



GPI Millwork - Aluminum T-Astragal (NATA).

Tested for structural, air, water gauge performance
and forced entry resistance with Jeld Wen
Steel one light and Fiberglass 6 panel doors

General Notes :

1. This product has been designed to achieve a high structural and water resistance (water gauge) performance.
2. All products tested in compliance with the following:
AAMA/WDMA/CSA 101/1.S.2/A440-08 and 11
ASTM E283; ASTM E331; ASTM E330
3. Wood bucks by others, must be anchored properly to transfer Loads to the structure.
4. Product Anchors: Shall be as listed and spaced as shown on details.
5. Product test results, see Table 1, page 1

Test Door Specifications

Test Door # 2

Door panel - Jeld Wen Steel faced one light - In swing
Jamb & Head - GPI, PVC - see construction notes below
Astragal - Aluminum T- Astragal (NATA) -with shoot bolts top & bottom
Sill - GPI in swing with Standard Cap 1.375"
Sill Pan - GPI PVC Sloped
Door Sweep - GPI adjustable sweep
Hardware - Simply Elegant Signature Line locksets
Glazing - 1" IG with tempered 1/8" glass panels and 3/4" airspace

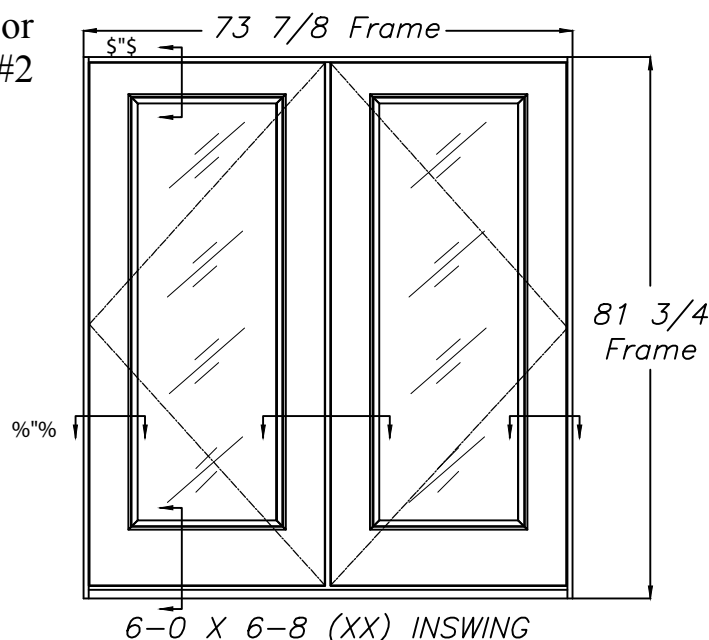
Frame Construction - GPI PVC. The frame is constructed of solid PVC Jamb's 4-9/16" x 1 1/4". The head and jamb's are mortised and butt joined to the side jamb's and attached with (3) #8 x 2 1/2" wood screws on each side. The GPI sill is attached to the side jamb's with three (3) #8 x 2 1/2" wood screws with counter sunk heads. GPI gaskets or silicone is placed between the joint faces.
A GPI PVC sloped sill pan is posited below the frame assembly.

Test Door # 3

Door panel - Jeld Wen Fiberglass - 6 Panel - Out swing
Jamb & Head - Wood - see construction notes below
Astragal - Aluminum T - Astragal (NPTA) - with shoot bolts top & bottom
Sill - GPI Out swing High Dam Cap - 1.75"
Sill Pan - GPI PVC Level
Door Sweep - N/A

Frame Construction - wood. The frame is constructed of finger jointed Pine jamb's 4-9/16" x 1 1/4". The head and jamb's are mortised and butt joined to the side jamb's and attached with (3) 16GA 7/16" crown x 2" long staples on each side. The GPI sill is attached to the side jamb's with three (3) 16GA 7/16" crown x 2" long staples on each side.
A GPI PVC level sill pan is posited below the frame assembly.

Test Door
#2



Test Door
#3

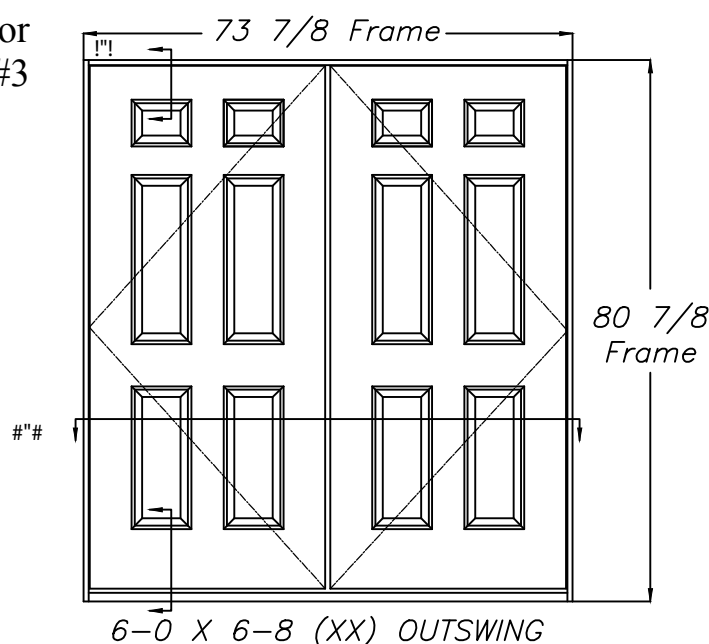


Table 1: TEST RESULTS with GPI Millwork - Aluminum T - ASTRAGAL

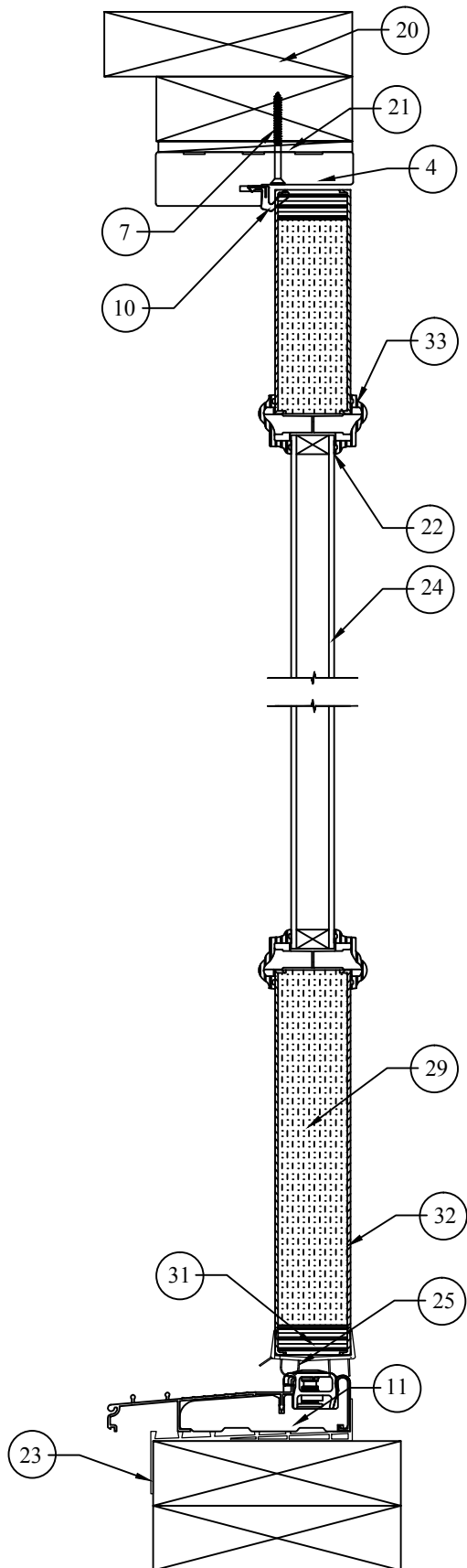
Jeld-Wen Steel	DP Rating	Air	Water Gauge	Forced entry
Double Door	55	0.2	R Limited Water	Passed
In Swing				
Jeld-Wen Fiberglass				
Double Door	45	0.14	8.35	Passed
Out Swing	* T-Astragal only tested to DP45 due to door failure.			

Table of Contents	
Sheet #	Description
1	Elevations, General Notes, Results
2	Test Door 2 - Vertical Sections
3	Test Door 2 - Horizontal Sections
4	Test Door 3 - Vertical Sections
5	Test Door 3 - Horizontal Sections
6	Astragal Details
7	Buck and Frame Anchoring
8	Bill of Materials and Components

