

CLIENT: **Newmor Wallcoverings**
Madoc Works Henfaes Lane
Welshpool, UK SY21 7BE

Test Report Number :	QA2808-1R1	Date:	September 5, 2025
		Revision Date:	September 12, 2025

SAMPLE ID: The client identified the following test material as:
Premier 20oz Type II Nonwoven-Backed Wallcovering

SAMPLING DETAIL: Test Samples were submitted to the Laboratory directly by the client. No sampling by QAI staff. QAI staff did sample prep the samples by cutting it down to 24 inches by 5 foot long and adhering it to concrete board with Romans 838 Heavy Duty Clear Adhesive. There were four pieces cut to five feet, and one cut to four feet for each run of the three runs to equal the 24 foot tunnel length.

DATE OF RECEIPT: Samples were received at QAI facilities on: 08/18/2025

TESTING PERIOD: 08/27/2025 to:08/27/2025

AUTHORIZATION: Testing was authorized by Newmor for proposal QAI-2254 signed 07/31/2025.

TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with CAN ULC S102 - 18 "STANDARD METHOD OF TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS AND ASSEMBLIES".

	<u>Flame Spread</u>	<u>Smoke Developed</u>
TEST 1 RESULTS:	9 *UNROUNDED	115 *UNROUNDED
TEST 2 RESULTS:	12 *UNROUNDED	78 *UNROUNDED
TEST 3 RESULTS:	8 *UNROUNDED	47 *UNROUNDED
AVERAGE ROUNDED:	10	80

Prepared By



Scott berry
Lab Supervisor - Fire

Signed for and on behalf of
QAI Laboratories, Inc.



C. Anthony Peñaloza
Project Specialist 3

Digitally signed by C.
Anthony Peñaloza
Date: 2025.09.12 10:12:58
-05'00'

This report is the confidential property of the client addressed. The report may only be reproduced in full. Publication of extracts from this report is not permitted without written approval from QAI. Any liability attached thereto is limited to the fee charged for the individual project file referenced. The results of this report pertain only to the specific sample(s) evaluated. Unless specifically stated or identified otherwise, QAI has utilized a simple acceptance rule to make conformity decisions on testing results contained in this report, as applicable.



SCOPE: This fire-test-response standard is used for the comparative surface burning behavior of building materials is applicable to exposed surfaces such as walls, ceilings and others. The test is conducted with the specimen in the ceiling position with the surface to be evaluated exposed face down to the ignition source. The material, product, or assembly shall be capable of being mounted in the test position during the test. Thus, the specimen shall either be self-supporting by its own structural quality, held in place by added supports along the test surface, or secured from the back side. The purpose of this test method is to determine the relative burning behavior of the material by observing the flame spread along the specimen. Flame spread and smoke developed index are reported. However, there is not necessarily a relationship between these two measurements.

USE: The use of supporting materials on the underside of the test specimen has the ability to lower the flame spread index from those which might be obtained if the specimen could be tested without such support. These test results do not necessarily relate to indices obtained by testing materials without such support.

Testing of materials that melt, drip, or delaminate to such a degree that the continuity of the flame front is destroyed, results in low flame spread indices that do not relate directly to indices obtained by testing materials that remain in place.

This standard is used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled conditions, but does not by itself incorporate all factors required for fire-hazard or fire-risk assessment of the materials, products, or assemblies under actual fire conditions.

