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SERENITY ACQUISITION COMPANY TEST REPORT

SCOPE OF WORK

REPORT OF SERENITY WOOD SLIDING DOOR SYSTEM TESTED IN ACCORDANCE WITH ANSI/UL 1784-2015.

REPORT NUMBER
106266697MID-005R1

TEST DATE(S)
11/19/25 - 11/20/25

ISSUE DATE 01/28/26

REVISED DATE 02/06/26

PAGES
9

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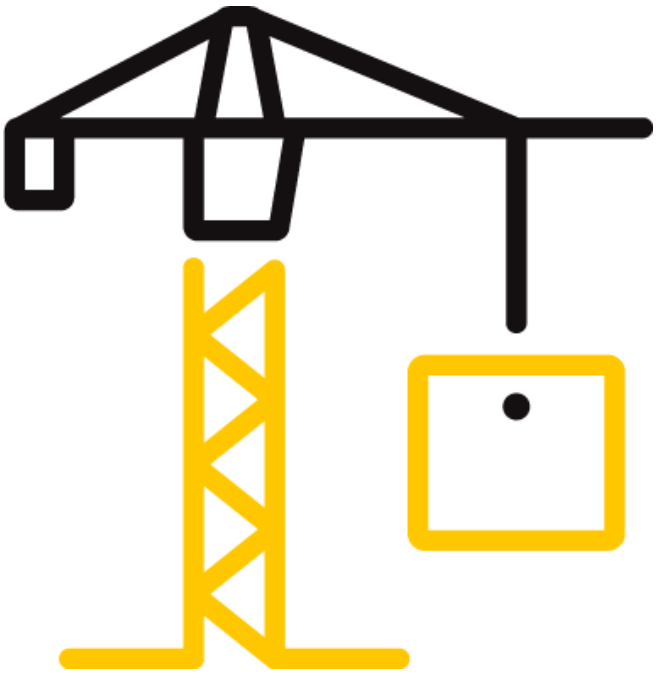
RT-R-AMER-Test-2827 (09/09/21)



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TEST REPORT FOR SERENITY ACQUISITION COMPANY
Report No.: 106266697MID-005R1
Date: 01/28/26

REPORT ISSUED TO

SERENITY ACQUISITION COMPANY
635 Elkton Drive
Colorado Springs, CO 80907

SECTION 1

SCOPE

Product: Serenity Wood Sliding Door System

Intertek Building & Construction (B&C) was contracted by Serenity Acquisition Company to evaluate their Wood Sliding Door System in accordance with ANSI/UL 1784-2015. Results obtained are tested values and were secured by using the designated test methods. Testing was conducted at the Intertek B&C test facility in Middleton, WI.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.
Unless differently required, Intertek reports apply the "Simple Acceptance" rule, also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

SECTION 2

SUMMARY OF TEST RESULTS

TEST PRESSURE (inch H_2O)	MAXIMUM MEASURED LEAKAGE RATE (scfm/ft^2)
0.05	1.21
0.10	**2.19**
0.20	3.63
0.30	4.92

For INTERTEK B&C:

COMPLETED BY:	Kevin Dang	**REVIEWED BY:**	Russ Burt
TITLE:	Technical Team Lead Intertek B&C	**TITLE:**	Senior Associate Engineer Intertek B&C
SIGNATURE:		**SIGNATURE:**	
DATE:	02/06/26	**DATE:**	02/06/26

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SECTION 3
TEST METHODS

The specimen was evaluated in accordance with the following:

> **ANSI/UL 1784-2015**, *Standard for Air Leakage Tests of Door Assemblies and Other Opening Protectives,* Fourth Edition, February 17, 2015

SECTION 4
MATERIAL SOURCE

The product was sampled by Intertek representative Robert Beyer (refer to Sampling Report #106266697MID-002) on July 25, 2025. The sample was received at the Middleton facility on August 20, 2025 in good condition and labeled as MID2508201544-001. Refer to the product drawings in Section 11.