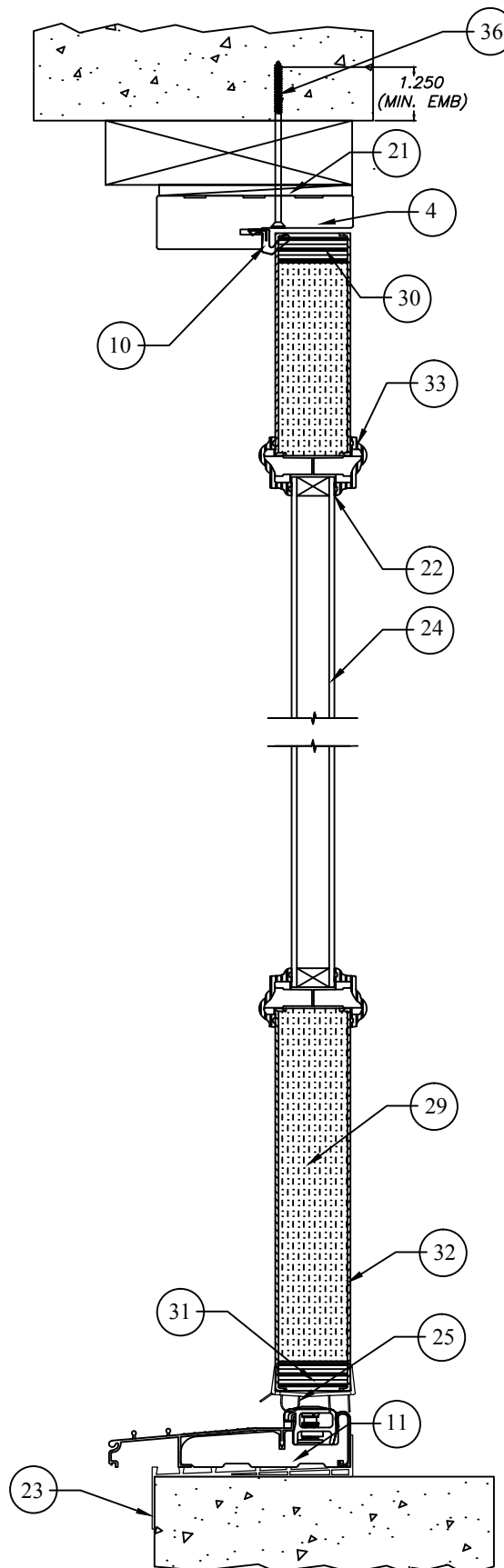


Test Unit #2

Section A~A



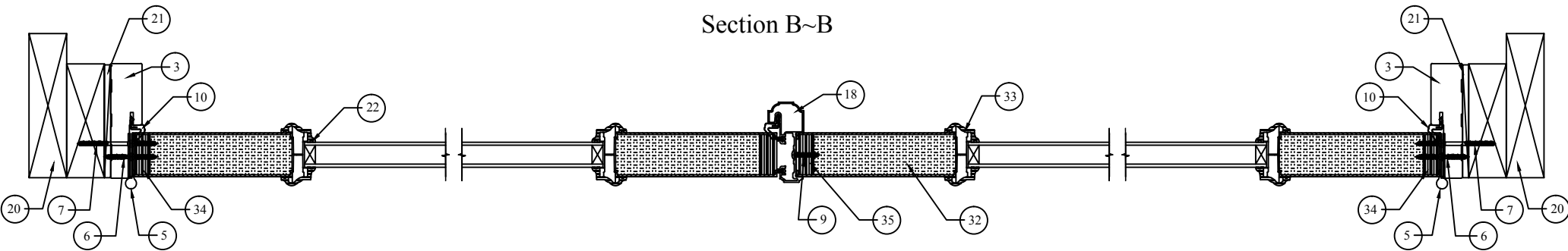
Section A~A Alternative



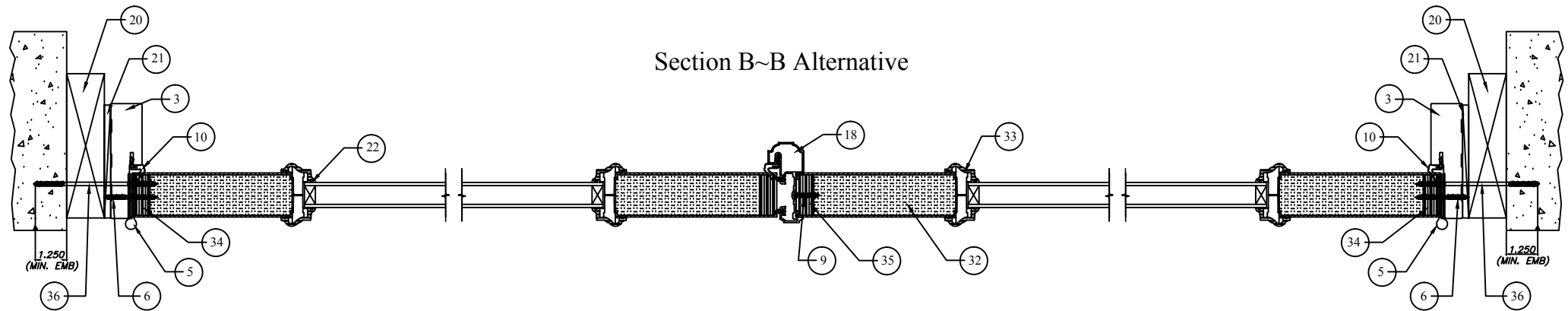


Test Unit #2

Section B~B



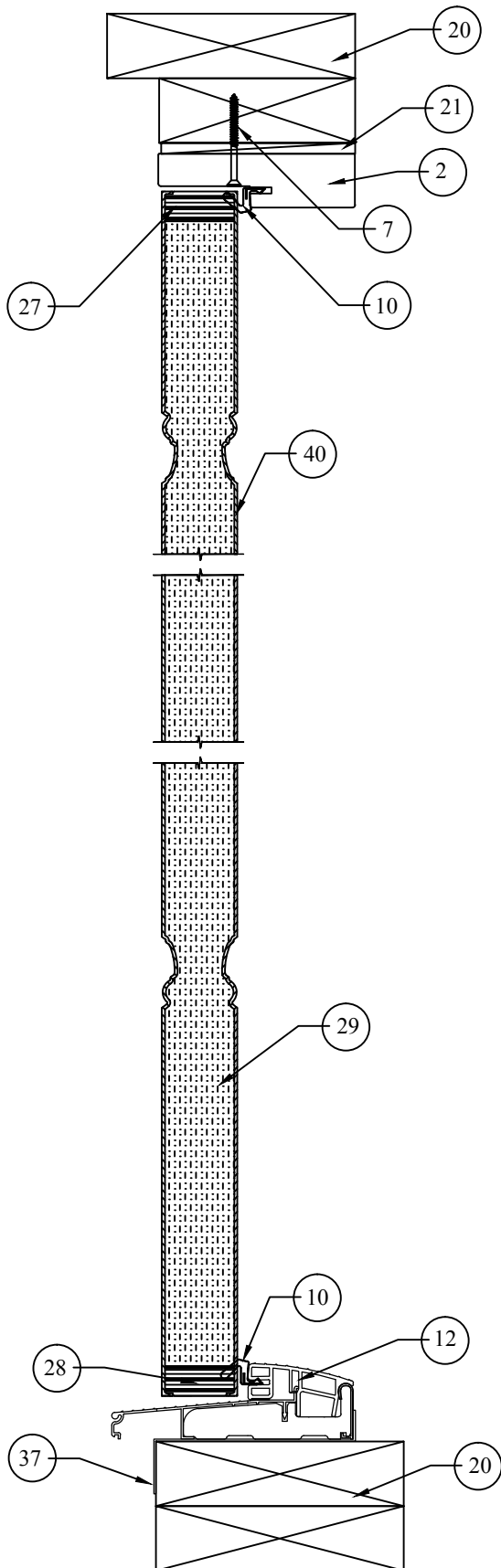
Section B~B Alternative



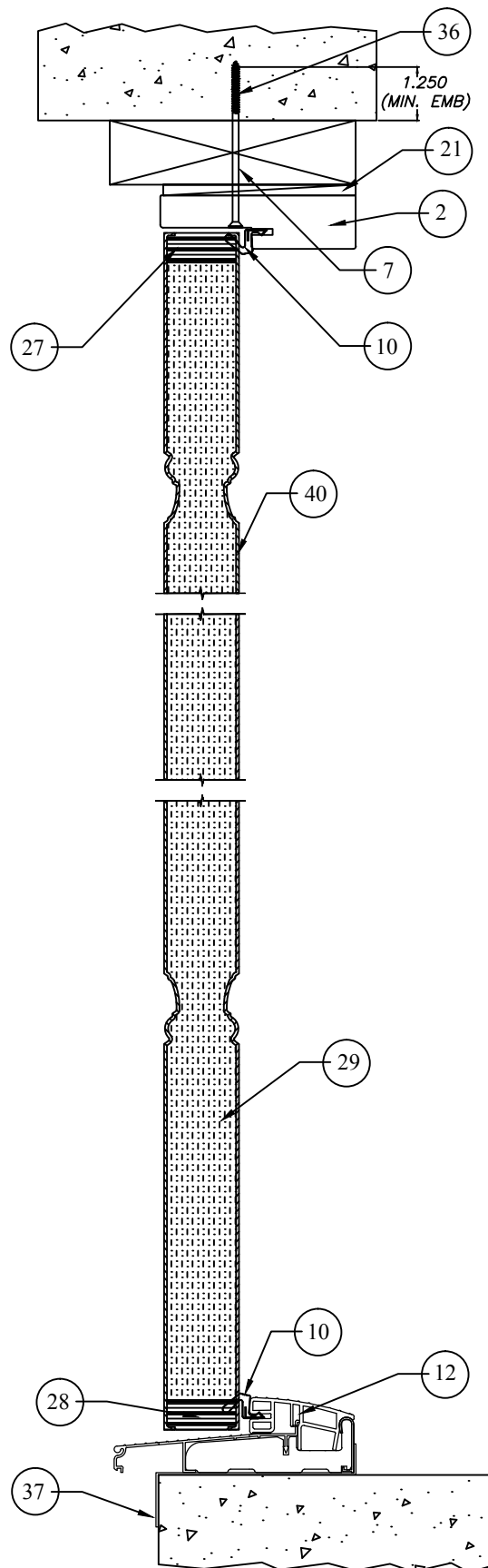


Test Unit #3

Section C ~ C



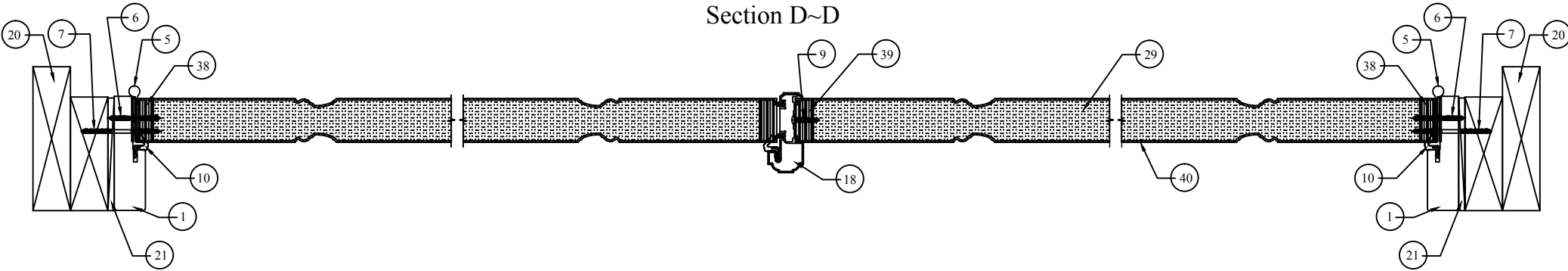
Section C ~ C Alternative



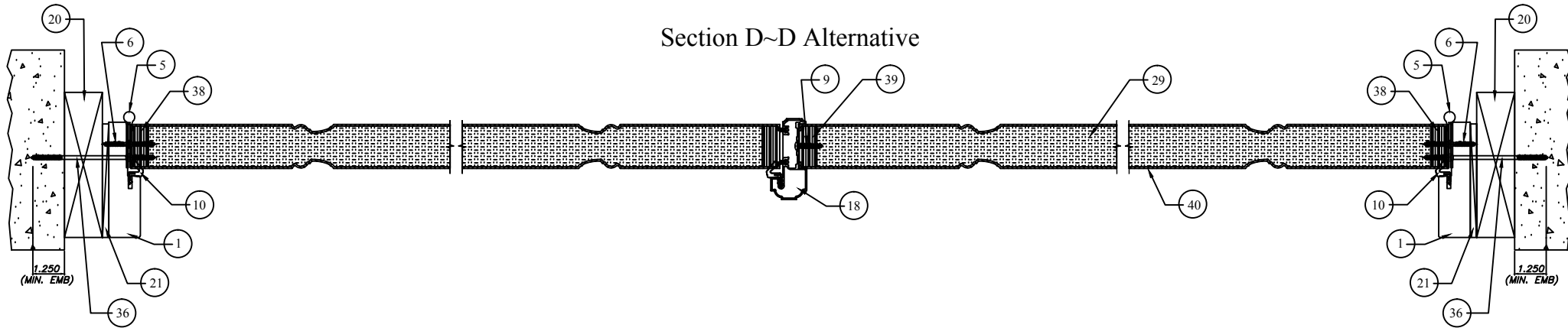


Test Unit #3

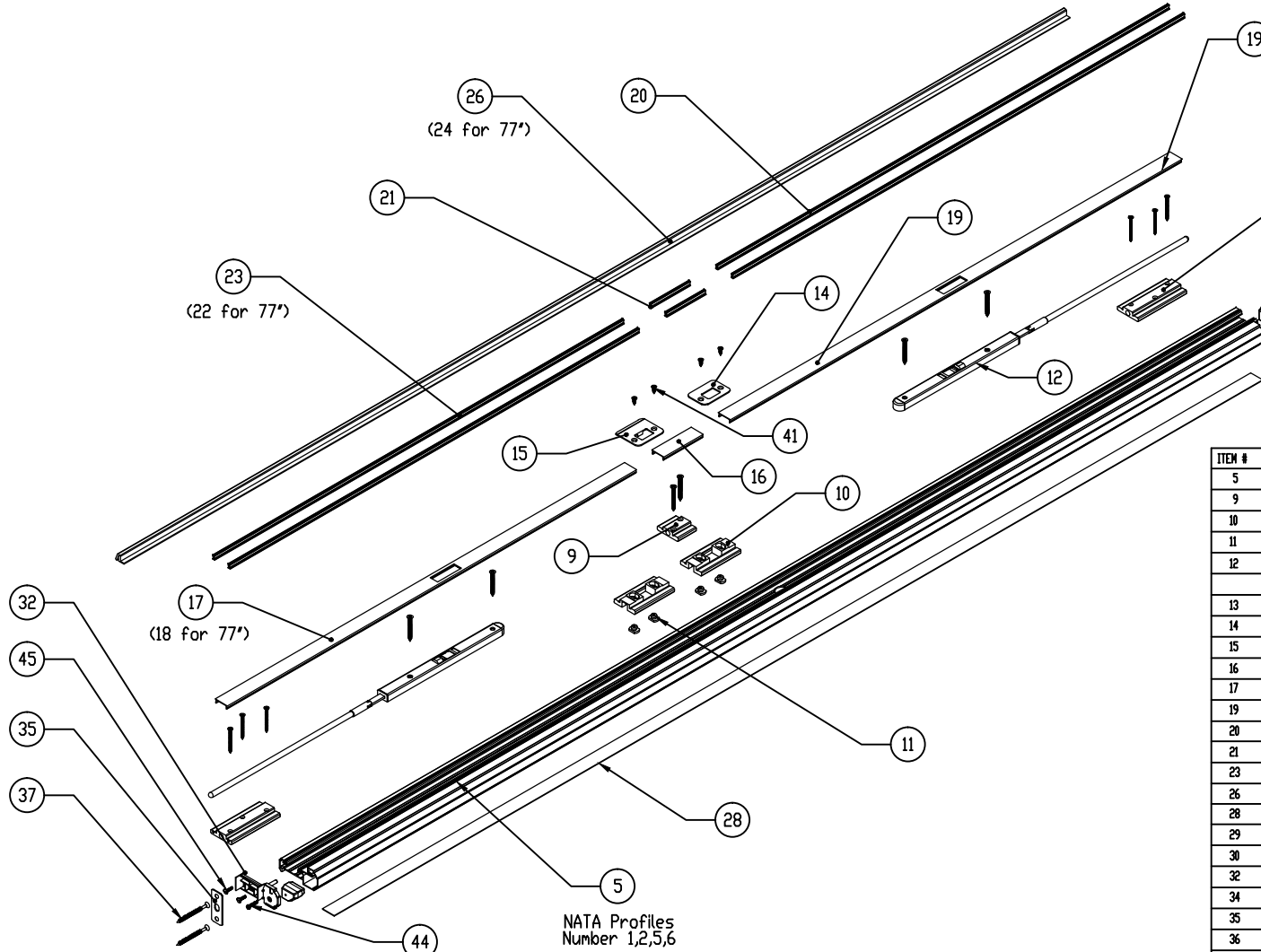
Section D~D



Section D~D Alternative



PATENT PENDING




NATA Profiles
Number 1,2,5,6

ITEM #	COMPONENT (WHITE OPTION)	DESCRIPTION
5	79" ILH NATA-DW	Fabricated Aluminum T-Astragal "N" Series, Inswing Left Hand, 79"
9	Center Support Block	Aluminum extrusion, with screw holes
10	Four Way Adjust Housing	Injection molded Nylon adjustable plate housings, white
11	Four Way Adjust Nuts	Injection molded Nylon nuts, black
12	NLSB Slide Lock Assembly	Locking slide bolt "N" Series Rod Connector, zinc die cast, included with NLSB with NLSB Assembly Rod, steel 1020 with TS440Mpa & hardness 130 HB, included with NLSB Assembly
13	Slide Lock End Guide Block	Aluminum extrusion, with screw holes
14	Deadbolt Plate	Stamped Steel, with bright brass finish, US-3
15	Latch Plate	Stamped Steel, with bright brass finish, US-3
16	Screw Cover, Middle	Extruded PVC
17	Screw Cover, Bottom, 79"	Extruded PVC with stamped opening for NLSB latch
19	Screw Cover, Top, 77" & 79"	Extruded PVC with stamped opening for NLSB latch
20	Wool Pile Weatherstripping (Top)	0.187" x 0.350" woolpile with fin, white
21	Wool Pile Weatherstripping (Middle)	0.187" x 0.350" woolpile with fin, white
23	Wool Pile Weatherstripping (Bottom 79")	0.187" x 0.350" woolpile with fin, white
26	Foam weatherseal, 79" IS	Teflon coated foam weatherseal, white
28	Double-Sided Tape	Double-sided butyl adhesive tape, 0.0315" thick x 0.985" wide(0.8mm x 25mm)
29	NATA Plug	TPR screw plug, black
30	Top Boot-Left	TPR molded Top Boot, "N" series-Left
32	Bottom Boot-Left	TPR molded Bottom Boot, two part, "N" series-Left
34	Bolt Plate-Top-Inswing	Stamped Steel, with bright brass finish, US-3
35	Bolt Plate-Bottom	Stamped Steel, with bright brass finish, US-3
36	Screws-Top Bolt Plate-Inswing	#8 x 1 1/4" Phillips Wood Screw, bright brass finish, US-3
37	Screws-Bottom Bolt Plate	#8 x 2 1/2" Phillips Wood Screw, bright brass finish, US-3
41	Screws-Latch & Deadbolt	#8 x 1/2" Phillips Thread Forming Screw, bright brass, U-3
44	Screws-Top & Bottom Boots at Plug	#6 x 3/4" Phillips Thread Forming Screw, zinc plated
45	Screws-Bottom Boot	#6 x 5/8" Phillips Sheet Metal Screw, zinc plated

Pg 6

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES [mm]			
.X	± 0.1	ANGLES	± 1°
.XX	± 0.01	FILLET RADIUS	.010-.020
.XXX	± 0.005	BREAK EDGE	.005-.010
.XXXX	± 0.0005	FRACTIONS	± 1/64
DRAWN GC 12/11/12			
CHECK			
APVD			
File Name: NATA-DW Full Assembly with Slide Lock			
Last Modified: 11/7/2014 11:46:42 PM			



Global Products International Group, LLC
"Your Doorway to the World's Products"