PROCEDURE: A brief overview of the method is as follows: The test specimen, a material between 20 and 24 inches in width by 24 feet +/- 12 inches in length is loaded onto the water cooled ledge of the fire test chamber when tested to ASTM E84 or CAN/ULC-S102. If tested to CAN/ULC-S102.2 the specimen is tested on the chamber floor. The inside dimensions are 17 3/4 inches +/- 1/4" wide by 12 inches +/- 1/2" deep by 25 feet long. The fire test chamber is a rectangular horizontal duct with a removable lid. The sides and base of the chamber are lined with an insulated firebrick with pressure tight observation windows down one side for a technician to observe flame progression during the duration of the 10-minute test period. The chamber lid is lowered into test position with non combustible concrete board placed between the specimen and chamber lid. A draft of 240 feet per minute which is maintained inside the test chamber throughout the test period by the means of an electronic fan afterburner and an electronically controlled damper door system located downstream of the test chamber in the exhaust ducting. The test is started when the test flame is ignited at the front of the test chamber. An electronic photocell system located in the exhaust system downstream from the test chamber is used to plot the smoke developed for use in calculating the smoke developed index while a technician plots the flame spread distance used in determining the flame spread index. The test is run for the 10 minute duration in accordance to the method.

(See Diagrams in the Appendix of this report.)

This report is the confidential property of the client addressed. The report may only be reproduced in full. Publication of extracts from this report is not permitted without written approval from QAI. Any liability attached thereto is limited to the fee charged for the individual project file referenced. The results of this report pertain only to the specific sample(s) evaluated. Unless specifically stated or identified otherwise, QAI has utilized a simple acceptance rule to make conformity decisions on testing results contained in this report, as applicable.

**Test Number 1 of 3****PREPARATION AND CONDITIONING:**

The sample roll material was delivered to QAI in 24 inch wide X 5 feet long X 0.25 inch thick fabric. 5 of these fabric were used for the test. (See Photos in Appendix of this report). The specimen was placed in the conditioning room (maintained at $70 \pm 5^\circ$ F and a relative humidity of $50 \pm 5\%$) for a minimum of 72 hours prior to testing.

MOUNTING METHOD:

The test ready sample consisting of 5 pieces measuring 24 inches wide X 5 feet long and an overall test thickness of 1/4 inches were stacked end to end on the chamber ledge to fulfill the chamber requirements for testing. Prior to testing the samples were covered with 1/4 inch cement board as required in the test method.

Test Number 1 of 3**CAN ULC S102 TEST RESULTS:**

CLIENT NAME: Newmor Wallcoverings **TEST DATE:** 2025-08-27

SAMPLE ID: Premier 20oz Type II Nonwoven-Backed Wallcovering

SAMPLE IGNITION: 00:08 Minutes / Seconds

MAX FLAME FRONT: 2.1 Feet

TIME TO MAXIMUM SPREAD: 03:38 Minutes / Seconds

TEST DURATION: 09:59 Minutes / Seconds

SUMMARY:

FLAME SPREAD:	9	*UNROUNDED
SMOKE DEVELOPED:	115	*UNROUNDED

OBSERVATIONS:

Ignition Time on the sample was observed at 00:08. Charring was observed at 00:15. Blistering was observed at 00:16. Bubbling was observed at 00:16.

**Test Number 2 of 3****PREPARATION AND CONDITIONING:**

The sample board material was delivered to QAI in 24 inch wide X 5 feet long X 0.25 inch thick fabric. 5 of these fabric were used for the test. (See Photos in Appendix of this report). The specimen was placed in the conditioning room (maintained at $70 \pm 5^\circ$ F and a relative humidity of $50 \pm 5\%$) for a minimum of 72 hours prior to testing.

MOUNTING METHOD:

The test ready sample consisting of 5 pieces measuring 24 inches wide X 5 feet long and an overall test thickness of 1/4 inches were stacked end to end on the chamber ledge to fulfill the chamber requirements for testing. Prior to testing the samples were covered with 1/4 inch cement board as required in the test method.

Test Number 2 of 3**CAN ULC S102 TEST RESULTS:**

CLIENT NAME: Newmor Wallcoverings **TEST DATE:** 2025-08-27

SAMPLE ID: Premier 20oz Type II Nonwoven-Backed Wallcovering

SAMPLE IGNITION: 00:30 Minutes / Seconds

MAX FLAME FRONT: 3.3 Feet

TIME TO MAXIMUM SPREAD: 07:26 Minutes / Seconds

TEST DURATION: 10:00 Minutes / Seconds

SUMMARY:

FLAME SPREAD:	12	*UNROUNDED
SMOKE DEVELOPED:	78	*UNROUNDED

OBSERVATIONS:

Ignition Time on the sample was observed at 00:30. Charring was observed at 00:40.

