

FAST PLANK INC. TEST REPORT

SCOPE OF WORK ASTM D6578 GRAFFITI RESISTANCE EVALUATION OF ALUMINUM SIDING PANELS

REPORT NUMBER Q0000.01-106-31 R0

TEST DATES 07/10/23 - 07/14/23

ISSUE DATE 07/27/23

RECORD RETENTION END DATE 07/14/27

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TEST REPORT FOR FAST PLANK INC.

Report No.: Q0000.01-106-31 R0 Date: 07/27/23

REPORT ISSUED TO

FAST PLANK INC. 4441 76 Ave SE Suite 101 Calgary, Alberta T2C2G8

SECTION 1

SCOPE

Product: Aluminum Siding Panels

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Fast Plank Inc. to evaluate Aluminum Siding Panels in accordance with ASTM D6578 for Graffiti Resistance. 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 York, Pennsylvania.

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.

For INTERTEK B&C:			
COMPLETED BY:	Cag S. Saylor	REVIEWED BY:	Joseph M. Brickner
TITLE:	Technician II	TITLE:	Laboratory Supervisor
	Materials Laboratory		Materials Laboratory
SIGNATURE:		SIGNATURE:	
DATE:	07/27/23	DATE:	07/27/23
CSS:jmb/kae			

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SECTION 2

TEST METHODS

The specimens were evaluated in accordance with the following:

ASTM D6578-13 (reapproved 2018), Standard Practice for Determination of Graffiti Resistance

ASTM D523-14 (reapproved 2018), Standard Test Method for Specular Gloss

ASTM E1349-06 (reapproved 2022), Standard Test Method for Reflectance Factor and Color by Spectrophotometry Using Bidirectional (45°:0° or 0°:45°) Geometry

SECTION 3

MATERIAL SOURCE

The materials were provided by Fast Plank Inc. The following were received in good condition on 5/12/23:

• Ten (10), Aluminum Siding Panels measuring 12" x 7"

Refer to the product description photos in Section 9. The materials were tested as received, except for preparing test specimens from the original materials. Representative materials/test specimens will be retained by Intertek B&C for a minimum of four years from the test completion date.

SECTION 4

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Cag S. Saylor	Intertek B&C
Joseph M. Brickner	Intertek B&C



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SECTION 5

TEST PROCEDURE

All conditioning of test specimens and test conditions were at standard laboratory conditions, unless otherwise reported. Refer to the test related photos in Section 9. Calibration certificates are available upon request.

ASTM D6578 - Graffiti Resistance

Panels were subjected to six different types of staining agents including:

- Solvent-Based Permanent Ink Marker, blue
- Solvent-Based Acrylic Spray Paint, red
- Solvent-Based Alkyd Spray Paint, red
- Wax Crayon, blue
- Ballpoint Ink, blue
- Water-based Ink Marker, black

The staining agents were applied to 1" x 1" areas and allowed to dry for 24 hours after application. Initial 60° gloss (gloss meter ICN:005609) and color readings (color IC machine ICN: INT03263) were taken according to methods ASTM D523 and ASTM E1347 respectively. After the 24 cure period staining agents were cleaned in the following progression:

- Dry cloth
- Wet cloth
- Mild detergent
- Isopropyl alcohol
- Mineral spirits
- Xylene
- Methyl ethyl ketone (MEK)

Once the areas were cleaned, they were again checked for gloss and color until they were with a 0.9 ratio for gloss and a Delta E value less than 2.

SECTION 6

TEST SPECIMEN DESCRIPTIONS

TEST PROCEDURE	NUMBER OF SPECIMENS	NOMINAL SPECIMEN DIMENSIONS
ASTM D6578 - Graffiti Resistance	3	12" x 7"



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SECTION 7

TEST RESULTS

ASTM D6578 - Graffiti Resistance

Specimen 1

GRAFFITI MARKER	RATING	INITIAL	FINAL	GLOSS	DELTA E
		GLOSS	GLOSS	RETENTION	COLOR
				RATIO	READING
Permanent Ink Marker, blue	8	16.0	17.4	0.92	0.11
Acrylic Spray Paint, red	8	16.7	17.8	0.94	0.01
Alkyd Spray Paint, red	8	16.7	17.9	0.93	0.72
Wax Crayon, blue	8	16.6	17.9	0.93	0.64
Ballpoint Ink, blue	8	16.2	17.7	0.92	1.72
Water-based Ink Marker, black	10	16.5	17.6	0.94	0.72
Requirement				≥ 0.90	< 2
				Meets	Meets

Specimen 2

GRAFFITI MARKER	RATING	INITIAL	FINAL	GLOSS	DELTA E
		GLOSS	GLOSS	RETENTION	COLOR
				RATIO	READING
Permanent Ink Marker, blue	8	17.0	18.4	0.92	0.69
Acrylic Spray Paint, red	8	17.5	18.8	0.93	0.65
Alkyd Spray Paint, red	8	17.7	18.7	0.95	0.84
Wax Crayon, blue	8	17.4	17.9	0.97	0.85
Ballpoint Ink, blue	8	17.1	18.1	0.94	0.28
Water-based Ink Marker, black	10	17.1	16.1	1.06	1.76
Requirement				≥ 0.90	< 2
				Meets	Meets



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Report No.: Q0000.01-106-31 R0 Date: 07/27/23

Specimen 3

GRAFFITI MARKER	RATING	INITIAL	FINAL	GLOSS	DELTA E
		GLOSS	GLOSS	RETENTION	COLOR
				RATIO	READING
Permanent Ink Marker, blue	8	16.8	17.5	0.96	0.87
Acrylic Spray Paint, red	8	16.7	18.2	0.92	0.72
Alkyd Spray Paint, red	8	16.3	17.9	0.91	0.86
Wax Crayon, blue	8	15.9	17.9	0.89	1.02
Ballpoint Ink, blue	8	16.1	17.9	0.90	0.44
Water-based Ink Marker, black	10	16.0	17.2	0.93	1.05
Requirement				≥ 0.90	< 2
				Meets	Meets

RATING SCALE	CLEANING METHOD	
10	Cleanable with a dry rag	
9	Cleanable with detergent	
8	Cleanable with isopropyl alcohol	
7	Cleanable with mineral spirits	
6	Cleanable with Xylene	
5	Cleanable with MEK	
4	Not cleanable, gloss loss	
3	Not cleanable, slight shadow	
2	Not cleanable, heavy shadow	
1	Not cleanable, shadow and gloss loss	

SECTION 8

CONCLUSION

The Aluminum Siding Panels met the specified performance requirements listed in ASTM D6578 for the testing performed in this report.



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SECTION 9

PHOTOGRAPHS



Photo No. 1 Material as Received



Photo No. 2 Panel with Areas Masked Off



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Photo No. 3 Panel with Graffiti



Photo No. 4 Panel with Graffiti



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Photo No. 5 Panel Post Cleaning



Photo No. 6 Panel in Color IC Machine



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Photo No. 7 Panel in Color IC Machine



Photo No. 8 Panel in Color IC Machine



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SECTION 10

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	07/27/23	N/A	Original Report Issue