SECTION 5
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Lee Turner	Serenity Acquisition Company
Russ Burt	Intertek B&C
Randy Leeder	Intertek B&C

SECTION 6
TEST PROCEDURES

All conditioning of test specimens and test conditions were at standard laboratory conditions unless otherwise reported. Refer to test assembly photos in Section 10.

ANSI/UL 1784-2015

The sample air leakage rate was determined at ambient temperature in both orientations. Leakage rates were determined using a laminar flow element (ICN: 562) at four test pressures ranging from 0.05 to 0.3 inches H_2O as measured by an inclined manometer (ICN: 1198). After determining the orientation with greatest leakage, that orientation was tested at an elevated temperature of 400 ±10°F (ICN: 54). Closing force was measured as the minimum force exerted by the self-closing mechanism to fully close and latch the door (ICN #65162).

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SECTION 7
TEST SPECIMEN DESCRIPTION

The sample under evaluation was a Serenity Sliding Door System. Personnel from Serenity Acquisition Company installed the door system into a test wall constructed by Intertek personnel. The test wall was constructed of nominal 2 x 4 wood studs with 5/8-inch drywall on both sides, with a rough opening of 46.5-inches wide by 85-inches high. Wood blocking was installed per the installation instructions across the wall to support the track. The door system consisted of a sliding VT Industries particle board core door with a top support track and extruded aluminium jambs. The door dimensions were 48-inches wide by 84-inches high. The sample included Pemko S773 gasket in the head track, Pemko S773 gasket attached to the face of the door at the trailing edge, Pemko S771 gasket was applied to the face of the jamb frame such that it contacted the S773 when the door was closed, Pemko S88 in the latch edge of frame, a wool pile gasket in track and frame receiver, and a Serenity Acoustic automatic door bottom. The sample included a self-closing mechanism and a sliding door latch. For additional details see drawings in Section 11 of this report.

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SECTION 8
TEST RESULTS

MEASURED SAMPLE AREA (ft^2)	CLOSING FORCE (lbf)
26.25	6

Track Out of Chamber Orientation, Ambient Temperature

TEST PRESSURE (inch H_2O)	CHAMBER TEMP (°F)	SAMPLE LEAKAGE (scfm)	LEAKAGE RATE ($scfm/ft^2$)
0.05	69	16.10	0.61
0.10	69	25.34	0.97
0.20	70	38.48	1.47
0.30	71	52.40	2.00

Track Into Chamber Orientation, Ambient Temperature

TEST PRESSURE (inch H_2O)	CHAMBER TEMP (°F)	SAMPLE LEAKAGE (scfm)	LEAKAGE RATE ($scfm/ft^2$)
0.05	68	16.42	0.63
0.10	69	23.45	0.89
0.20	70	30.55	1.16
0.30	70	39.46	1.50

Track Out of Chamber Orientation, Elevated Temperature

TEST PRESSURE (inch H_2O)	CHAMBER TEMP (°F)	SAMPLE LEAKAGE (scfm)	LEAKAGE RATE ($scfm/ft^2$)
0.05	390	31.74	1.21
0.10	**393**	**57.45**	**2.19**
0.20	394	95.41	3.63
0.30	392	129.02	4.92

SECTION 9
CONCLUSION

After evaluating in accordance with ANSI/UL 1784-2015, the provided sample obtained the leakage rates listed in Section 8 of this test report. ANSI/UL 1784-2015 does not contain minimum performance criteria.