**Test Number 3 of 3****PREPARATION AND CONDITIONING:**

The sample roll material was delivered to QAI in 24 inch wide X 5 feet long X 0.25 inch thick fabric. 5 of these fabric were used for the test. (See Photos in Appendix of this report). The specimen was placed in the conditioning room (maintained at $70 \pm 5^\circ$ F and a relative humidity of $50 \pm 5\%$) for a minimum of 72 hours prior to testing.

MOUNTING METHOD:

The test ready sample consisting of 5 pieces measuring 24 inches wide X 5 feet long and an overall test thickness of 1/4 inches were stacked end to end on the chamber ledge to fulfill the chamber requirements for testing. Prior to testing the samples were covered with 1/4 inch cement board as required in the test method.

Test Number 3 of 3**CAN ULC S102 TEST RESULTS:**

CLIENT NAME: Newmor Wallcoverings **TEST DATE:** 2025-08-27

SAMPLE ID: Premier 20oz Type II Nonwoven-Backed Wallcovering

SAMPLE IGNITION: 00:12 Minutes / Seconds

MAX FLAME FRONT: 3.3 Feet

TIME TO MAXIMUM SPREAD: 08:26 Minutes / Seconds

TEST DURATION: 10:00 Minutes / Seconds

SUMMARY:

FLAME SPREAD:	8	*UNROUNDED
SMOKE DEVELOPED:	47	*UNROUNDED

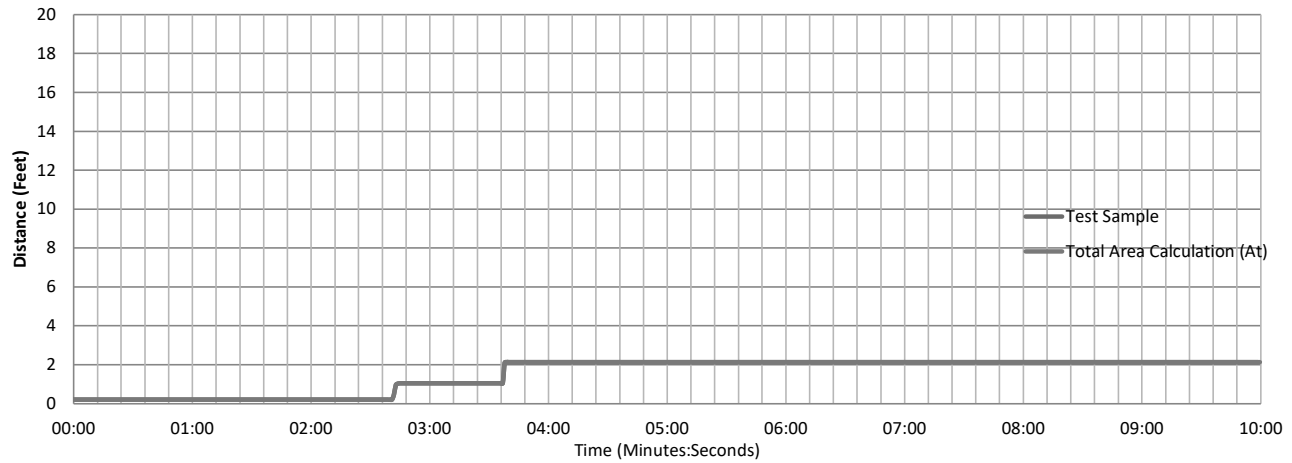
OBSERVATIONS:

Ignition Time on the sample was observed at 00:12. Charring was observed at 00:22.

