

# ELEVATE ARCHITECTURAL PRODUCTS, INC. TEST REPORT

**SCOPE OF WORK**

ICC-ES AC92 EVALUATION OF HPL WALL CLADDING

**REPORT NUMBER**

R6830.01-106-31 R0

**TEST DATES**

11/03/20 - 02/16/21

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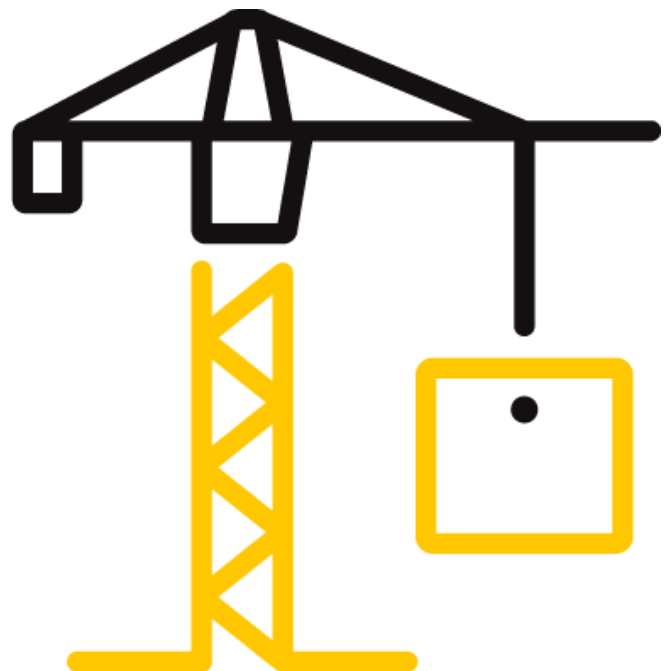
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## TEST REPORT FOR ELEVATE ARCHITECTURAL PRODUCTS, INC.

Report No.: R6830.01-106-31 R0

Date: 09/11/24

### REPORT ISSUED TO

#### ELEVATE ARCHITECTURAL PRODUCTS, INC.

4274 Shackelford Rd Suite A

Norcross, Georgia 30093

### SECTION 1

#### SCOPE

**Products:** HPL Wall Cladding

Intertek Building & Construction (B&C) was contracted by Seohan Antamine Co. Ltd to evaluate HPL Wall Cladding in accordance with ICC-ES AC92. 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.

For INTERTEK B&C:

<b>COMPLETED BY:</b>	J. Rich Hammons
<b>TITLE:</b>	Technician III Materials Laboratory
<b>SIGNATURE:</b>	
<b>DATE:</b>	09/11/24

JRH:jmb/als/kf

<b>REVIEWED BY:</b>	Joseph M. Brickner
<b>TITLE:</b>	Laboratory Supervisor Materials Laboratory
<b>SIGNATURE:</b>	
<b>DATE:</b>	09/11/24

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**SECTION 2**

**SUMMARY OF TEST RESULTS**

ICC-ES AC92 SECTION	PROPERTY	PERFORMANCE REQUIREMENT	RESULTS	PASS/FAIL
3.2.1./4.1.1.	Accelerated Weathering	no cracking, checking, crazing, erosion, or other performance effecting characteristics	Meets As Stated	<b>PASS</b>
3.2.2./4.2.1.	Freeze Thaw	no cracking, checking, crazing, erosion, or other performance effecting characteristics when viewed under a minimum 5x magnification	Meets As Stated	<b>PASS</b>
3.2.3./4.3.1.	Bond Strength	≥10 (psi)	Control: >199 psi	<b>PASS</b>
			Freeze Thaw: >265 psi	<b>PASS</b>
			UV Exposure: >309 psi	<b>PASS</b>
3.2.4./4.4.1.	Flexural Strength	Average strength of freeze thaw and wet specimens shall be ≥60% of the control-dry specimens	Control FIT: 500 psi	<b>PASS</b>
			Control FIC: 499 psi	<b>PASS</b>
			Wet FIT: 593 psi (18.6%)	<b>PASS</b>
			Wet FIC: 602 psi (20.6%)	<b>PASS</b>
			Freeze Thaw FIT: 511 psi (2.2%)	<b>PASS</b>
			Freeze Thaw FIC: 498 psi (0.2%)	<b>PASS</b>
3.2.5./4.5	Salt Spray Resistance	No cracking, checking, crazing, erosion, or other performance effecting characteristics	Meets As Stated	<b>PASS</b>
3.2.6./4.6	Water Resistance		Meets As Stated	<b>PASS</b>
3.2.7./4.7.1.2.	Fastener Pull-Through Resistance	Safety Factor of "3" if all requirements are satisfied: (1) If no test varies more than 15% from the average of three test (2) Allowable load does not exceed established values for the selected mechanical fasteners	Fastener Pull-Through Resistance: 1,320 lb <sub>f</sub>	<b>PASS</b>
			Safety Factor "3": 440 lb <sub>f</sub>	<b>PASS</b>
3.6	Self-Ignition Temperature	≥343°C	490°C	<b>PASS</b>