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SECTION 10
PHOTOGRAPHS

Photo No. 1
Overview of Test Assembly- Track Out of Chamber Orientation

Photo No. 2
Overview of Test Assembly- Track Into Chamber Orientation

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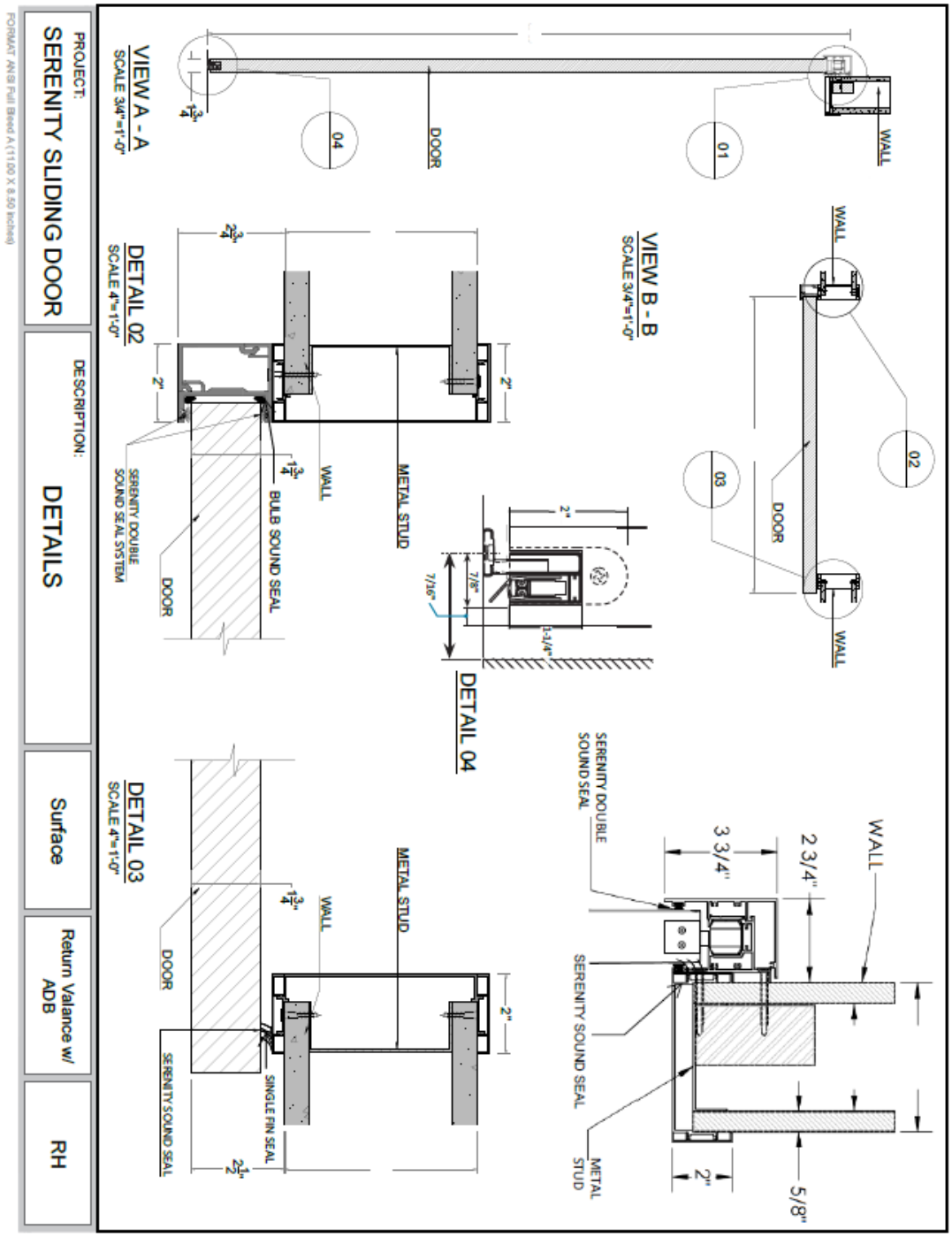
SECTION 11
DRAWINGS