P.O. Box 52927
Atlanta, GA 30355
USA

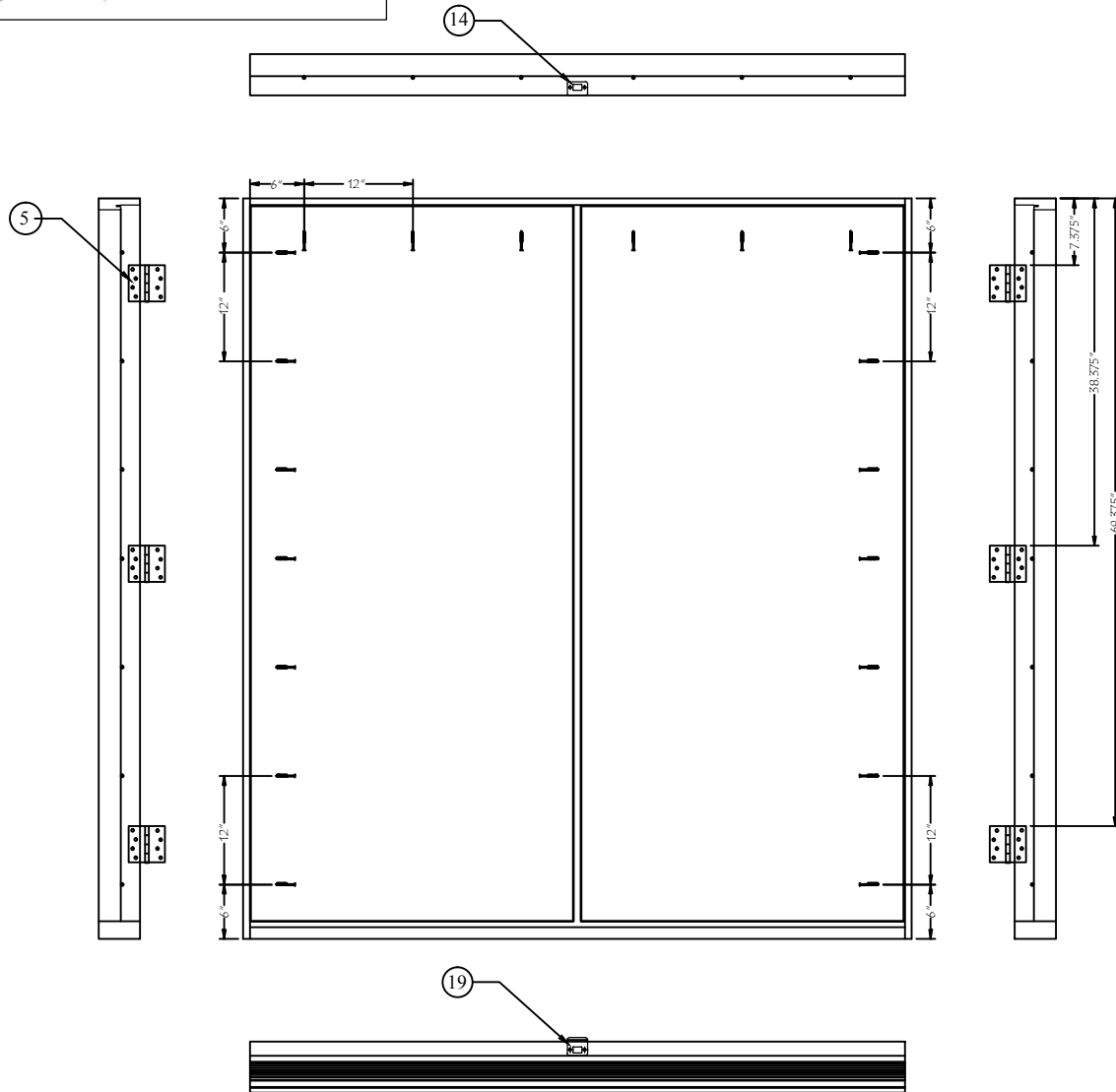
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NATA-DW Inswing Full Assembly with Slide Lock

SIZE:
B

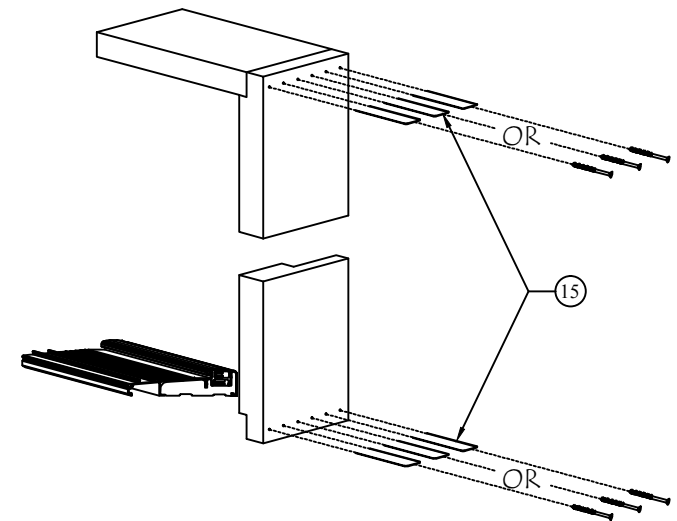
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SCALE: 1:1

SHEET: 1 OF 3

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H



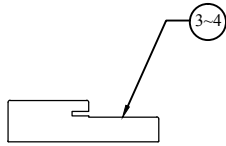
Anchoring Detail.



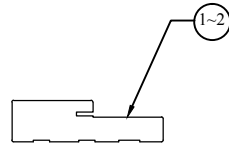
Corner Fastening Detail.



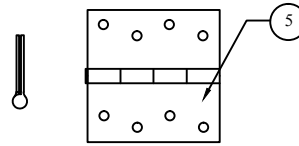
Assorted Parts and Pieces:



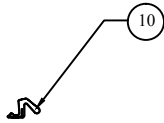
Frame / Head Pine



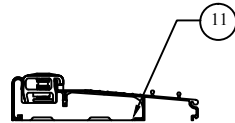
Frame / Head PVC



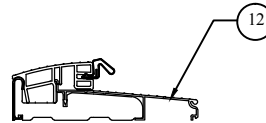
4" x 4" Butt Hinge



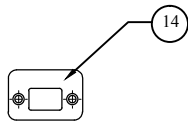
Compression Weatherstrip



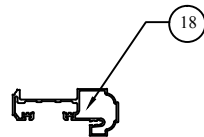
GPI In swing Threshold



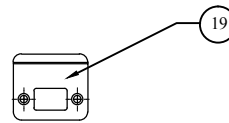
GPI Out swing Threshold



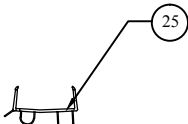
Head Bolt Strike Plate



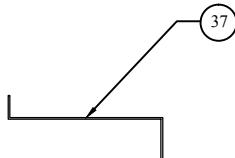
GPI Aluminum Astragal
(NATA)



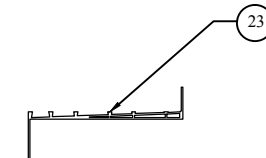
Sill Bolt Strike Plate



Adjustable Weather Seal



GPI PVC Level Sill Pan



GPI PVC Sloped Sill Pan

B.O.M.s for Test Doors # 2 and 3

Item	Description		Material
1.	Side Jamb 1 1/4" x 4 9/16" Finger Jointed Pine	(Test 3)	Pine
2.	Head 1 1/4" x 4 9/16" Finger jointed Pine	(Test 3)	Pine
3.	Side Jamb 1 1/4" x 4 9/16" GPI Millwork solid PVC	(Test 2)	PVC
4.	Head 1 1/4" x 4 9/16" GPI Millwork solid PVC	(Test 2)	PVC
5.	4" x 4" Butt Hinge 12GA		Steel
6.	# 9 x 1" Phillips Flathead Wood screw		Steel
7.	# 10 Phillips HD screw with 1 1/2" minimum embed		Steel
8.	# 8 x 3" Phillips Flathead Wood Screw		Steel
9.	# 8 x 1" Phillips Panhead Wood screw		Steel
10.	Compression Weatherstrip (Q - Lon QDS-650 or similar)		Vinyl
11.	GPI Millwork in swing threshold sill with 1.375" cap	(Test 2)	Vinyl/Alum
12.	GPI Millwork outswing threshold sill w/ high dam 1.75"	(Test 3)	Vinyl/Alum
13.	Astragal Throw Bolt, steel rod 5/16 x 18"		Steel
14.	Astragal Bolt Strike Plate located on Head		Steel
15.	# 8 x 2 1/2" Phillips CS Wood Screws,		Steel
	▪ Alternatively, 16 Ga 7/16" crown x 2" long staples		Steel
16.	Simply Elegant Signature Line Lockset		Aluminum
17.	Simply Elegant Dead Bolt		Aluminum
18.	GPI Millwork Aluminum T-Astragal (NATA)		Aluminum
19.	Astragal Bolt Strike Plate on bottom sill		
20.	2 x wood buck		Wood
21.	Non compression shim		Wood
22.	Dow 995 silicone sealant (or similar)	(Test 3)	Silicone
23.	GPI Millwork PVC sloped sill pan	(Test 2)	PVC
24.	1/8" tempered glass	(Test 3)	Glass
25.	Adjustable Weather seal	(Test 3)	PVC
26.	Lock block (solid wood x 12' long)		Wood
27.	Top rail (wood composite)	(Test 2)	Wood
28.	Bottom rail (wood composite)	(Test 2)	Wood
29.	Expanded polystyrene (1.0 to 1.25lbs density by Jeld Wen)		Foam
30.	Top rail (LVL)	(Test 3)	LVL
31.	Bottom rail (25GA min galvanized steel)	(Test 3)	Steel
32.	Jeld Wen Steel door panel skin material (24 GA Galvanized)	(Test 2)	Steel
	▪ A-525 commercial quality 0.021" min thick		Galvanized
33.	ODL lite Allen frame (alum 6063 T5)	(Test 2)	Aluminum
34.	Hinge side stile (finger jointed LVL)	(Test 3)	LVL
35.	Latch side stile (finger jointed LVL)	(Test 3)	LVL
36.	3/16" ITW Buildex Tapcon with 1.25" min embedment	(Test 3)	Steel
37.	GPI Millwork PVC level sill pan		PVC
38.	Hinge side stile (wood composite)	(Test 2)	Wood
39.	Latch side stile (wood composite)	(Test 2)	Wood
40.	Jeld Wen Fiberglass skinned door panel	(Test 3)	Fiberglass



TEST REPORT

Report No.: E1391.03-550-44

Rendered to:

GLOBAL PRODUCTS INTERNATIONAL GROUP, LLC
Atlanta, Georgia

PRODUCT TYPE: In-Swing Doors (XX)
SERIES/MODEL: with Aluminum Astragal (Test Door #2)

Title	Summary of Results
AAMA/WDMA/CSA 101/I.S.2/A440 -11	Class PG R-55 1880 mm x 2083 mm (74 x 82in) - LW SHD
Design Pressure	±2640 Pa (±55.14 psf)
Air Infiltration	1.0 L/s/m ² (0.2 cfm/ft ²)
Water Penetration Resistance Test Pressure	Limited Water
Uniform Load Structural Test Pressure	±3960 Pa (±82.71 psf)

Test Dates: 10/08/14
Through: 12/31/14
Report Date: 05/15/15

Reference must be made to Report No. E1391.03-550-44, dated 05/15/15 for complete test specimen description and detailed test results.

1.0 Report Issued To: Global Products International Group, LLC
2765 Bankers Industrial Drive, Building F
Atlanta, Georgia 30360

2.0 Test Laboratory: Architectural Testing, Inc.
an Intertek Company ("Intertek-ATI")
1701 Westfork Drive, Suite 106
Lithia Springs, Georgia 30122
770-941-6916

3.0 Project Summary:

3.1 Product Type: In-Swing Door (XX)

3.2 Series/Model: with Aluminum Astragal (Test Door #2)

3.3 Compliance Statement: Results obtained are tested values and were secured by using the designated test method(s). The specimens tested successfully met the performance requirements for the following ratings:

Test Specimen(s)	Title	Summary of Results
1	101/I.S.2/A440-11	Class PG R-55 1880 mm x 2083 mm (74 x 82in) – LW SHD

3.4 Test Dates: 10/08/2014 - 12/31/2014

3.5 Test Record Retention End Date: All test records for this report will be retained until December 31, 2018.

3.6 Test Location: Intertek-ATI test facility in Lithia Springs, Georgia.

3.7 Test Sample Source: The test specimen was provided by the client. Representative samples of the test specimen(s) will be retained by Intertek-ATI for a minimum of four years from the test completion date.

3.8 Drawing Reference: The test specimen drawings have been reviewed by Intertek-ATI and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek-ATI per the drawings located in Appendix D. Any deviations are documented herein or on the drawings.

3.0 Project Summary: (Continued)

3.1 List of Official Observers:

<u>Name</u>	<u>Company</u>
Terry Wiley	Global Products International
Ryan Chapman	Global Products International
Joel Ivey	Intertek-ATI
Jon Gardner	Intertek-ATI
Ian McKenzie	Intertek-ATI
Jacques Johnson	Intertek-ATI

4.0 Test Method(s):

AAMA/WDMA/CSA 101/IS.2/A440-11, *NAFS 2011 - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

5.0 Test Specimen Description:

5.1 Product Sizes:

Test Specimen #1:

Overall Area: 2.8 m ² (30.0 ft ²)	Width		Height	
	millimeters	inches	millimeters	inches
Overall size	1876	73-7/8	2076	81-3/4
Door Leaf	908	35-3/4	2007	79

5.0 Test Specimen Description: (Continued)

5.2 Frame Construction:

Frame Member	Material	Description
Head/ jamb	PVC	Extruded
Sill	Al/PVC	GPI In-swing high dam Cap-1.75"
Sill pan	PVC	Positioned below the frame assembly

	Joinery Type	Detail
Head/jamb	Mortised and Butted	Silicone is placed between the joint faces. The head and jamb are mortised and butt joined to the side jambs with three #8 x 2-1/2" wood screws on each side.
Sill	Mortised and Butted	Silicone is placed between the joint faces. The sill is secured to the side of the jambs with three #8 x 2-1/2" wood screws with counter sink heads.

5.3 Leaf Construction:

Leaf Member	Material	Description
Door	Steel	24 Ga Steel skin with expanded polystyrene
Top rail	Wood	Extruded
Bottom rail	Wood	Extruded
Hinge side stile	Wood	Extruded
Latch side stile	Wood	Extruded
T-Astragal	Aluminum	Aluminum T-Astragal (NATA - with shoot bolts top & bottom)

	Joinery Type	Detail
All corners	Fastened	Silicone is placed between the joint faces. The corners are fastened.
T-Astragal	Mechanically Fastened	Astragal is fastened to the head and the sill using two #8 x 2-1/4" screws.

5.0 Test Specimen Description: (Continued)

5.4 Weatherstripping:

Description	Quantity	Location
Compression gasket	3 rows	Interior of vent head/sill/jamb. One row is placed on the Astragal on the meeting stile between the door leaves.

5.5 Drainage: No drainage was utilized.

5.6 Hardware:

Description	Quantity	Location
Butt Hinges	6	Three on each stile of the door leaf.
Strike Plate	4	One on the frame head one on the sill and two on the stile of the door leaf.
Handle	1	On the primary door leaf.
Simple Elegant Signature Line	1	On the primary door leaf.
Locking Slide Bolt	2	One on the top of the Astragal and One on the bottom of the Astragal.

5.7 Reinforcement: No reinforcement was utilized.

6.0 Installation:

The specimen was installed into a 2x8 Spruce-Pine-Fir wood buck. The rough opening allowed for a 1/4" shim space. The exterior perimeter of the door was sealed with sealant.

Location	Anchor Description	Anchor Location
Head, sill & jambs	#10 x 1-1/2" Phillips head screw	6" from each end, 12" on center thereafter.
Astragal	#8 x 3-1/4" screw and #8 x 1-1/4" screws	Two are secured into the sill of the frame and two are secured into the head of the frame.

