

CLIENT: **LEN-TEX CORPORATION**
 18 Len-Tex Lane
 North Walpole, NH 03609

Test Report Number : RJ6179F-1	Date: April 17, 2018
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SAMPLE ID: The client identified the following test material as:
Type II Vinyl Wallcovering with metalized PET and Non-Woven Backing adhered to cement board with a clay based adhesive

SAMPLING DETAIL: Test Samples were submitted to the Laboratory directly by the client. No sampling or sample preparation were observed by QAI staff.

DATE OF RECEIPT: Samples were received at QAI facilities on: April 3, 2018

TESTING PERIOD: April 11 & 16, 2018.

AUTHORIZATION: Testing was authorized by Chas Lennon for proposal 18FB03271 signed May 28, 2018

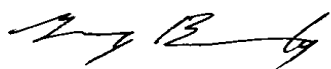
TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with CAN/ULC S102-10 standard test method for "Standard Method of Test for Surface Burning Characteristics of building Materials and Assemblies."

Flame Spread

Smoke Developed

TEST 1 RESULTS:	27	*UNROUNDED	34	*UNROUNDED
TEST 2 RESULTS:	19	*UNROUNDED	16	*UNROUNDED
TEST 3 RESULTS:	18	*UNROUNDED	40	*UNROUNDED
AVERAGE ROUNDED:	20		30	

Prepared By



Gregory Banasky
 Senior Fire Technician

**Signed for and on behalf of
 QAI Laboratories, Inc.**



Brian Ortega
 Senior Analyst / Fire Technology

PREPARATION AND CONDITIONING:

The Sample Material was delivered to QAI in a roll, the material was adhered to cement board with a clay based adhesive. 24" wide by 96" long of these pieces were used for the test. (See Photos in Appendix of this report). The specimen was placed in the conditioning room (maintained at $73.4 \pm 5^\circ$ F and a relative humidity of $50 \pm 5\%$) for a minimum of 72 hours prior to testing.

MOUNTING METHOD:

Samples were stacked end to end on the chamber ledge to fulfill the chamber requirements for testing.

CAN/ULC S102 TEST RESULTS:**CLIENT:** LEN-TEX CORPORATION**TEST DATE:** 4/11/2018**TEST #1 OF 3:****SAMPLE ID:**

Type II Vinyl Wallcovering with metalized PET and Non-Woven Backing
adhered to cement board with a clay based adhesive

SAMPLE IGNITION:

47 seconds

MAX FLAME FRONT:

5.3 Feet

TIME TO MAXIMUM SPREAD:

01:30 Minutes / Seconds

TEST DURATION: 10 minutes, 00 seconds**SUMMARY:**

FLAME SPREAD:

27 Unrounded

SMOKE DEVELOPED:

34 Unrounded

OBSERVATIONS:

Flaking was noted.

PREPARATION AND CONDITIONING:

The Sample Material was delivered to QAI in a roll, the material was adhered to cement board with a clay based adhesive. 24" wide by 96" long of these pieces were used for the test. (See Photos in Appendix of this report). The specimen was placed in the conditioning room (maintained at 73.4 ± 5° F and a relative humidity of 50 ± 5%) for a minimum of 72 hours prior to testing.

CAN/ULC S102 TEST RESULTS:

MOUNTING METHOD:

Samples were stacked end to end on the chamber ledge to fulfill the chamber requirements for testing.

CLIENT: LEN-TEX CORPORATION

TEST DATE: 4/16/2018

TEST #2 OF 3:

SAMPLE ID: Type II Vinyl Wallcovering with metalized PET and Non-Woven Backing adhered to cement board with a clay based adhesive

SAMPLE IGNITION: 51 seconds

MAX FLAME FRONT: 3.8 Feet

TIME TO MAXIMUM SPREAD: 02:00 Minutes / Seconds

TEST DURATION: 10 minutes, 00 seconds

SUMMARY: FLAME SPREAD: 19 *Unrounded*
SMOKE DEVELOPED: 16 *Unrounded*

OBSERVATIONS:

Flaking was noted.

PREPARATION AND CONDITIONING:

The Sample Material was delivered to QAI in a roll, the material was adhered to cement board with a clay based adhesive. 24" wide by 96" long of these pieces were used for the test. (See Photos in Appendix of this report). The specimen was placed in the conditioning room (maintained at $73.4 \pm 5^\circ$ F and a relative humidity of $50 \pm 5\%$) for a minimum of 72 hours prior to testing.

