



PRI Construction Materials Technologies LLC

6412 Badger Drive
Tampa, FL 33610
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Laboratory Test Report

Report for: Croft LLC
1800 North Clark Avenue
Magnolia, MS 39652

Product Type: PVC Horizontal Sliding Window (OX)

Product Series: 12HS Series

Project No.: 2189T0066

Date(s) Tested: July 15th – 18th, 2025

Results: Compliant: Class R–PG35 1524 x 1829mm (60 x 72in) – HS

12HS Series 2-Lite Horizontal Sliding (60" x 72") Summary	
Test Method Description	Summary of Results
AAMA/WDMA/CSA 101/1.S.2/A440-17	Class R–PG35 1524 x 1829mm (60 x 72in) – HS
Design Test Pressure:	±1680 Pa (±35.09 psf)
Air Leakage (Infiltration):	0.8 L/s·m ² (0.15 cfm/ft ²)
Water Penetration Test Pressure:	260 Pa (5.43 psf)
Forced Entry Resistance Grade Level:	Type "A" Grade 10

Test Methods

Testing was completed as described in North American Fenestration Standard/Specification for windows, doors, and skylights (NAFS) AAMA/WDMA/CSA 101/1.S.2/A440-17. Test methods assigned or reference include: ASTM E2068 Standard Test Method for Determination of Operating Force of Sliding Windows and Doors, ASTM E283 Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen, ASTM E547 Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Difference, ASTM E330 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Difference, ASTM E987 Standard Test Methods for Deglazing Force of Fenestration Products, and ASTM F588 Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact.

Report Date: 08/26/2025	Test Record Retention Date: 08/26/2030
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Reference must be made to Project No. 2189T0066, dated 08/26/2025 for complete test specimen description and detailed results.

2189T0066

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I. Product Manufacturer & Location

Croft LLC
 1800 North Clark Avenue
 Magnolia, MS 39652

II. Accredited Testing Laboratory

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

II.1.1. 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

PVC 2-Lite Horizontal Sliding Window (OX)

IV. Product Series/Model

12HS

V. Test Specimen Details

V.1. Sizes

V.1.1. Overall Unit Size: 1524 x 1829mm (60" x 72") 2.8m² (30.0ft²)
 V.1.2. Vent Sash Size: 737 x 1753mm (29" x 69")
 V.1.3. Exterior Meeting Stile: 1689mm (66-1/2")
 V.1.4. Sill Track: 1491mm (58-11/16")

V.2. Framing Members

V.2.1. Head/Sill/Jambs: Extruded PVC mitered and thermally welded at each corner.
 V.2.2. All Sash Rails/Stiles: Extruded PVC mitered and thermally welded at each corner.
 V.2.3. Exterior Meeting Stile: Extruded PVC, straight cut, fabricated and mechanically secured through the head and sill and into the members internal screw bosses with four (4) #8 x 2" pan head screws w/ reinforced neoprene washers, two (2) per end. Silicone sealant was applied at the intersection of the meeting stile and sill.
 V.2.4. Sill Track: Extruded PVC straight cut, fabricated, and snapped into the interior sill pocket.

V.3. Daylight Opening

Location	Size		Total Area		Quantity
	mm	inches	m ²	ft ²	
Fixed Lite	664 x 1689	26-1/8 x 66-1/2	1.1	12.1	1
Vent Sash	660 x 1689	26 x 66-1/2	1.1	12.0	1

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V.4. Clear Opening (Egress)

Location	Size		Total Area		Quantity
	mm	inches	m ²	ft ²	
Vent Sash Fully open	638 x 1689	25-1/8 x 66-1/2	1.1	11.6	1

V.5. Glazing

IGU Thickness	Spacer Type	Interior Pane	Exterior Pane	Glazing Method	Glazing Bite
Dual Glaze 19mm (3/4")	Aluminum Box Dual Sealed	Vent Glass		The fixed lite was set from the interior and the sash lite was set from the exterior onto a bed of silicone adhesive and secured in place with vinyl glazing beads.	13mm (1/2")
		3mm (1/8") Annealed	3mm (1/8") Annealed		
		Fixed Glass			
		2mm (3/32") Annealed	2mm (3/32") Annealed		

V.6. Weeping System

Drainage Type	Member Location	Location on Frame Member	Drainage Size	Quantity
Weep Slot	Sill sash pocket, draining to the adjacent cavity	32mm (1-1/4") O.C. from each end.	25mm (1") long by 6mm (0.25") wide	2
Weep Slot	Sill intermediate wall draining to the cavity below	12mm (1/2") O.C. from each end.	25mm (1") long by 7mm (0.25") tall	2
Weep Slot w/ Cover	Sill exterior face draining to the exterior	70mm (2-3/4") O.C. from each end and midspan.	38mm (1-1/2") long by 7mm (0.27") tall	3
Weep Slot	Sash bottom rail, bottom face	32mm (1-1/4") O.C. from each end	10mm (3/8") long by 4mm (0.14") wide	2
Weep Slot	Sash bottom rail, glazing pocket	52mm (2-1/16") O.C. from each end	10mm (3/8") long by 6mm (1/4") wide	2