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### SECTION 3

#### TEST METHODS

The specimens were evaluated in accordance with the following:

**ICC-ES AC92-2013(Revised 2016)**, *Acceptance Criteria for Polymer-Based and Polymer-Modified Exterior and Interior Wall Cladding*, Approved December 2013, Editorially Revised March 2016

**ASTM B117-19**, *Standard Practice for Operating Salt (Fog) Apparatus*

**ASTM C297/C297M-16**, *Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions*

**ASTM D1037-12**, *Standard Test Method for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials*

**ASTM D1929-20**, *Standard Test Method for Determining Ignition Temperature of Plastics*

**ASTM D2247-15(Reapproved 2020)**, *Standard Practice for Testing Water Resistance of Coatings in 100% Relative Humidity*

### SECTION 4

#### MATERIAL SOURCE

The materials were provided by Seohan Antamine Co. Ltd. A skid of material was received on 10/21/2020 in acceptable condition. Refer to the test specimen descriptions in Section 7 and product description photos in Section 10. The material was tested as received with the exception of preparing the smaller test specimens from the materials. Representative materials/test specimens will be retained by Intertek B&C for a minimum of four years from the test completion date.

### SECTION 5

#### LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
J. Rich Hammons	Intertek B&C
Joseph M. Brickner	Intertek B&C

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### SECTION 6

#### TEST PROCEDURES

All conditioning of test specimens and test conditions were at standard laboratory conditions unless otherwise reported. Refer to the test related photos in Section 10. Calibration certificates available upon request.

#### ICC-ES AC92 - Accelerated Weathering, Sections 3.2.1 and 4.1.1

Accelerated weathering was performed in an Atlas Ci5000 Weatherometer (ICN: 63081) operating at an irradiance level of 0.35 W/m<sup>2</sup> at 340 nm wavelength for an exposure period of 2,005-hours. The conditioning chamber was controlled at 42°C, and the black panel thermometer was set to 63°C. Relative humidity was maintained at 50%. Borosilicate "S" type inner and outer filters were used to simulate normal daylight outdoor sun conditions.

Specimens were evaluated for cracking, checking, crazing, erosion, or other performance effecting characteristics, and bond strength comparisons. Pre and post exposure photographs are provided in Section 10.

#### ICC-ES AC92 - Freeze-Thaw Cycling, Sections 3.2.2 and 4.2.1

Specimens were subjected to 10 freeze-thaw cycles. Each cycle consisted of air drying in an oven at 49°C for a minimum of 8 hours, followed by total immersion in water at 21°C for a minimum of 8 hours, and then exposure in a freezer at -29°C for a minimum of 16 hours. At the conclusion of testing test specimens were evaluated for visual changes in appearance only and tested against the controls for flexural strength and bond strength comparison.

#### ICC-ES AC92 - Bond Strength, Sections 3.2.3 and 4.3.1, ASTM C297

Each specimen was adhered to 'T-block' fixtures using epoxy. Specimens were mounted into an Instron UTM (ICN: 005740) equipped with a 10 kN load cell (ICN: 005740) and loaded at a crosshead movement rate of 0.02 in/min.