CAN/ULC S102 TEST RESULTS:**MOUNTING METHOD:**

Samples were stacked end to end on the chamber ledge to fulfill the chamber requirements for testing.

CLIENT: LEN-TEX CORPORATION**TEST DATE:** 4/16/2018**TEST #3 OF 3:****SAMPLE ID:** Type II Vinyl Wallcovering with metalized PET and Non-Woven Backing adhered to cement board with a clay based adhesive**SAMPLE IGNITION:** 52 seconds**MAX FLAME FRONT:** 3.9 Feet**TIME TO MAXIMUM SPREAD:** 2 minutes, 32 seconds**TEST DURATION:** 10 minutes, 0 seconds**SUMMARY:** FLAME SPREAD: 18 Unrounded
SMOKE DEVELOPED: 40 Unrounded**OBSERVATIONS:**

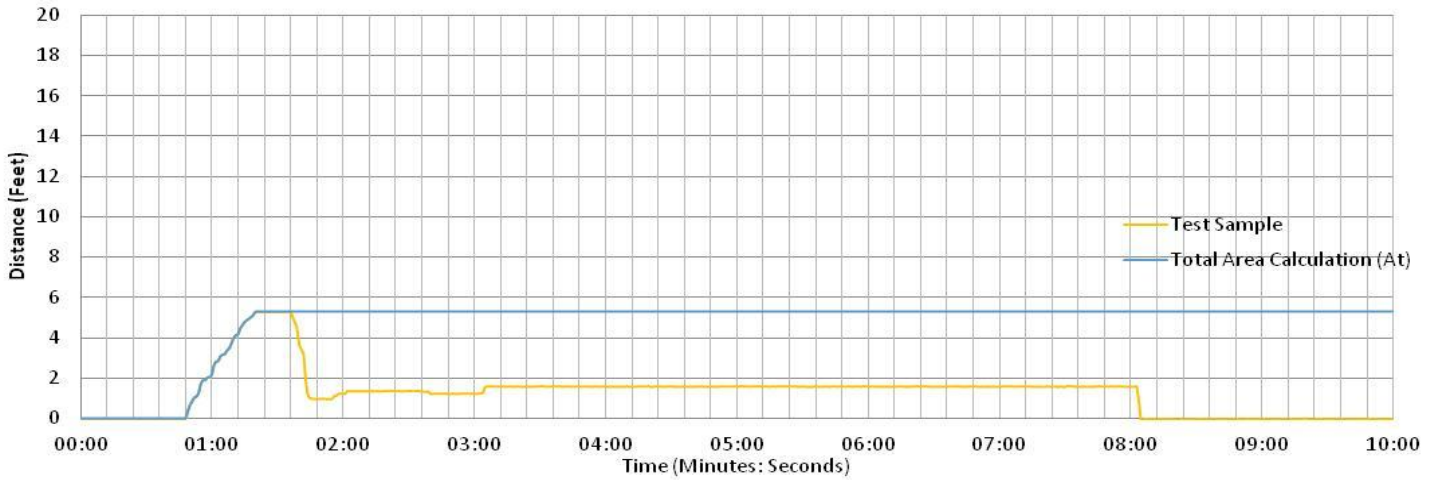
Flaking was noted.

CALIBRATION DATA:

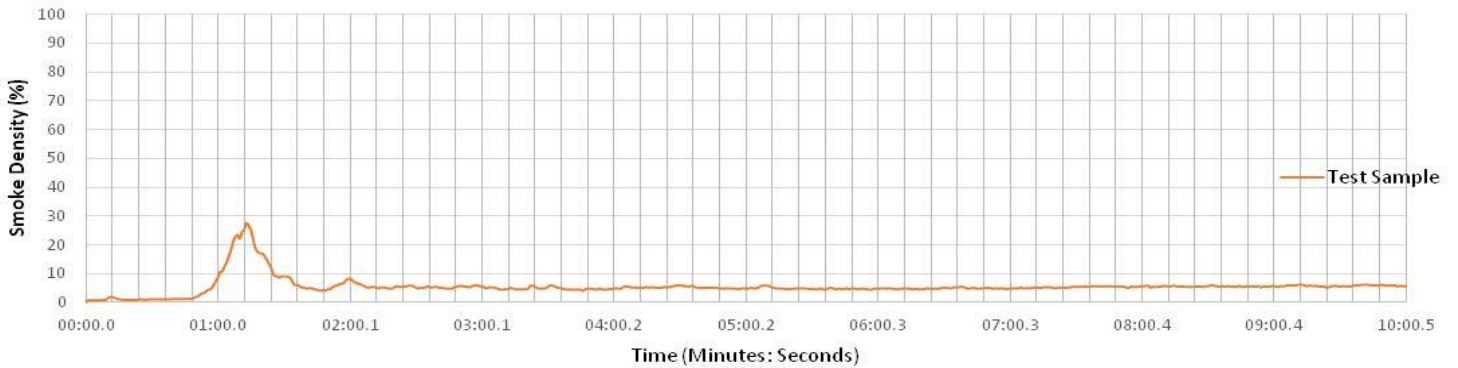
Time to Ignition of Last Red Oak (sec):	115
Red Oak Smoke Area (%A*Min):	152
Total Fuel Burned (ft ³)	55.0