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V.7. Weatherstripping

Location	Member	Description	Quantity
Frame	Jamb – Sash Pocket Interior Leg	4.8mm (3/16") backed, 6.3mm (0.250") tall pile with single fin	1 row per member (2 Total)
	Head – Sash Pocket Interior Leg	4.8mm (3/16") backed, 6.3mm (0.250") tall pile with single fin	1 row
	Sill – Sash Pocket Interior Leg	4.8mm (3/16") backed, 6.3mm (0.250") tall pile with single fin	1 row
	Exterior Meeting Stile – Interior face	4.8mm (3/16") backed, 6.3mm (0.250") tall pile with single fin	1 row
Vent Sash	Jamb Pull Stile	4.8mm (3/16") backed, 10mm (0.29") diameter foam filled offset bulb	1 row

V.8. Reinforcements

Location	Description	Quantity
Exterior meeting rail	Extruded aluminum	1
Interior meeting rail	Extruded aluminum	1

V.9. Screen

Size	Frame Material	Frame Joinery	Mesh	Mesh Retention	Quantity
694 x 1721mm (27-5/16" x 67-3/4")	Rolled aluminum	Straight cut and joined at each corner with plastic keys	Fiberglass	Flexible round spline	1

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V.10. Hardware Components

Component	Description	Location	Quantity
Sweep Lock	Formed plastic housing and lock.	Each lock was mounted on the interior meeting stile approximately 203mm (8") O.C. from each end and anchored with two (2) #8 x 7/8" TEK screws.	2
Glide Pads	Formed plastic	Vent sash bottom rail 76mm (3") snapped into fabricated slots.	2

V.11. Installation

The test specimen was installed into a nominal 2"x10" SYP wooden test buck. The rough opening maintained a clearance of 6mm (1/4") around the perimeter. Silicone sealant complying with AAMA 800 was applied behind the nailing fin, sealing the test specimen to the test buck.

Frame Member	Dimensional Location on Member	Anchor Description
Head/Sill/Jamb Nailing Fin	Within 51mm (2") from each end, centerline of meeting stiles, and 76mm (3") on each side of the centerline of the meeting stiles, then spaced approximately 254mm (10") O.C. thereafter in every other nail fin hole.	#8 x 1-1/2" Pan Head Screw

VI. Equipment Utilized:

Computer controlled reversible blower with pressure transducers
Linear distance transducers
Water spray rack
Gas mass with LFE
Load Cell

Official list of Witnesses:	Company:
Tim Efaw	PRI-CMT
Ken Binnion	PRI-CMT
Jerrid Fleming	Croft LLC
Matthew Spatafora	The Vinyl Company

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VII. Test Results: Conditions at the beginning of testing were 23°C (73°F) with 50% Rh.

Test Method	Test Pressure	Allowable	Recorded Measurement	Result
Operating Force ASTM E2068	N/A	Vent Sash Initiate Open – 110N (25lbs) Initiate Close – 110N (25lbs) Flow Open – 90N (20lbs) Flow Close – 90N (20lbs) Locks – 100 N (22.5lbs)	Vent Sash Initiate Motion – 110N (25lbs) Initiate Open – 62N (14lbs) Flow Open – 31N (7lbs) Flow Close – 31N (7lbs) Locks – 31N (7lbs)	Pass
Air Infiltration ASTM E283	75 Pa (1.57 psf)	1.5 L/s·m ² (0.30 cfm/ft ²)	0.8 L/s·m ² (0.15 cfm/ft ²)	Pass ¹
Air Exfiltration ASTM E283		Report Only	0.6 L/s·m ² (0.11 cfm/ft ²)	Pass ¹
Water Intrusion ASTM E547	260 Pa (5.43 psf)	No penetration of water beyond innermost plane, excluding trim and hardware.	No Leakage	Pass ²
Uniform Load Deflection ASTM E330 ^{3,4}	±1680 Pa (±35.09 psf)	Report Only	Positive 8.9mm (0.35") Negative 9.7mm (0.38")	Pass ⁵
Uniform Load Structural ASTM E330 ^{3,4}	±2520 Pa (±52.63 psf)	6.7mm (0.26")	Positive 1.5mm (0.06") Negative 2.0mm (0.08")	Pass ⁵
Forced Entry Resistance ASTM F588	N/A	No Entry	Type: "A" Grade: 10	Pass
Deglazing ASTM E987	Flow Members 320 N (70lbs) Other Members 230 N (50lbs)	11.4mm (0.45")	0.8mm (0.03") 0.8mm (0.03")	Pass
Thermoplastic Corner Weld	N/A	Bonded intersection shall not break along entire weld line	Meets as stated	Pass

Notes: 1. The tested specimen meets (or exceeds) the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440 for air leakage resistance.