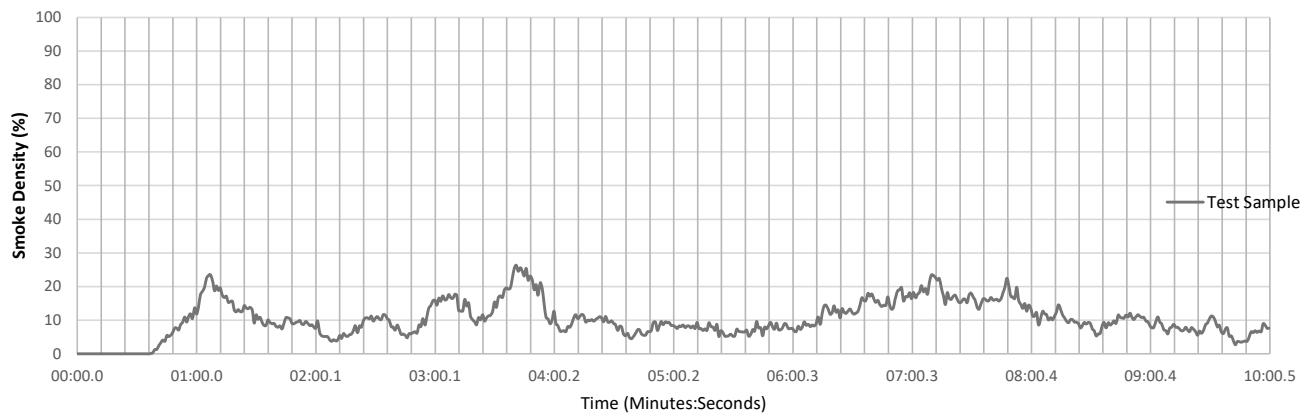


RESULTS CONTINUED: Test Number 1 of 3

Flame Spread



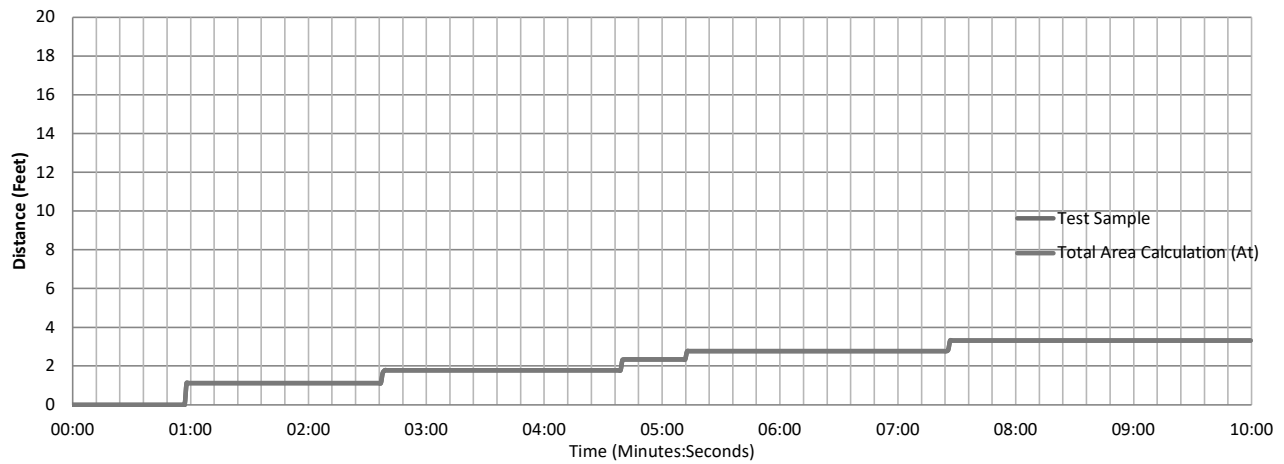
Smoke Readings



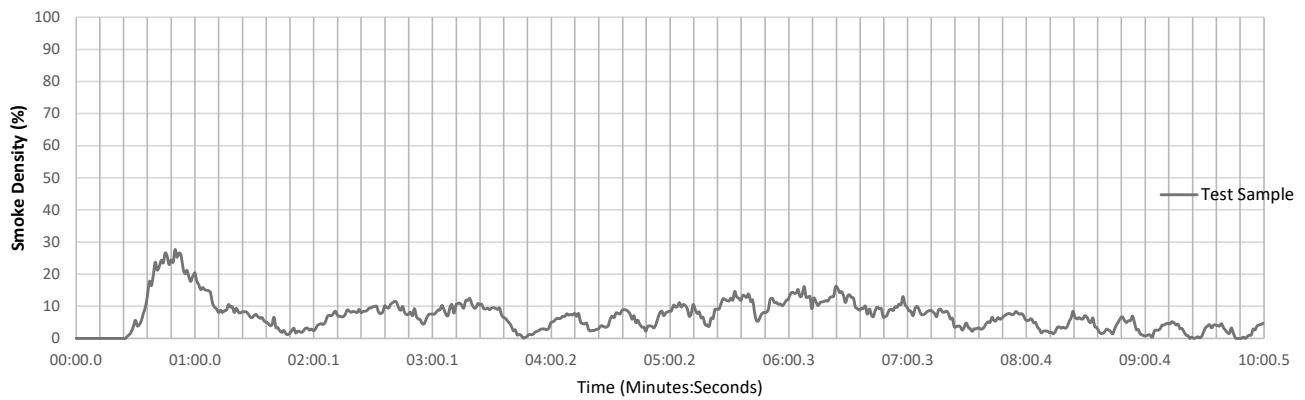


