 Pa (PG 70 – 10.50 psf)
Wind Load Resistance – Deflection (ASTM E330 – Procedure A)	Maximum pressure differential = 2880 Pa (PG 60 - 60 psf)
Wind Load Resistance – Blowout (ASTM E330 – Procedure A)	Maximum pressure differential = 3600 Pa (PG 50 – 75.0 psf)
Forced Entry (AAMA 1304)	Pass
Thermoplastic Corner Weld Test (Clause 5.3.6.2)	N/A
Operation/cycling performance (5.3.6.10)	Pass 100,000 cycles
Vertical Loading Resistance (Clause 5.3.6.11)	Pass Maximum load applied: 150 lbf Maximum vertical deflection: 0.253" Residual vertical deflection: 0.000" Diagonal deformation: 0.000"

Performance Classification: LC
Performance Grade: 50 PG
Maximum Size Tested: 1850 mm wide x 2078 mm tall (73" x 82")

Primary Designator:

Class LC – PG50: Size tested 1850 mm x 2078 mm (73" x 82") – Side Hinged Door (Type SHD-DD)
Class LC – PG2400 (metric): Size tested 1850 mm x 2078 mm – Side Hinged Door (Type SHD-DD)

Secondary Designator:

Positive Design Pressure (DP) = 2400 Pa (50 psf)
Negative Design Pressure (DP) = -2400 Pa (-50 psf)
Water Penetration Resistance Test Pressure = 510 Pa (10.50 psf)
Canadian Air Infiltration / Exfiltration = A3 Level

Note: AAMA/WDMA/CSA 101/I.S.2/A440-08, Clause 5.2.5: The air, water and structural tests were performed on test specimens installed per the method outlined in the test conditions section of this report. The test procedures are designed to test the performance of the test specimen only and are not used to test the performance of the installation, in particular the perimeter sealant joint and the anchoring of the assembly. However, products not installed according to the installation method described in this report may not perform to an equivalent performance level.

TEST REPORT # T796-8

DATE: January 23, 2014

CLIENT: **Westeck Windows Mfg. Ltd.**
8104 Evans Road
Chilliwack, British Columbia
V2R 5R8
Contact: Terry Adamson

SAMPLE ID: Single Outswing Fiberglass Door

SAMPLE DESCRIPTION: Width: 951 mm Height: 2067 mm See page 3 for full description.

SAMPLING PROCEDURES: See page 2 for the sampling procedure.

DATE OF RECEIPT: November 22, 2013

DATE(S) OF TESTING: December 16, 2013

TESTING REQUESTED: **Testing to the mandatory requirements of AAMA/WDMA/CSA
101/I.S.2/A440-08 NAFS - North American Fenestration Standard
/ Specification for windows, doors and skylights**

TEST RESULTS: See Page 3 for the test results.

CONTENTS: Test Report Pages 1 through 7, Appendix A1 through A16

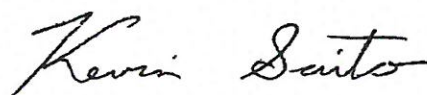
TESTING PERFORMED AT: Quality Auditing Institute, Coquitlam

Reported By

Reviewed By



Vincent Gador
Project Manager



Kevin Saito
Windows Division Manager

Product Ratings:

Table 1: Summary of test results

Test Name	AAMA/WDMA/CSA 101/I.S.2/A440-08 NAFS - North American Fenestration Standard / Specification for windows, doors and skylights Result:
Force To Latch Test (5.3.1.2.1)	Pass – 13.8 lbf
Air Tightness (ASTM E283)	Pressure differential = 75 Pa A2 Level Infiltration result = 0.102 L/s/m ² (0.020 cfm/ft ²) - A3 Level Exfiltration result = 1.019 L/s/m ² (0.201 cfm/ft ²) – A2 Level
Water Tightness (ASTM E331)	Maximum pressure differential = 0 Pa (Limited Water Rating)
Wind Load Resistance – Deflection (ASTM E330 – Procedure A)	Maximum pressure differential = 2160 Pa (PG 45 - 45 psf)
Wind Load Resistance – Blowout (ASTM E330 – Procedure A)	Maximum pressure differential = 3240 Pa (PG 45 - 67.5 psf)