2. Tested with and without screen.

3. Loads were held for 10 seconds.

4. Deflection and permanent set values was captured on the meeting stiles. Unsupported span measured 1676mm (66")

5. Duct tape and polyethylene film was used for excess air leakage. It is the judgment of the test engineer that the film and tape did not influence the result of the test.

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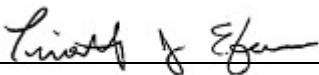
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Statement of Compliance:

Testing was conducted in accordance with methods designated in AAMA/WDMA/CSA 101/I.S.2 A440-17 North American Fenestration Standard/Specification for Windows, Doors, and Skylights. Upon completion of testing, the test specimen met the minimum performance requirements outlined for a Class R-PG35 1524 x 1829mm (60 x 72in) – HS. The laboratory test results presented in this report are representative of the specimen supplied. This report does not constitute certification of this product which may only be granted by the certification program administrator.

Detailed drawings showing wall thickness of all members, corner construction and hardware application are on file and have been compared to the sample submitted. A test sample will be retained at the test laboratory for a period of 2 years electronic documentation will be retained for a period of 10 years. A copy of this report has been forwarded to the Validator. Manufacturer's drawings and bill of materials are contained in Appendix A.

Signed: 
Timothy Efaw
Manager

Date: August 26th, 2025

Signed: 
Ken Binnion
Technician

Date: August 26th, 2025

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	08/26/2025	21	NA

Appendix Follows...

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Manufactures Drawings / BOM

SERIES 12HS HORIZONTAL SLIDER WINDOW (OX/XO)							
ITEM	DESCRIPTION	PART #	QTY	PART SPECS	MATERIAL	SOURCE	NOTES
1	MAIN FRAME SILL	5134	1		PVC	THE VINYL COMPANY	
2	MAIN FRAME JAMBS	5134	2		PVC	THE VINYL COMPANY	
3	MAIN FRAME HEAD	5134	1		PVC	THE VINYL COMPANY	
4	FIXED MEETING STILE	5135	1		PVC	THE VINYL COMPANY	
5	SASH LOCK STILE	2825	1		PVC	THE VINYL COMPANY	
6	SASH HORIZONTAL RAILS	2821	2		PVC	THE VINYL COMPANY	
7	SASH PULL STILE	2827	1		PVC	THE VINYL COMPANY	
8	GLAZING BEAD (3/4" IG)	4935	8		PVC	THE VINYL COMPANY	
9	GLAZING BEAD (7/8" IG)	2863	8		PVC	THE VINYL COMPANY	
10	SLIDER TRACK FILLER	4907	1		PVC	THE VINYL COMPANY	
11	FRAME HEAD ANTI-LIFT BLOCK	4907	1		PVC	THE VINYL COMPANY	
REINFORCEMENT							
	SASH LOCK STILE		1				
	FIXED MEETING STILE		1				
HARDWARE							
	BULB SEAL SASH JAMB STILE	TBD	AR	.187 X .290		ULTRAFAB	
	FIXED KEEPER STILE PILE WEATHERSTRIP		AR	.187 X .250			
	FRAME SILL PILE WEATHER STRIP		AR	.187 X .250			
	FRAME HEAD PILE WEATHERSTRIP		AR	.187 X .250			
	FRAME JAMB PILE WEATHERSTRIP		AR	.187 X .250			
	GLIDE PADS		2				
	SWEEP LOCKS		2				
SCREWS							
	SWEEP LOCK SCREWS		2 OR 4	#8 X 7/8" SDPFH			2 LOCKS USED 28" (H) AND UP
	REINFORCEMENT HOLDING SCREW		4	#6 x 1/2" PFH TEK			
	MRAIL ATTACHMENT SCREW (THRU FRAME)		4	#8 X 2 PPH			
GLAZING							
	GLAZING SHIMS		16	1/8"X3/4" X 3/4"		TREMCO	1
	GLAZING TAPE		AR	1/16" X 1/2" (AWT)		ARLON	1
	SILICONE SEALANT	NOVAFLEX	AR			NOVAGUARD	1

 PRI Construction Materials Technologies
Specimen sample complies with these details.
Disparities are noted.
Date: 8/14/15 Technician: KE
Report No. 2189T0066

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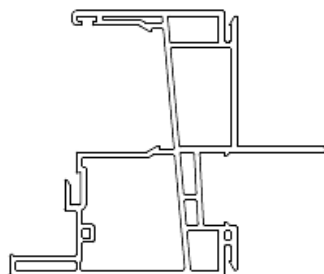
10 SERIES NEW CONSTRUCTION SYSTEM PROFILE CHART



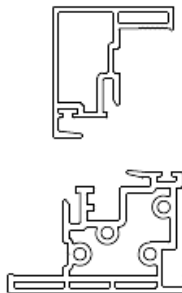
4907
SS TRACK
FILLER



4935
GLAZING
BEAD



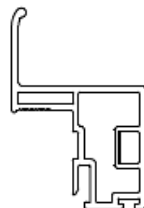
5134 SS FRAME



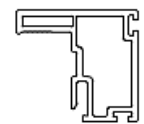
5135 FIXED
MEETING RAIL



FIXED MEETING
RAIL REFO



2827-1
LIFT RAIL



2821
COMMON SASH

PRL Construction Materials Technologies

Specimen sample complies with these details.

