



PRI Construction Materials Technologies LLC

6412 Badger Drive
Tampa, FL 33610
813.621.5777
<https://www.pri-group.com/>

Laboratory Test Report

Report for: Elicc Group
13475 Danielson Str Ste 250
Poway, CA 92064

Product Name: Elicc LV-550 Aluminum Louver w/ X-Vent

Project No.: 2825T0002.01

Date(s) Tested: February 19th, 2026

Test Methods: AMCA Standard 550-15

Results Summary: Compliant AMCA Standard 550-15

Purpose: Determine the wind-driven rain resistance for Elicc Group's, Elicc LV-550 aluminum louver in accordance with ANSI/AMCA Standard 550 – Test Method for High Velocity Wind Driven Rain Resistance Louvers.

Test Methods: Testing was conducted in accordance with ANSI/AMCA Standard 550-15 – Test Method for High Velocity Wind Driven Rain Resistance Louvers, test protocols assigned or referenced Miami-Dade County Florida Department of Regulatory and Economic Resources Product Control Section Checklist #230 For the Approval of Louvers (Includes Gable End Louvers), and Test Application Standard No 100(A)-23 Test Procedure for Wind and Wind Driver Rain Resistance and/or Increased Windspeed Resistance of Soffit Ventilation Strip and Continuous or Intermittent Ventilation Systems Installed at the Ridge Area.

Sampling: The following materials were received by PRI.

<u>Product</u>	<u>Source</u>	<u>Date Received</u>	<u>Sampling</u>
Elicc LV-550 Aluminum Louver w/ X-Vent	San Diego, CA	Jan. 28 th , 2026	Elicc Group

All other components for testing were procured by PRI Construction Materials Technologies LLC through local distribution.

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I. Product Manufacturer & Location

Elicc Group
13475 Danielson Str Ste 250
Poway, CA 92064

II. Accredited Testing Laboratory

PRI-Construction Materials Technologies, LLC
6412 Badger Drive
Tampa, FL 33610

II.1. Testing Location:

Testing was conducted at PRI-CMT located in Tampa, FL. Verification of testing instrumentation was performed by a PRI-CMT representative in compliance with PRI-CMT In-House quality control program governed by ISO/IEC 17025-17.

III. Product Type

Aluminum Louver System with Horizontal Blades & X-Vent

IV. Product Series/Model

Elicc LV-550

V. Test Specimen Details

V.1. Sizes

V.1.1.	Overall Unit Size:	51-1/4" wide x 53" tall (18.9ft ²)
V.1.2.	Core Unit Size:	48" wide x 48" tall (16.0ft ²)
V.1.3.	Horizontal Blade Span:	47-1/4"

V.2. Specimen Construction

Member		Description
Frame	Head	6063-T5 Extruded aluminum
	Sill	6063-T5 Extruded aluminum
	Jamb	6063-T5 Extruded aluminum
	Mounting Angle	See Installation
	Jamb Blank-Off	None
	Joinery	Head/Sill/Jambs were straight cut and mechanically secured thru the head and sill and into the jambs internal screw bosses with two (2) ST4.8x19 screws per end. Silicone was applied over all fastener heads.

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Member		Description
Louver	Horizontal Blades	6063-T5 extruded aluminum. Twenty-Two (22) blades spaced 1-15/16" O.C.
	Interior Blade Brace	None
	Blade Brace Strip	None
	Rear Mesh	None
	Sill Baffle	None
	Joinery	The horizontal blades were straight cut and mechanically secured thru the corresponding jamb frame member and into the blades' screw bosses with two (2) ST4.2x32 Pan Head SDS per end. silicone was applied over all fastener heads.
	X-Vent	1/8" thick formed aluminum plate was attached to the interior louver frame with twenty (20) ST4.2x19 pan head screws, 2-1/2" from each corner and 10-1/2" O.C. thereafter around the perimeter. Four (4) exhaust from the interior vents were fabricated in the plate. See drawing in appendix.

