

AAMA 1801 SOUND TRANSMISSION LOSS TEST REPORT

Rendered to:

MI WINDOWS AND DOORS, INC.

SERIES/MODEL: 3500

TYPE: Fixed Window

	Summary of Test Results							
ATI Data File No.	Glazing Option (Nominal Dimensions)	Air Infiltration	STC	OITC				
75310.01A	13/16" IG (1/8" annealed exterior, 1/2" air space, 3/16" annealed interior) Glass temperature - 74F	Pass	31	26				
75310.01B	27/32" IG (3/32" annealed exterior, 5/8" air space, 1/8" annealed interior) Glass temperature - 74F	Pass	29	24				

Reference should be made to ATI Report No. 75310.01-113-01 for complete test specimen description. The complete test results are listed in Appendix B.

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ACOUSTICAL PERFORMANCE TEST REPORT

Rendered to:

MI WINDOWS AND DOORS, INC. P.O. Box 370 650 West Market Street Gratz, Pennsylvania 17030-0370

Report No: 75310.01-113-11
Test Date: 10/10/07
Report Date: 11/01/07
Expiration Date: 10/10/11

Test Sample Identification:

Series/Model: 3500

Type: Fixed Window

Performance Class: Residential

Overall Size: 48" by 48"

Glazing Option A (Nominal Dimensions): 13/16" IG (1/8" Annealed Exterior, 1/2" Air

Space, 3/16" Annealed Interior)

Glazing Option B (Nominal Dimensions): 27/32" IG (3/32" Annealed Exterior, 5/8" Air

Space, 1/8" Annealed Interior)

Project Scope: Architectural Testing, Inc. was contracted by MI Windows and Doors, Inc. to conduct air leakage and sound transmission loss tests on a Series/Model 3500, fixed window with two glazing options. A summary of the results is listed in the Test Results section and the complete test data is included as Appendix B of this report. The samples were provided by the client.

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Test Methods: The acoustical test was conducted in accordance with the following:

AAMA 1801-07, Acoustical Rating of Windows, Doors, and Glazed Wall Sections.

ASTM E 1425-91 (Re-approved 1999), Standard Practice for Determining the Acoustical Performance of Exterior Windows and Doors.

ASTM E 90-04, Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions.

ASTM E 413-04, Classification for Rating Sound Insulation.

ASTM E 1332-90 (Re-approved 2003), Standard Classification for Determination of Outdoor-Indoor Transmission Class.

ASTM E 283-04, Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.

ASTM E 2235-04, Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods.

Test Equipment: The equipment used to conduct these tests meets the requirements of ASTM E 90. The microphones were calibrated before conducting sound transmission loss tests. The test equipment and test chamber descriptions are listed in Appendix A.

Sample Installation:

Sound transmission loss tests were initially performed on a filler wall that was designed to test 48" by 72" and 72" by 48" specimens. The filler wall achieved an STC rating of 64.

A filler wall reducing element (STC 64) was used to reduce the test opening size to 48-1/2" wide by 48-1/2" high. The reducing element consisted of a double 2x4 wood stud wall construction with two layers of 5/8" drywall on both sides. The stud cavities in the wall were insulated with two layers of R-13 fiberglass insulation. The window was placed on a foam isolation pad in the new test opening. Duct seal was used to seal the perimeter of the window to the test opening on both sides. The interior side of the window frame, when installed, was approximately 1/4" from being flush with the receiving room side of the filler wall. A stethoscope was used to check for any abnormal air leaks around the test specimen prior to testing.



Test Procedure:

Air Leakage Test - A negative pressure of 1.57 psf was applied inside the chamber that was placed around the interior side of the window. The total air leakage and extraneous air leakage measurements were used to calculate the specimen air leakage. Barometric pressure corrections were applied to the air leakage calculations.

Sound Transmission Loss Test - One background noise sound pressure level and five sound absorption measurements were conducted at each of the five microphone positions. Two sound pressure level measurements were made simultaneously in both rooms, at each of the five microphone positions. The air temperature and relative humidity conditions were monitored and recorded during the background, absorption, source, and receive room measurements.

Sample Descriptions:

Frame Construction:

		Frame
Size		48" by 48"
Th	ickness	3-1/4"
Co	rners	Mitered
	Fasteners	Welds
	Seal Method	None
Ma	nterial	Vinyl
	Reinforcement	N/A
	Thermal Break Material	N/A
Da	ylight Opening Size	44-1/8" by 44-1/16"



Sample Descriptions: (Continued)

Glazing Option A:

Measured Overall Insulation Glass Unit Thickness		0.791"
Spacer Type	Reinforced butyl	

	Exterior Sheet	Gap	Interior Sheet
Measured Thickness	0.117"	0.499"	0.175"
Muntin Pattern	N/A	N/A	N/A
Material	Annealed	Air*	Annealed
Laminate Material	N/A	N/A	N/A

Glazing Method	Interior
Glazing Material	Silicone
Glazing Bead Material	Vinyl

Glazing Option B:

Measured Overall Insulation Glass Unit Thickness		0.835"
Spacer Type	Reinforced butyl	

	Exterior Sheet	Gap	Interior Sheet
Measured Thickness	0.082"	0.638"	0.115"
Muntin Pattern	N/A	N/A	N/A
Material	Annealed	Air*	Annealed
Laminate Material	N/A	N/A	N/A

Glazing Method	Interior		
Glazing Material	Double sided adhesive foam tape		
Glazing Bead Material	Vinyl		

 $^{*-}Stated\ per\ Client/Manufacturer,\ N/A-Non\ Applicable$



Sample Descriptions: (Continued)

Components:

	ТҮРЕ	QUANTITY	LOCATION			
We	Weatherstrip					
	No weatherstrip					
Ha	Hardware					
	No hardware					
Dra	Drainage					
	1" by 1/8" weepslot	4	Sill			

Comments: The weight of the sample with glazing option A was 50 lbs. The weight of the sample with glazing option B was 68 lbs. The design drawings (included in Appendix C) supplied by the client, accurately describe the Series/Model 3500, fixed window. The dimensions on the drawings that are circled and/or checked were verified against the test specimen. The fixed window was disassembled, and the components will be retained by ATI for four years. Photographs of the test specimen are included in Appendix D.

Test Results: The STC (Sound Transmission Class) rating was calculated in accordance with ASTM E 413. The OITC (Outdoor-Indoor Transmission Class) was calculated in accordance with ASTM E 1332. A summary of the air leakage and sound transmission loss test results on the Series/Model 3500, fixed window is listed below.

ATI Data File No.	Glazing Option (Nominal Dimensions)	Air Infiltration	STC	OITC
75310.01A	13/16" IG (1/8" annealed exterior, 1/2" air space, 3/16" annealed interior) Glass temperature - 74F	Pass	31	26
75310.0B	27/32" IG (3/32" annealed exterior, 5/8" air space, 1/8" annealed interior) Glass temperature - 74F	Pass	29	24

^{*} The maximum allowable air leakage rate, according to AAMA/WDMA/CSA 101/I.S.2/A440, is 0.3 cfm/ft² when the test pressure is 1.57 psf for Residential performance class, fixed windows.

The complete test results are listed in Appendix B. Flanking limit tests and reference specimen tests are available upon request.



Detailed drawings, data sheets, representative samples of test specimens, a copy of this report, or other pertinent project documentation will be retained by Architectural Testing, Inc. for a period of four years from the original test date. At the end of this retention period, such materials shall be discarded without notice and the service life of this report will expire. Results obtained are tested values and were secured by using the designated test methods. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimen(s) tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC:

Kurt A. Golden

Senior Technician - Acoustical Testing

Todd D. Kister Laboratory Supervisor - Acoustical Testing

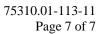
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Attachments (pages): This report is complete only when all attachments listed are included.

Appendix-A: Equipment description (1) Appendix-B: Complete test results (6)

Appendix-C: Drawings (12) Appendix-D: Photographs (1)







Revision Log

<u>Rev. #</u>	Date	Page(s)	Revision(s)
0	11/01/07	N/A	Original Report Issue



Appendix A

Instrumentation:

Instrument	Manufacturer	Model	Description	ATI Number
Analyzer	Agilent Technologies	35670A	Dynamic signal analyzer	Y002929
Receive Room Microphone	G.R.A.S.	40AR	1/2", pressure type, condenser microphone	Y003246
Source Room Microphone	G.R.A.S.	40AR	1/2", pressure type, condenser microphone	Y003245
Receive Room Preamp	G.R.A.S.	26AK	1/2" preamplifier	Y003249
Source Room Preamp	G.R.A.S.	26AK	1/2" preamplifier	Y003248
Microphone Calibrator	Bruel & Kjaer	4228	Pistonphone calibrator	Y002816
Noise Source	Delta Electronics	SNG-1	Two, non-coherelated "Pink" noise signals	Y002181
Equalizer	Rane	RPE228	Programmable EQ	Y002180
Power Amplifiers	Renkus-Heinz	P2000	2 - Amplifiers	Y002179 Y001779
Receive Room Loudspeakers	Renkus-Heinz	Trap Jr/9"	2 - Loudspeakers	Y001784 Y001785
Source Room Loudspeakers	Renkus-Heinz	Trap Jr/9"	2 - Loudspeakers	Y002649 Y002650
Lab Pack	ATI	N/A	Air leakage apparatus	Y000370

Test Chamber:

	Volume	Description
Receiving Room	8291.3 ft ³ (234 m ³)	Rotating vane and stationary diffusers. Temperature and humidity controlled. Isolation pads under the floor.
Source Room	7296.3 ft ³ (206.6 m ³)	Stationary diffusers only. Temperature and humidity controlled.