#### ICC-ES AC92 - Flexural Strength, Sections 3.2.4 and 4.4.1, ASTM D1037

Flexural testing was performed on an Instron UTM (ICN: 005740) equipped with a 10 kN load cell (ICN: 005740) and operating at a crosshead rate of 0.26 in/min with a deflectometer (ICN: 005965). Specimens were supported in a three-point loading configuration with a 1-inch diameter rod, a 10-inch support span, and two 1-inch diameter rods were used to support each specimen until a maximum strain in the outer fibers of 0.005 in/in was achieved. Both surface faces were identical for loading orientation.

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**ICC-ES AC92 - Salt Spray Resistance, Sections 3.2.5 and 4.5, ASTM B117**

Test specimens were subjected to a 300-hour exposure in an QFOG salt fog cabinet (ICN: Y006716) utilizing a 5% (by weight) solution of reagent grade Sodium Chloride and laboratory grade water. The cabinet operated with a continuous fog at  $35 \pm 3^{\circ}\text{C}$  and an atomized solution pH between 6.5-7.2. Specimens were supported at an angle between  $15^{\circ}$  and  $30^{\circ}$  from vertical. Specimens were removed at test completion for observations and to be photographed.

**ICC-ES AC92 - Water Resistance, Sections 3.2.6 and 4.6, ASTM D2247**

The water resistance was determined utilizing a Humidity Chamber (ICN: 005987) with 100% relative humidity at  $100^{\circ}\text{F}$  maintained with a control box (ICN: 005160). Three specimens were exposed to these conditions for 14 days.

**ICC-ES AC92 - Flexural Strength, Post Freeze-Thaw Cycling, Sections 3.2.7 and 4.7.1.2, ASTM D1037**

Specimens were preconditioned per section 4.2.1 of AC92 as stated in the freeze thaw cycling procedure above prior to flexural testing. Flexural testing was performed on an Instron UTM (ICN: 005740) equipped with a 10 kN load cell (ICN: 005740) and operating at a crosshead rate of 0.26 in/min and deflectometer (ICN: 005965). Specimens were supported in a three-point loading configuration with a 1-inch diameter rod, a 10-inch support span, and two 1-inch diameter rods were used to support each specimen until a maximum strain in the outer fibers of 0.005 in/in was achieved. Both surface faces were identical for loading orientation.

**ICC-ES AC92 - Fastener Pull-Through Resistance, Sections 3.2.7 and 4.7.1.2, ASTM D1037**

The withdrawal resistance of the #8 1" steel Phillips self-drilling screw in the HPL Wall cladding was determined utilizing a SATEC UTM (ICN: Y002011) using a 5k lb load cell (ICN: 516509A) operating at a crosshead speed of 0.06 in/min. Fasteners were employed through the exterior face, flush with the surface of the HPL wall cladding. Specimen was held in a fixed position by a steel plate with a 2.5-inch diameter hole around the fastener. The fastener was gripped from the base of the threads by a fixture that applied a tensile force. The testing was conducted immediately after fastener embedment.

**ICC-ES AC92 - Surface Burning Characteristics, Sections 3.6, ASTM D1929**

The self- and flash ignition temperatures of the material were determined utilizing a Setckin Ignition Furnace Model CSI-88 system (ICN: 62156) connected to a data acquisition unit (ICN: 004682) in a fire hood (ICN: 005985). The specimen mass was measured utilizing a Mettler Toledo Balance Model XP1203S (ICN: 65216).

***Caveat:*** These test results relate only to the behavior of test specimens under the particular conditions of the test. They are not intended to be used, and shall not be used, to assess the potential fire hazards of a material in use.