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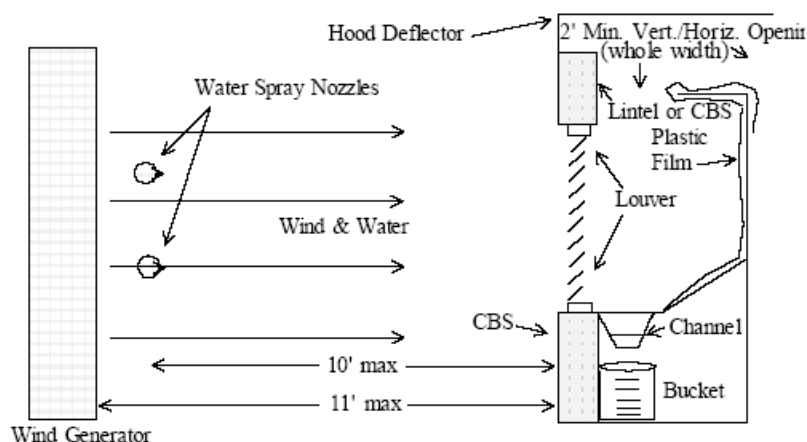
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Result: Testing was performed at ambient conditions. Manufacturer's drawings are contained in Appendix A. Photograph(s) are contained in Appendix B. Calibration documentation is provided in Appendix C.

Component	Description	Attachment	Additional Detail	ANSI/AMCA 550-15 Result [Pass/Fail]
Wall	48in x 48in rough opening in CMU wall with filled cells	1-1/2in x 1-1/2in angle attached to the block wall with two (2) 1-1/4in long masonry screws. (Attachment not under test)	Wall placed 10' away from opening	Pass
Installation	Elicc LV-550 Aluminum Louver (48" x 48")	#10 x 1-1/2" hex head SDS with bonded washer. (Attachment not under test)	The vent was placed into to opening with a 1/2" shims around the louver and rough opening. ASTM C920 sealant was utilized to seal the louver to the CMU wall on the interior and exterior.	

Note(s) None.



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Observations:

Interval	Test Condition	Result
1	Wind Speed: 35 mph Water Spray: 8.8in/h Duration: 15 min	Wind Speed: No Vent Displacement Water Spray: No Water infiltration
2	Wind Speed: 0 mph Water Spray: Off Duration: 5 min	Wind Speed: No Vent Displacement Water Spray: 0ml (Total infiltration is <0.01% of allowable 1% total water spray)
3	Wind Speed: 70 mph Water Spray: 8.8in/h Duration: 15 min	Wind Speed: No Vent Displacement Water Spray: Water infiltration
4	Wind Speed: 0 mph Water Spray: Off Duration: 5 min	Wind Speed: No Vent Displacement Water Spray: Water infiltration 2ml (Total infiltration is <0.01% of allowable 1% total water spray)
5	Wind Speed: 90 mph Water Spray: 8.8in/h Duration: 15 min	Wind Speed: No Vent Displacement Water Spray: Water infiltration
6	Wind Speed: 0 mph Water Spray: Off Duration: 5 min	Wind Speed: No Vent Displacement Water Spray: Water infiltration 168ml (Total infiltration is 0.02% of allowable 1% total water spray)
7	Wind Speed: 110 mph Water Spray: 8.8in/h Duration: 5min	Wind Speed: No Vent Displacement Water Spray: Water infiltration
8	Wind Speed: 0 mph Water Spray: Off Duration: 5 min	Wind Speed: No Vent Displacement Water Spray: Water infiltration 12ml (Total infiltration is 0.02% of allowable 1% total water spray)

Summary Observations:

The total volume of water that infiltrated the specimen at the completion of testing was 182ml. The calculated percentage of infiltrated water is 0.02% based on the total volume of water delivered. The maximum allowable infiltrated is 1% or 8,139ml.

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Statement of Compliance:

Testing was completed in accordance with the standard test methods and protocols outlined in ANSI/AMCA Standard 550 Test Method for High Velocity Wind Driven Rain Resistant Louvers. Upon completion of testing the tested specimen met the minimum wind driven rain requirements specified Miami-Dade County Florida Department of Regulatory and Economic Resources Product Control Section Checklist #230 For the Approval of Louvers (Includes Gabel End Louvers). The laboratory test results presented in this report are representative of the materials supplied. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

Signed: _____



Timothy Efan
Manager

Date: _____

March 24th, 2026

Signed: _____



Zachary Priest - PE
Director

Date: _____

03/28/2026

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	03/24/2026	14	NA
Revision 1	04/27/2026	All	Updated TAS edition, various editorial.

APPENDIX FOLLOWS...