		Maximum Size	Description
TI Te	Test Opening 14 ft wide by 10 ft high		Vibration break between source and receive
	st Opening	14 It wide by 10 It high	rooms.



Appendix B

Complete Test Results



SOUND TRANSMISSION LOSS

ASTM E90

Architectural Testing

ATI No. 75310.01A **Date** 10/10/07

Client MI Windows and Doors, Inc.

Specimen Series/Model 3500, fixed window with 13/16" IG (1/8" annealed exterior, 1/2" air space,

3/16" annealed interior), Glass temperature 74F

Specimen Area16.00 Sq FtFiller Area124.00 Sq FtOperatorKurt A. Golden

	Bkgrd	Absorp	Source	Receive	Filler	Specimen
Temp F	74.4	75.8	74.1	74.8	71.8	74.8
RH %	44.7	42.2	44.7	43.8	62.9	43.8

	Bkgrd	Absorp	Source	Receive	Filler	Specimen	95%	No. of	Trans
Freq	SPL	(Sabines	SPL	SPL	TL	TL	Conf	Defici-	Coef
(Hz)	(dB)	/Sq Ft)	(dB)	(dB)	(dB)	(dB)	Limit	encies	Diff
80	47.0	49.9	86.3	57.9	36.1	25	1.64	0	3.7
100	41.5	60.7	88.5	64.6	39.3	18	3.72	0	12.3
125	41.6	50.7	94.4	64.4	45.7	25	3.26	0	11.7
160	42.6	49.9	95.6	68.2	45.8	23	1.48	0	14.4
200	41.7	49.3	100.3	74.3	48.9	21	0.92	0	19.0
250	38.5	51.3	101.4	77.3	51.4	19	1.91	5	23.4
315	36.3	57.8	99.8	70.4	54.0	24	0.70	3	21.3
400	33.4	60.7	99.7	70.9	57.4	23	0.65	7	25.5
500	31.9	57.6	100.9	69.1	60.4	26	0.65	5	25.3
630	29.6	60.3	103.2	68.6	65.4	29	0.63	3	27.8
800	26.3	60.9	103.1	64.0	66.4	33	0.64	0	24.2
1000	26.2	63.8	102.4	60.7	72.1	36	0.55	0	27.5
1250	24.7	70.2	106.0	60.9	77.8	39	0.34	0	30.2
1600	19.9	72.2	112.3	66.8	82.9	39	0.35	0	35.0
2000	16.6	76.6	108.2	61.4	82.2	40	0.48	0	33.3
2500	13.9	88.3	106.6	60.7	77.7	39	0.19	0	30.3
3150	11.6	105.2	107.4	64.1	80.1	35	0.39	0	36.1
4000	10.8	130.1	106.0	63.6	82.2	33	0.47	2	39.9
5000	9.6	170.9	104.5	57.5	80.8	37	0.55	0	35.3

STC Rating = 31 (Sound Transmission Class)

Deficiencies = 25 (Number of deficiencies versus contour curve)

OITC Rating = 26 (Outdoor/Indoor Transmission Class)

Note: The acoustical chambers are qualified for measurements down to 80 hertz.

Data reported below 80 hertz is for reference only.





Architectural Testing

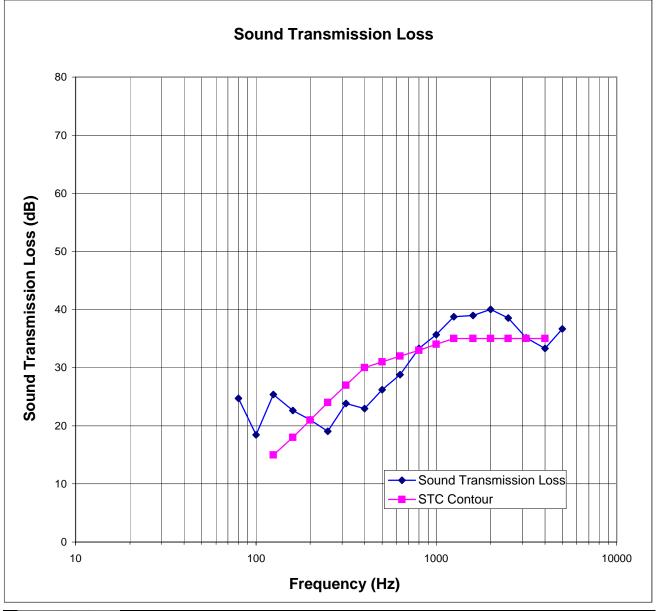
ATI No. 75310.01A **Date** 10/10/07

Client MI Windows and Doors, Inc.

Specimen Series/Model 3500, fixed window with 13/16" IG (1/8" annealed exterior, 1/2" air space,

3/16" annealed interior), Glass temperature 74F

Specimen Area 16.00 Sq Ft Filler Area 124.00 Sq Ft Operator Kurt A. Golden





AAMA 1801 Data Sheet

ATI Job Number: 75310.01-113-11-A

Client Name: MI Windows and Doors, Inc.

Test Date: 10/10/07
Tests Performed by: Kurt Golden
Specimen Type: Fixed Window

Series/Model Number: 3500 Sample Size: 48" x 48"

Air Leakage per ASTM test method ASTM E283

Total Air flow (ft³/min): 5.00 Extraneous Leakage (ft3/min): 4.75 Temperature (°F) at Specimen: 72

Barometric Pressure at Specimen (in mbar): 1002 (Inches of Hg): 29.59

Specimen Area in square feet: 16.00

Density of air at reference standard conditions (lb/ft') 0.075

Total air flow	Extraneous leakage	Air leakage through the specimer	Rate of air leakage
w/ air density correction	with air density correction	with air density correction	per unit area
(ft3/min)	(ft3/min)	(ft3/min)	(ft3/min)/sq.ft.
4.958	4.710	0.248	0.02

Architectural Testing



SOUND TRANSMISSION LOSS

ASTM E90

Architectural Testing

ATI No. 75310.01B **Date** 10/10/07

Client MI Windows and Doors, Inc.

Specimen Series/Model 3500, fixed window with 27/32" IG (3/32" annealed exterior, 5/8" air space,

1/8" annealed interior), Glass temperature 74F

Specimen Area 16.00 Sq Ft Filler Area 124.00 Sq Ft Operator Kurt A. Golden

	Bkgrd	Absorp	Source	Receive	Filler	Specimen
Temp F	74.4	76.0	74.1	75.0	71.8	74.9
RH %	42.2	41.1	40.8	42.3	62.9	41.6

	Bkgrd	Absorp	Source	Receive	Filler	Specimen	95%	No. of	Trans
Freq	SPL	(Sabines	SPL	SPL	TL	TL	Conf	Defici-	Coef
(Hz)	(dB)	/Sq Ft)	(dB)	(dB)	(dB)	(dB)	Limit	encies	Diff
80	41.1	54.8	86.8	57.5	36.1	25	2.58	0	3.3
100	39.1	53.8	88.6	65.2	39.3	18	3.27	0	12.4
125	39.6	46.8	94.4	66.6	45.7	23	3.12	0	13.6
160	44.7	49.3	95.7	70.4	45.8	20	1.56	0	16.4
200	43.9	54.2	100.4	76.2	48.9	19	1.09	0	21.1
250	36.8	57.5	101.6	78.5	51.4	18	1.82	4	25.0
315	36.2	62.6	99.7	75.8	54.0	18	0.60	7	27.2
400	35.3	60.3	99.6	73.6	57.4	20	0.62	8	28.2
500	33.6	60.6	100.9	73.2	60.4	22	0.52	7	29.6
630	29.9	59.4	103.3	72.1	65.4	25	0.62	5	31.1
800	27.8	61.0	103.0	67.3	66.4	30	0.61	1	27.6
1000	27.0	65.0	102.5	63.3	72.1	33	0.64	0	30.1
1250	26.4	70.1	106.2	63.3	77.8	37	0.22	0	32.4
1600	21.7	70.2	112.5	68.2	82.9	38	0.24	0	36.2
2000	15.6	76.7	108.2	61.7	82.2	40	0.48	0	33.6
2500	7.9	90.1	106.6	57.6	77.7	42	0.19	0	27.3
3150	7.6	106.4	107.5	57.3	80.1	42	0.34	0	29.3
4000	6.8	132.9	106.1	60.1	82.2	37	0.45	0	36.4
5000	7.1	174.3	104.4	58.5	80.8	36	0.39	0	36.4

STC Rating = 29 (Sound Transmission Class)

Deficiencies = 32 (Number of deficiencies versus contour curve)

OITC Rating = 24 (Outdoor/Indoor Transmission Class)

Note: The acoustical chambers are qualified for measurements down to 80 hertz.

Data reported below 80 hertz is for reference only.





Architectural Testing

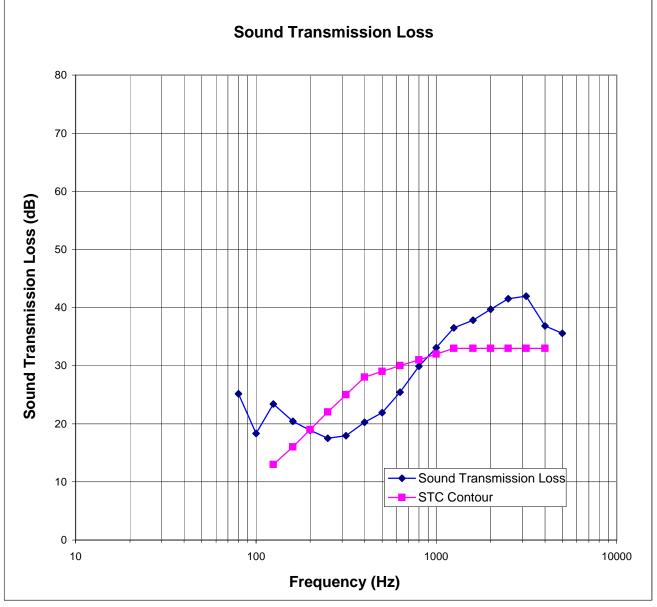
ATI No. 75310.01B **Date** 10/10/07

Client MI Windows and Doors, Inc.