7.0 Test Results: The temperature during testing was 21°C (70°F). The results are tabulated as follows:

Title of Test	Results	Allowed	Note
Air Leakage, Infiltration per ASTM E 283 at 75 Pa (1.57 psf)	<1.0 L/s/m ² (0.2 cfm/ft ²)	1.5 L/s/m ² (0.3 cfm/ft ²) max.	1
Water Penetration, per ASTM E 331 Limited Water (No Pressure)	Pass	No leakage	2
Uniform Load Deflection, per ASTM E 330 taken along astragal +2640 Pa (+55.14 psf) -2640 Pa (-55.14 psf)	2.5 mm (0.1") 7.6 mm (0.3")	Report Only	4, 5, 6
Uniform Load Deflection, per ASTM E 330 taken along bottom of active door +2640 Pa (+55.14 psf) -2640 Pa (-55.14 psf)	2.5 mm (0.1") 2.5 mm (0.1")	Report Only	4, 5, 6
Uniform Load Structural, per ASTM E 330 taken along astragal +3960 Pa (+82.71 psf) -3960 Pa (-82.71 psf)	0.8 mm (0.03") 0.3 mm (0.01")	8.1 mm (0.32") max	5, 6
Uniform Load Structural, per ASTM E 330 taken along bottom of active door +3960 Pa (+82.71 psf) -3960 Pa (-82.71 psf)	0.3 mm (0.01") 2.3 mm (0.12")	3.6 mm (0.14 ") max	5, 6
Forced Entry Resistance, per AAMA 1304, Type: N/A - Grade: 10	Pass	No entry	

7.0 Test Results: (Continued)

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

Note 2: With and without insect screen.

Note 3: The client opted to start at a pressure higher than the minimum required. Test results are reported under Optional Performance.

Note 4: The deflections reported are not limited by AAMA/WDMA/CSA 101/I.S.2/A440 for this product designation. The deflection data is recorded in this report for special code compliance and information only.

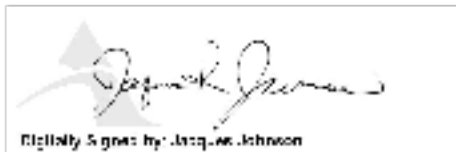
Note 5: Loads were held for 10 seconds.

Note 6: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

Intertek-ATI will service this report for the entire test record retention period. Test records that are retained such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be retained by Intertek-ATI for the entire test record retention period.

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 Intertek-ATI.

For INTERTEK-ATI:


Digitally Signed by: Jacques R. Johnson

Jacques R. Johnson
Project Technician


Digitally Signed by: Ian J. McKenzie

Ian J. McKenzie
Lab Manager – Regional Operations

JRJ:IJM/jab

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

Appendix-A: Alteration Addendum (1)

Appendix-B: Location of Air Seal (1)

Appendix-C: Photographs (1)

Appendix-D: Drawings (8)

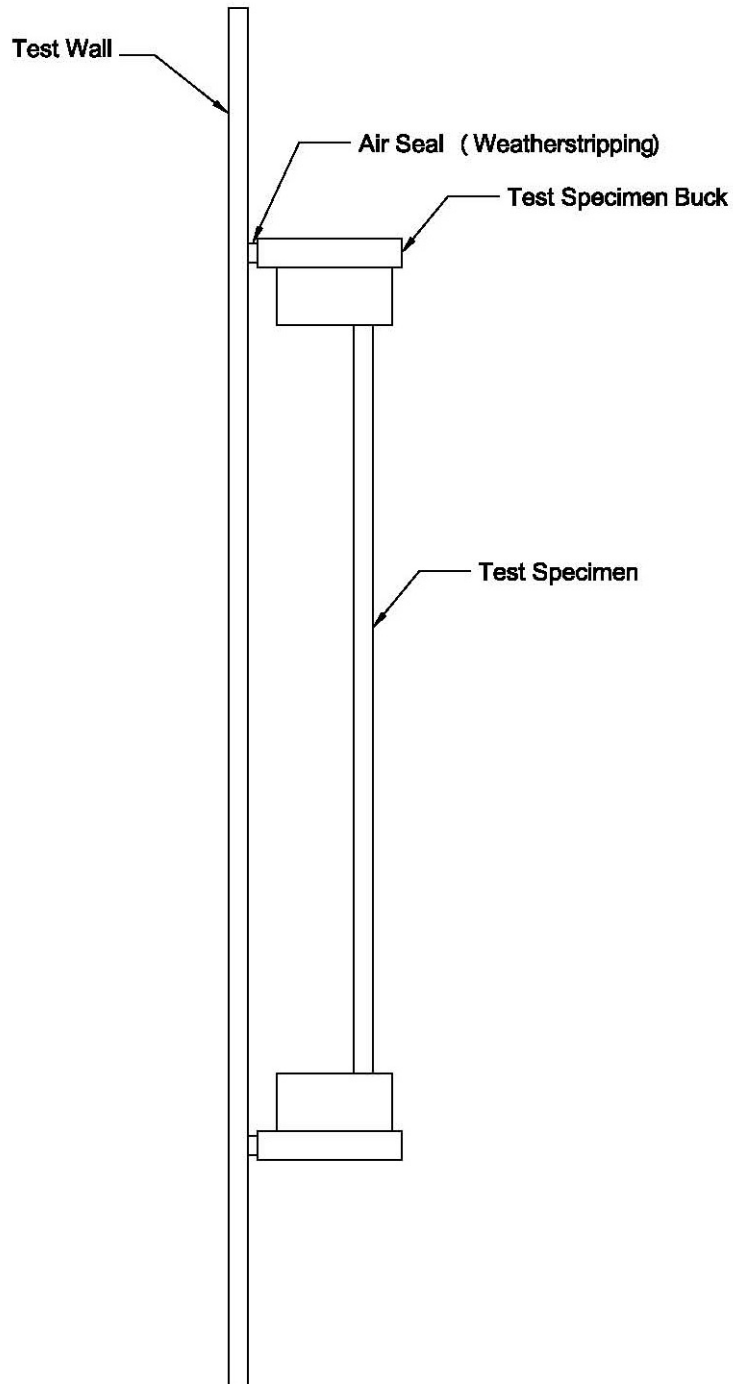
Appendix A

Alteration Addendum

Note: *No alterations were required.*

Appendix B

Location of Air Seal: The air seal between the test specimen and the test wall is detailed below. The seal is made of foam weatherstripping and is attached to the edge of the test specimen buck. The test specimen buck is placed against the test wall and clamped in place, compressing the weatherstripping and creating a seal.



Appendix C

Photographs



Photo No. 1
Specimen #1
Rear After Testing

Appendix D

Drawings



GPI Millwork - Aluminum T-Astragal (NATA).

Tested for structural, air, water gauge performance
and forced entry resistance with Jeld Wen
Steel one light and Fiberglass 6 panel doors

General Notes :

1. This product has been designed to achieve a high structural and water resistance (water gauge) performance.
2. All products tested in compliance with the following:
AAMA/WDMA/CSA 101/1.S.2/A440-08 and 11
ASTM E283; ASTM E331; ASTM E330
3. Wood bucks by others, must be anchored properly to transfer Loads to the structure.
4. Product Anchors: Shall be as listed and spaced as shown on details.
5. Product test results, see Table 1, page 1

Test Door Specifications

Test Door # 2

Door panel - Jeld Wen Steel faced one light - In swing
Jamb & Head - GPI, PVC - see construction notes below
Astragal - Aluminum T- Astragal (NATA) -with shoot bolts top & bottom
Sill - GPI in swing with Standard Cap 1.375"
Sill Pan - GPI PVC Sloped
Door Sweep - GPI adjustable sweep
Hardware - Simply Elegant Signature Line locksets
Glazing - 1" IG with tempered 1/8" glass panels and 3/4" airspace

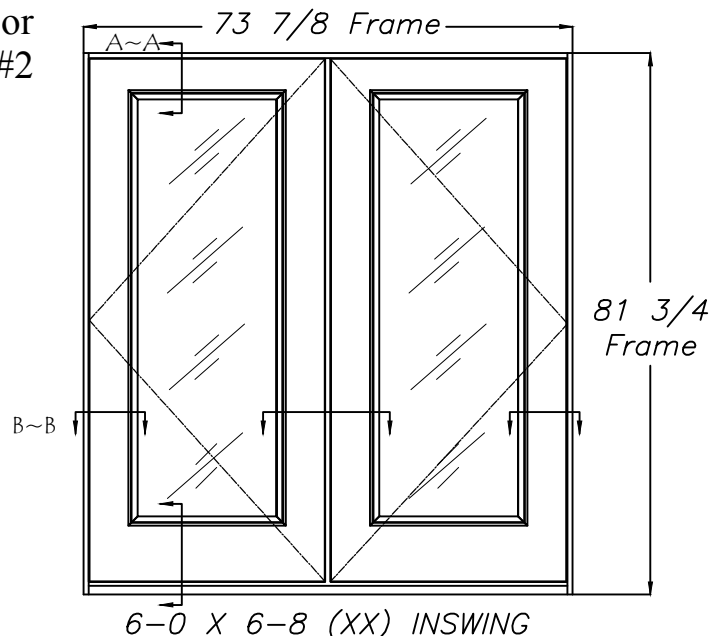
Frame Construction - GPI PVC. The frame is constructed of solid PVC Jamb's 4-9/16" x 1 1/4". The head and jamb's are mortised and butt joined to the side jamb's and attached with (3) #8 x 2 1/2" wood screws on each side. The GPI sill is attached to the side jamb's with three (3) #8 x 2 1/2" wood screws with counter sunk heads. GPI gaskets or silicone is placed between the joint faces.
A GPI PVC sloped sill pan is posited below the frame assembly.

Test Door # 3

Door panel - Jeld Wen Fiberglass - 6 Panel - Out swing
Jamb & Head - Wood - see construction notes below
Astragal - Aluminum T - Astragal (NPTA) - with shoot bolts top & bottom
Sill - GPI Out swing High Dam Cap - 1.75"
Sill Pan - GPI PVC Level
Door Sweep - N/A

Frame Construction - wood. The frame is constructed of finger jointed Pine jamb's 4-9/16" x 1 1/4". The head and jamb's are mortised and butt joined to the side jamb's and attached with (3) 16GA 7/16" crown x 2" long staples on each side. The GPI sill is attached to the side jamb's with three (3) 16GA 7/16" crown x 2" long staples on each side.
A GPI PVC level sill pan is posited below the frame assembly.

Test Door
#2



Test Door
#3

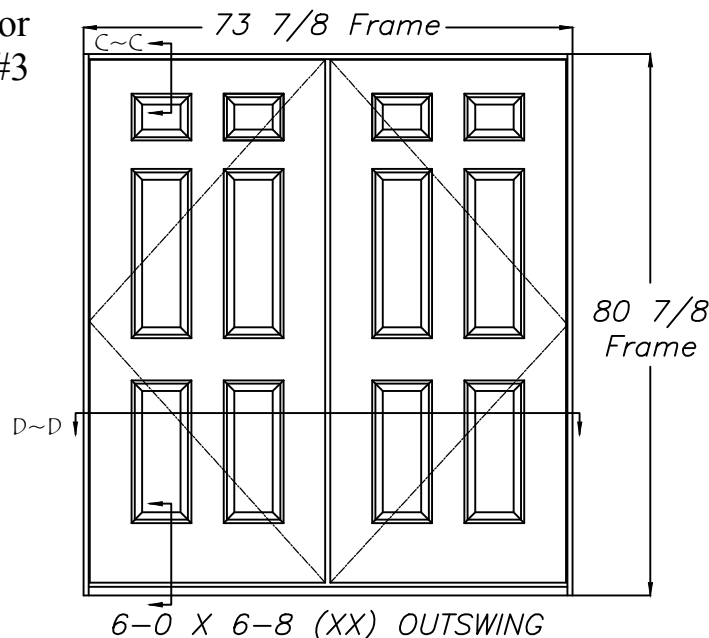


Table 1: TEST RESULTS with GPI Millwork - Aluminum T - ASTRAGAL

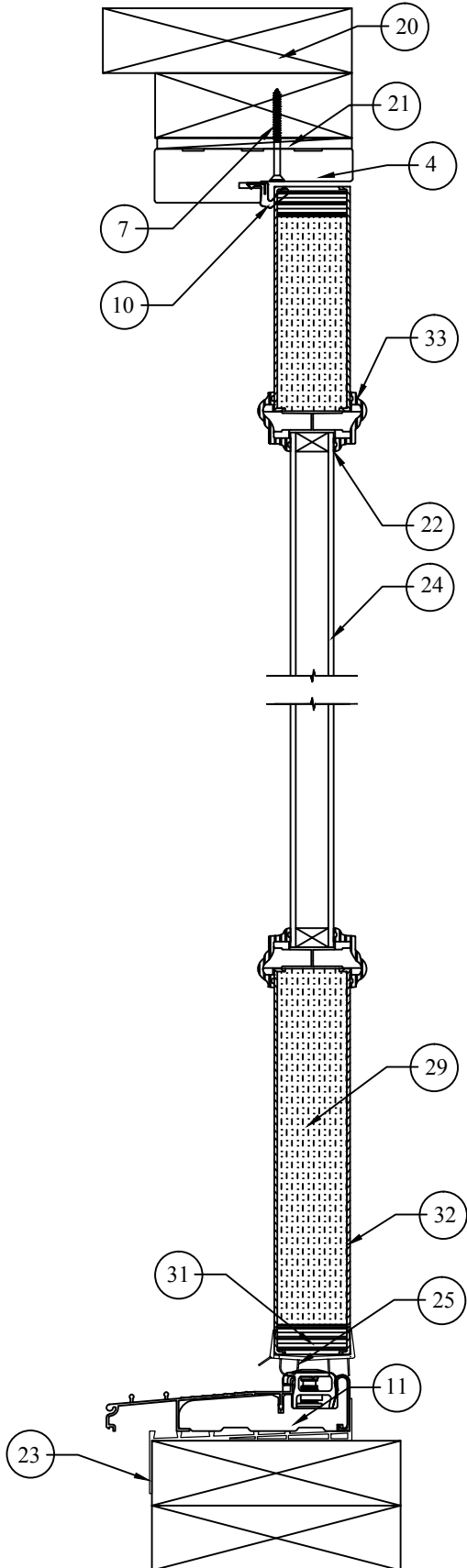
Jeld-Wen Steel	DP Rating	Air	Water Gauge	Forced entry
Double Door	55	0.2	R Limited Water	Passed
In Swing				
Jeld-Wen Fiberglass				
Double Door	45	0.14	8.35	Passed
Out Swing				

Table of Contents	
Sheet #	Description
1	Elevations, General Notes, Results
2	Test Door 2 - Vertical Sections
3	Test Door 2 - Horizontal Sections
4	Test Door 3 - Vertical Sections
5	Test Door 3 - Horizontal Sections
6	Astragal Details
7	Buck and Frame Anchoring
8	Bill of Materials and Components