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**SECTION 7**

**TEST SPECIMEN DESCRIPTIONS**

ICC-ES AC92 SECTION	NUMBER OF SPECIMENS	NOMINAL SPECIMEN DIMENSIONS	VISUAL CHARACTERISTICS
3.2.1/4.1.1. Accelerated Weathering	5	3" x 9" x 5/16"	HPL Wall Cladding
3.2.2/2.1 Freeze-Thaw Cycling	10	6" x 12" x 5/16"	
3.2.3/4.3.1. Bond Strength	5 each condition	6" x 6" x 5/16"	
3.2.4/4.4.1. Flexural Strength	5 each condition	3" x 3" x 5/16"	
3.2.5/4.5 Salt Spray Resistance	3	6" x 12" x 5/16"	
3.2.6/4.6 Water Resistance	3	4" x 5" 5/16"	
3.2.7/4.7.1.2 Fastener Pull-Through Resistance	10	4" x 6" 5/16"	
ASTM D1929	10	20 x 20 x 6 mm	

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### SECTION 8

#### TEST RESULTS

##### ICC-ES AC92 - Accelerated Weathering, Sections 3.2.1 and 4.1.1, ASTM G155

HOUR OF EXPOSURE	VISUAL EVALUATION	PASS/FAIL
2,005	Color Shift Observed, Lightened	Pass

##### ICC-ES AC92 - Freeze-Thaw Cycling, Sections 3.2.2 and 4.2.1

FREEZE THAW CYCLES	VISUAL EVALUATION	PASS/FAIL
10	No change in appearance	Pass

##### ICC-ES AC92 - Bond Strength - Controls, Sections 3.2.3 and 4.3.1, ASTM C297

SPECIMEN	AREA (in <sup>2</sup> )	PEAK LOAD (lbf)	TENSILE STRENGTH (psi)	EXTENSION AT MAXIMUM LOAD (in)	FAILURE MODE
1	9.033	1,420	158	0.199	Adhesive Failure
2	9.048	1,620	179	0.072	
3	9.027	1,740	192	0.076	
4	8.949	1,470	165	0.065	
5	8.991	2,710	302	0.160	
<b>Average</b>		<b>*&gt;1,792</b>	<b>*&gt;199</b>	<b>0.11</b>	
Std. Dev.		473	52.7	0.05	

*\*Exterior laminate exceeded the strength of adhesive, no failure in the coating was observed*

##### ICC-ES AC92 - Bond Strength - Freeze Thaw, Sections 3.2.3 and 4.3.1, ASTM C297

SPECIMEN	AREA (in <sup>2</sup> )	PEAK LOAD (lbf)	TENSILE STRENGTH (psi)	EXTENSION AT MAXIMUM LOAD (in)	FAILURE MODE
1	8.931	2,030	227	0.122	Adhesive Failure
2	9.000	2,770	308	0.156	
3	8.874	2,620	295	0.102	
4	8.670	3,030	350	0.220	
5	8.943	1,300	145	0.046	
<b>Average</b>		<b>*&gt;2,350</b>	<b>*&gt;265</b>	<b>0.13</b>	
Std. Dev.		619	71.9	0.06	

*\*Exterior laminate bond exceeded the strength of adhesive, no failure in the composite was observed*



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**ICC-ES AC92 - Bond Strength - 2,005 UV Weathering, Sections 3.2.3 and 4.3.1, ASTM C297**

SPECIMEN	AREA (in <sup>2</sup> )	PEAK LOAD (lb <sub>f</sub> )	TENSILE STRENGTH (psi)	EXTENSION AT MAXIMUM LOAD (in)	FAILURE MODE
1	9.172	2,510	274	0.045	Adhesive Failure
2	9.278	2,620	282	0.037	
3	9.090	3,070	337	0.042	
4	9.148	3,230	353	0.047	
5	9.123	2,730	300	0.036	
<b>Average</b>	<b>9.162</b>	<b>2,832</b>	<b>309</b>	<b>0.04</b>	
Std. Dev.		274	30.8	0.00	

\* Exterior laminate bond exceeded the strength of adhesive, no failure in the composite was observed