Specimen Series/Model 3500, fixed window with 27/32" IG (3/32" annealed exterior, 5/8" air

space, 1/8" annealed interior), Glass temperature 74F

Specimen Area 16.00 Sq Ft Filler Area 124.00 Sq Ft Operator Kurt A. Golden





AAMA 1801 Data Sheet

ATI Job Number: 75310.01-113-11-B

Client Name: MI Windows and Doors, Inc.

Test Date: 10/10/07
Tests Performed by: Kurt Golden
Specimen Type: Fixed Window

Series/Model Number: 3500 Sample Size: 48" x 48"

Air Leakage per ASTM test method ASTM E283

Total Air flow (ft³/min): 10.25 Extraneous Leakage (ft3/min): 10.00 Temperature (°F) at Specimen: 72

Barometric Pressure at Specimen (in mbar): 1002 (Inches of Hg): 29.59

Specimen Area in square feet: 16.00

Density of air at reference standard conditions (lb/ft³) 0.075

-			
Total air flow	Extraneous leakage	Air leakage through the specimer	Rate of air leakage
w/ air density correction	with air density correction	with air density correction	per unit area
(ft3/min)	(ft3/min)	(ft3/min)	(ft3/min)/sq.ft.
10.164	9.916	0.248	0.02

Architectural Testing



Appendix C

Design Drawings

3500/3540 Picture Window Bill of Materials

1	V-536	Architect	Uneeda Kol HB Fuller Varies TCP Metals All Metal	Varies	Mili Black Clear Mili Mili Gray Clear White/Almond White/Almond Black Black White White White White White White White White	G3MM GHL5153A-149SSR55 GHL5157-125 NJA G2132RT G1932RT GHL5153B-125 S300 G-304 G-304 G-206007-018 G-D6007-018 G-11851 G-11852 G-11852 G-12364 G-12364 G-12364 G-12364 G-12811	lass (7/8" Overall) - Screw - Sealant - Sealant es pacer (19/32") - SSB pacer (21/32") - DSB pacer (21/32") - DSB ds: ds: Clips Clips Clips (21/32 .625 x 3/16) Ilps (19/32 .625 x 3/16) Ilps (19/32 .13/16 x 3/16) Ilps (19/32 .13/16 x 3/16) Ilps (19/32 .13/16 x 3/16) Ilps (21/32 .13/16 x 3/16) Ilps (21/32 .13/16 x 3/16)
V-538	V.538 VahisAlmond 1 Projestic V.538 VahisAlmond 1 Projestic V.538 VahisAlmond 1 Projestic V.538 VahisAlmond 1 Projestic V.538 V.634 VahisAlmond 1 Projestic V.736 VahisAlmond 2 Projestic V.736 VahisAlmond 1 Projestic V.736 VahisAlmond 1 Projestic V.736 VahisAlmond 1 Projestic V.736 VahisAlmond 1 Projestic Valida Valida	Architectu	Uneeda Kol HB Fuller Varies TCP Metals All Metal	Varies	Mili Clear Cliear Mili Mili Gray Clear Clear White/Almond White/Almond White/Almond White	G3MM GHL5153A-149SSR56 GHL5157-125 NJA G2132RT G1932RT GHL5153B-125 S300 G-304 V-324 V-324 V-324 V-324 V-324 G-D6007-018 G-D6007-018 G-11851 G-11852 G-11852 G-11852 G-11852 G-12364	ass (7/8" Overall) - Screw - Sealant - Sealant es pacer (19/32") - SSB pacer (21/32") - DSB pacer (21/32") - DSB ds: Clips Clips Clips (21/32 .625 x 3/16) ds: Clips (21/32 .625 x 3/16) ds: Clips (21/32 .625 x 3/16)
V-338	V338	Architectu	Uneeda Kol HB Fuller HB Fuller Varies TCP Metals TCP Metals TCP Metals TCP Metals TCP Metals TCP Metals All Metal	Varies	Mili Black Clear Clear Mili Mili Gray Clear White/Almond White/Almond White/Almond White/Almond White/Imond Clear White White White White White White Clear	G3MM GHL5153A-149SSR55 GHL5157-125 NJA G2132RT G1932RT GHL5153B-125 S300 G-304 G-304 V-324 V-324 V-324 V-324 G-D6007-018 G-D6007-018 G-11851 G-11852 G-11852 G-11852	ass (7/8" Overall) - Screw - Screw - Sealant - Sealant es pacer (19/32") - SSB pacer (21/32") - DSB pacer (21/32") - DSB k - Rubber (3/16 x 7/8 x 7/8)
V-338	VS39		Uneeda Kol HB Fuller Varies TCP Metals TCP Metals TCP Metals TCP Motals TCP Metals TCP Metals TCP Metals All Metal	Varies	Mili Black Clear Mili Mili Gray Clear White/Almond White/Almond Uhite/Almond Clear White White White	G3MM GHL5153A-149SSR55 GHL5157-125 NJA G2132RT G1932RT GHL5153B-125 S300 G-304 G-304 V-324 V-324 V-324 V-324 G-D6007-018 G-D6007-018 G-11851 G-11852 G-11852	ass (7/8" Overall) - Screw - Screw - Sealant - Sealant es pacer (19/32") - SSB pacer (21/32") - DSB pacer (21/32") - DSB k - Rubber (3/16 x 7/8 x 7/8)
V-338	V-538		Uneeda Kol HB Fuller HB Fuller Varies TCP Metals All Metal All Metal All Metal	Varies Varies Varies Varies Varies Varies Varies	Mili Clear Clear Mill Gray Clear White/Almond White/Almond	G3MM GHL5153A-149SSR55 GHL5157-125 N/A G2132RT G1932RT GHL5153B-125 S300 G-304 V-324 V-324 V-324 V-324 G-D6007-018 G-11851 G-11851 G-11851 G-11852	ass (7/8" Overall) - Screw - Screw - Sealant - Sealant es pacer (19/32") - SSB pacer (21/32") - DSB pacer (21/32") - DSB ds: ds: Clips Clips Clips (19/32 .625 x 3/16) lips (21/32 .625 x 3/16)
V-538 White/Almond 1 Proplasity V-784 White/Almond 1 Proplasity V-785 White/Almond 1 Proplasity 3640 Only V-786 White/Almond 1 Proplasity 3640 Only V-787 White/Almond 1 Proplasity 3640 Only V-788 White/Almond 2 Proplasity 3640 Only V-788 White/Almond 1 Proplasity 3640 Only V-788 White/Almond 1 Proplasity 3640 Only V-788 White/Almond 1 Proplasity 3640 Only V-788 White/Almo	V-538		Uneeda Kol HB Fuller HB Fuller Varies TCP Metals TCP Metals TCP Metals HB Fuller Tremco Tremco Proplastix Proplastix Proplastix Secon All Metal All Metal	Varies Varies Varies Varies Varies Varies	Mili Clear Mili Gray Clear Mill Mill Mill Mill Mill White/Almond White/Almond White/Almond Clear White	G3MM GHL5153A-149SSR56 GHL5157-125 NJA G2132RT G1932RT GHL5153B-125 S300 G-304 V-324 V-324 V-324 V-324 V-324 G-D6007-018 G-11851 G-11851 G-11851	ass (7/8" Overall) - Screw - Sealant - Sealant es pacer (19/32") - SSB pacer (21/32") - DSB pacer (21/32") - DSB ds: clips ds: ds: ds: ds: ds: ds: ds: ds: ds: ds
V-538 White/Almond 1 Proplastix V-634 White/Almond 1 Proplastix V-768 White/Almond 1 Proplastix 3940 Only V-538 V-538 White/Almond 2 Proplastix 3940 Only V-538 White/Almond 1 Proplastix 3940 Only V-738 White/Almond 1 Proplastix 3940 Only V-739 White/Almond 1 Proplastix 3940 Only V-739	V-538		Uneeda Kol HB Fuller HB Fuller Varies TCP Metals All Metal	Varies Varies Varies Varies Varies	Mili Black Clear Mili Mill Gray Clear Mill Mill White/Almond White/Almond White/Almond White/Almond White/Almond White/Almond	G3MM GHL5153A-149SSR56 GHL5157-125 N/A G2132RT G1932RT GHL5153B-125 S300 G-304 V-324 V-324 V-324 V-324 G-D6007-018 G188 G188 G165 G165	ass (7/8" Overall) - Screw - Sealant - Sealant es pacer (19/32") - SSB pacer (21/32") - DSB pacer (21/32") - DSB ds: ds: Clips C
V-538 Write/Almond 1 Proplastix V-2834 Write/Almond 1 Proplastix V-2836 Write/Almond 1 Proplastix V-2836 Write/Almond 2 Proplastix V-338 Washe/Almond 1 Proplastix V-338 Write/Almond 1 Proplastix V-338 Write/Almond 1 Proplastix V-238 Write/Almond 1 Proplastix <	V-538		Uneeda Kol HB Fuller Varies TCP Metals TCP Metals TCP Metals TRemco Tremco Tremco Proplastix Proplastix Proplastix Proplastix Proplastix	Varies Varies Varies Varies Varies	Mili Clear Clear Mill Mill Gray Clear Mill Mill Mill Mill White/Almond White/Almond White/Almond	G3MM GHL5153A-149SSR56 GHL5157-125 N/A G2132RT G1932RT GHL5153B-125 S300 G-304 V-324 V-324 V-324 Q-D6007-018	ass (7/8" Overall) - Screw - Sealant - Sealant es pacer (19/32") - SSB pacer (21/32") - DSB pacer (21/32") - DSB ds: ds: ds:
V-538 White/Almond 1 Proplastix V-4934 White/Almond 1 Proplastix V-288 White/Almond 1 Proplastix V-288 White/Almond 2 Proplastix V-238 VASA White/Almond 1 Proplastix V-238 White/Almond 1 Proplastix 3540 Only V-238 White/Almond 1 Uneeds Bolt	V-536		Uneeda Kol HB Fuller Varies TCP Metals TCP Metals TCP Metals Proplastix Proplastix Proplastix Proplastix	1 1 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Mili Black Clear Mili Mill Gray Clear Mill Mill White/Almond White/Almond Black	G3MM GHL5153A-149SSR56 GHL5157-125 N/A G2132RT G1932RT GHL5153B-125 S300 G-304 V-324 V-324 V-324 G-D6007-018	ass (7/8" Overall) - Screw - Sealant - Sealant es pacer (19/32") - SSB pacer (21/32") - DSB pacer (21/32") - DSB ds: ds: k - Rubber (3/16 x 7/8 x 7/8)