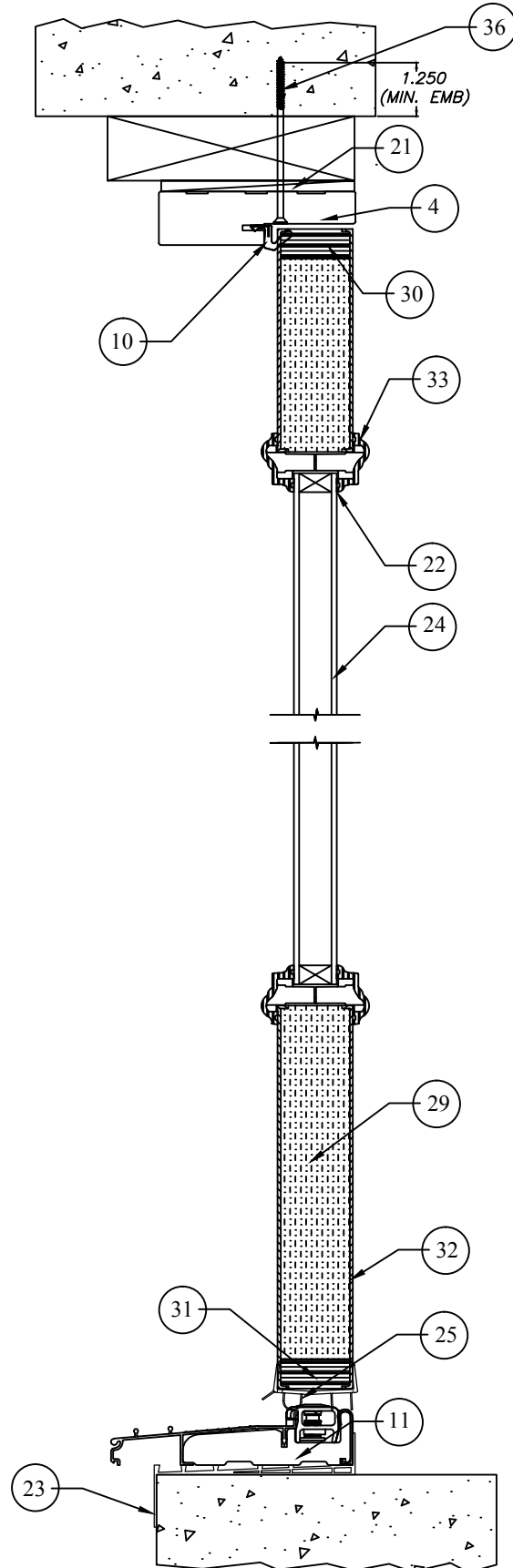


Test Unit #2

Section A~A



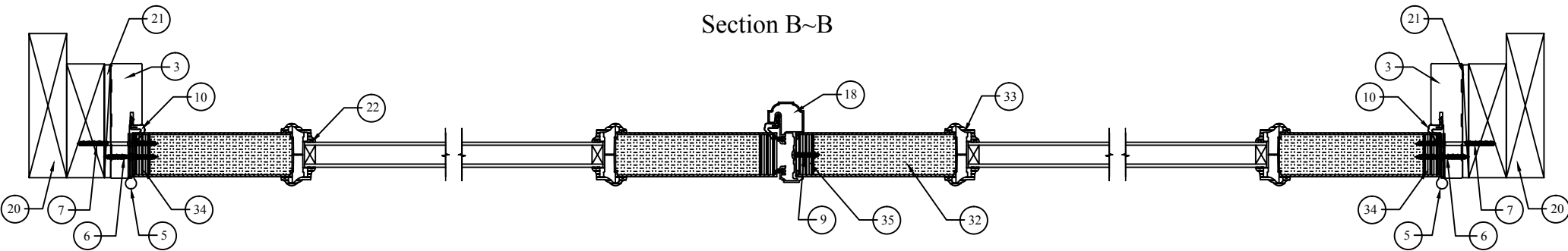
Section A~A Alternative



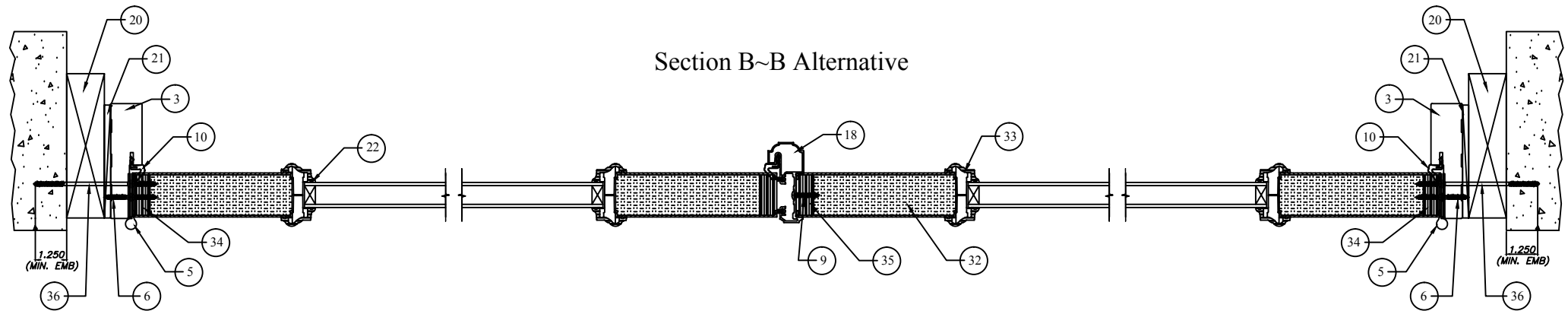


Test Unit #2

Section B~B



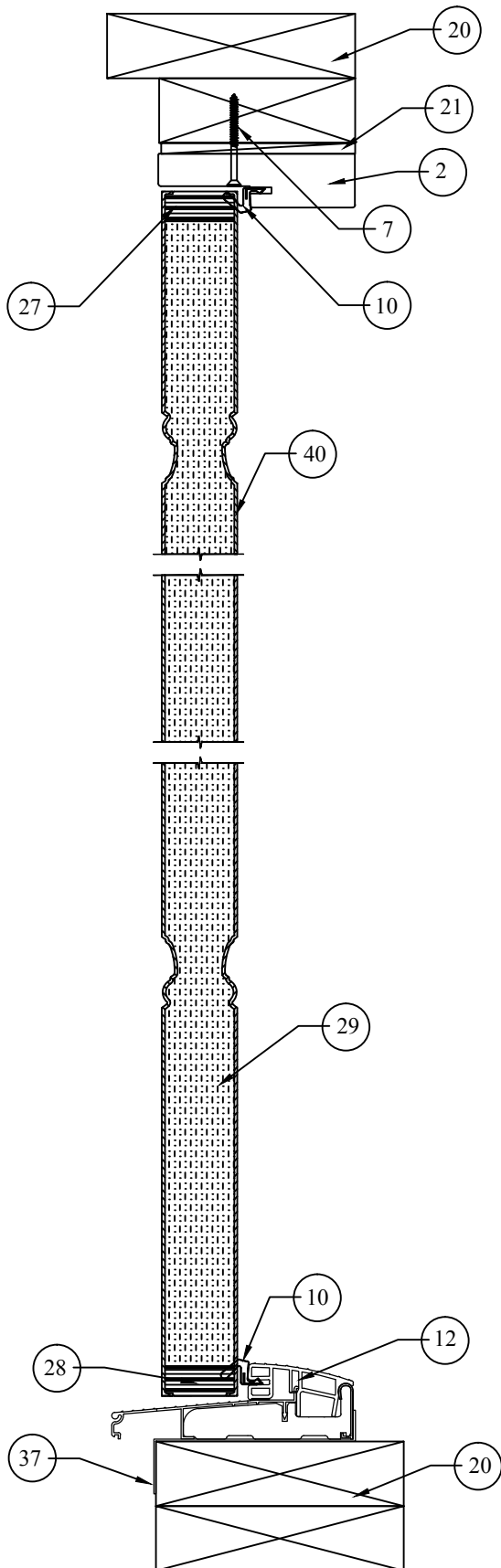
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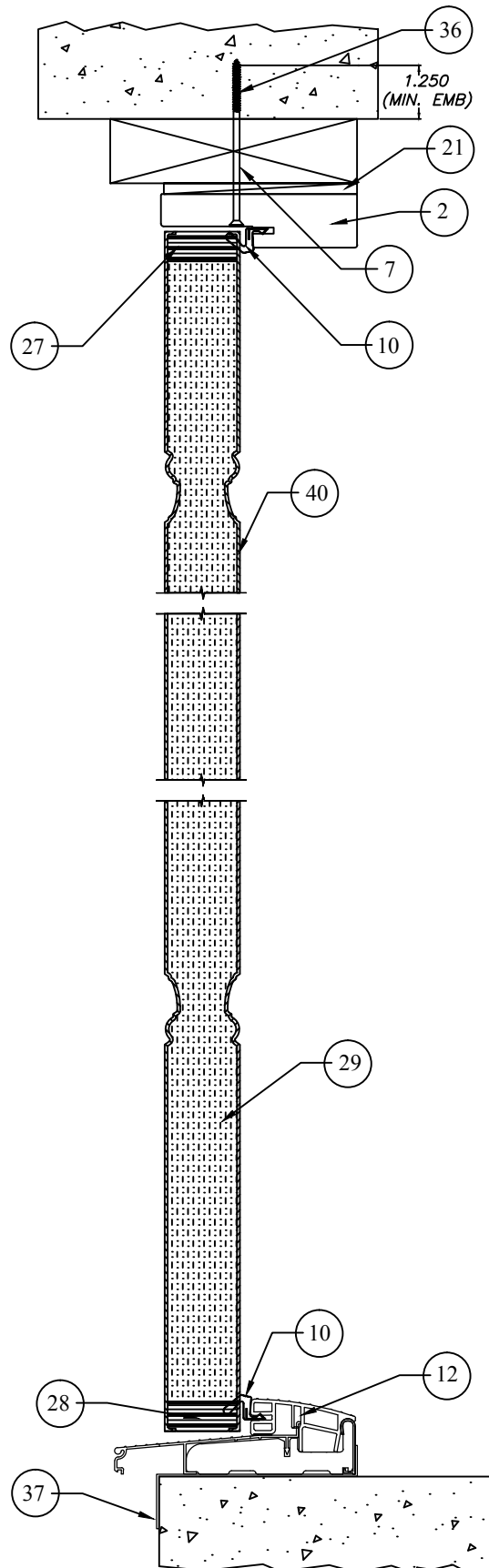