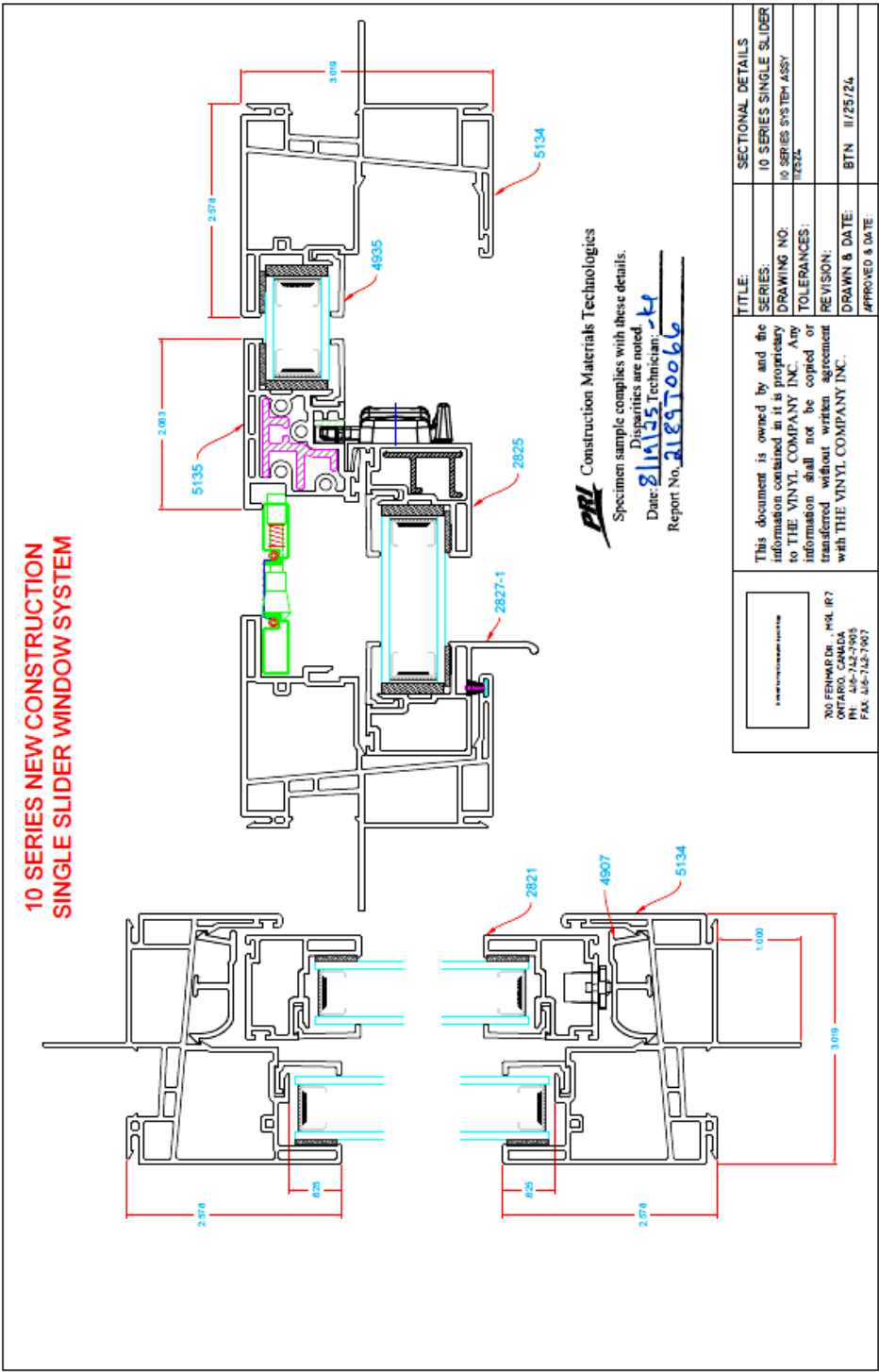
Disparities are noted.
Date: 8/19/25 Technician: -kp