Performance Classification: R
 Performance Grade: PG 45
 Maximum Size Tested: 951 mm wide x 2067 mm tall (37" x 81")

Primary Designator:

Class R – PG 45: Size tested 951 x 2067 mm (37 x 81 in) – Limited Water Side Hinged Door (Type LW SHD)
 Class R – PG 2160 (metric): Size tested 951 x 2067 mm – Limited Water Side Hinged Door (Type LW SHD)

Secondary Designator:

Positive Design Pressure (DP) = 2160 Pa (45 psf)
 Negative Design Pressure (DP) = -2160 Pa (-45 psf)
 Water Penetration Resistance Test Pressure = 0 Pa (0.00 psf)
 Canadian Air Infiltration / Exfiltration = A2 Level

Note: AAMA/WDMA/CSA 101/I.S.2/A440-08, Clause 5.2.5: The air, water and structural tests were performed on test specimens installed per the method outlined in the test conditions section of this report. The test procedures are designed to test the performance of the test specimen only and are not used to test the performance of the installation, in particular the perimeter sealant joint and the anchoring of the assembly. However, products not installed according to the installation method described in this report may not perform to an equivalent performance level.

TEST REPORT # T796-11

DATE: March 31, 2014

CLIENT: **Westeck Windows Mfg. Ltd.**
8104 Evans Road
Chilliwack, British Columbia
V2R 5R8
Contact: Terry Adamson

SAMPLE ID: 8' Double Out-swing Door with Flush Bolt and Astragal

SAMPLE DESCRIPTION: Width: 1859 mm Height: 2473 mm See page 3 for full description.

SAMPLING PROCEDURES: See page 2 for the sampling procedure.

DATE OF RECEIPT: February 4, 2014

DATE(S) OF TESTING: February 4, 2014

TESTING REQUESTED: **Testing to the mandatory requirements of AAMA/WDMA/CSA
101/I.S.2/A440-08 NAFS - North American Fenestration Standard
/ Specification for windows, doors and skylights**

TEST RESULTS: See Page 3 for the test results.

CONTENTS: Test Report Pages 1 through 7, Appendix A1 through A20

TESTING PERFORMED AT: Quality Auditing Institute, Coquitlam

Reported By

Reviewed By



Vincent Gador
Project Manager



Jason Komoski
Reviewer

Product Ratings:

Table 1: Summary of test results

Test Name	AAMA/WDMA/CSA 101/I.S.2/A440-08 NAFS - North American Fenestration Standard / Specification for windows, doors and skylights Result:
Force To Latch Test (5.3.1.2.1)	Pass – 14.8 lbf
Air Leakage Resistance (ASTM E283)	Pressure differential = 75 Pa A3 Level* Infiltration result = 0.322 L/s/m ² (0.063 cfm/ft ²) - A3 Level* Exfiltration result = 0.415 L/s/m ² (0.082 cfm/ft ²) - A3 Level*
Water Penetration Resistance Test (ASTM E331)	Maximum pressure differential = 360 Pa (PG 50 – 7.50 psf)*
Uniform Load Deflection Test at Design Pressure (ASTM E330 – Procedure A)	Maximum pressure differential = 1920 Pa (PG 40 - 40 psf)
Uniform Load Structural Test (ASTM E330 – Procedure A)	Maximum pressure differential = 2880 Pa (PG 40 - 60 psf)

*The handle and deadbolt were bagged off and were not part of this test.