V-538	V-538	If width <48" and height <18" or If width <18" and height <48"	Uneeda Kol HB Fuller HB Fuller Varies TCP Metals TCP Metals HB Fuller Tremco Tremco Proplastix Proplastix Proplastix	Varies Varies Varies	Mili DBlack Clear Clear Mili Mili Gray Clear Clear White/Almond White/Almond Black	G3MM GHL5153A-149SSR55 GHL5157-125 N/A G2132RT G1932RT GHL5153B-125 S300 G-304 G-304 G-304 G-304 G-304 G-206007-018	ass (7/8" Overall) - Screw - Sealant es pacer (19/32") - SSB pacer (21/32") - DSB bes bes ds:
V-538	V-538	If width <48" and height <18" or If width <18" and height <48"	Uneeda Kol HB Fuller Varies TCP Metals TCP Metals TCP Metals TCP Metals Tremco Tremco	2 2 1 1 1 2 2 2 1 1 1 1 2 2 2 1 1 1 1 1	Mili DBlack Clear Clear Mili Mili Gray Clear Clear White/Almond White/Almond	G3MM GHL5153A-149SSR55 GHL5157-125 N/A G2132RT G1932RT G1932RT GHL5153B-125 S300 G-304 V-324 V-324	ass (7/8" Overall) - Screw - Sealant es pacer (19/32") - SSB pacer (21/32") - DSB pacer (21/32") - DSB
R. Channel V-538	V-338	If width <48" and height <18" or If width <18" and height <48"	Uneeda Kol HB Fuller Varies TCP Metals TCP Metals TCP Metals TCP metals Tremco Tremco	Varies 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mill Clear Clear Mill Gray Clear Mill Gray Clear White/Almond	G3MM GHL5153A-149SR55 GHL5157-125 N/A G2132RT G1932RT G1932RT GHL5153B-125 S300 G-304 V-324	ass (7/8" Overall) - Screw - Sealant es pacer (19/32") - SSB pacer (21/32") - DSB bes bes ds:
Figure	V-538	If width <48" and height <18" or If width <18" and height <48"	Uneeda Kol HB Fuller Varies TCP Metals TCP Metals TCP Metals TCP Metals	1 1 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mill Black Clear Clear Mill Mill Gray Clear Mill Gray Clear	G3MM GHL5153A-149SSR55 GHL5157-125 N/A G2132RT G1932RT GHL5153B-125 S300 G-304	ass (7/8" Overall) - Screw - Screw - Sealant es pacer (19/32") - SSB pacer (21/32") - DSB bes bes
No J Channel V-538	V-538 Vinite/Almond 1 Proplastix V-634 Vinite/Almond 1 Proplastix V-634 Vinite/Almond 1 Proplastix V-636 Vinite/Almond 2 Proplastix V-636 Vinite/Almond 1 Proplastix V-736 V-736 V-736	If width <48" and height <18" or If width <18" and height <48"	Uneeda Kol HB Fuller HB Fuller Varies TCP Metals TCP Metals HB Fuller Tremco	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mili Black Clear Clear Mill Gray Mill Mill	G3MM GHL5153A-149SR56 GHL5157-125 N/A G2132RT G1932RT GHL5153B-125 S300 G-304	ass (7/8" Overall) - Screw - Sealant es pacer (19/32") - SSB pacer (21/32") - DSB pacer (21/32") - DSB
V-538	V-338		Uneeda Bol HB Fuller HB Fuller Varies TCP Metals TCP Metals HB Fuller Tremco	1 1 1 1 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1	Mill DBlack Clear Clear Mill Mill Gray Clear	G3MM GHL5153A-149SSR55 GHL5157-125 N/A G2132RT G1932RT GHL5153B-125 S300	ass (7/8" Overall) - Screw - Sealant es pacer (19/32") - SSB pacer (21/32") - DSB
V-538	V-534 White/Almond 1 Proplastix V-834 V-834 White/Almond 1 Proplastix V-786 White/Almond 1 Proplastix V-538 V-538 White/Almond 1 Proplastix V-538 V-538 White/Almond 1 Proplastix V-786 White/Almond 1 Proplastix V-78		Uneeda Bol HB Fuller HB Fuller Varies TCP Metals TCP Metals HB Fuller	Varies 2	Mill DBlack Clear Clear Mill Mill Mill Gray	G3MM GHL5153A-149SSR55 GHL5157-125 N/A G2132RT G1932RT GHL5153B-125	ass (7/8" Overall) - Screw - Sealant - Sealant pacer (19/32") - SSB pacer (21/32") - DSB
V-538	V-538		Uneeda Bol HB Fuller HB Fuller Varies TCP Metals	N N N	Mill DBlack Clear Clear Mill	G3MM GHL5153A-1498SR58 GHL5157-125 GHL5157-125 N/A G2132RT G1932RT	ass (7/8" Overall) - Screw - Sealant es pacer (19/32") - SSB pacer (21/32") - DSB
V-538 White/Almond 1 Proplastix 3540 Only V-264 VABAGA White/Almond 1 Proplastix 3540 Only V-265 V-384 White/Almond 2 Proplastix 3540 Only V-538 V-634 White/Almond 1 Proplastix 3540 Only V-538 V-786 White/Almond 1 Proplastix 3540 Only V-786 White/Alm	V-538	s, Inc.	Uneeda Bol HB Fuller HB Fuller Varies Varies	N N	MIII DBlack Clear Clear Miii	G3MM GHL5153A-149SSR55 GHL5157-125 N/A G2132RT	ass (7/8" Overall) - Screw - Sealant es pacer (19/32") - SSB
V-538	V-538	s, Inc.	Uneeda Bol HB Fuller HB Fuller Varies	2	MIII DBIack Clear Clear	G3MM GHL5153A-1498SR49 GHL5157-125 N/A	ass (7/8" Overall) - Screw - Sealant es
V-538	V-538		Uneeda Bol HB Fuller HB Fuller		MIII DBlack Clear	G3MM GHL5153A-149SSR55 GHL5157-125	ass (7/8" Overall) - Screw - Sealant
V-538	V-538		Uneeda Bol HB Fuller	-	Mill Black	G3MM GHL5153A-149SSR55	ass (7/8" Overall) - Screw - Sealant
V-538	V-538		Uneeda Bol	-	Mill	G3MM	ass (7/8" Overall) - Screw
V-538	V-538	2	,				ass (7/8" Overall)
V-538 White/Almond 1 Proplastix V-634 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-538 V-538 White/Almond 2 Proplastix 3540 Only V-538 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-786 / White/Almond 1 Proplastix 3540 Only V-786 / White/Almond 1 Proplastix 3540 Only V-796 / V-786 / White/Almond 1 Proplastix 3540 Only V-798 / White/Almond 1 Proplastix 3540 Only V-	V-538 White/Almond 1 Proplastix V-538 White/Almond 1 Proplastix V-538 White/Almond 1 Proplastix V-538 White/Almond 2 Proplastix V-538 White/Almond 1 Proplastix V-736 V-736 V-736 White/Almond 1 Proplastix V-736 V-73			-			
V-538	V-538	3540 Only All Sizes	MI Metals		Mill	GM-1994	diate Jamb Reinforcement
V-538 V/hite/Almond 1 Proplastix V-634 V/hite/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-386 / V-634 White/Almond 1 Proplastix 3540 Only V-786 / V-786 / V-786 White/Almond 1 Proplastix 3540 Only V-786 / V-786 / V-786 / V-786 White/Almond <td> V-538 White/Almond 1 Proplastix V-634 White/Almond 1 Proplastix V-538 V-634 White/Almond 1 Proplastix V-538 V-634 White/Almond 2 Proplastix V-538 V-634 White/Almond 1 Proplastix V-538 V-538 White/Almond 1 Proplastix V-538 V-634 White/Almond 1 Proplastix V-538 V-634 White/Almond 1 Proplastix V-538 V-538 White/Almond 1 Proplastix V-538 V-634 White/Almond 1 Proplastix V-634 V-634 V-634 White/Almond 1 Proplastix V-634 V-63</td> <td></td> <td>Uneeda</td> <td>4</td> <td>Mil</td> <td>G-8A212</td> <td>Bottom - (8" x 2-1/2")</td>	V-538 White/Almond 1 Proplastix V-634 White/Almond 1 Proplastix V-538 V-634 White/Almond 1 Proplastix V-538 V-634 White/Almond 2 Proplastix V-538 V-634 White/Almond 1 Proplastix V-538 V-538 White/Almond 1 Proplastix V-538 V-634 White/Almond 1 Proplastix V-538 V-634 White/Almond 1 Proplastix V-538 V-538 White/Almond 1 Proplastix V-538 V-634 White/Almond 1 Proplastix V-634 V-634 V-634 White/Almond 1 Proplastix V-634 V-63		Uneeda	4	Mil	G-8A212	Bottom - (8" x 2-1/2")
V-538	V-538 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-538 V-634 White/Almond 2 Proplastix 3540 Only V-538 V-538 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-538 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-738 White/Almond 1 Proplastix 3540 Only V-739 White/Almond 2 Proplas		Uneeda	4	Mill	G-8A112	Top - (8" x 1-1/2")