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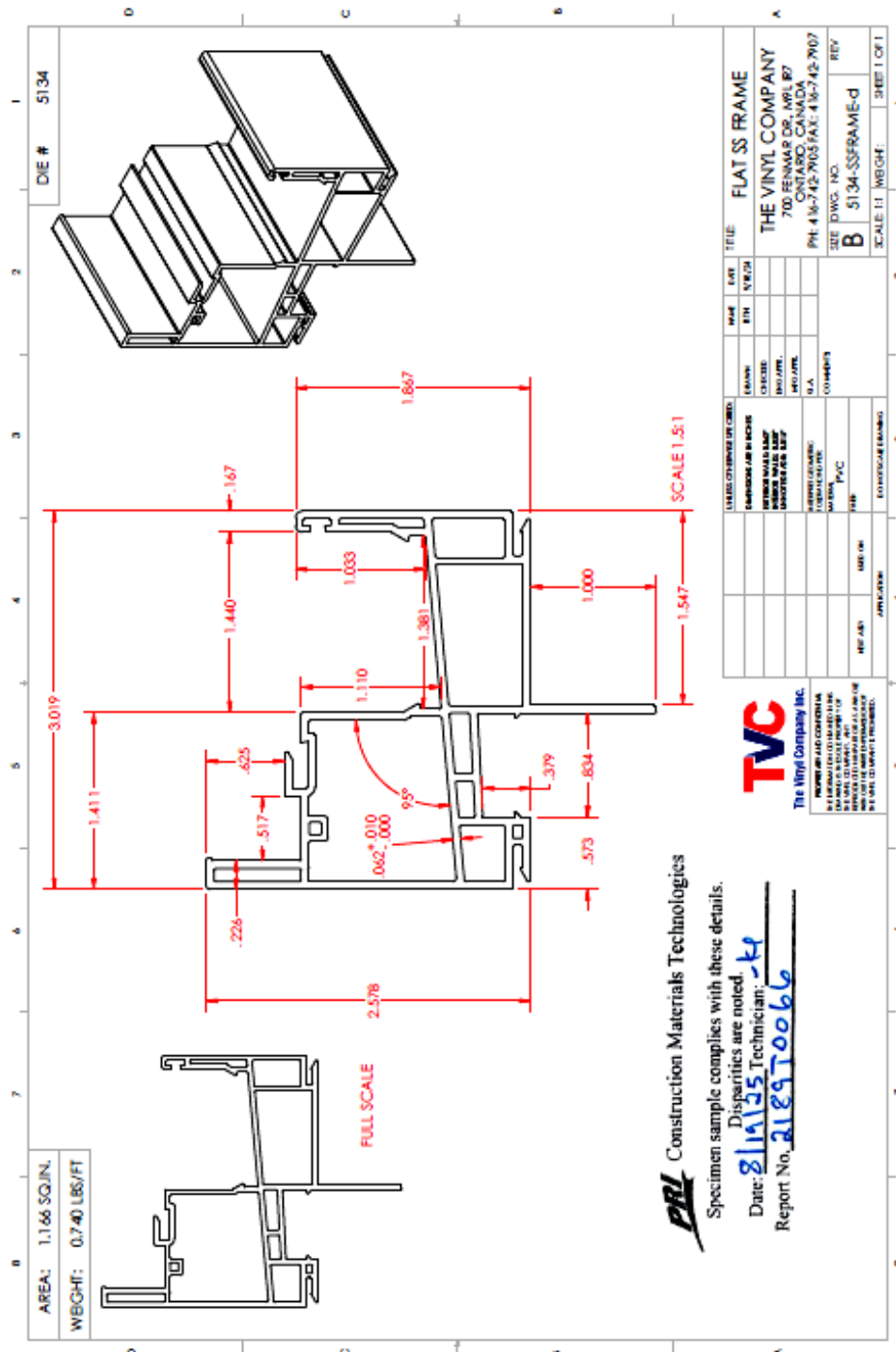
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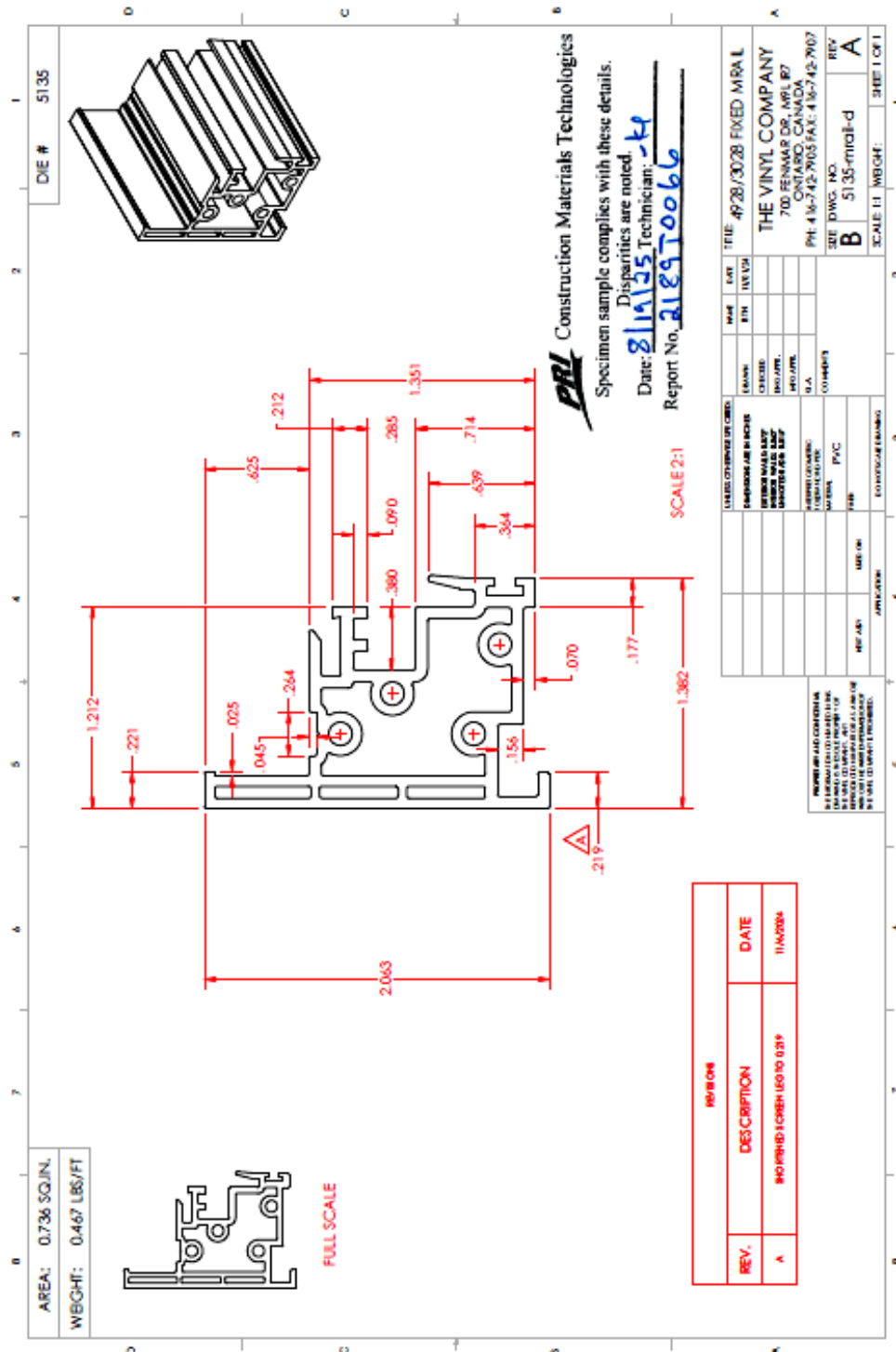
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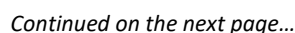