RESULTS CONTINUED: Test Number 2 of 3

Flame Spread



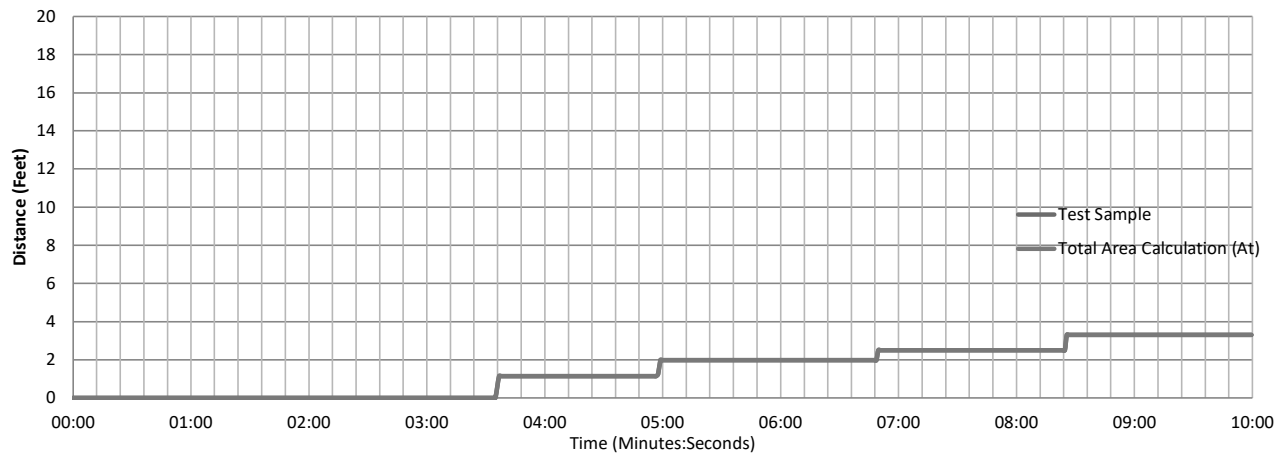
Smoke Readings



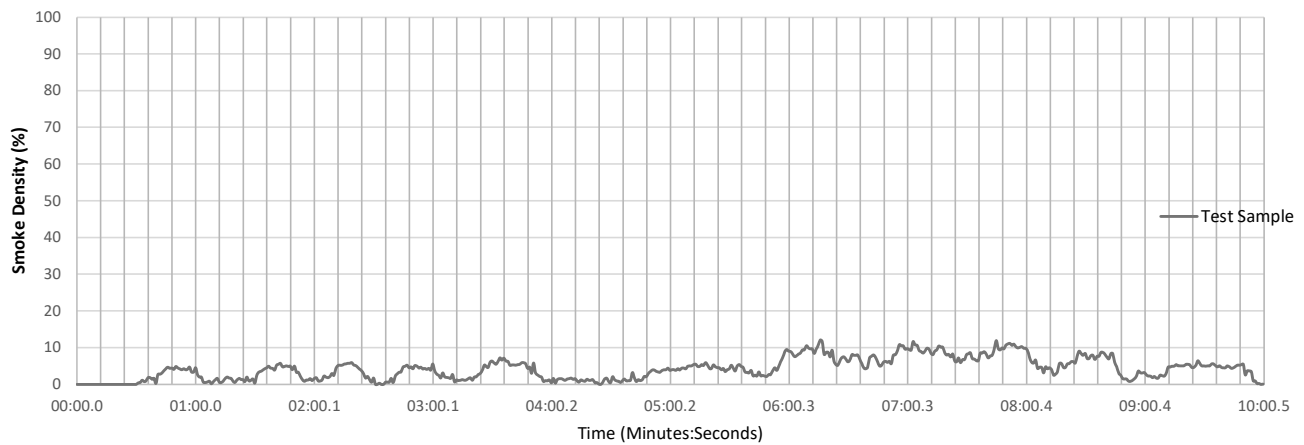