Performance Classification: LC**
Performance Grade: PG 40**
Maximum Size Tested: 1859 mm wide x 2473 mm tall (73" x 97")

Primary Designator:

Class LC – PG 40: Size tested 1859 x 2473 mm (73 x 97 in) – Side Hinged Door (Type SHD)
 Class LC – PG 1920 (metric): Size tested 1859 x 2473 mm – Side Hinged Door (Type SHD)

Secondary Designator:

Positive Design Pressure (DP) = 1920 Pa (40 psf)
 Negative Design Pressure (DP) = -1920 Pa (-40 psf)
 Water Penetration Resistance Test Pressure = 360 Pa (7.50 psf)
 Canadian Air Infiltration / Exfiltration = A3 Level

** The following tests were not completed:

- Deadbolt Force Test (5.3.1.2.2)
- Forced Entry (AAMA 1304)
- Operation/cycling performance (5.3.6.10)
- Vertical Loading Resistance (Clause 5.3.6.11)

Note: AAMA/WDMA/CSA 101/I.S.2/A440-08, Clause 5.2.5: The air, water and structural tests were performed on test specimens installed per the method outlined in the test conditions section of this report. The test procedures are designed to test the performance of the test specimen only and are not used to test the performance of the installation, in particular the perimeter sealant joint and the anchoring of the assembly. However, products not installed according to the installation method described in this report may not perform to an equivalent performance level.

TEST REPORT # T796-16

DATE: January 20, 2015

CLIENT: **Westeck Windows Mfg. Ltd.**
8104 Evans Road
Chilliwack, British Columbia
V2R 5R8
Contact: Terry Adamson

SAMPLE ID: Outswing door - Fiberglass Slab - Double Drilled

SAMPLE DESCRIPTION: Width: 950 mm Height: 2071 mm See page 3 for full description.

SAMPLING PROCEDURES: See page 2 for the sampling procedure.

DATE OF RECEIPT: November 26, 2014

DATE(S) OF TESTING: November 28, 2014 - January 19, 2015

TESTING REQUESTED: **Testing to the mandatory requirements of AAMA/WDMA/CSA 101/I.S.2/A440-11 NAFS - North American Fenestration Standard / Specification for windows, doors and skylights**

TEST RESULTS: See Page 3 for the test results.

CONTENTS: Test Report Pages 1 through 7, Appendix A1 through A19


TESTING PERFORMED AT: QAI Laboratories Ltd., Coquitlam

Reported By



Jason Komorski
Project Manager

Reviewed By



Kevin Saito
Division Manager

Product Ratings:

Table 1: Summary of test results

Test Name	AAMA/WDMA/CSA 101/I.S.2/A440-11 NAFS - North American Fenestration Standard / Specification for windows, doors and skylights Result:
Force To Latch Test (6.4.5.1)	Pass – 8.9 lbf
Force-to-engage Test (For Deadbolt) (Clause 6.4.5.2)	Pass
Air Leakage Resistance (ASTM E283)	Pressure differential = 75 Pa A3 Level Infiltration result = 0.000 L/s/m ² (0.000 cfm/ft ²) - A3 Level Exfiltration result = 0.000 L/s/m ² (0.000 cfm/ft ²) - A3 Level
Water Penetration Resistance Test (ASTM E547)	Maximum pressure differential = 400 Pa (PG 55 - 8.25 psf) ^a
Uniform Load Deflection Test at Design Pressure (ASTM E330 – Procedure A)	Maximum pressure differential = 2160 Pa (PG 45 - 45 psf)
Uniform Load Structural Test (ASTM E330 – Procedure A)	Maximum pressure differential = 3240 Pa (PG 45 - 67.5 psf)
Forced Entry Resistance Test (AAMA 1304)	Pass
Vertical Loading Resistance (Clause 6.4.8)	Pass Maximum load applied: 675 N (150 lbf) Maximum vertical deflection: 3.2 mm (0.127") Diagonal deformation: 2 mm (0.08")

Performance Classification: R^b
Performance Grade: PG 45^b
Maximum Size Tested: 950 mm wide x 2071 mm tall (37" x 82")

Primary Designator:

Class R – PG45: Size tested 950 x 2071 mm (37 x 82 in) – Side Hinged Door (Type SHD)
Class R – PG2160 (metric): Size tested 950 x 2071 mm – Side Hinged Door (Type SHD)

Secondary Designator:

Positive Design Pressure (DP) = 2160 Pa (45 psf)
Negative Design Pressure (DP) = -2160 Pa (-45 psf)
Water Penetration Resistance Test Pressure = 400 Pa (8.25 psf)
Canadian Air Infiltration / Exfiltration = A3 Level

Note: AAMA/WDMA/CSA 101/I.S.2/A440-11, Clause 9.2.5: The air, water and structural tests were performed on test specimens installed per the method outlined in the test conditions section of this report. The test procedures are designed to test the performance of the test specimen only and are not used to test the performance of the installation, in particular the perimeter sealant joint and the anchoring of the assembly. However, products not installed according to the installation method described in this report may not perform to an equivalent performance level.

^a The handle and deadbolt were bagged off and were not part of this test.

^b The following tests were not completed: -Operation/Cycling-Slam Performance (Clause 6.4.7)



TEST REPORT # T796-17

DATE: March 27, 2017

CLIENT: **Westeck Windows and Doors**
8104 Evans Road
Chilliwack, BC
V2R 5R8
Contact: John Neels

SAMPLE ID: Commodity Series Double Door Outswing 6070 Double Drill Fiberglass

SAMPLE DESCRIPTION: Width: 1860 mm; Height: 2170 mm; See pages 4 and 5 for full description.

SAMPLING PROCEDURES: See page 2 for the sampling procedure.

DATE OF RECEIPT: May 6, 2016.

DATES OF TESTING: May 6, 2016 - November 2, 2016.

TESTING REQUESTED: **Testing to the mandatory requirements of AAMA/WDMA/CSA 101/I.S.2/A440-11 NAFS - North American Fenestration Standard / Specification for windows, doors and skylights.**

TEST RESULTS: See page 3 for the test results.

CONTENTS: Test report pages 1 through 7, appendix A1 through A200.

TESTING PERFORMED AT: QAI Laboratories Ltd., Burnaby.

Reported by

Igor Vranjes
Project Manager

Reviewed by

Lawrence Gibson
Executive VP

Product Ratings:

Table 1: Summary of test results

Test Name	AAMA/WDMA/CSA 101/I.S.2/A440-11 NAFS - North American Fenestration Standard / Specification for windows, doors and skylights Result:
Force to Latch Test (Clause 6.4.5.1)	Pass – 7.80 lbf
Air Leakage Resistance Test (ASTM E283)	Pressure differential = 75 Pa A2 Level Infiltration result = 0.165 L/s/m ² (0.032 cfm/ft ²) – Fixed Level Exfiltration result = 0.801 L/s/m ² (0.158 cfm/ft ²) – A2 Level
Water Penetration Resistance Test (ASTM E547)	Maximum pressure differential = 330 Pa (DP 45 – 6.75 psf) ^a
Uniform Load Structural Test (ASTM E330 – Procedure A)	Design pressure = 1200 Pa (DP 25) Maximum pressure differential = 1800 Pa (37.5 psf)
Forced Entry Resistance Test (AAMA 1304)	Pass

Performance Classification: LC ^b
Performance Grade: PG 25 ^b
Maximum Size Tested: 1860 mm wide x 2170 mm tall (73.2" x 85.4")

Primary Designator:

Class LC – PG25: Size tested 1860 x 2170 mm (73.2 x 85.4 in) – Side-Hinged Door (Type SHD)
Class LC – PG1200 (metric): Size tested 1860 x 2170 mm – Side-Hinged Door (Type SHD)

Secondary Designator:

Positive Design Pressure (DP) = 1200 Pa (25 psf)
Negative Design Pressure (DP) = -1200 Pa (-25 psf)
Water Penetration Resistance Test Pressure = 330 Pa (6.75 psf)
Canadian Air Infiltration / Exfiltration = A2 Level

Note: AAMA/WDMA/CSA 101/I.S.2/A440-11, Clause 9.2.5: The air, water and structural tests were performed on test specimens installed per the method outlined in the test conditions section of this report. The test procedures are designed to test the performance of the test specimen only and are not used to test the performance of the installation, in particular the perimeter sealant joint and the anchoring of the assembly. However, products not installed according to the installation method described in this report may not perform to an equivalent performance level.

