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EVALUATION CENTER

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RENDERED TO

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PRODUCT EVALUATED: 6063 T5 Aluminum Siding
EVALUATION PROPERTY: ASTM E136-16

**Report of Testing 6063 T5 Aluminum Siding for compliance with the
applicable requirements of the following criteria: ASTM E136-16 Standard
Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C**

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2 Introduction

Intertek has conducted testing for Mayne Coatings Corp on 6063 T5 Aluminum Siding. Testing was conducted in accordance with ASTM E136-16 Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C. This evaluation began May 25, 2016 and was completed May 25, 2016.

3 Test Samples

3.1. SAMPLE SELECTION

The samples were submitted by the client directly to Intertek. The specimens were received at the Evaluation Center on May 19, 2016 in good condition.

3.2. SAMPLE AND ASSEMBLY DESCRIPTION

Sample Names: 6063 T5 Aluminum Siding

Sample Description: Approximately 38 x 38 x 1.8mm squares were provided by the client. Approximately 27 squares were stacked to reach 51mm high.

Sample Conditioning:

The samples were dried at 60°C +/- 3°C (140+/- 5°F) for not less than 24 hours but not more than 48 hours. The samples were placed in a desiccator to cool for at least one hour.

This Test Witnessed by: None

4 Testing and Evaluation Methods

4.1 TEST STANDARD

The method (option A) used a furnace which consisted of two concentric vertical refractory ceramic tubes containing an electric coil to expose building materials to a temperature of 750°C (1382 °F) until a failure occurred or at least 30 minutes. Thermocouples were used to assess the temperature increase resulting from combustion of the building material. The thermocouples that monitored the specimen were located in the center of the specimen and in contact with the surface of the specimen; in the sample horizontal plane as the center thermocouple. Visual observations were used to assess the occurrence of flaming through a glass cover with a 1 1/8 inch circular opening. The specimen was suspended in the geometric center of the furnace in accordance with the standard.

The test room and furnace setup was in compliance with the testing standard. The weight of each specimen in grams was recorded before and after testing. The testing continued until the specimen thermocouples reach the maxima, or until it was evident that the specimen does not pass the test. Throughout the test, visual observations were recorded noting quality, quantity, or intensity and duration of flames, smoke, or both and changes of state.

4.2 TEST CRITERIA

At least three of the four specimens tested must meet the individual test specimen criteria detailed in this section below to pass the test. The three test specimens that pass do not need to meet the same individual specimen criteria.

If the weight loss of the test specimen was 50% or less the following criteria must be met:

- The recorded temperature of the surface or interior thermocouples did not at any time rise more than 30°C (54°F) above the stabilized furnace temperature measured prior to the test.
- There can be no flaming from the test specimen after the first 30 seconds.

If the weight loss of the test specimen exceeded 50% the following criteria must be met:

- The recorded temperature of the surface and interior thermocouple did not at any time during the test rise above the stabilized furnace temperature measure prior the test.
- No flaming from the test specimen was observed at any time during the test.

4.3 DEVIATIONS FROM THE STANDARD METHOD

No deviations from the standard

4.4 RESULTS AND OBSERVATIONS

Test Environment: 74.3°F, 48% R.H.

Equipment Used: Scale # 1084, Furnace # 1230, Stopwatch #1428, Oven #1200

Specimen #	Observations (quality, quantity, or intensity and duration of flaming and/or smoking, and change in state):
1	Sample did not smoke or flame. Sample was glow ing red w hen removed from the furnace and dripping aluminum.
2	Sample did not smoke or flame. Sample w as glow ing red w hen removed from the furnace and dripping aluminum.
3	Sample did not smoke or flame. Sample was glow ing red w hen removed from the furnace and dripping aluminum.
4	Sample did not smoke or flame. Sample was glow ing red w hen removed from the furnace and dripping aluminum.

Calibrated Furnace Temperature at T²=751.4 C

				Initial Furnace Temp.	Max. Surface (T4)	Max Surface Difference	Max. Interior Temp.(T3)	Max Interior Difference
Specimen Number	Initial Wt. (g)	Final Wt. (g)	Wt. Loss (%)	(°C)	(°C)		(°C)	
1	159.43	148.63	7%	751.4	648.5	-102.9	639.9	-111.51
2	166.45	149.03	10%	751.4	659.0	-92.4	645.6	-105.88
3	160.74	147.18	8%	751.4	671.8	-79.6	641.6	-109.82
4	166.39	165.41	1%	751.4	654.7	-96.7	629.7	-121.77
Average	163.3	152.6	7%	751.4	658.5	-92.9	639.2	-112.24

5 Conclusion

Intertek has conducted testing for Mayne Coatings Corp on 6063 T5 Aluminum Siding was conducted in accordance with ASTM E136-16 Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C.

The specimens did not lose more than 50% of their mass. The recorded temperatures of the surface or interior thermocouples did not rise more than 30°C (54°F) above the stabilized furnace temperature measured prior to the test on three of the four samples, and no flaming from the test specimens occurred after the first 30 seconds.

6063 T5 Aluminum Siding passed the test requirements of ASTM E136.

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

INTERTEK



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6 Revision Summary

DATE	SUMMARY
May 25, 2016	Original date of report
January 17, 2018	Sample name changed from Aluminum Siding to 6063 T5 Aluminum Siding throughout report