RESULTS CONTINUED: Test Number 3 of 3

Flame Spread



Smoke Readings



APPENDIX

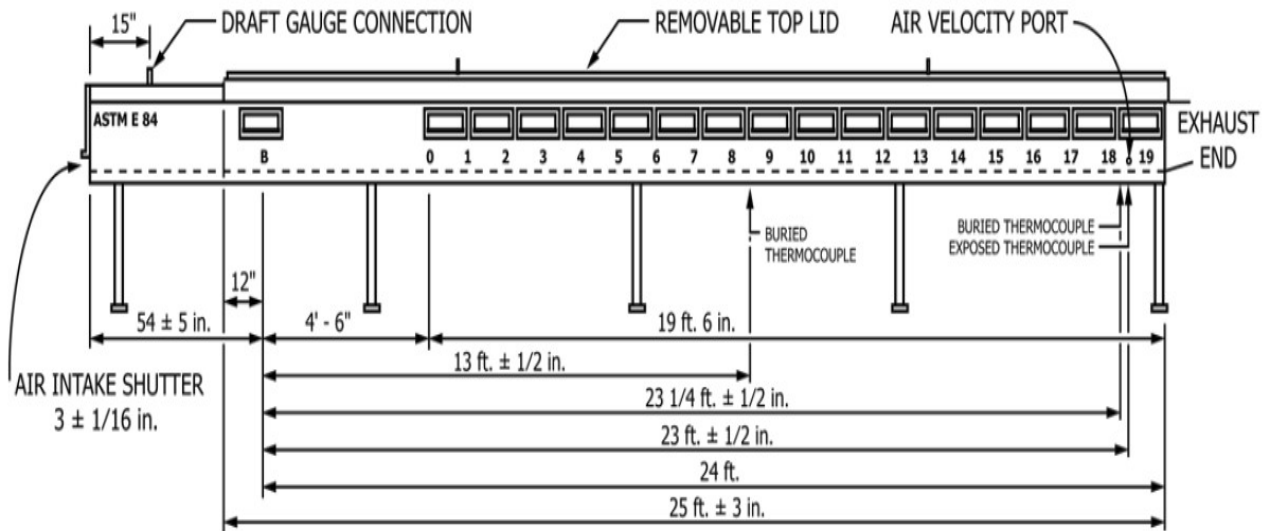


Diagram 1. Test Chamber side view showing critical dimensions.