V-538 White/Almond 1 Proplastix V-634 White/Almond 1 Proplastix V-786 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-786 / V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-736 / V-634 White/Almond 1 Proplastix 3540 Only V-736 / V-736 / V-736 White/Almond 1 Proplastix 3540 Only V-736 / V-736 / V-736 / V-736 / V-736 White/Almond <t< td=""><td>V-538 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-786 / V-786 White/Almond 1 Proplastix 3540 Only V-787 / V-786 White/Almond</td><td></td><td>Secon</td><td>2</td><td>White</td><td>3500PAD3</td><td>D3</td></t<>	V-538 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-786 / V-786 White/Almond 1 Proplastix 3540 Only V-787 / V-786 White/Almond		Secon	2	White	3500PAD3	D3
V-538 White/Almond 1 Proplastix V-634 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-786 / V-538 / V-534 White/Almond 1 Proplastix 3540 Only V-538 / V-534 / V-534 White/Almond 1 Proplastix 3540 Only V-538 / V-534 / V-534 White/Almond 1 Proplastix 3540 Only V-538 / V-534 / V-534 White/Almond 1 Proplastix 3540 Only V-736 / V-534 / V-534 White/Almond 1 Proplastix 3540 Only V-786 / V-534 / V-534 / V-534 White/Almond 1 Proplastix 3540 Only V-786 / V-534 / V-534 / V-534 White/Almond 1 Proplastix 3540 Only V-736 / V-534 / V-534 / V-534 / V-534 White/Almond 1 Proplastix 3540 Only <td> V-538</td> <td></td> <td>Secon</td> <td>2</td> <td>White</td> <td>3500PAD2</td> <td>D2</td>	V-538		Secon	2	White	3500PAD2	D2
V-538	V-538 White/Almond 1		Secon	2	White	3500PAD1	D1
V-538 White/Almond 1 Proplastix V-634 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 2 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-786 / V-634 White/Almond 1 Proplastix 3540 Only V-786 / V-786 White/Almond 1 Proplastix 3540 Only V-786 / V-786 / V-786 White/Almond 1 Proplastix 3540 Only V-786 / V-786 / V-786 / V-786 White/Almond 1 Proplastix 3540 Only	V-538		Jim Fasene	٠	Brown	1/2" x 1 1/2"	ine (1/2" x 1-1/2")
V-538 White/Almond 1 Proplastix V-634 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 2 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-786 / V-538 / V-634 White/Almond 1 Proplastix 3540 Only	V-538 White/Almond 1 Proplastix 3540 Only V-834 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 2 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only White/Almond 1 Proplastix 3540 Only V-786 / White/Almond 1 Proplastix 3540 Only		Proplastix		White/Almond	V-736	ate Jamb
V-538 White/Almond 1 Proplastix 4 V-34 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 2 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-538 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only	V-538 White/Almond 1 Proplastix 3540 Only		Proplastix	2/2	White/Almond	V-326	ertical & Horizontal
Hannel V-538 White/Almond 1 Proplastix I Channel) V-634 White/Almond 1 Proplastix 3540 Only I Channel V-538 / V-634 White/Almond 2 Proplastix 3540 Only I Channel V-538 / V-634 White/Almond 1 Proplastix 3540 Only I Channel V-786 White/Almond 1 Proplastix 3540 Only I Channel V-786 White/Almond 1 Proplastix 3540 Only Innel V-538 / V-634 White/Almond 1 Proplastix 3540 Only Innel V-538 / V-634 White/Almond 1 Proplastix 3540 Only Innel V-538 / V-634 White/Almond 1 Proplastix 3540 Only I Channel V-538 / V-634 White/Almond 1 Proplastix	hannel V-538 White/Almond 1 Proplastix 3540 Only Channel) V-538 White/Almond 1 Proplastix 3540 Only Lohannel V-538 / V-634 White/Almond 2 Proplastix 3540 Only Channel) V-538 White/Almond 1 Proplastix 4 Channel) V-634 White/Almond 1 Proplastix 3540 Only Innel V-538 / V-634 White/Almond 1 Proplastix 3540 Only Innel V-538 / V-634 White/Almond 1 Proplastix 3540 Only Innel V-538 / V-634 White/Almond 1 Proplastix 3540 Only Innel V-538 / V-634 White/Almond 1 Proplastix 3540 Only	3540 Only	Proplastix	1	White/Almond	V-786	The state of the s
Hannel V-538 White/Almond 1 Proplastix I Channel) V-634 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 2 Proplastix 3540 Only Pannel V-538 / V-634 White/Almond 1 Proplastix Channel) V-634 White/Almond 1 Proplastix Channel) V-786 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 1 Proplastix 3540 Only	hannel V-538 White/Almond 1 Proplastix 3540 Only Channel) V-634 White/Almond 1 Proplastix 3540 Only Lannel V-538 / V-634 White/Almond 2 Proplastix 3540 Only Channel V-538 White/Almond 1 Proplastix Description Channel V-634 White/Almond 1 Proplastix 3540 Only Channel V-786 White/Almond 1 Proplastix 3540 Only Channel V-538 / V-634 White/Almond 1 Proplastix 3540 Only Innel V-538 / V-634 White/Almond 1 Proplastix 3540 Only		Proplastix	1	White/Almond	V-634	(No J Channel)
hannel V-538 White/Almond 1 Proplastix I Channel) V-786 White/Almond 1 Proplastix 3540 Only I Channel V-538 / V-634 White/Almond 2 Proplastix 3540 Only Proplastix V-538 / V-634 White/Almond 1 Proplastix 3540 Only Channel) V-538 / V-634 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only	hannel V-538 White/Almond 1 Proplastix 3540 Only Channel) V-634 White/Almond 1 Proplastix 3540 Only Lohannel V-538 / V-634 White/Almond 2 Proplastix 3540 Only Channel) V-538 White/Almond 1 Proplastix 4 Channel) V-634 White/Almond 1 Proplastix 3540 Only Channel) V-786 White/Almond 1 Proplastix 3540 Only		Proplastix	1	White/Almond	V-538	& J Channel
hannel V-538 White/Almond 1 Proplastix 4 I Channel) V-634 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only hannel V-538 / V-634 White/Almond 1 Proplastix I Channel) V-634 White/Almond 1 Proplastix I Channel) V-634 White/Almond 1 Proplastix I Channel) V-786 White/Almond 1 Proplastix 3540 Only	hannel V-538 White/Almond 1 Proplastix 4 Channel) V-634 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only Phannel V-538 / V-634 White/Almond 1 Proplastix Channel) V-538 White/Almond 1 Proplastix V-786 White/Almond 1 Proplastix V-786 White/Almond 1 Proplastix		Proplastix	1	White/Almond	V-538 / V-634	- Sill
hannel V-538 White/Almond 1 Proplastix I Channel) V-634 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 2 Proplastix Proplastix Proplastix V-538 V-538 / V-634 White/Almond 1 Proplastix	Hannel V-538 White/Almond 1 Proplastix I Channel) V-634 White/Almond 1 Proplastix 3540 Only I Channel) V-538 / V-634 White/Almond 1 Proplastix 3540 Only Phannel V-538 / V-634 White/Almond 1 Proplastix Proplastix I Channel) V-634 White/Almond 1 Proplastix Proplastix		Proplastix	-1	White/Almond	V-786	nge
hannel V-538 White/Almond 1 Proplastix I Channel) V-634 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only N-538 / V-634 White/Almond 2 Proplastix Proplastix Proplastix Proplastix	Hannel V-538 White/Almond 1 Proplastix Channel) V-634 White/Almond 1 Proplastix V-786 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 2 Proplastix 3540 Only Proplastix V-538 / V-634 White/Almond 1 Proplastix		Proplastix		White/Almond	V-634	in (No J Channel)
hannel V-538 White/Almond 1 Proplastix I Channel) V-634 White/Almond 1 Proplastix 3540 Only V-786 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 2 Proplastix	Hannel V-538 White/Almond 1 Proplastix Channel) V-634 White/Almond 1 Proplastix V-786 White/Almond 1 Proplastix 3540 Only V-538 / V-634 White/Almond 2 Proplastix 3540 Only V-538 / V-634 White/Almond 2 Proplastix V-634 White/Almond 2 Proplastix V-634 V-634 White/Almond 2 Proplastix V-634 V-634		Proplastix	-	White/Almond	V-538	in & J Channel
Name			Proplastix	2	White/Almond	V-538 / V-634	e - Jamb
hannel V-538 White/Almond 1 Proplastix Channel) V-634 White/Almond 1 Proplastix		3540 Only	Proplastix		White/Almond	V-786	nge
hannel V-538 White/Almond 1 Proplasity	hannel V-538 White/Almond 1 Proplastix		Proplastix	_	White/Almond	V-634	in (No J Channel)
			Proplastix	_	White/Almond	V-538	in & J Channel
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3500/3540 Fixed Bill of Materials