Test Unit #3

Section C ~ C



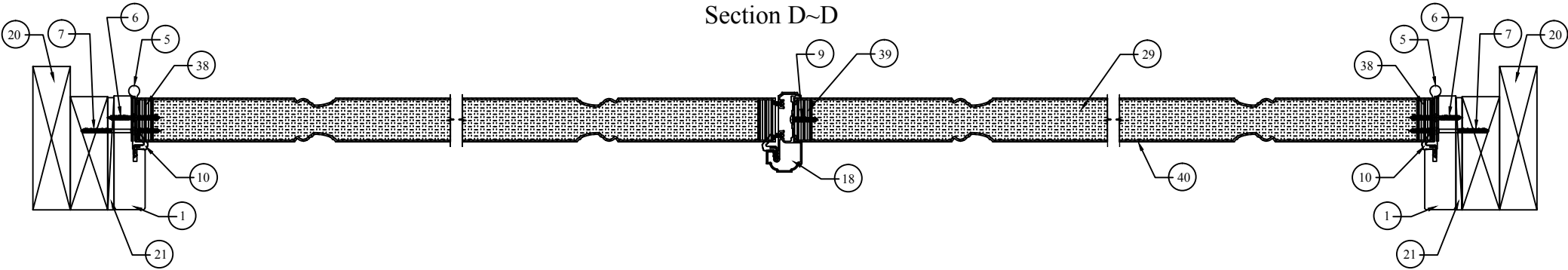
Section C ~ C Alternative



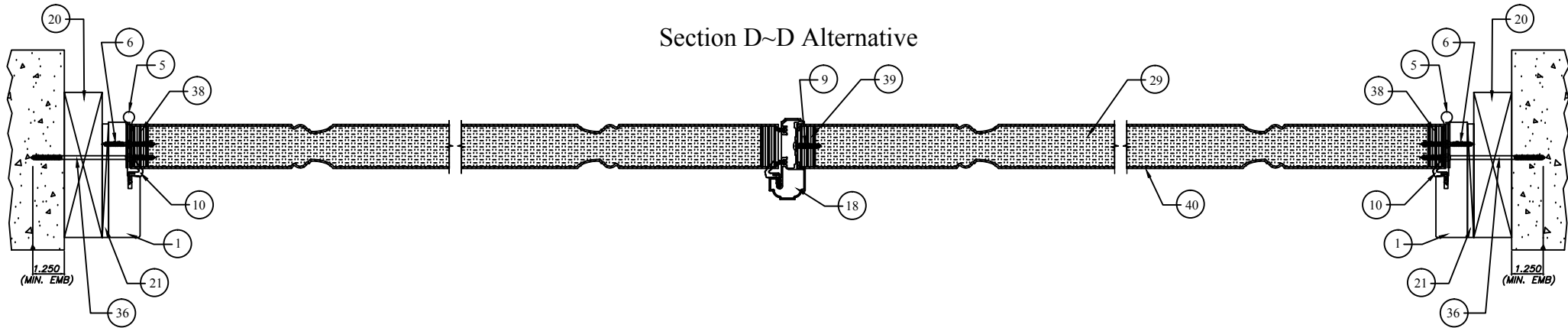


Test Unit #3

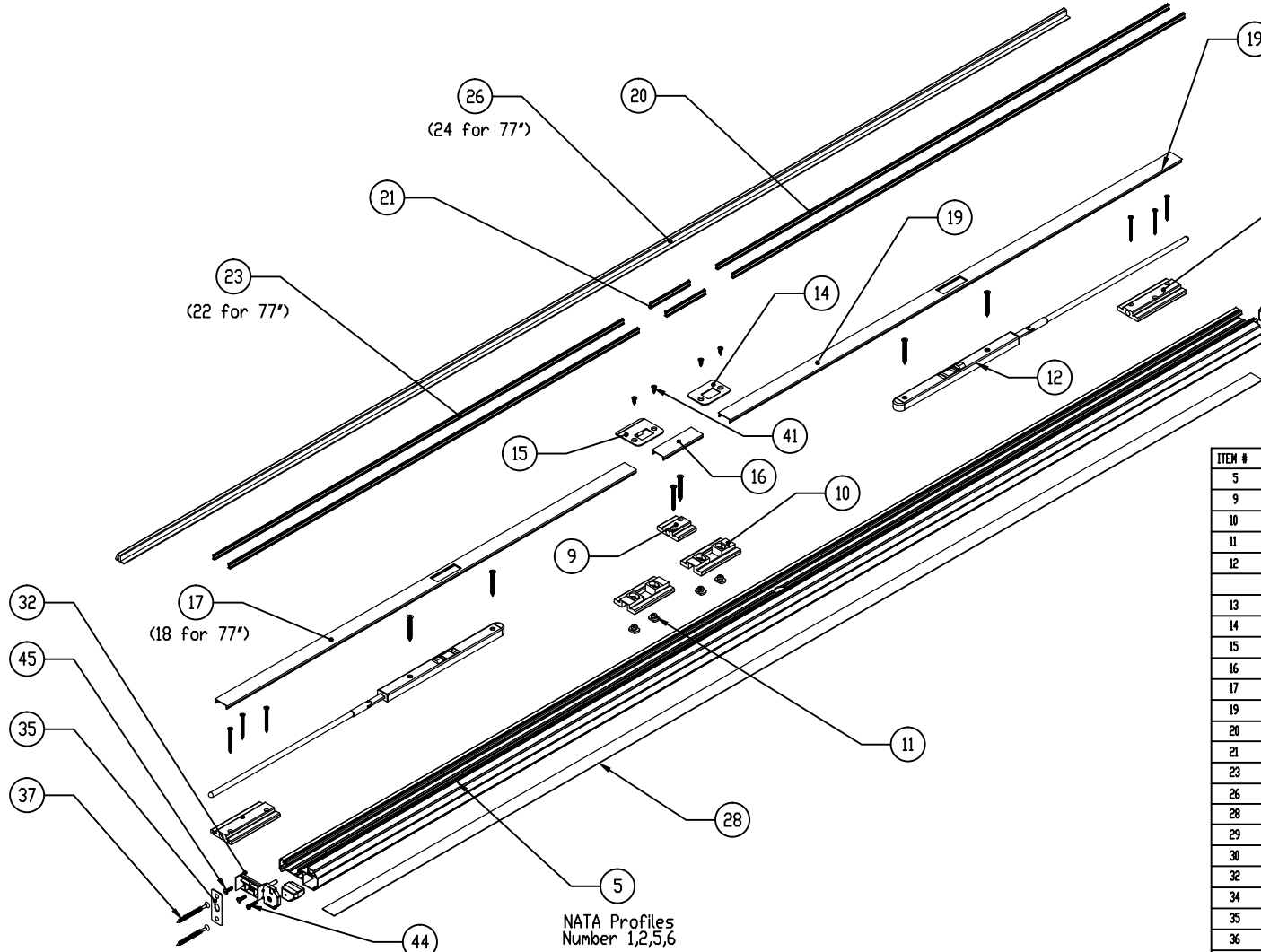
Section D~D



Section D~D Alternative



PATENT PENDING



NATA Profiles
Number 1,2,5,6

ITEM #	COMPONENT (WHITE OPTION)	DESCRIPTION
5	79" ILH NATA-DW	Fabricated Aluminum T-Astragal "N" Series, Inswing Left Hand, 79"
9	Center Support Block	Aluminum extrusion, with screw holes
10	Four Way Adjust Housing	Injection molded Nylon adjustable plate housings, white
11	Four Way Adjust Nuts	Injection molded Nylon nuts, black
12	NLSB Slide Lock Assembly	Locking slide bolt "N" Series Rod Connector, zinc die cast, included with NLSB with NLSB Assembly Rod, steel 1020 with TS440Mpa & hardness 130 HB, included with NLSB Assembly
13	Slide Lock End Guide Block	Aluminum extrusion, with screw holes
14	Deadbolt Plate	Stamped Steel, with bright brass finish, US-3
15	Latch Plate	Stamped Steel, with bright brass finish, US-3
16	Screw Cover, Middle	Extruded PVC
17	Screw Cover, Bottom, 79"	Extruded PVC with stamped opening for NLSB latch
19	Screw Cover, Top, 77" & 79"	Extruded PVC with stamped opening for NLSB latch
20	Wool Pile Weatherstripping (Top)	0.187" x 0.350" woolpile with fin, white
21	Wool Pile Weatherstripping (Middle)	0.187" x 0.350" woolpile with fin, white
23	Wool Pile Weatherstripping (Bottom 79")	0.187" x 0.350" woolpile with fin, white
26	Foam weatherseal, 79" IS	Teflon coated foam weatherseal, white
28	Double-Sided Tape	Double-sided butyl adhesive tape, 0.0315" thick x 0.985" wide(0.8mm x 25mm)
29	NATA Plug	TPR screw plug, black
30	Top Boot-Left	TPR molded Top Boot, "N" series-Left
32	Bottom Boot-Left	TPR molded Bottom Boot, two part, "N" series-Left
34	Bolt Plate-Top-Inswing	Stamped Steel, with bright brass finish, US-3
35	Bolt Plate-Bottom	Stamped Steel, with bright brass finish, US-3
36	Screws-Top Bolt Plate-Inswing	#8 x 1 1/4" Phillips Wood Screw, bright brass finish, US-3
37	Screws-Bottom Bolt Plate	#8 x 2 1/2" Phillips Wood Screw, bright brass finish, US-3
41	Screws-Latch & Deadbolt	#8 x 1/2" Phillips Thread Forming Screw, bright brass, U-3
44	Screws-Top & Bottom Boots at Plug	#6 x 3/4" Phillips Thread Forming Screw, zinc plated
45	Screws-Bottom Boot	#6 x 5/8" Phillips Sheet Metal Screw, zinc plated

Pg 6

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES [mm]			
.X	± 0.1	ANGLES	± 1°
.XX	± 0.01	FILLET RADIUS	.010-.020
.XXX	± 0.005	BREAK EDGE	.005-.010
.XXXX	± 0.0005	FRACTIONS	± 1/64

DRAWN	GC	12/11/12
CHECK		
APVD		
File Name: NATA-DW Full Assembly with Slide Lock Last Modified: 11/7/2014 11:46:42 PM		

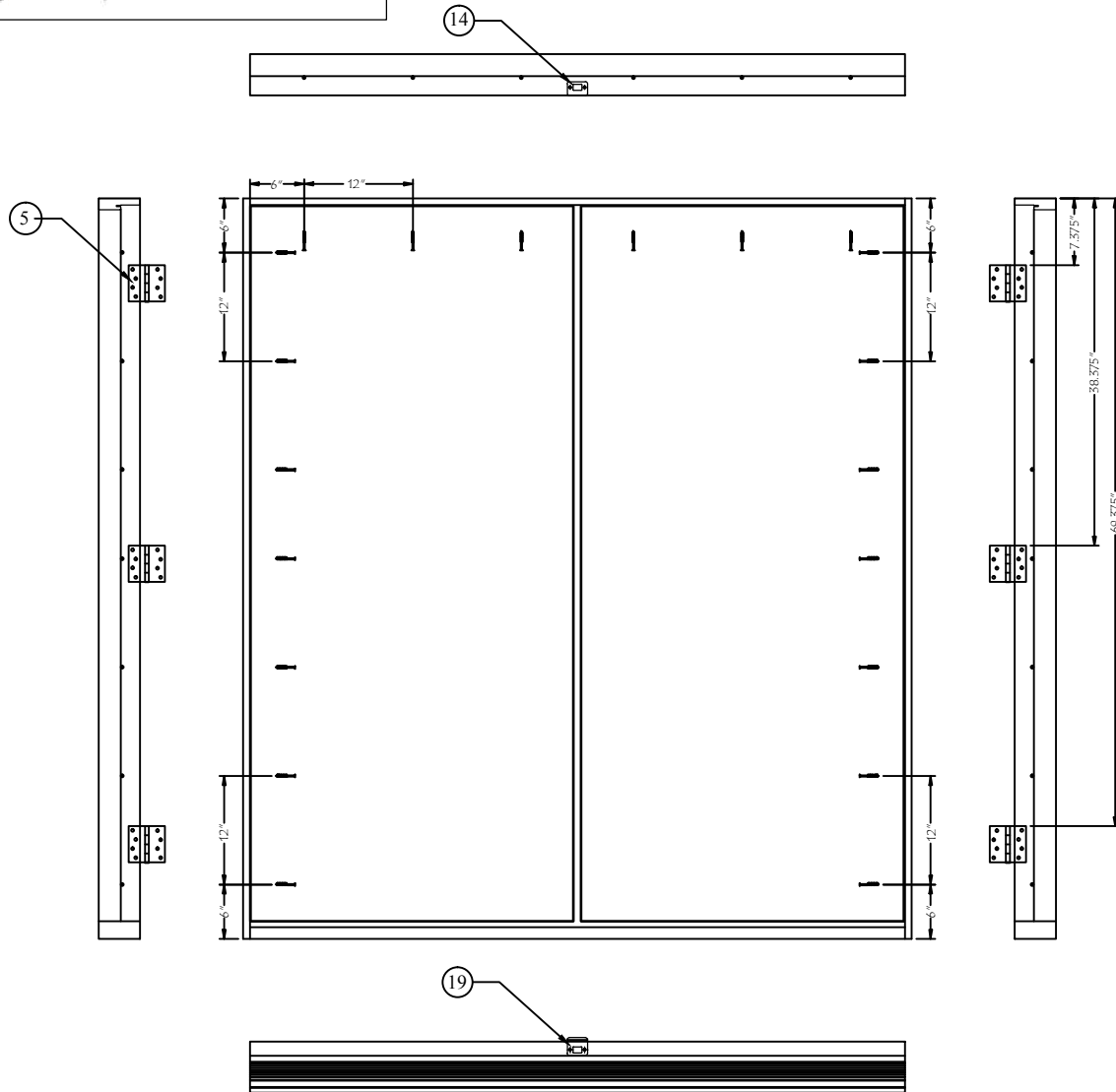


Global Products International Group, LLC

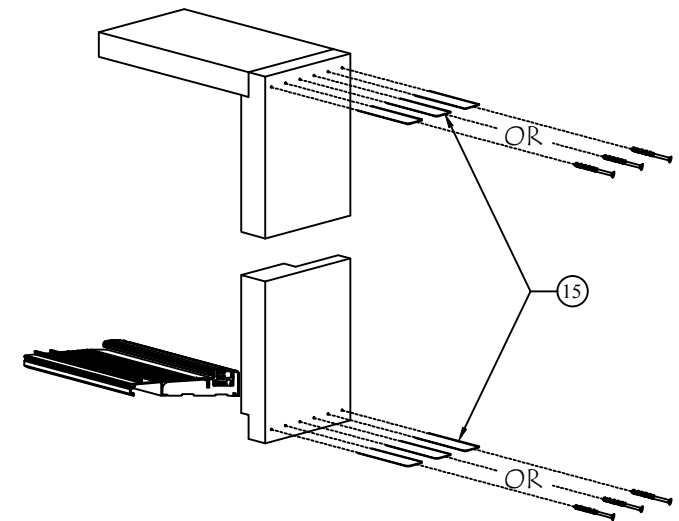
P.O. Box 52927
Atlanta, GA 30355
USA

"Your Doorway to the World's Products"

TITLE:		NATA-DW Inswing Full Assembly with Slide Lock	
SIZE	DWG. NO.	120822-0335	REV H
B	SCALE:	1:1	SHEET: 1 OF 3



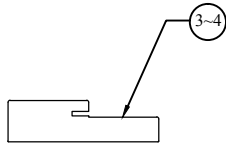
Anchoring Detail.



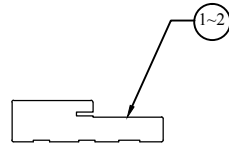
Corner Fastening Detail.



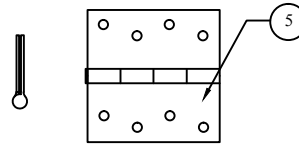
Assorted Parts and Pieces:



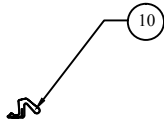
Frame / Head Pine



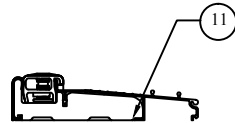
Frame / Head PVC



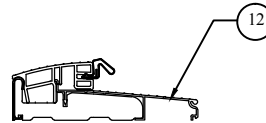
4" x 4" Butt Hinge



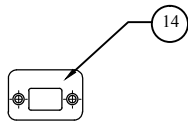
Compression Weatherstrip



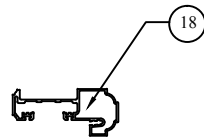
GPI In swing Threshold



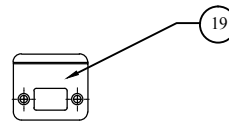
GPI Out swing Threshold



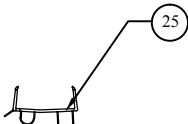
Head Bolt Strike Plate



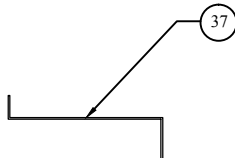
GPI Aluminum Astragal
(NATA)



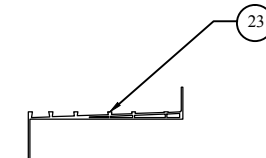
Sill Bolt Strike Plate



Adjustable Weather Seal



GPI PVC Level Sill Pan



GPI PVC Sloped Sill Pan

B.O.M.s for Test Doors # 2 and 3

Item	Description		Material
1.	Side Jamb 1 1/4" x 4 9/16" Finger Jointed Pine	(Test 3)	Pine
2.	Head 1 1/4" x 4 9/16" Finger jointed Pine	(Test 3)	Pine
3.	Side Jamb 1 1/4" x 4 9/16" GPI Millwork solid PVC	(Test 2)	PVC
4.	Head 1 1/4" x 4 9/16" GPI Millwork solid PVC	(Test 2)	PVC
5.	4" x 4" Butt Hinge 12GA		Steel
6.	# 9 x 1" Phillips Flathead Wood screw		Steel
7.	# 10 Phillips HD screw with 1 1/2" minimum embed		Steel
8.	# 8 x 3" Phillips Flathead Wood Screw		Steel
9.	# 8 x 1" Phillips Panhead Wood screw		Steel
10.	Compression Weatherstrip (Q - Lon QDS-650 or similar)		Vinyl
11.	GPI Millwork in swing threshold sill with 1.375" cap	(Test 2)	Vinyl/Alum
12.	GPI Millwork outswing threshold sill w/ high dam 1.75"	(Test 3)	Vinyl/Alum
13.	Astragal Throw Bolt, steel rod 5/16 x 18"		Steel
14.	Astragal Bolt Strike Plate located on Head		Steel
15.	# 8 x 2 1/2" Phillips CS Wood Screws,		Steel
	▪ Alternatively, 16 Ga 7/16" crown x 2" long staples		Steel
16.	Simply Elegant Signature Line Lockset		Aluminum
17.	Simply Elegant Dead Bolt		Aluminum
18.	GPI Millwork Aluminum T-Astragal (NATA)		Aluminum
19.	Astragal Bolt Strike Plate on bottom sill		
20.	2 x wood buck		Wood
21.	Non compression shim		Wood
22.	Dow 995 silicone sealant (or similar)	(Test 3)	Silicone
23.	GPI Millwork PVC sloped sill pan	(Test 2)	PVC
24.	1/8" tempered glass	(Test 3)	Glass
25.	Adjustable Weather seal	(Test 3)	PVC
26.	Lock block (solid wood x 12' long)		Wood
27.	Top rail (wood composite)	(Test 2)	Wood
28.	Bottom rail (wood composite)	(Test 2)	Wood
29.	Expanded polystyrene (1.0 to 1.25lbs density by Jeld Wen)		Foam
30.	Top rail (LVL)	(Test 3)	LVL
31.	Bottom rail (25GA min galvanized steel)	(Test 3)	Steel
32.	Jeld Wen Steel door panel skin material (24 GA Galvanized)	(Test 2)	Steel
	▪ A-525 commercial quality 0.021" min thick		Galvanized
33.	ODL lite Allen frame (alum 6063 T5)	(Test 2)	Aluminum
34.	Hinge side stile (finger jointed LVL)	(Test 3)	LVL
35.	Latch side stile (finger jointed LVL)	(Test 3)	LVL
36.	3/16" ITW Buildex Tapcon with 1.25" min embedment	(Test 3)	Steel
37.	GPI Millwork PVC level sill pan		PVC
38.	Hinge side stile (wood composite)	(Test 2)	Wood
39.	Latch side stile (wood composite)	(Test 2)	Wood
40.	Jeld Wen Fiberglass skinned door panel	(Test 3)	Fiberglass