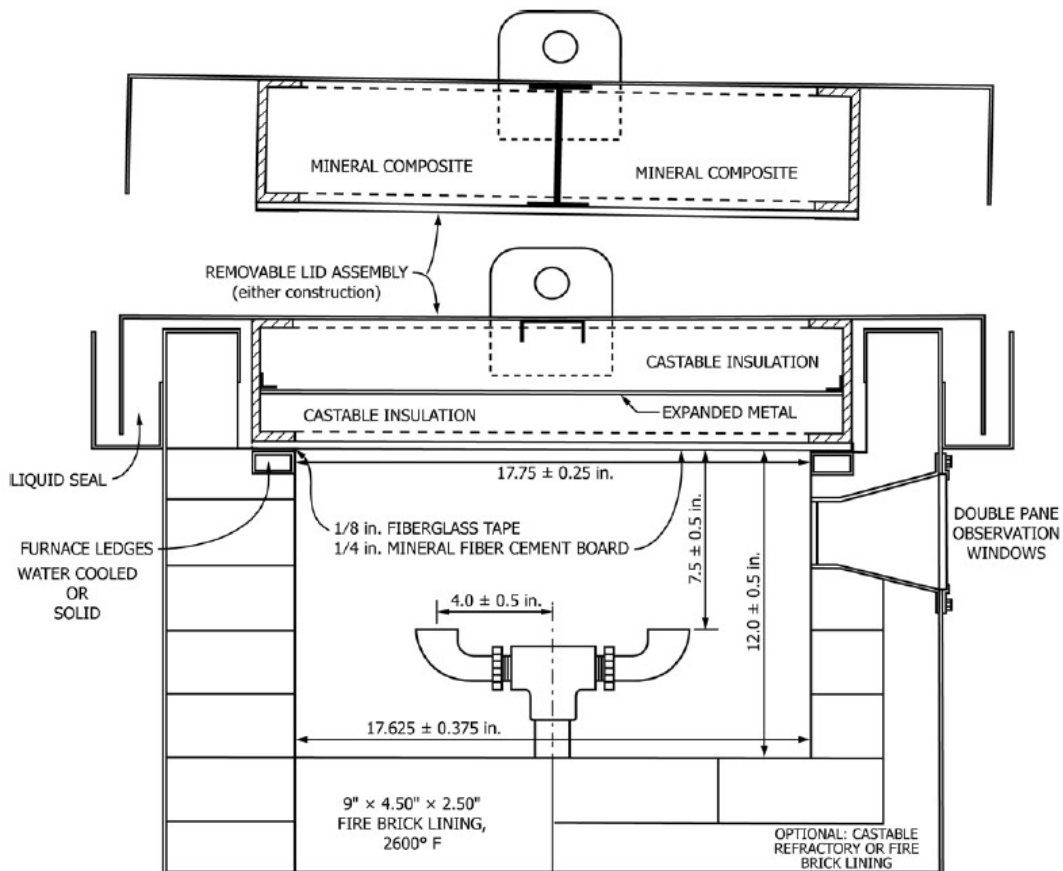
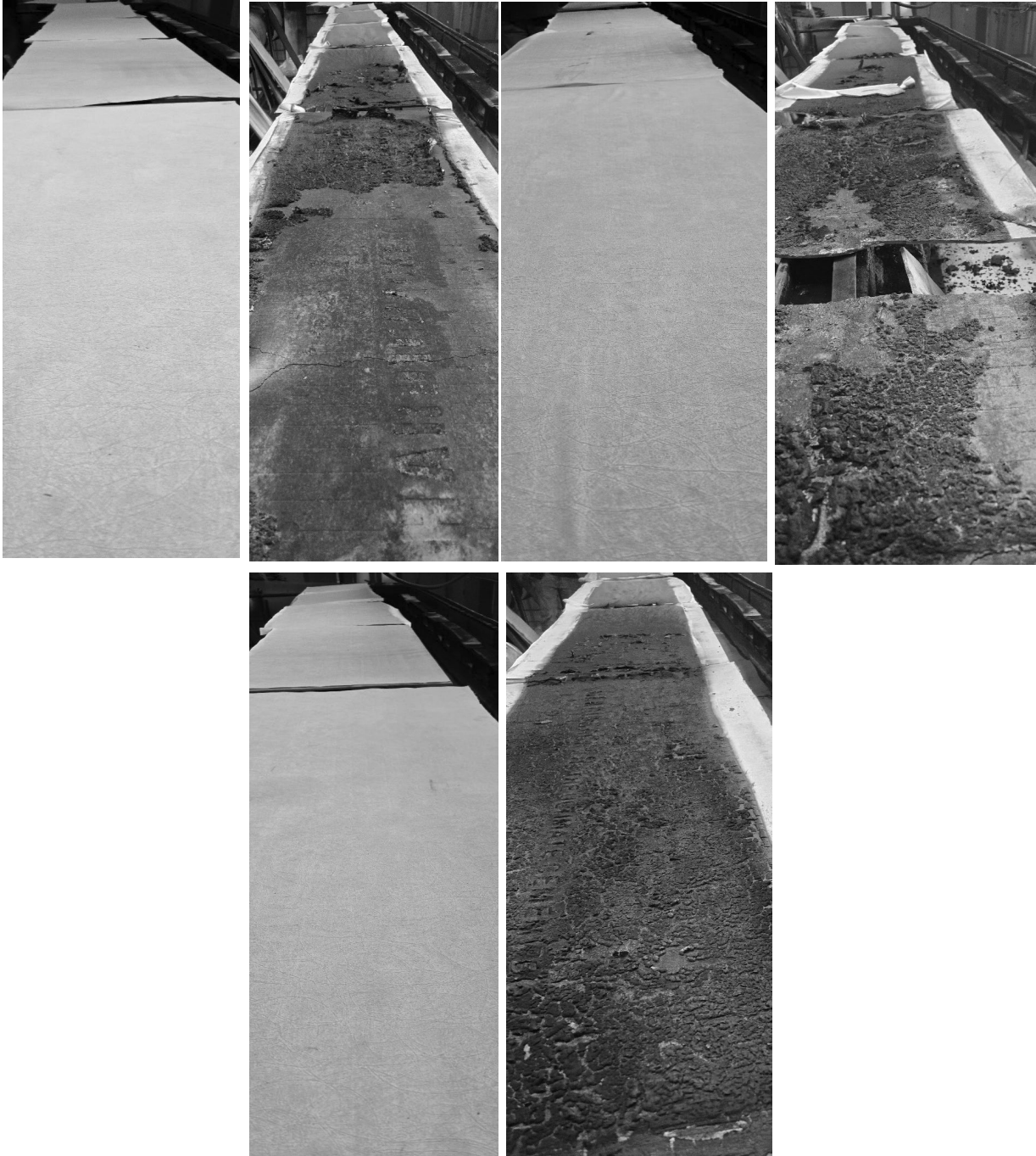


Diagram 2. Test Chamber looking down chamber showing critical dimensions.

APPENDIX



Photo's: Surface of Specimen's Tested

Revisions:

Rev 0 - 9/5/2025 - Initial Release

Rev 1 - 9/12/2025 - Change of report recipient and product name.

<<<END OF TEST REPORT>>>

This report is the confidential property of the client addressed. The report may only be reproduced in full. Publication of extracts from this report is not permitted without written approval from QAI. Any liability attached thereto is limited to the fee charged for the individual project file referenced. The results of this report pertain only to the specific sample(s) evaluated. Unless specifically stated or identified otherwise, QAI has utilized a simple acceptance rule to make conformity decisions on testing results contained in this report, as applicable.