**ICC-ES AC92 - Flexural Strength - Controls, Section 4.4.1, ASTM D1037**

SPECIMEN	WIDTH (in)	THICKNESS (in)	MAXIMUM LOAD (lbf)	FLEXURAL STRENGTH (psi)	FAILURE MODE
1-FIT	5.987	0.320	979	511	Break
2	5.983	0.320	945	494	Break
3	5.981	0.313	928	496	Break
4	5.985	0.316	939	496	Break
5	5.982	0.317	951	501	Break
<b>Average</b>	<b>5.984</b>	<b>0.317</b>	<b>948</b>	<b>500</b>	<b>Break</b>
1-FIC	6.000	0.320	923	481	Break
2	5.997	0.317	950	500	Break
3	5.984	0.316	953	504	Break
4	5.976	0.315	961	510	Break
5	5.982	0.318	955	502	Break
<b>Average</b>	<b>5.988</b>	<b>0.317</b>	<b>948</b>	<b>499</b>	<b>Break</b>

FIT - Face in Tension

FIC - Face in Compression

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**ICC-ES AC92 - Flexural Strength - Wet, Section 4.4.1, ASTM D1037**

SPECIMEN	WIDTH (in)	THICKNESS (in)	MAXIMUM LOAD (lbf)	FLEXURAL STRENGTH (psi)	FAILURE MODE
1-FIT	5.997	0.328	1,200	611	Break
2	5.977	0.323	1,150	594	Break
3	5.990	0.331	1,180	595	Break
4	5.984	0.327	1,150	588	Break
5	5.982	0.322	1,110	578	Break
<b>Average</b>	<b>5.986</b>	<b>0.326</b>	<b>1,158</b>	<b>593</b>	<b>Break</b>
1-FIC	5.990	0.321	1,170	606	Break
2	5.986	0.330	1,200	605	Break
3	5.976	0.323	1,140	590	Break
4	5.982	0.326	1,180	604	Break
5	5.983	0.326	1,180	605	Break
<b>Average</b>	<b>5.983</b>	<b>0.325</b>	<b>1,174</b>	<b>602</b>	<b>Break</b>

**FIT - Face in Tension (18.6% Increase in Strength)**

**FIC - Face in Compression (20.6% Increase in Strength)**

**ICC-ES AC92 - Flexural Strength - Freeze Thaw Cycling, Section 4.4.1, ASTM D1037**

SPECIMEN	WIDTH (in)	THICKNESS (in)	MAXIMUM LOAD (lbf)	FLEXURAL STRENGTH (psi)	FAILURE MODE
1-FIT	5.975	0.324	999	516	Break
2	5.980	0.323	1,020	529	Break
3	5.981	0.327	943	482	Break
4	5.983	0.324	1,050	540	Break
5	5.975	0.321	936	488	Break
<b>Average</b>	<b>5.979</b>	<b>0.324</b>	<b>990</b>	<b>511</b>	<b>Break</b>
1-FIC	5.991	0.319	984	515	Break
2	5.977	0.320	932	487	Break
3	5.986	0.320	950	496	Break
4	5.986	0.324	981	506	Break
5	5.984	0.324	945	487	Break
<b>Average</b>	<b>5.985</b>	<b>0.321</b>	<b>958</b>	<b>498</b>	<b>Break</b>

**FIT - Face in Tension (2.2% Increase in Strength)**

**FIC - Face in Compression (-0.2% Loss of Strength)**

**ICC-ES AC92-13, Section 4.4.1 - ASTM D1037, Flexural Strength: 3x Safety Factor: (178 psi)**

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**ICC-ES AC92 - Salt Spray Resistance, Sections 3.2.5 and 4.5, ASTM B117**

<b>HOUR OF EXPOSURE</b>	<b>VISUAL EVALUATION</b>	<b>PASS/FAIL</b>
300	No change in appearance	Pass

**ICC-ES AC92 - Water Resistance, Sections 3.2.6 and 4.6, ASTM D2247**

<b>EXPOSURE DURATION</b>	<b>VISUAL EVALUATION</b>	<b>PASS/FAIL</b>
14 Days	No change in appearance	Pass