TEST #1 OF 3 GRAPHS:

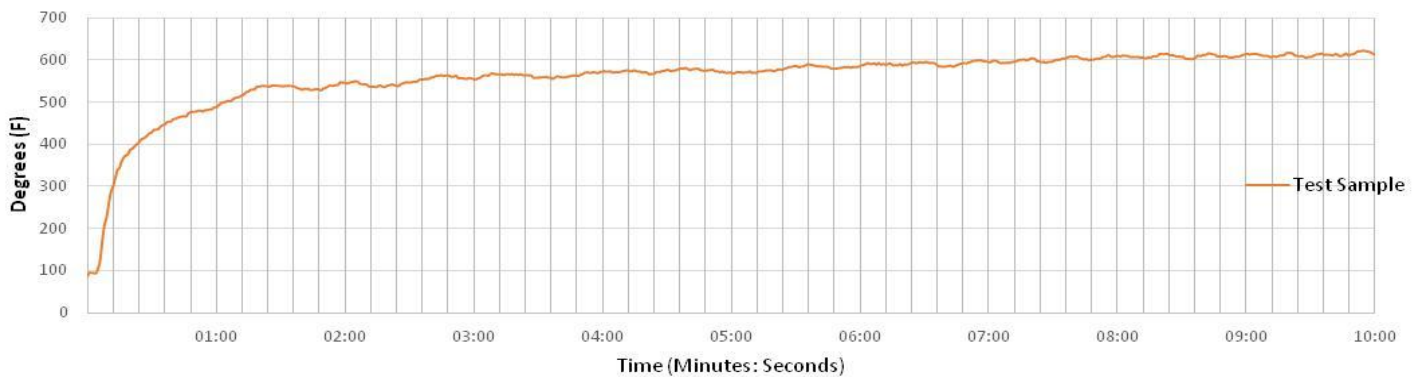
Flame Spread



Smoke Readings

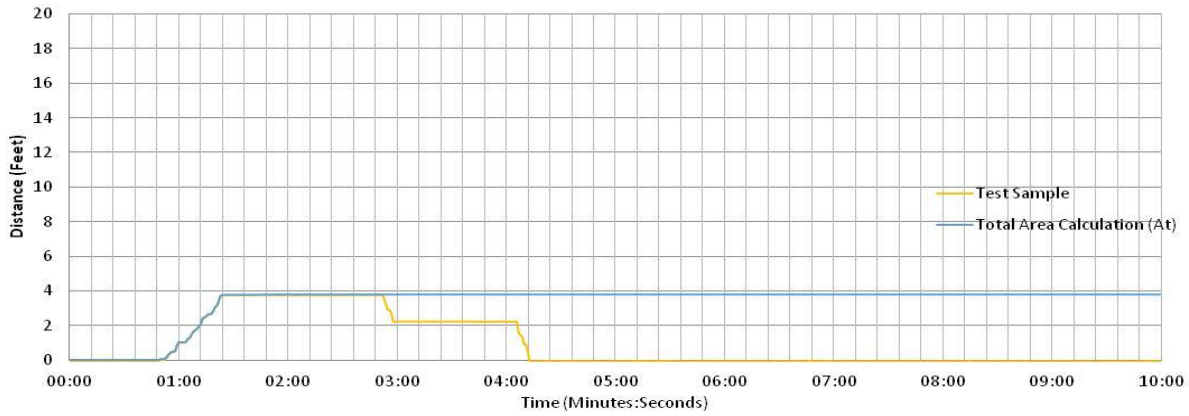


Temperature

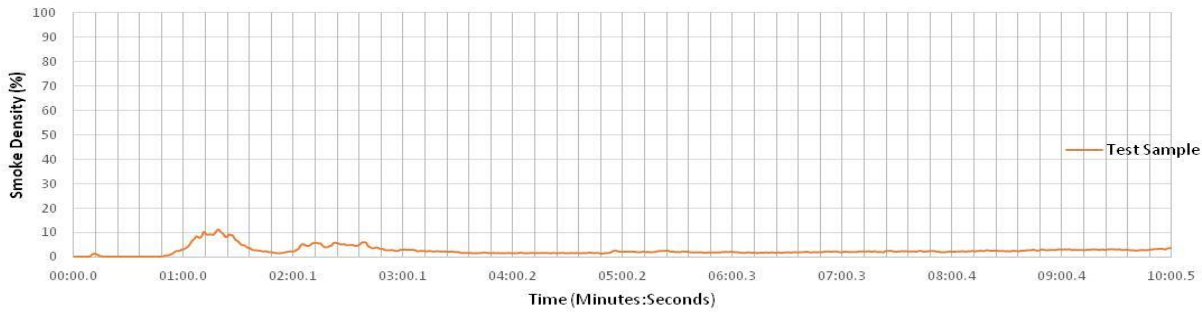


TEST #2 OF 3 GRAPHS:

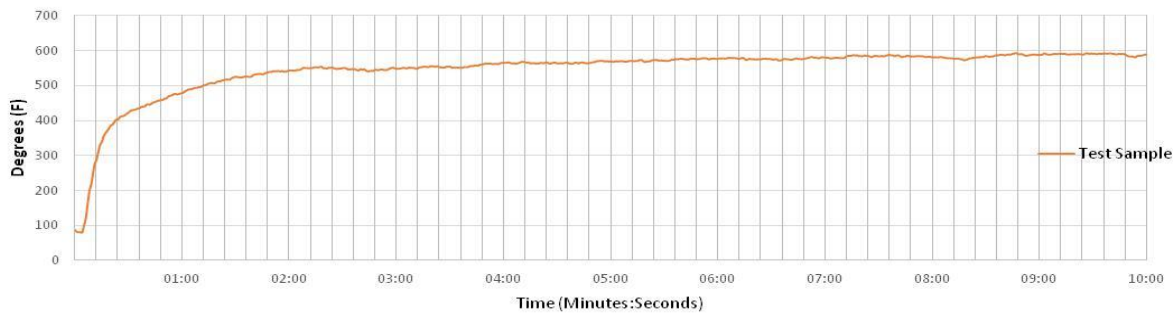
Flame Spread



Smoke Readings

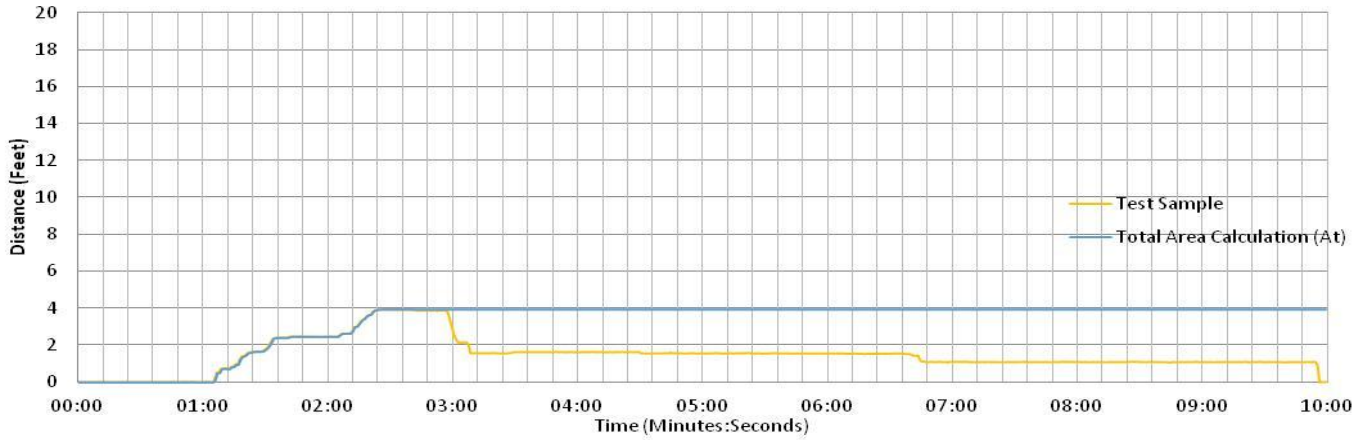


Temperature

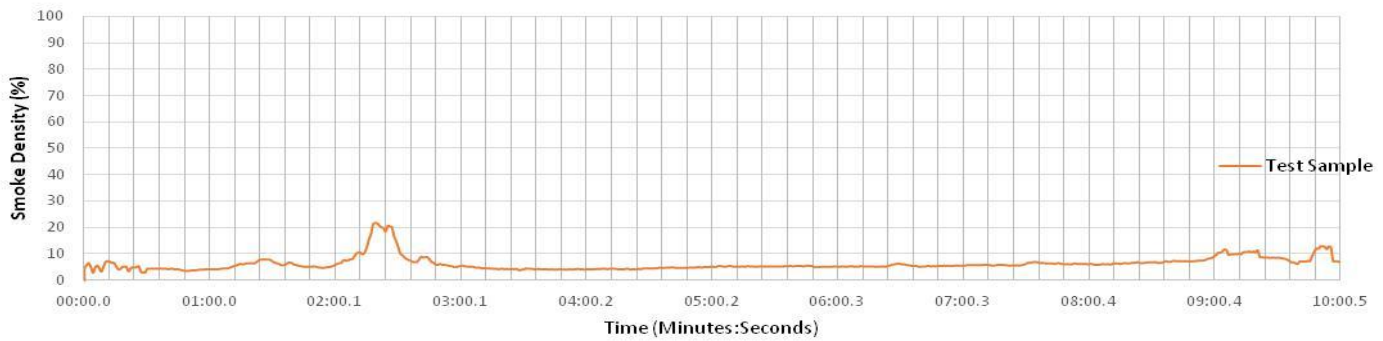


TEST #3 OF 3 GRAPHS:

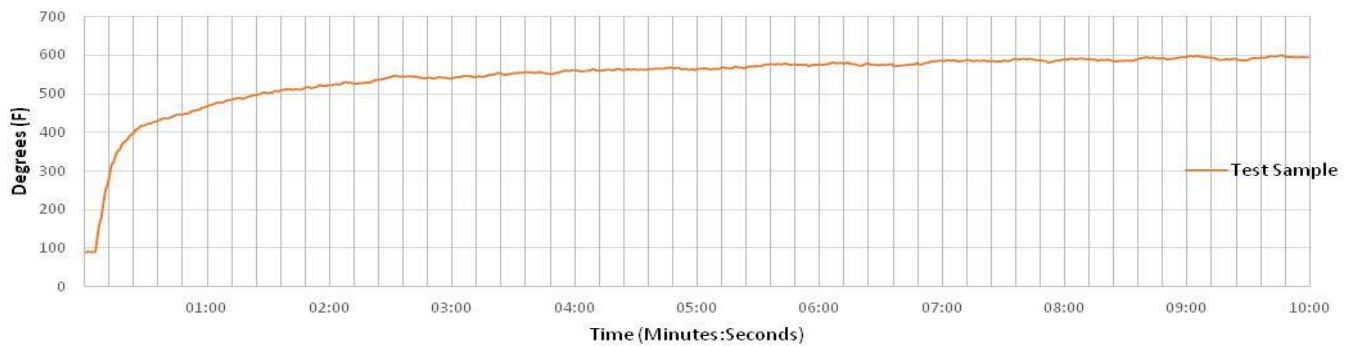
Flame Spread



Smoke Readings



Temperature



APPENDIX

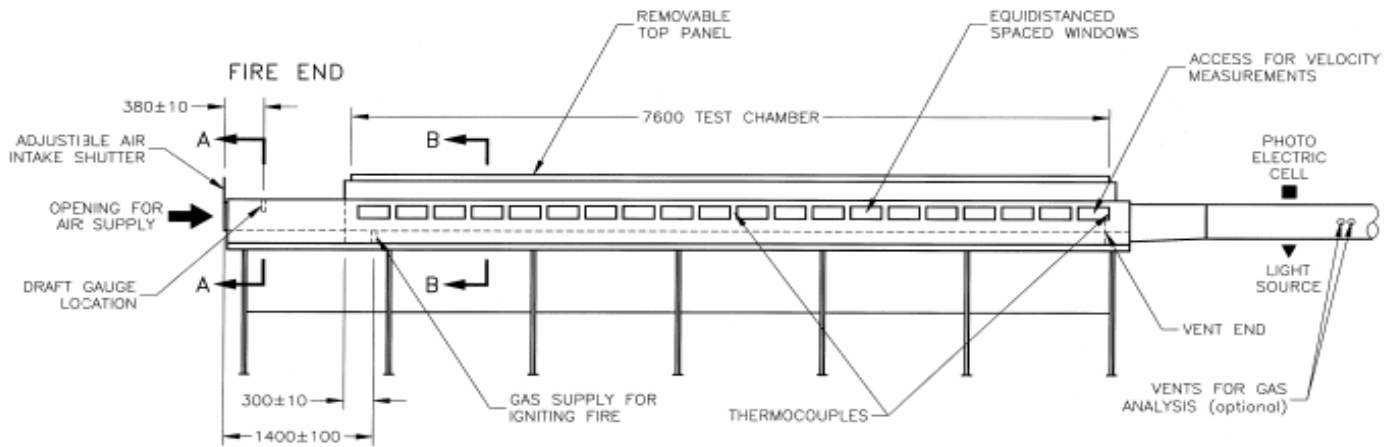


Diagram 1. Test Chamber side view showing critical dimensions.

