

CLIENT:

Colton Meahl

Cellular Concrete Technologies LLC

5103 Lena #104 Bradenton, FL 34211

Project No: MED-2317a		Report Date: March 21, 2025				
SAMPLE ID:	The Following test material was identified as: Stable air cellular concrete					
SAMPLING DETAIL:	Test Samples were submitted directly to QAI by the client. Samples were not independently selected for testing.					
DATE OF RECEIPT:	Samples were received at the QAI Miami Laboratories on February 24, 2025, and in good condition.					
TESTING PERIOD:	March 20, 2025, to March 21, 2025					
TESTING LOCATION:	QAI Laboratories – Miami, Florida, USA					
AUTHORIZATION:	QAI proposal number 25RT02192 dated February 19, 2025, signed by Paul Falco the CEO of Cellular Concrete Technologies LLC, dated February 21, 2025.					
TEST PROCEDURE:	Testing to the following requirements:					
	 E136-24 Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750 °C¹ 					
TEST RESULTS:	The tested Stable air cellular concrete material was considered to be non- combustible when tested in accordance with ASTM E136.					
CONTENTS:	Test report pages 1 through	6.				
Prepared By		Signed for and on behalf of QAI Laboratories				

Jose Sanchez Operation Manager



CONDITIONING: Test samples were submitted in pieces, 1 1/2" by 1 1/2" by 2". The test specimens were dried at 60 ± 3 °C (140 ± 5 °F) for not less than 24 hr. but no more than 48 hr and then placed in a desiccator to cool at least 1 hr. before testing.

PROCEDURE: A *Vertical Hot-Air Ignition Furnace*, QAI Asset Number MED097 similar to that shown below in Fig. 1, consisting of an electrical heating unit and a specimen holder, was set at a temperature of 1382 \pm 10°F (750 \pm 5.5°C). Thermocouples were attached to the surface and geometric center of the specimen. The specimen is lowered into the furnace. Observations are made to the time of flaming of the specimen. The temperatures of the thermocouples are recorded. The test is continued until the temperature at the thermocouples has reached maximum, or until it is evident that the specimen does not pass this test.

Test Results									
Specimen #	Furnace Temperature <u>°</u> C	Surface Temperature <u>°</u> C	Interior Temperature <i>ºC</i>	Initial Weight (g)	Final Weight (g)	Weight Loss %	Duration of test (hr:min)		
1.	750	761	551	36.2	30.5	15.7%	35:00		
2.	750	636	473	32.0	26.6	16.8 %	35:00		
3.	750	738	629	35.3	30.5	13.6%	35:00		
4.	750	732	584	33.3	28.4	14.7%	35:00		

REQUIREMENT: Record the material passing the test if at least three of the four specimens tested meet the individual test specimen criteria.

When the weight loss of the test specimen is 50% or less, the material passes the test if, the recorded temperatures of the surface and interior thermocouples do not at anytime during the test rise more than 30°C

(54°F) above the stabilized furnace temperature and there is no flaming of the specimen after the first 30 seconds. If the weight loss of the specimen exceeds 50%, the material passes the test if, the recorded temperatures of the surface and interior thermocouples do not at anytime during the test rise above the stabilized furnace temperature and no flaming of the specimen is observed at any time during the test.



Graphs



Graph #1: Shows the surface temperature vs the interior temperature of specimen #1 with respect to time.



Graph #2: Stable air cellular concrete #2

Graph #2: Shows the surface temperature vs the interior temperature of specimen #2 with respect to time.



Graphs



Graph #3: Shows the surface temperature vs the interior temperature of specimen #3 with respect to time.



Graph #4: Stable air cellular concrete #4

Graph #4: Shows the surface temperature vs the interior temperature of specimen #4 with respect to time



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Photographs



Photo #1: Shows the four samples of Stable air cellular concrete used during testing.

Technician:

Stanley Beauvor



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*******END REPORT*******