**ICC-ES AC92 - Fastener Pull-Through Resistance, Sections 3.2.7 and 4.7.1.2, ASTM D1037**

<b>SPECIMEN</b>	<b>MAXIMUM LOAD (lbf)</b>
1	1,310
2	1,370
3	1,310
4	1,360
5	1,420
6	1,240
7	1,330
8	1,290
9	1,230
10	1,390
<b>Average</b>	<b>1,320</b>
Standard Deviation	58.7
CoV	4.45

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**ICC-ES AC92 - Surface Burning Characteristics, Sections 3.6**

**ASTM D1929 - Self Ignition Temperature**

SPECIMEN	INITIAL MASS (g)	FINAL MASS (g)	MASS LOSS (g)	INITIAL TEMPERATURE (°C)			FINAL TEMPERATURE (°C)		
				AIR	FURNACE	SPECIMEN	AIR	FURNACE	SPECIMEN
1	2.985	1.414	1.571	400	415	402	401	415	407
2	3.075	1.312	1.763	440	448	439	442	448	443
3	3.034	0.980	2.054	480	483	478	482	483	494
4	3.159	1.011	2.148	490	491	488	493	490	506

SPECIMEN	OBSERVATIONS (min:sec)							COMBUSTION TYPE
	MELT	CHAR	BUBBLE	FOAM	SMOKE	IGNITION	SOOT	
1	--	1:40	3:50	--	2:15	--	--	None
2	--	1:45	3:15	--	1:55	--	--	None
3	--	1:40	2:10	--	1:00	--	--	None
4	--	1:25	1:35	--	0:55	4:50	--	Glowing

**Self-Ignition Temperature: 490°C**

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**ICC-ES AC92 - Surface Burning Characteristics, Sections 3.6**

**ASTM D1929 - Flash Ignition Temperature**

SPECIMEN	INITIAL MASS (g)	FINAL MASS (g)	MASS LOSS (g)	INITIAL TEMPERATURE (°C)			FINAL TEMPERATURE (°C)		
				AIR	FURNACE	SPECIMEN	AIR	FURNACE	SPECIMEN
1	3.035	0.880	2.155	480	483	478	486	485	503
2	3.078	0.962	2.116	400	414	400	409	415	430
3	3.024	1.541	1.483	380	394	381	382	394	385
4	3.113	1.637	1.476	360	373	361	362	373	363
5	3.113	1.411	1.702	340	353	342	357	355	474
6	2.861	1.660	1.201	330	392	331	332	342	334

SPECIMEN	OBSERVATIONS, (min:sec)							COMBUSTION TYPE
	MELT	CHAR	BUBBLE	FOAM	SMOKE	IGNITION	SOOT	
1	--	1:35	--	--	0:55	1:55	2:05	Flame
2	--	3:05	3:55	--	2:45	4:25	5:00	Flame
3	--	4:35	5:05	--	3:30	5:15	5:25	Flame
4	--	4:55	--	--	3:50	6:10	6:25	Flame
5	--	7:30	--	--	6:30	8:05	8:55	Flame
6	--	8:40	--	--	7:15	--	--	None

**Flash Ignition Temperature: 340°C**

*Flash ignition data is not required by AC92, but the data is provided for informational purposes.*



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**SECTION 9**

**CONCLUSION**

HPL Wall Cladding met the performance requirements for ICC-ES AC92.