TEST REPORT

Report No.: E1391.04-550-44

Rendered to:

GLOBAL PRODUCTS INTERNATIONAL GROUP, LLC
Atlanta, Georgia

PRODUCT TYPE: Out-Swing Doors (XX)
SERIES/MODEL: with Aluminum T-Astragal (Test Door #3)

Title	Summary of Results
AAMA/WDMA/CSA 101/I.S.2/A440-11	Class PG R-45 1880 mm x 2057 mm (74 x 81in) - SHD
Design Pressure	±2160 Pa (±45.11 psf)
Air Infiltration	0.7 L/s/m ² (0.14 cfm/ft ²)
Water Penetration Resistance Test Pressure	400 Pa (8.35 psf)
Uniform Load Structural Test Pressure	± 3240 Pa (±67.67 psf)

Test Dates: 11/24/14
Through: 12/18/14
Report Date: 05/15/15

Reference must be made to Report No. E1391.04-550-44, dated 05/15/15 for complete test specimen description and detailed test results.

1.0 Report Issued To: Global Products International Group, LLC
2765 Bankers Industrial Drive, Building F
Atlanta, Georgia 30360

2.0 Test Laboratory: Architectural Testing, Inc.
an Intertek Company ("Intertek-ATI")
1701 Westfork Drive, Suite 106
Lithia Springs, Georgia 30122
770-941-6916

3.0 Project Summary:

3.1 Product Type: Out-Swing Door (XX)

3.2 Series/Model: with Aluminum T-Astragal (Test Door #3)

3.3 Compliance Statement: Results obtained are tested values and were secured by using the designated test method(s). The specimens tested successfully met the performance requirements for the following ratings:

Test Specimen(s)	Title	Summary of Results
1	101/I.S.2/A440-11	Class PG R-45 1880 mm x 2057 mm (74 x 81in) – SHD

3.4 Test Dates: 11/24/2014 - 12/18/2014

3.5 Test Record Retention End Date: All test records for this report will be retained until December 18, 2018.

3.6 Test Location: Intertek-ATI test facility in Lithia Springs, Georgia.

3.7 Test Sample Source: The test specimen was provided by the client. Representative samples of the test specimen(s) will be retained by Intertek-ATI for a minimum of four years from the test completion date.

3.8 Drawing Reference: The test specimen drawings have been reviewed by Intertek-ATI and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek-ATI per the drawings located in Appendix D. Any deviations are documented herein or on the drawings.

3.0 Project Summary: (Continued)

3.1 List of Official Observers:

<u>Name</u>	<u>Company</u>
Terry Wiley	Global Products International
Ryan Chapman	Global Products International
Joel Ivey	Intertek-ATI
Jon Gardner	Intertek-ATI
Ian McKenzie	Intertek-ATI
Jacques Johnson	Intertek-ATI

4.0 Test Method(s):

AAMA/WDMA/CSA 101/IS.2/A440-11, *NAFS 2011 - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

5.0 Test Specimen Description:

5.1 Product Sizes:

Test Specimen #1:

Overall Area: 3.9 m ² (41.5 ft ²)	Width		Height	
	millimeters	inches	millimeters	inches
Overall size	1876	73-7/8	2054	80-7/8
Door Leaf	908	35-3/4	2007	79

5.0 Test Specimen Description: (Continued)

5.2 Frame Construction:

Frame Member	Material	Description
Head/ jamb	Wood	Extruded
Sill	Al/PVC	GPI Out-swing high dam Cap-1.75"
Sill pan	PVC	Positioned below the frame assembly

	Joinery Type	Detail
Head/jamb	Mortised and Butted	Silicone is placed between the joint faces. The head and jamb are mortised and butt joined to the side jambs with three 16ga 7/16" x 2" long staples on each side.
Sill	Mortised and Butted	Silicone is placed between the joint faces. The sill is secured to the side of the jambs with three 16ga 7/16" x 2" long staples on each side. A sill pan is positioned below the frame assembly.

5.3 Leaf Construction:

Leaf Member	Material	Description
Door	Fiberglass	Fiberglass skin with expanded polystyrene
Top rail	LVL	Extruded
Bottom rail	Steel	Extruded 24ga Steel
Hinge side stile	LVL	Extruded
Latch side stile	LVL	Extruded
T-Astragal	Aluminum	Aluminum T-Astragal (NATA - with shoot bolts top & bottom)

	Joinery Type	Detail
All corners	Mortised and Butted	Silicone is used between the joint faces. The corners are secured with Finger jointed LVL.
T-Astragal	Mechanically Fastened	Astragal is fastened to the head using two #8 x 1-1/4" and the sill using two #8 x 2-1/2" screws.

5.0 Test Specimen Description: (Continued)

5.4 Weatherstripping:

Description	Quantity	Location
Compression gasket	3 rows	Interior of vent head/sill/jamb. Two rows are placed on the Astragal on the meeting stile between the door leaves.

5.5 Drainage: No drainage was utilized.

5.6 Hardware:

Description	Quantity	Location
Butt Hinges	6	Three on each stile of the door leaf.
Strike Plate	4	One on the frame head, one on the sill, and two on the stile of the door leaf.
Handle	1	On the primary door leaf.
Simple Elegant Signature Line	1	On the primary door leaf.
Locking Slide Bolt	2	One on the top of the Astragal and one on the bottom of the Astragal.

5.7 Reinforcement: No reinforcement was utilized.

6.0 Installation:

The specimen was installed into a 2x10 Spruce-Pine-Fir wood buck. The rough opening allowed for a 1/4" shim space. The exterior perimeter of the door was sealed with sealant.

Location	Anchor Description	Anchor Location
Head, sill & jambs	#10 x 1-1/2" Phillips head screw	6" from each end, 12" on center thereafter.
Astragal	#8 x 3-1/4" screw and #8 x 1-1/4" screws	Two are secured to the sill of the frame and two are secured into the head of the frame.

7.0 Test Results: The temperature during testing was 21°C (70°F). The results are tabulated as follows:

Title of Test	Results	Allowed	Note
Air Leakage, Infiltration per ASTM E 283 at 75 Pa (1.57 psf)	<0.7 L/s/m ² (0.14 cfm/ft ²)	1.5 L/s/m ² (0.3 cfm/ft ²) max.	1
Water Penetration, ASTM E 547 400 Pa (8.35 psf)	Pass	No leakage	2
Uniform Load Deflection, per ASTM E 330 taken along astragal +2160 Pa (+45.11 psf) -2160 Pa (-45.11 psf)	33.0 mm (1.3") 25.4 mm (1.0")	Report Only	4, 5, 6
Uniform Load Deflection, per ASTM E 330 taken along bottom of active door +2160 Pa (+45.11 psf) -2160 Pa (-45.11 psf)	5.1 mm (0.2") 10.2 mm (0.4")	Report Only	4, 5, 6
Uniform Load Structural, per ASTM E 330 taken along astragal +3232 Pa (+67.67 psf) -3232 Pa (-67.67 psf)	3.6 mm (0.14") 3.6 mm (0.14")	8.4 mm (0.33") max	5, 6
Uniform Load Structural, per ASTM E 330 taken along bottom of active door +3232 Pa (+67.67 psf) -3232 Pa (-67.67 psf)	1.3 mm (0.05") 0.8 mm (0.03")	3.6 mm (0.14") max	5, 6
Forced Entry Resistance, per AAMA 1304, Type: N/A - Grade: 10	Pass	No entry	

7.0 Test Results: (Continued)

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

Note 2: With and without insect screen.

Note 3: The client opted to start at a pressure higher than the minimum required. Test results are reported under Optional Performance.

Note 4: The deflections reported are not limited by AAMA/WDMA/CSA 101/I.S.2/A440 for this product designation. The deflection data is recorded in this report for special code compliance and information only.

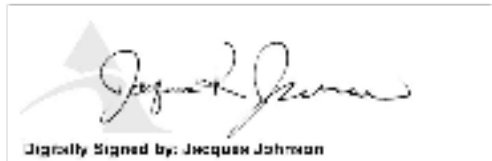
Note 5: Loads were held for 10 seconds.

Note 6: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

Intertek-ATI will service this report for the entire test record retention period. Test records that are retained such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be retained by Intertek-ATI for the entire test record retention period.

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 Intertek-ATI.

For INTERTEK-ATI:



Digitally Signed by: Jacques Johnson

Jacques R. Johnson
Project Technician



Digitally Signed by: Ian J. McKenzie

Ian J. McKenzie
Lab Manager – Regional Operations

JRJ:IJM/jab

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

Appendix-A: Alteration Addendum (1)

Appendix-B: Location of Air Seal (1)

Appendix-C: Photographs (1)

Appendix-D: Drawings (8)

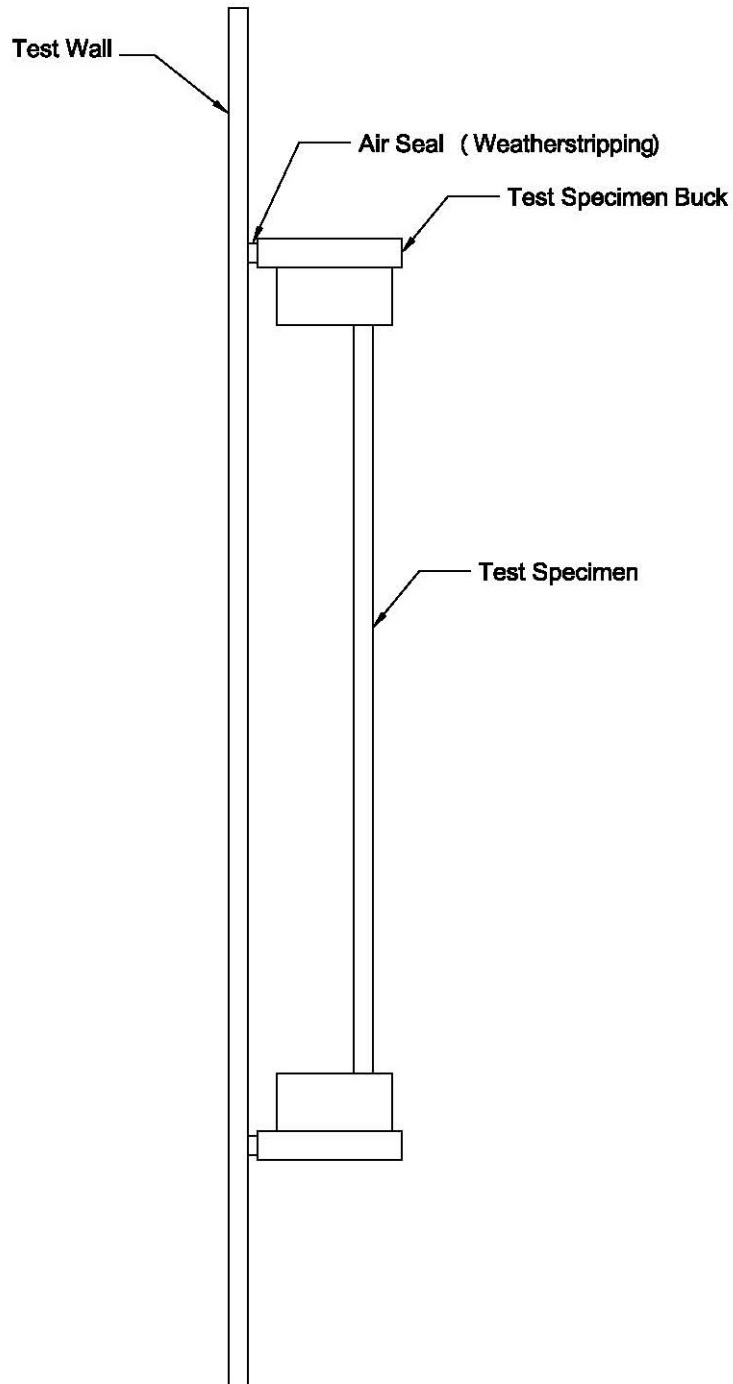
Appendix A

Alteration Addendum

Note: *No alterations were required.*

Appendix B

Location of Air Seal: The air seal between the test specimen and the test wall is detailed below. The seal is made of foam weatherstripping and is attached to the edge of the test specimen buck. The test specimen buck is placed against the test wall and clamped in place, compressing the weatherstripping and creating a seal.



Appendix C

Photographs



Photo No. 1
Specimen #1
Front View

Appendix D

Drawings



GPI Millwork - Aluminum T-Astragal (NATA).