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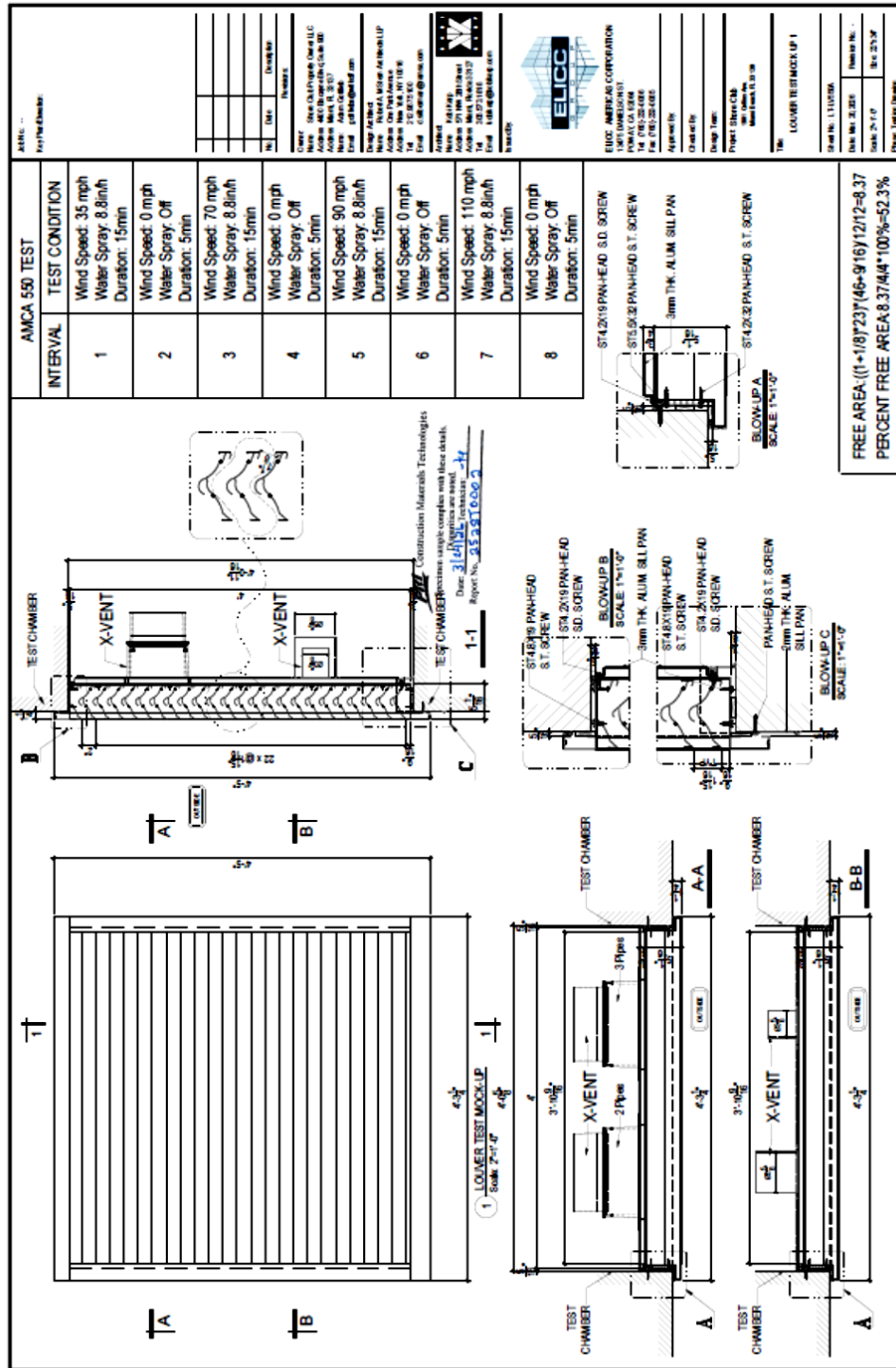
Manufacture Drawing

Louver test drawings (AMCA 550) Issue Date: Mar. 20, 2026 (1st Submittal)	 Construction Materials Technologies Spectrom sample complies with these details. Date: 3/24/26 Technician: <u> H </u> Report No. <u> 2825T0002 </u>	Issued By: ELICC AMERICAS CORPORATION 13475 DANIELSON ST. POWAY CA 92064 TEL: 760-233-0066 FAX: 760-233-0065
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1 MATERIAL LIST OF ALUM PANEL