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Date 10/10/07 Tech 146

03/22/07

Numer Gorids: COREY (3922 Stamm x 8mm) COREY (3922 Stamm	Sec.	Deviations are noted.				
	nese detaits.	Medianiple complies with the		White/Almond		Structural Member Cover
Same		Proplestix	_	White/Almond		Structural Member Cover
Milet Octobs Color Col		Propla	_	White/Almond		Sill Protector
Condense Contense Contense	Testing	Propulix Architectural	4	White/Almond	86	Trim
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G Grids: G Grids: Verification		Proplastix	1	White/Almond		Drywall Extender
		Proplastix	1	White/Almond		Drywall Extender
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		Proplastix	3	White/Almond	12	
Industrial Claids: CRF 191 VV/He/Almond		Proplastix	3	White/Almond		
GRF191 White/Almond		Proplastix	Varies	White	000	strap (3" wide x .065" thick) - 12' - 6"
GRF191 White/Almond		Proplastix	Varies	White		3" Vinyl Strap (3" wide x .065" thick) - 6" Length
GRF191 White/Almond		Klinger Lumber/Ontario West	4	Brown		6 9/16" Wood - Finger Jointed Primed White Pine
GRF191		Klinger Lumber/Ontario West	4	Brown		4 9/16 VV000 - Finger Jointed Primed White Pine
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Clear White/Almond Varies All Metal		Proplastix	4	White/Almond	7	o a/ lo Cell
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Part NO. Color Cary Vendor						PACKAGING:
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Color Colo		All Metal	Varios	White	G-13405	Grid End Clins (21/32 25mm x 8mm)
Color Colo		All Metal	Varies	White	G-12404	Grid End Clips (19/32 25mm x 8mm)
Part NO. Color Varies RiteScreen		All Motol	Varios	Class	G 49898	Grid Cross Clips (21/22 25mm v 8mm)
Pair (NO. Color City Vendor		DitoScroon	Varios	White/Almond	GBE102	15/16" Sculptured Grids:
Fair NO. COIDT VIEW VERIOR GRF191 White/Almond Varies RiteScreen 18mm x 8mm) G-12827 Clear Varies All Metal 18mm x 8mm) G-12382 White Varies All Metal		All Metal	Varies	White	G-12611	Gild Elid Cilps (21/32 16mm x 6mm)
Fair NO. COIDE CITY VERGOR GRF191 White/Almond Varies RiteScreen G-12827 Clear Varies All Metal		All Metal	Varies	White	G-12382	Grid End Clips (19/32 18mm x 8mm)
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rair No. Color QIV Vendor		RiteScreen	Varies	White/Almond	GRF191	11/16 Sculptured Grids:
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3500/3540 Fixed Bill of Materials

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Site 2 Valley Tool & Die Stamping Wahlte/Almond 1 Mil Metals Wahlte/Almond 1 Mil Metals Wahlte/Almond 1 Mil Metals Wahlte/Almond 1 Proplastix Wahlte/Almond 1 Proplastix Wahlte/Almond 1 Mil Metals Wahlte/Almond 2 Valley Tool & Die Stamping 3540 Only; Vertical/Horizontal Mullions Only Wahlte/Almond 1 Mil Metals Wahlte/Almond 2 Valley Tool & Die Stamping 3540 Only; Vertical/Horizontal Mullions Only Wahlte/Almond 2 Valley Tool & Die Stamping 3540 Only; Vertical/Horizontal Mullions Only Wahlte/Almond 2 Valley Tool & Die Stamping 3540 Only; Vertical/Horizontal Mullions Only Wahlte/Almond 2 Proplastix Wahlte/Almond 3 Mil Metals Wahlte/Almond 3 Mil Metals Mil Metals Wahlte/Almond 3 Mil Metals Mil Meta	CM-65129 White CM-65129 White V-698 White 5796B Mill MT000022 Steel CM-65129 White 5765 (H83) White MS001530 White 5768 Mill MS001530 White 1-304 White 1-310 White 1-312 White 1-312 White 1-312 White 1-3136 Mill M-1646 White M-1688 White	Mull Bracket Mull Clip "Hi Dry" Stamped Steel 3540 Horiz Flange Mullion Mullion Cover Mull Clip "Hi Dry" Stamped Steel Vert Flange Mullion (70 Twins) Mull Bracket End-Caps, Clips, & Pads for Horiz Mulls Horiz Mull Pad 3x3 3 Piece Mull End Cap J Channel 3 Piece Mull End Cap No J Channel M-1926 Mull End Cap No J Channel M-1926 Mull End Cap No J Channel M-1926 Horiz Mull Shear Clip M-1926 A 3 pc Brickmould Stack Mull Corner M-1926 Toriz Mull Shear Clip Drip-Caps for Fin Mulled Twins or Triples Drip Cap J-Channel Drip Cap J-Channel Drip Cap J-Channel
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2 Valley Tool & Die Stamping	86 129 022 022	Mull Bracket Mull Clip "Hi Dry" Stamped Steel 3540 Horiz Flange Mullion Mullion
2 Valley Tool & Die Stamping Almond	86 129 022	Mull Bracket Mull Clip "Hi Dry" Stamped Steel 3540 Horiz Flange Mullion
2 Valley Tool & Die Stamping	86 129 022	Mull Bracket Mull Clip "Hi Dry" Stamped Steel
2 Valley Tool & Die Stamping	86 129	Mull Bracket
2 Valley Tool & Die Stamping	86 129	
2 Valley Tool & Die Stamping		Cover
2 Valley Tool & Die Stamping		Mulion
Almond 1 Almond 1 Almond 1 Almond 1 Almond 1 Varies 4		3540 Vert Flange Mullion
/Almond 1 /Almond 1 /Almond 1 /Almond 1 /Almond 1 /Almond 1 /Almond Varies		Muli Pad
2 Almond		Screws (#10 x 3/4" PH Self Drilling)
/Almond 1 /Almond 1 /Almond 1 /Almond 1		Muli Insulator
/Almond 1 /Almond 1		Mullion Cover
/Almond 1		Mali Parior Willi
2		Exterior Wall
2		3-riece Structural Muli:
•	MT000022 Steel	Mull Cip "Hi Diy" Stamped Steel
2		Mull Bracket
		Cover
1 MI Metals	M-1926 Mill	Mullon
3540 Only; Vertical/Horizontal Mullions Only		Structural Mullion
2	G-D4586 White	Mull Pad
White/Almond 1 MI Metals		Mullion
White/Almond 1 Proplastix		IMUIION
		Brickmould Stack Mullion
Varies	G-D7162 White	Mull lape
2		Muli Fad
White/Almond 2 Proplastix		Mullion
		Vinyi 2 piece Mullion
		WILLIONS: SANOTHER THE PROPERTY OF THE PROPERT

Architectural Testing

Test sample complies with these details.

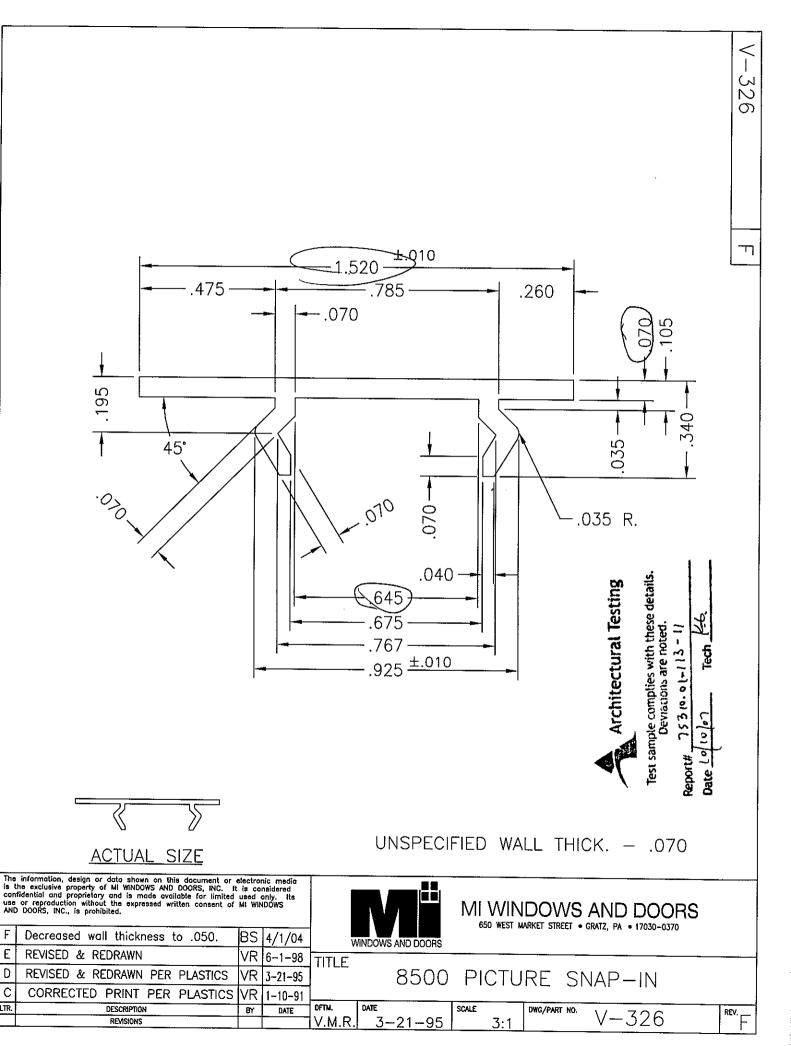
Deviations are noted.