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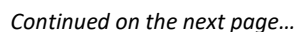
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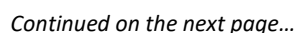
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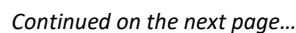
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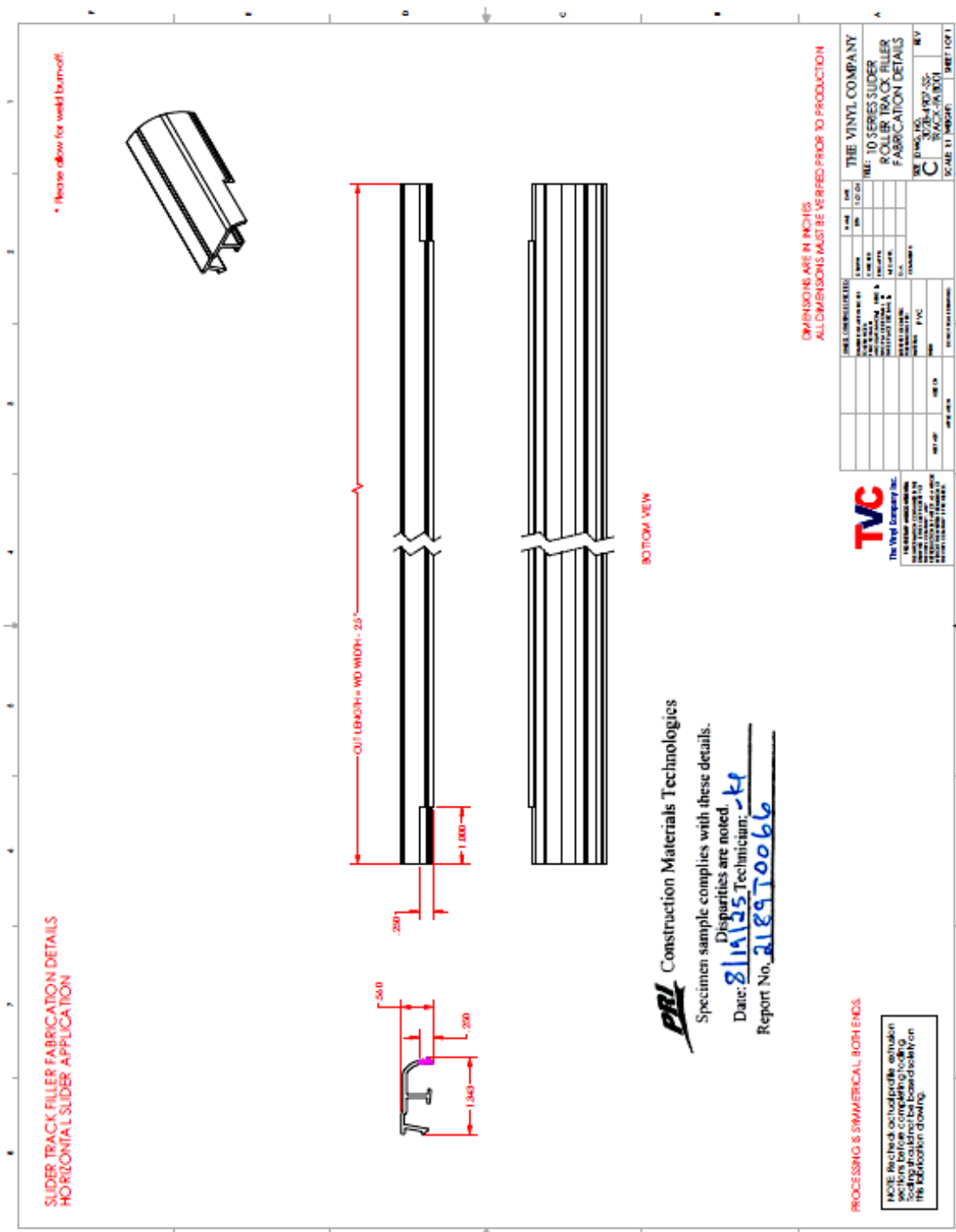
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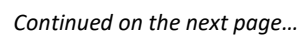
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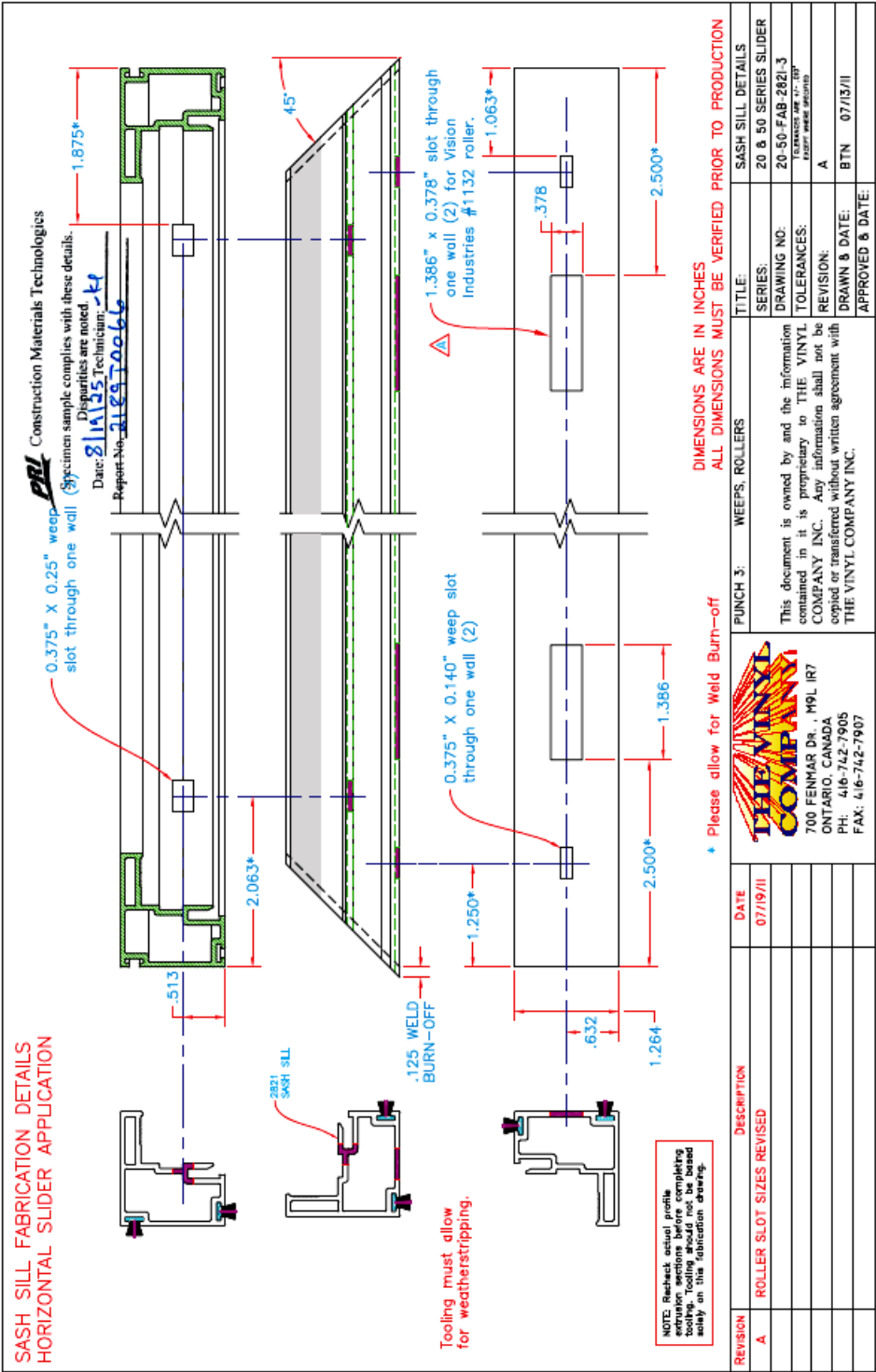