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### SECTION 10 PHOTOGRAPHS



**Photo No. 1**  
**Materials, As Received**



**Photo No. 2**  
**Section 4.1.1 - 2,005 Hours of Accelerated Weathering Control (Left); Aged Specimens (Right)**

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**Photo No. 3**

**Section 4.2.1 - Post 10 Cycles of Freeze Thaw Exposure  
Control (Left); Freeze Thaw Specimen (Right)**



**Photo No. 4**

**Section 4.3.1 - Bond Strength Test Setup Detail (Typical)**



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Photo No. 5

### Section 4.3.1 - Bond Strength Test Failure Detail (Typical)



Photo No. 6

### Section 4.4.1 - Flexural Strength Test Setup Detail (Typical)

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**Photo No. 7**

**Section 4.4.1 - Flexural Strength Test Failure Detail (Typical)**



**Photo No. 8**

**Section 4.5 - Post 300-Hours of Salt Spray Exposure,  
No Changes in Appearance Were Observed**

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**Photo No. 9**

**Section 4.6 - Post 2-Week of High Humidity Exposure,  
No Changes in Appearance Were Observed**



**Photo No. 10**

**Section 4.7.1 - Fastener Pull-Through Resistance  
Test Setup Detail (Typical)**

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**Photo No. 11**

**Section 4.7.1 - Fastener Pull-Through Resistance  
Test Failure Detail (Typical)**



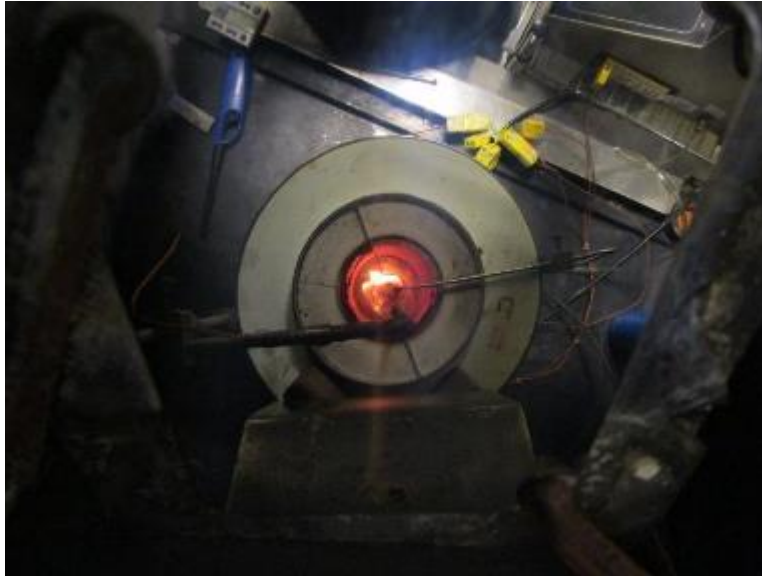
**Photo No. 12**

**Section 3.6 - Self-Ignition Temperature  
Test Setup Detail (Typical)**

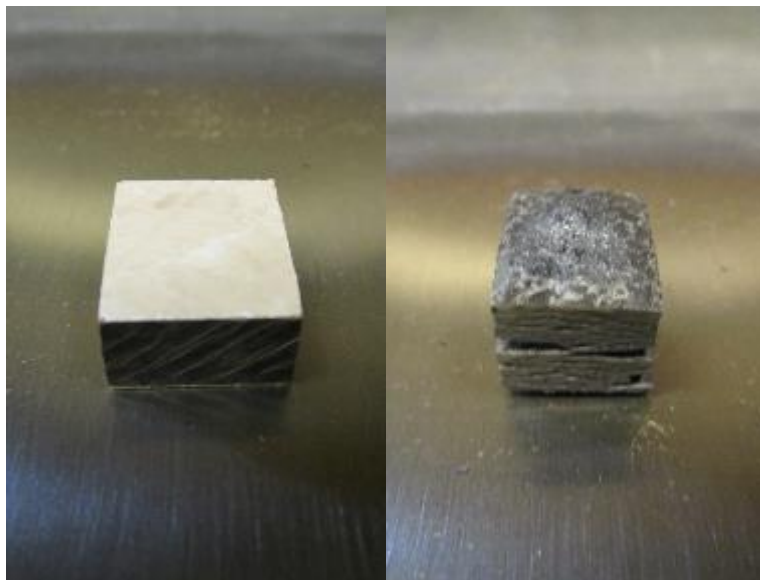
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**Photo No. 13**  
**Section 3.6 - Self-Ignition Temperature**  
**Test Failure Detail (Typical)**



**Photo No. 14**  
**Section 3.6 - Self-Ignition Temperature Test Failure Detail (Typical)**  
**Initial Specimen (Right), Post Self-Ignition Specimen (Left)**



Total Quality. Assured.

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**SECTION 11**

**REVISION LOG**

REVISION #	DATE	PAGES	REVISION
0	09/11/24	N/A	Original Report Issue