ITEM NO.	DESCRIPTION	SECTION
001	2" THICK ALUMINUM PANEL FRONT FINISH	
002	2" THICK ALUMINUM PANEL FRONT FINISH	

2 MATERIAL LIST OF GASKET AND THERMAL BREAK AND SETTING-BLOCK

ITEM NO.	DESCRIPTION	QTY	UNIT	REMARKS
001		11	SP-2	SILICONE (BLACK) 4"
002		11	SP-3	SILICONE (BLACK) 4"
003		11	SP-4	SILICONE (BLACK) 4"
004		11	SP-5	SILICONE (BLACK) 4"

3 MATERIAL LIST OF FASTENERS

ITEM NO.	DESCRIPTION	QTY	UNIT	REMARKS
001		11	SP-6	STAINLESS STEEL
002		11	SP-7	STAINLESS STEEL
003		11	SP-8	STAINLESS STEEL
004		11	SP-9	STAINLESS STEEL

4 MISCELLANEOUS MATERIAL LIST

ITEM NO.	DESCRIPTION	QTY	UNIT	REMARKS
001	SOFT WAX AND MATERIAL INCLUDING POLYURETHANE	1	SP-10	

5 SEALANT MATERIAL LIST

ITEM NO.	DESCRIPTION	QTY	UNIT	REMARKS
001	SILICONE WEATHERPROOFING SEALANT TYPE DOWSILTYN COLOR BLACK	1	SP-11	

CLIENT: Elicc Group
PROJECT: Elicc LV-550 Aluminum Louver w/ X-Vent
DATE: 3/14/2021
REPORT NO.: 2825T0002.01

TESTING: Construction Materials Technologies
 Specimens sample complex with these details.
 Date: 3/14/2021
 Report No. 2825T0002.01

ELICC GROUP
 10000 W. BAYVIEW BLVD.
 SUITE 1000
 MIAMI, FL 33147
 TEL: 305.555.5555
 FAX: 305.555.5556
 WWW.ELICC.COM

APPROVED: [Signature]
DATE: 3/14/2021
BY: [Signature]

TESTING: Construction Materials Technologies
 10000 W. BAYVIEW BLVD.
 SUITE 1000
 MIAMI, FL 33147
 TEL: 305.555.5555
 FAX: 305.555.5556
 WWW.ELICC.COM

MATERIAL LIST

ITEM NO.	DESCRIPTION	QTY	UNIT	REMARKS
001	2" THICK ALUMINUM PANEL FRONT FINISH	11	SP-1	
002	2" THICK ALUMINUM PANEL FRONT FINISH	11	SP-2	

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Photographs

Front After Testing



Back After Testing



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Calibration Data

Windstream Calibration

Procedure: The windstream velocity calibration is conducted on a vertical plane grid measuring 8' wide by 4' high and grid dimensions of 2' by 2'. The plane is located 24 inches in front of the test frame and with the lower 8' dimension in line with the bottom edge of the test frame opening. For each axial velocity setting, windstream pressures are measured using either a Dwyer Model 605-3 or 605-10 Magnehelic Differential Pressure Indicating Transmitter to a Dwyer Model 160-48 Pitot Tube. Velocity pressures for each grid square are observed as inches of water and converted to miles per hour according to the below relationship.

$$\text{MPH} = 12.4625 \sqrt{P_v / d}$$

where, "P_v" represents the velocity pressure in inH₂O and "d" represents the density of air in lbs/ft³ adjusted for temperature, barometric pressure, and relative humidity.

The measured windstream velocity within each grid square shall be within ±10% of the required axial velocity for each wind speed.

Data and Calculations: Data from the most recent calibration indicate that the wind generator provides a suitably constant wind profile for the AMCA 550 test procedure. Windstream velocity calibration data is provided in the table that follows on the next page.