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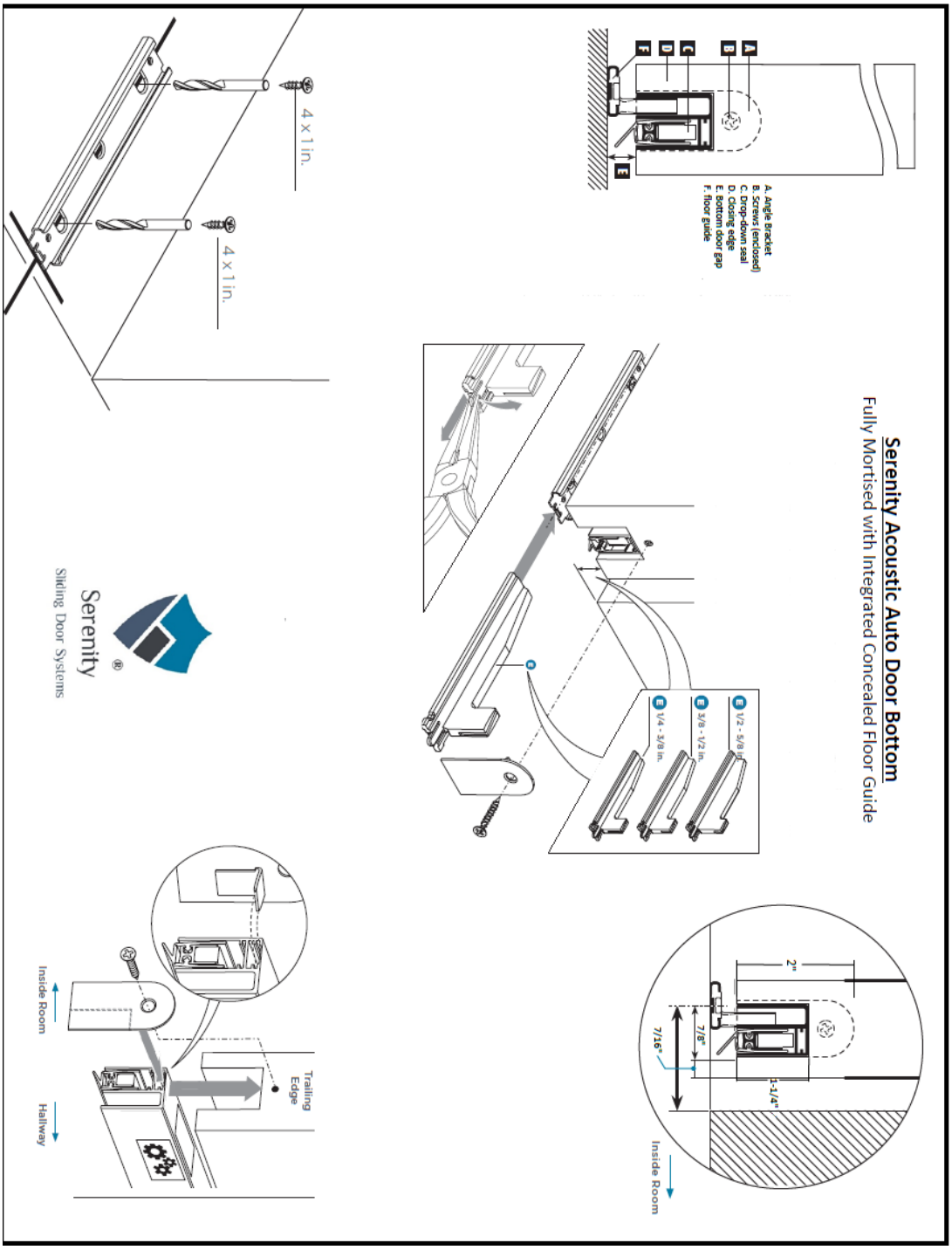

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SECTION 12
REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	01/28/26	N/A	Original Report Issue
1	02/06/26	2,5	Revised Test Parameters – Sample Area