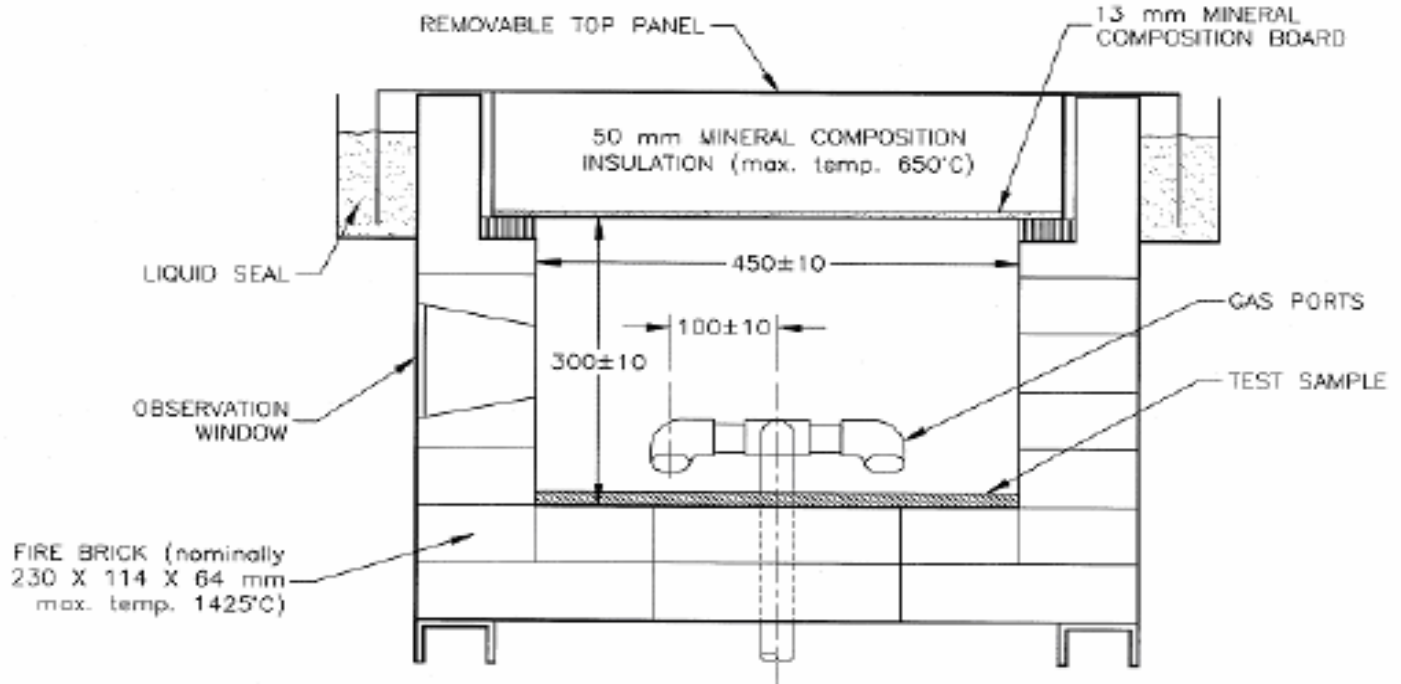


Diagram 2. Test Chamber looking down chamber showing critical dimensions.



Photo 1. Test Specimen Surface

*****<<<END OF TEST REPORT>>>*****