Windstream Velocity Calibration													
Date of Calibration Procedure: 11/18/25						Next Due: May-26							
Ambient Temperature:		72.0	°F										
Barometric Pressure:		29.97	in Hg										
Relative Humidity:		76	%										
RPM	Grid Position	Velocity Pressure (in H ₂ O)	Windstream Velocity (mph)	Grid Position	Velocity Pressure (in H ₂ O)	Windstream Velocity (mph)	Grid Position	Velocity Pressure (in H ₂ O)	Windstream Velocity (mph)	Grid Position	Velocity Pressure (in H ₂ O)	Windstream Velocity (mph)	
1300	1	0.50	32.4	2	0.51	32.7	3	0.53	33.3	4	0.54	33.6	
	5	0.52	33.0	6	0.52	33.0	7	0.54	33.6	8	0.56	34.3	
Target: 35 mph		Calibration: Each Grid Square shall be within ± 10% of 35 mph (31.5 - 38.5 mph)								Pass/Fail: Pass			
2400	1	2.3	69.4	2	2.3	69.4	3	2.5	72.4	4	2.5	72.4	
	5	2.3	69.4	6	2.5	72.4	7	2.6	73.8	8	2.7	75.2	
Target: 70 mph		Calibration: Each Grid Square shall be within ± 10% of 70 mph (63 - 77 mph)								Pass/Fail: Pass			
2900	1	3.6	86.8	2	3.7	88.0	3	3.8	89.2	4	3.8	89.2	
	5	3.7	88.0	6	3.8	89.2	7	3.8	89.2	8	3.9	90.4	
Target: 90 mph		Calibration: Each Grid Square shall be within ± 10% of 90 mph (81 - 99 mph)								Pass/Fail: Pass			
3500	1	5.5	107	2	5.6	108	3	5.7	109	4	5.8	110	
	5	5.6	108	6	5.7	109	7	5.8	110	8	5.9	111	
Target: 110 mph		Calibration: Each Grid Square shall be within ± 10% of 110 mph (99 - 121 mph)								Pass/Fail: Pass			

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Simulated Rainfall and Flow Meter Calibration

Procedure: Water is supplied to the windstream via mounted sprinkle-pipes. Calibration is conducted in essentially two steps. First, the flow meter readings, in gal/min, are recorded, summed, and input into the following equation:

$$\left[\frac{\left(\frac{\text{gallons}}{\text{min.}} \right) \times \left(\frac{60 \text{ min.}}{1 \text{ hour}} \right) \times \left(\frac{231 \text{ in.}^3}{1 \text{ gallon}} \right)}{6,912 \text{ in.}^2} \right] = x \left(\frac{\text{in.}}{\text{hour}} \right)$$

The quantity x determined above shall be within $\pm 5\%$ of the desired rainfall simulation of 8.8 inches/hour. Second, the quantity of water captured in one (1) minute is weighed, converted to volume, and input into the below equation:

$$\left[\frac{\left(\frac{\text{in.}^3}{6,912 \text{ in.}^2} \right)}{1 \text{ min.}} \right] \times \left(\frac{60 \text{ min.}}{1 \text{ hour}} \right) = y \left(\frac{\text{in.}}{\text{hour}} \right)$$

The flow meter determination x shall be within $\pm 5\%$ of the quantity y determined above.

Data and Calculations: Data from the most recent calibration indicate that an appropriate volume of water is applied during the AMCA 550 test procedure. Simulated rainfall and flow meter calibration data is provided in the below table.

Simulated Rainfall and Flow Meter Calibration						
These settings are for 35mph						
Date of Calibration Procedure: 11/18/25				Next Due: May-26		
X	Water Supply (gal/min)	Simulated Rainfall (in/hr)	Y	Weight (lbs)	Volume (in ³)	Simulated Rainfall (in/hr)
Flow Meter #1	2.4	2.9	Flow Meter #1	20.9	578.5	3.0
Flow Meter #2	4.8	5.8	Flow Meter #2	40.5	1121.0	5.8
Total	7.2	8.7	Total	61.4	1699.5	8.9
Simulated Rainfall		8.7	Simulated Rainfall		8.9	
Target		8.8	Target		8.7	
Within $\pm 5\%$ Tolerance		Pass	Within $\pm 5\%$ Tolerance		Pass	

Simulated Rainfall and Flow Meter Calibration						
These settings are for 70+ mph						
Date of Calibration Procedure: 11/18/25				Next Due: May-26		
X	Water Supply (gal/min)	Simulated Rainfall (in/hr)	Y	Weight (lbs)	Volume (in ³)	Simulated Rainfall (in/hr)
Flow Meter #1	3.6	4.3	Flow Meter #1	30.7	849.8	4.4
Flow Meter #2	3.6	4.3	Flow Meter #2	30.4	841.5	4.4
Total	7.2	8.7	Total	61.1	1691.2	8.8
Simulated Rainfall		8.7	Simulated Rainfall		8.8	
Target		8.8	Target		8.7	
Within $\pm 5\%$ Tolerance		Pass	Within $\pm 5\%$ Tolerance		Pass	