^a The door frame was sealed to the rough opening of the test buck along the entire perimeter on interior side and was not evaluated for water penetration at the penetration points of the fastening screws or steel reinforcement.

^b The following tests were not completed: – Force to engage test (for deadbolt) (Clause 6.4.5.2)
– Operation/cycling-slam test performance (Clause 6.4.7)
– Vertical loading resistance (Clause 6.4.8)

TEST REPORT # T796-18

DATE: March 28, 2017

CLIENT: **Westeck Windows and Doors**
8104 Evans Road
Chilliwack, British Columbia
V2R 5R8
Contact: John Neels

SAMPLE ID: Fir Outswing SDD Combination Door w/ Multipoint

SAMPLE DESCRIPTION: Width: 3750 mm Height: 3087 mm See pages 5 to 8 for full description.

SAMPLING PROCEDURES: See page 2 for the sampling procedure.

DATE OF RECEIPT: July 7, 2016

DATE(S) OF TESTING: July 8, 2016 - August 12, 2016

TESTING REQUESTED: **Testing to the mandatory requirements of AAMA/WDMA/CSA 101/I.S.2/A440-11 NAFS - North American Fenestration Standard / Specification for windows, doors and skylights**

TEST RESULTS: See pages 3 and 4 for the test results.

CONTENTS: Test report pages 1 through 10, appendix A1 through A22.

TESTING PERFORMED AT: QAI Laboratories Ltd., Burnaby

Reported by



Igor Vranjes
Project Manager

Reviewed by



Lawrence Gibson
Executive VP

Product Ratings:

Table 1: Summary of test results

Test Name	AAMA/WDMA/CSA 101/I.S.2/A440-11 NAFS - North American Fenestration Standard / Specification for windows, doors and skylights Result:
Force To Latch Test (6.4.5.1)	Pass – 13.4 lbf
Air Leakage Resistance (ASTM E283)	Pressure differential = 75 Pa A3 Level ^a Infiltration result = 0.154 L/s/m ² (0.030 cfm/ft ²) – A3 Level ^a Exfiltration result = 0.167 L/s/m ² (0.033 cfm/ft ²) – A3 Level ^a
Water Penetration Resistance Test (ASTM E547)	Maximum pressure differential = 720 Pa (DP 100 – 15.00 psf) ^{ab}
Uniform Load Structural Test (ASTM E330 – Procedure A)	Design pressure = 1440 Pa (DP 30) Maximum pressure differential = 2160 Pa (45.0 psf)
Forced Entry Resistance Test (AAMA 1304)	Pass

Note: AAMA/WDMA/CSA 101/I.S.2/A440-11, Clause 9.2.5: The air, water and structural tests were performed on test specimens installed per the method outlined in the test conditions section of this report. The test procedures are designed to test the performance of the test specimen only and are not used to test the performance of the installation, in particular the perimeter sealant joint and the anchoring of the assembly. However, products not installed according to the installation method described in this report may not perform to an equivalent performance level.

Fir Outswing SDD Combination Door w/ Multipoint	
Performance Classification:	LC
Performance Grade:	PG 30
Maximum Size Tested:	3750 mm wide x 3087 mm tall (147.6" x 121.5")
Primary Designator:	
Class LC – PG30: Size tested 3750 x 3087 mm (147.6 x 121.5 in)	
Class LC – PG1440 (SI): Size tested 3750 x 3087 mm	
Secondary Designator:	Positive Design Pressure (DP) = 1440 Pa (30 psf) Negative Design Pressure (DP) = -1440 Pa (-30 psf) Water Penetration Resistance Test Pressure = 720 Pa (15.00 psf) ^{ab} Canadian Air Infiltration / Exfiltration = A3 Level ^a

^a The handle and deadbolt were bagged off and were not part of this test.

^b Mullion joints and frame corner joints, outside of the perimeter of the frame, were sealed to the rough opening of the buck and were not evaluated for water penetration.