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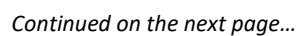
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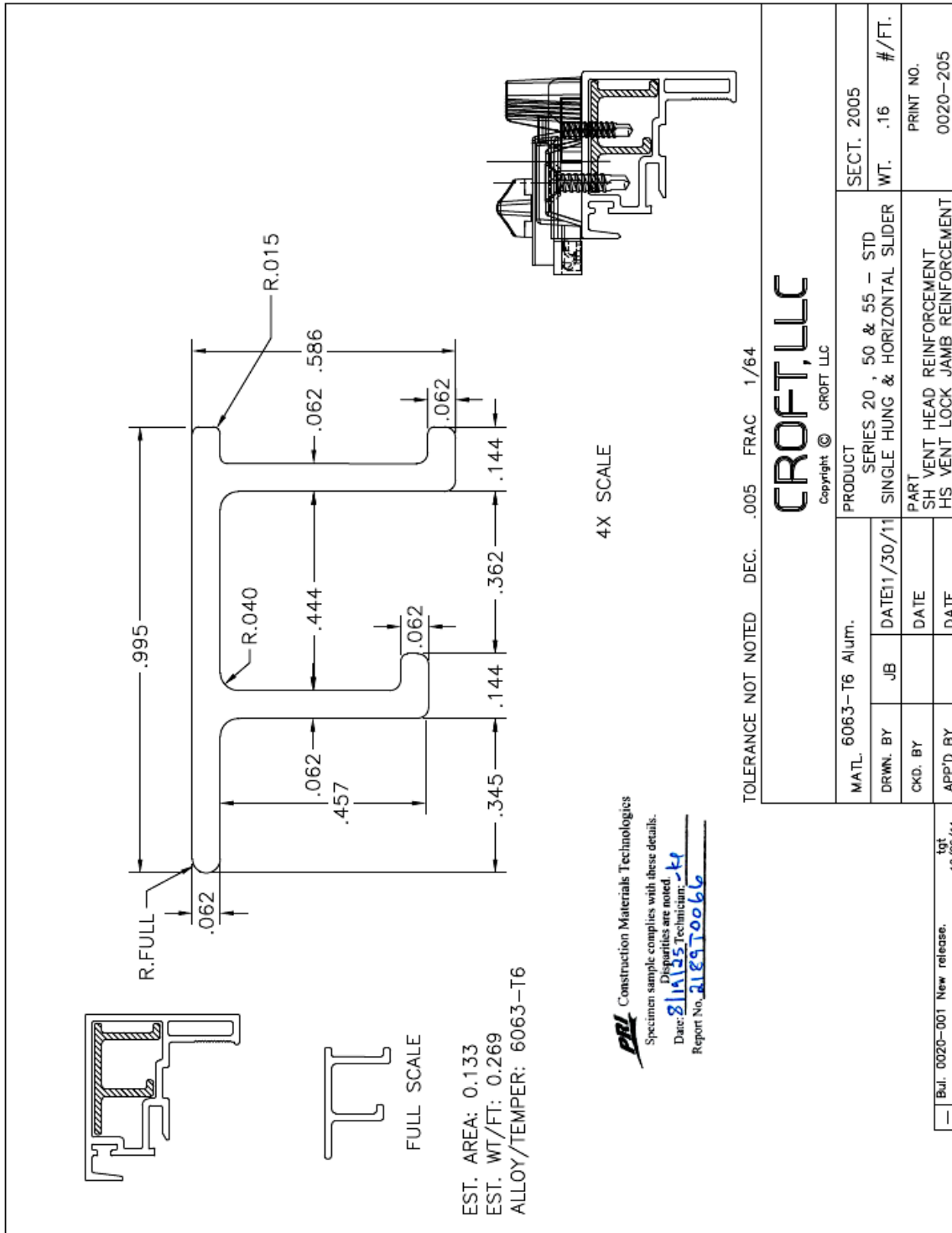
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End of Report

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