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Water Distribution Check

Procedure: The water distribution of simulated rain fall over the test frame was determined by placing a thick absorptive material on the test frame, determining the amount of water absorbed during a set time interval, and verifying the water distribution profile within given tolerances. The procedure outlined in AMCA 550 was followed. The thick absorptive material used was 46 gauge organic felt. Wind driven rain was applied for approximately six (6) minutes. Each individual 2' x 2' wetted square was weighed using an Ohaus Model I-10 Scale.

The simulated rainfall calculated for each 2' x 2' wetted square shall be within $\pm 25\%$.

Data and Calculations: Data from the most recent calibration indicate that the wind generator and water supply system provides a suitably constant water distribution profile for the AMCA 550 test procedure. Water distribution check data is provided in the table below.

Water Distribution Check															
Date of Calibration Procedure:		11/18/25				Next Due:		May-26							
Ambient Temperature:		74.0		°F		Barometric Pressure:		30.20		in Hg		Relative Humidity:		87 %	
Windstream Velocity:		35 mph													
Water Supply:		8.8 gal/min													
Elapsed Time:		6 min													
Grid Position	Dry Felt (g)	Wetted Felt (g)	Simulated Rainfall (in/hr)	Grid Position	Dry Felt (g)	Wetted Felt (g)	Simulated Rainfall (in/hr)	Grid Position	Dry Felt (g)	Wetted Felt (g)	Simulated Rainfall (in/hr)	Grid Position	Dry Felt (g)	Wetted Felt (g)	Simulated Rainfall (in/hr)
1	190.0	695.0	8.77	2	180.0	660.0	8.33	3	180.0	680.0	8.68	4	185.0	700.0	8.94
5	185.0	690.0	8.77	6	185.0	670.0	8.42	7	185.0	670.0	8.42	8	185.0	685.0	8.68
9	185.0	680.0	8.59	10	180.0	670.0	8.51	11	180.0	675.0	8.59	12	180.0	690.0	8.85
13	185.0	680.0	8.59	14	190.0	705.0	8.94	15	180.0	685.0	8.77	16	185.0	700.0	8.94
17	180.0	705.0	9.11	18	185.0	715.0	9.20	19	180.0	690.0	8.85	20	180.0	705.0	9.11
Target: No one particular square sample shall exhibit a rainfall simulation greater than or less than 15% of any other square sample.															
High Value:		9.20		⇒		Low Tolerance:		7.82				Pass/Fail:		Pass	
Low Value:		8.33		⇒		High Tolerance:		9.58							
Windstream Velocity:		70 mph													
Water Supply:		8.8 gal/min													
Elapsed Time:		6 min													
Grid Position	Dry Felt (g)	Wetted Felt (g)	Simulated Rainfall (in/hr)	Grid Position	Dry Felt (g)	Wetted Felt (g)	Simulated Rainfall (in/hr)	Grid Position	Dry Felt (g)	Wetted Felt (g)	Simulated Rainfall (in/hr)	Grid Position	Dry Felt (g)	Wetted Felt (g)	Simulated Rainfall (in/hr)
1	190.0	680.0	8.5	2	190.0	690.0	8.68	3	190.0	690.0	8.68	4	190.0	665.0	8.25
5	180.0	670.0	8.5	6	180.0	685.0	8.77	7	180.0	670.0	8.51	8	180.0	680.0	8.68
9	180.0	685.0	8.8	10	180.0	685.0	8.77	11	180.0	680.0	8.68	12	180.0	675.0	8.59
13	185.0	690.0	8.8	14	185.0	695.0	8.85	15	185.0	680.0	8.59	16	185.0	685.0	8.68
17	190.0	685.0	8.6	18	190.0	680.0	8.51	19	190.0	675.0	8.42	20	190.0	690.0	8.68
Target: No one particular square sample shall exhibit a rainfall simulation greater than or less than 10% of any other square sample.															
High Value:		8.85		⇒		Low Tolerance:		7.97				Pass/Fail:		Pass	
Low Value:		8.25		⇒		High Tolerance:		9.07							

END OF REPORT

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