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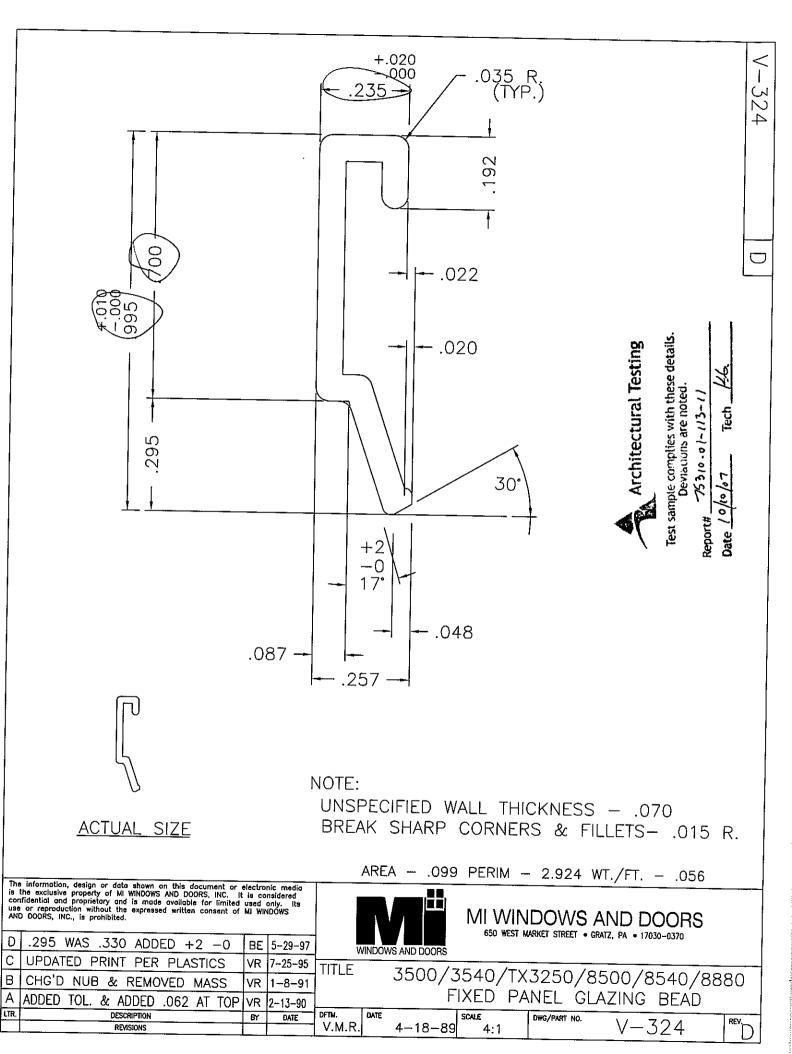
03/22/07

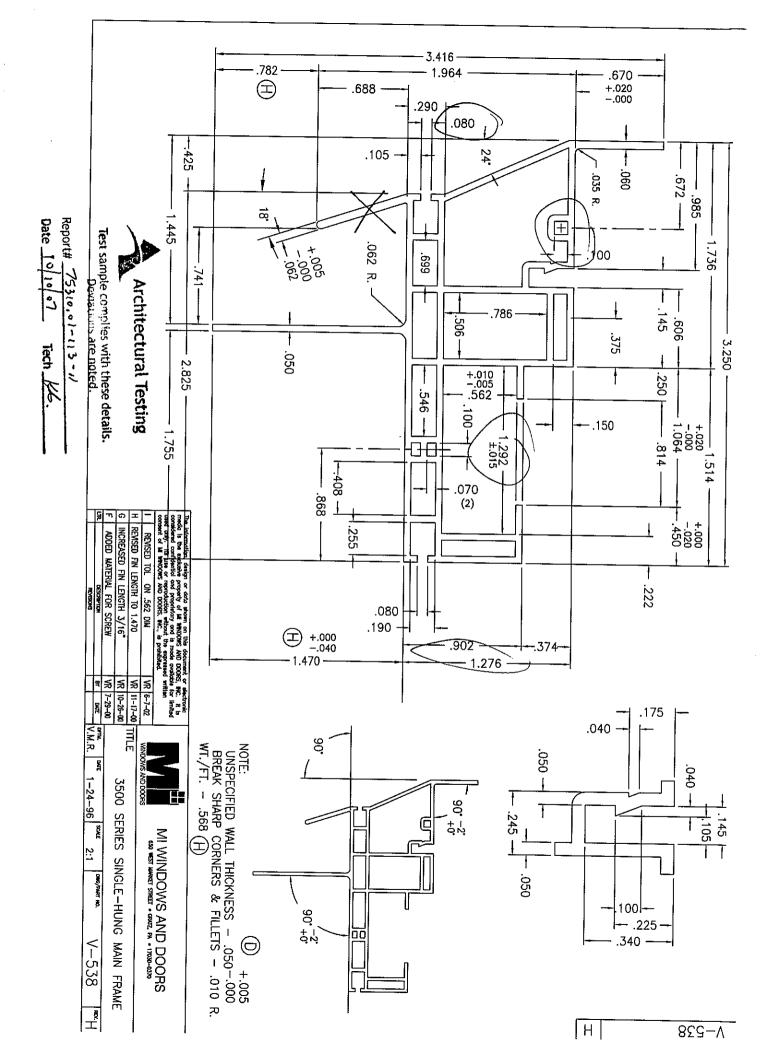


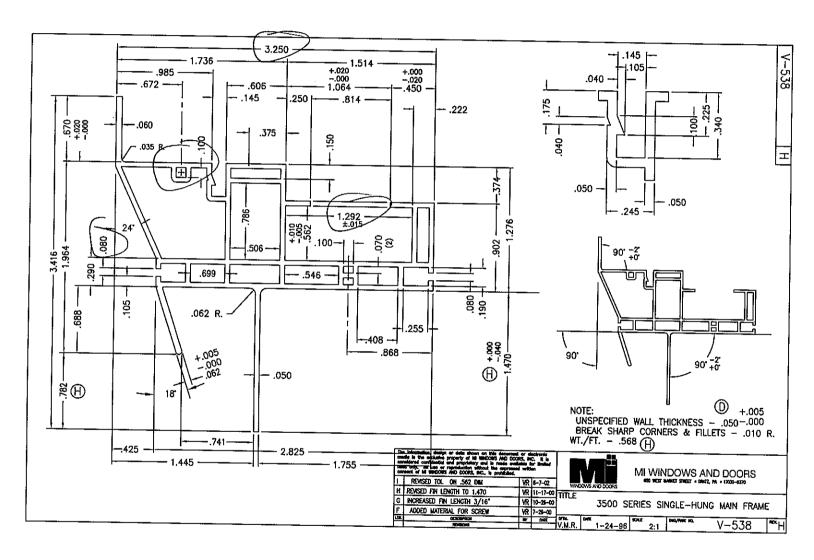
F

C

LTR.







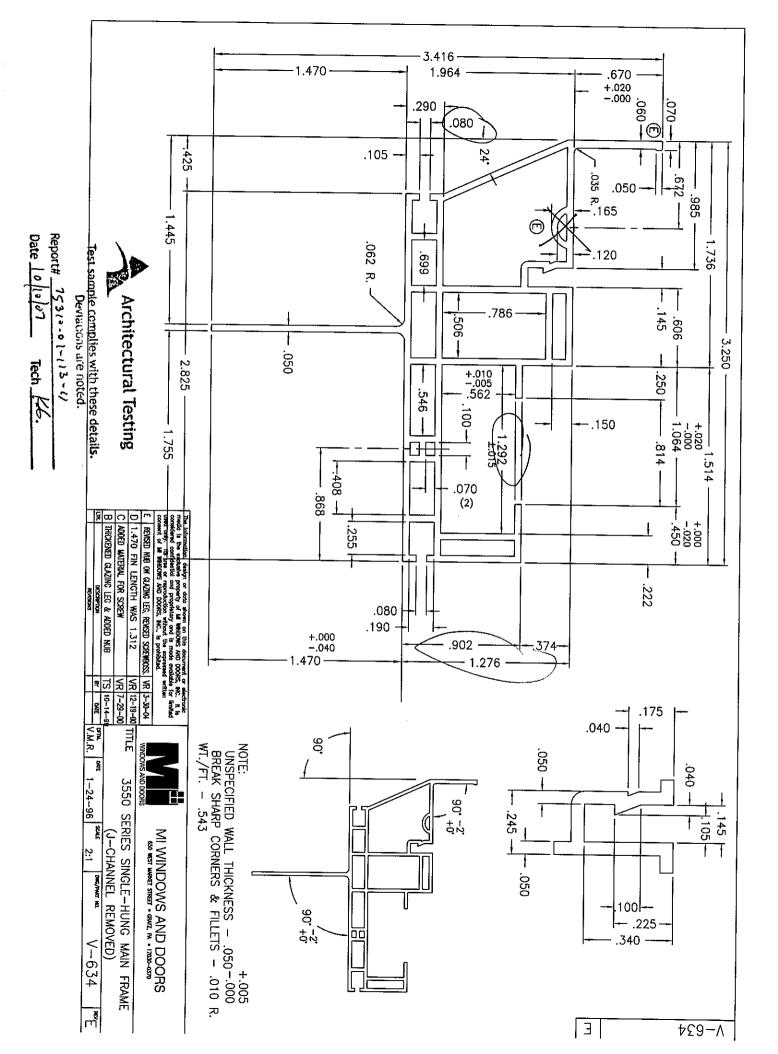


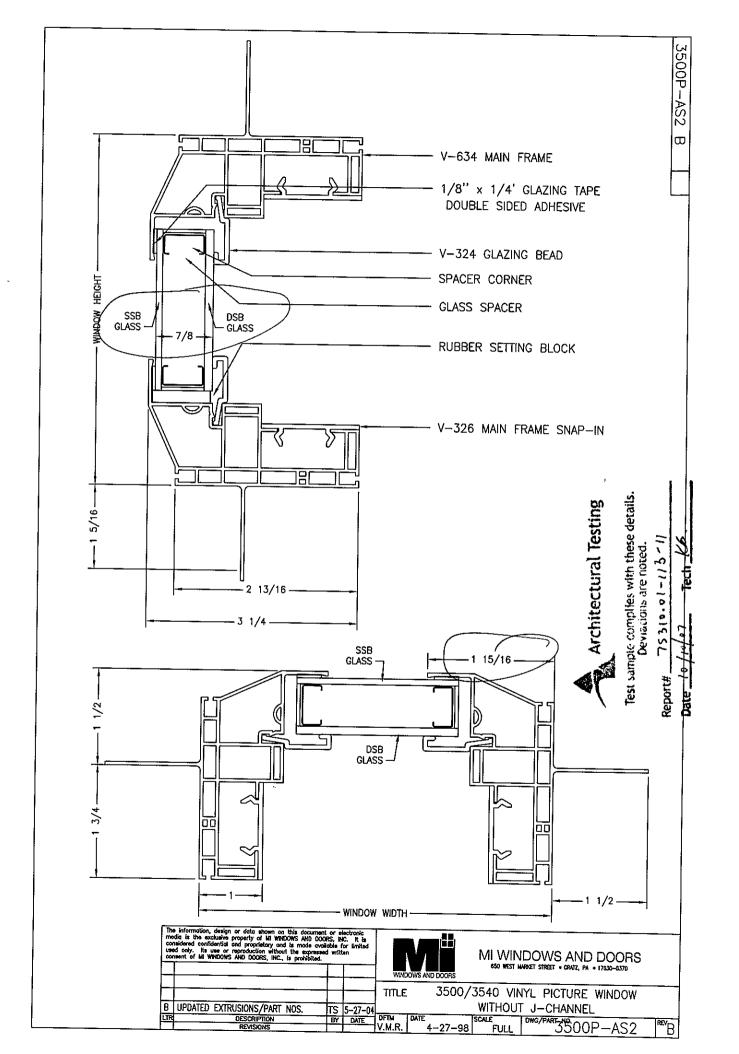
Architectural Testing

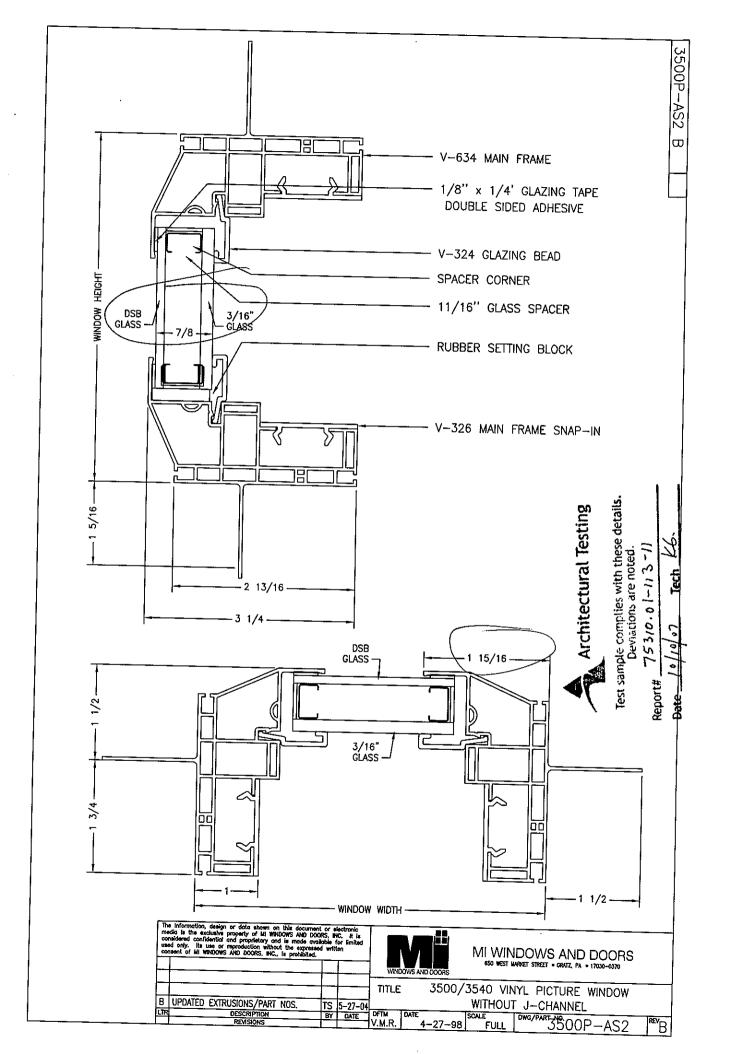
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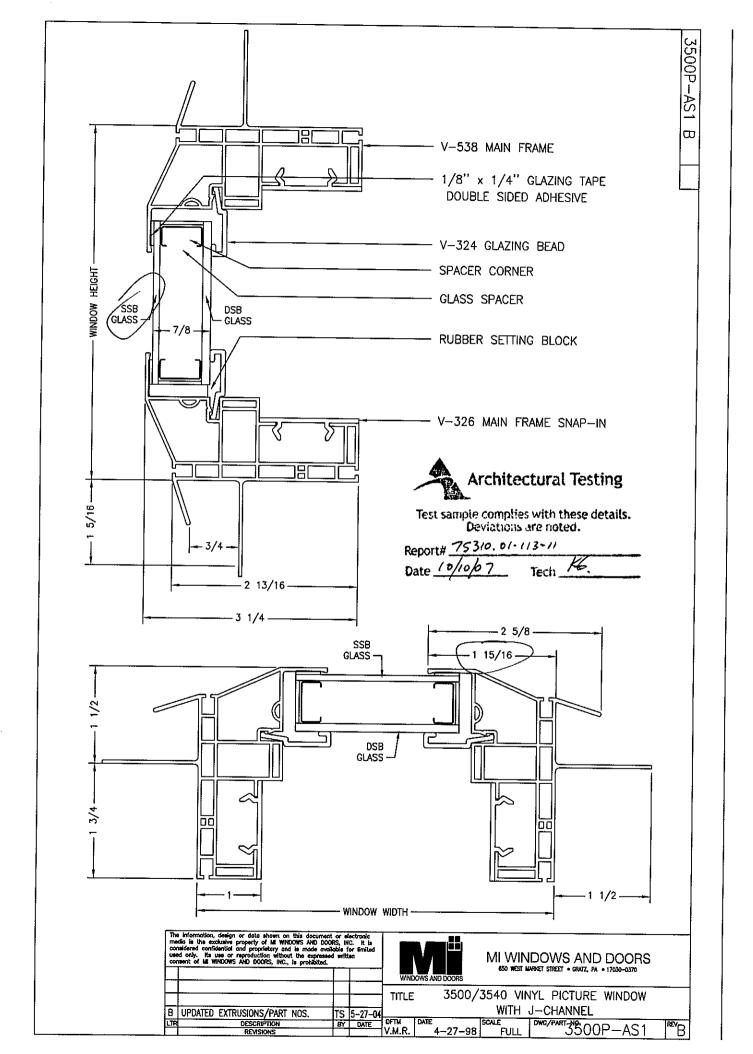
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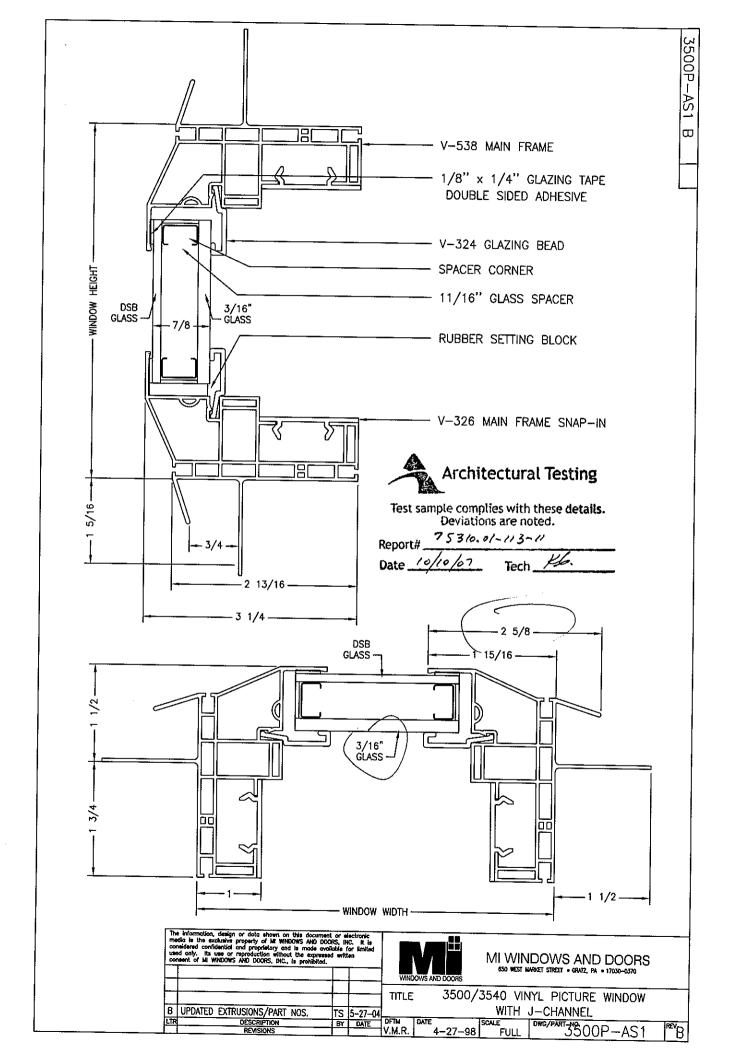
Report#, 75310.01-113-11













Appendix D
Photographs



Receive Room View of Installed Specimen



Source Room View of Installed Specimen