Tested for structural, air, water gauge performance
and forced entry resistance with Jeld Wen
Steel one light and Fiberglass 6 panel doors

General Notes :

1. This product has been designed to achieve a high structural and water resistance (water gauge) performance.
2. All products tested in compliance with the following:
AAMA/WDMA/CSA 101/1.S.2/A440-08 and 11
ASTM E283; ASTM E331; ASTM E330
3. Wood bucks by others, must be anchored properly to transfer Loads to the structure.
4. Product Anchors: Shall be as listed and spaced as shown on details.
5. Product test results, see Table 1, page 1

Test Door Specifications

Test Door # 2

Door panel - Jeld Wen Steel faced one light - In swing
Jamb & Head - GPI, PVC - see construction notes below
Astragal - Aluminum T- Astragal (NATA) -with shoot bolts top & bottom
Sill - GPI in swing with Standard Cap 1.375"
Sill Pan - GPI PVC Sloped
Door Sweep - GPI adjustable sweep
Hardware - Simply Elegant Signature Line locksets
Glazing - 1" IG with tempered 1/8" glass panels and 3/4" airspace

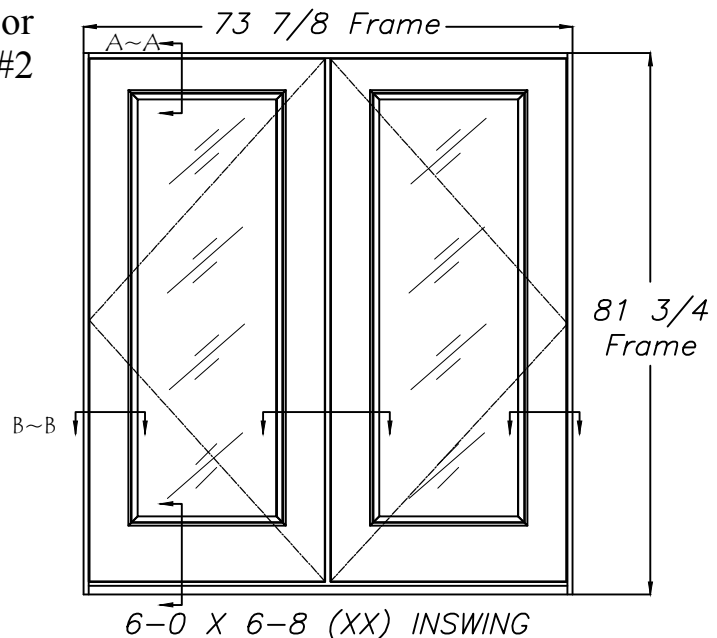
Frame Construction - GPI PVC. The frame is constructed of solid PVC Jamb's 4-9/16" x 1 1/4". The head and jamb's are mortised and butt joined to the side jamb's and attached with (3) #8 x 2 1/2" wood screws on each side. The GPI sill is attached to the side jamb's with three (3) #8 x 2 1/2" wood screws with counter sunk heads. GPI gaskets or silicone is placed between the joint faces.
A GPI PVC sloped sill pan is posited below the frame assembly.

Test Door # 3

Door panel - Jeld Wen Fiberglass - 6 Panel - Out swing
Jamb & Head - Wood - see construction notes below
Astragal - Aluminum T - Astragal (NPTA) - with shoot bolts top & bottom
Sill - GPI Out swing High Dam Cap - 1.75"
Sill Pan - GPI PVC Level
Door Sweep - N/A

Frame Construction - wood. The frame is constructed of finger jointed Pine jamb's 4-9/16" x 1 1/4". The head and jamb's are mortised and butt joined to the side jamb's and attached with (3) 16GA 7/16" crown x 2" long staples on each side. The GPI sill is attached to the side jamb's with three (3) 16GA 7/16" crown x 2" long staples on each side.
A GPI PVC level sill pan is posited below the frame assembly.

Test Door
#2



Test Door
#3

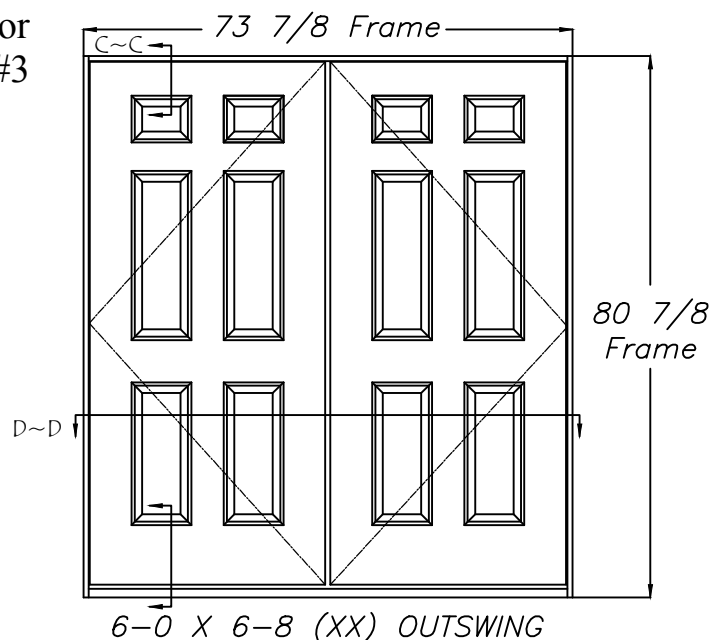


Table 1: TEST RESULTS with GPI Millwork - Aluminum T - ASTRAGAL

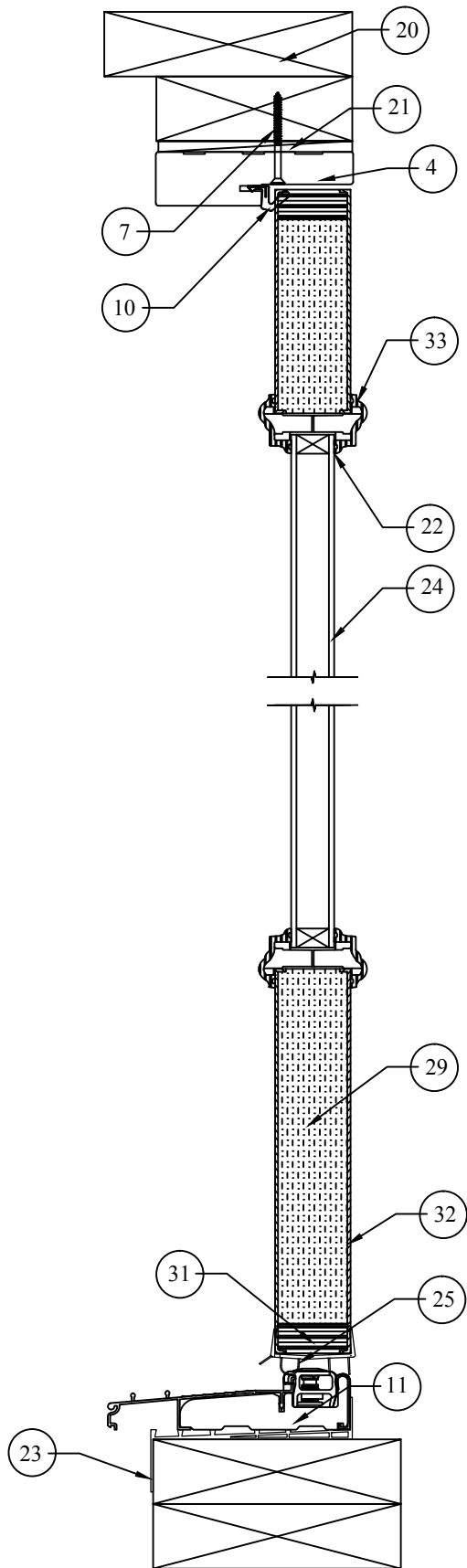
Jeld-Wen Steel	DP Rating	Air	Water Gauge	Forced entry
Double Door	55	0.2	R Limited Water	Passed
In Swing				
Jeld-Wen Fiberglass				
Double Door	45	0.14	8.35	Passed
Out Swing				

Table of Contents	
Sheet #	Description
1	Elevations, General Notes, Results
2	Test Door 2 - Vertical Sections
3	Test Door 2 - Horizontal Sections
4	Test Door 3 - Vertical Sections
5	Test Door 3 - Horizontal Sections
6	Astragal Details
7	Buck and Frame Anchoring
8	Bill of Materials and Components

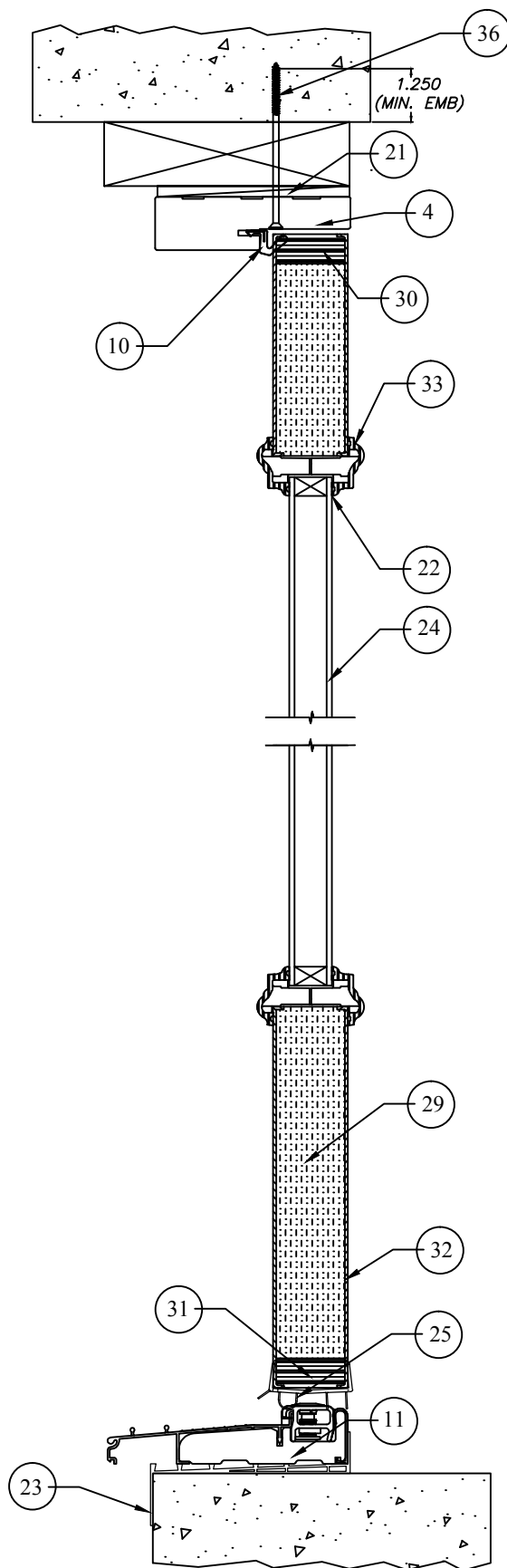


Test Unit #2

Section A~A



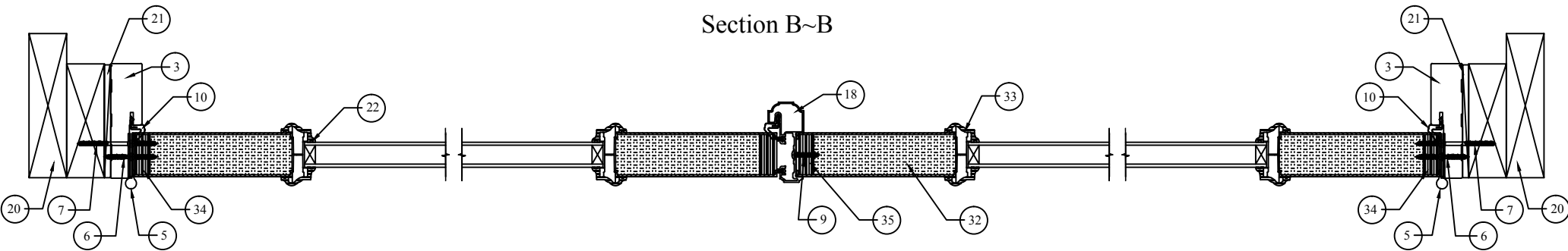
Section A~A Alternative



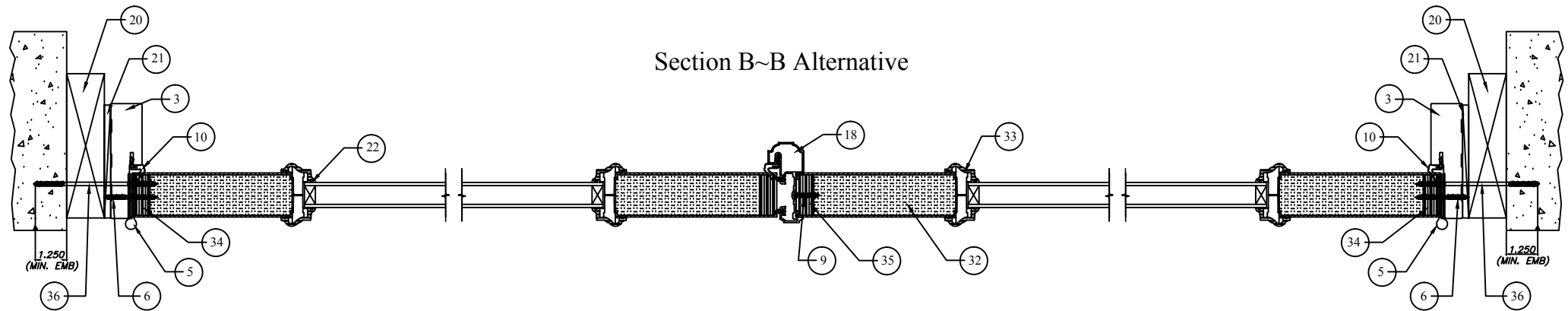


Test Unit #2

Section B~B



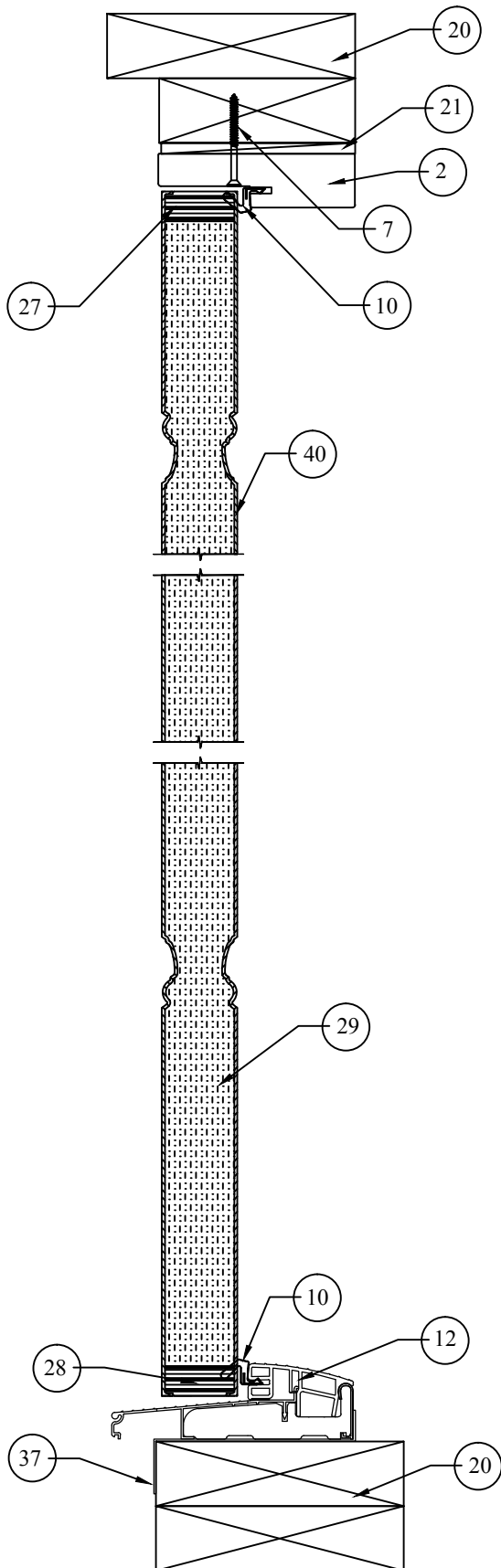
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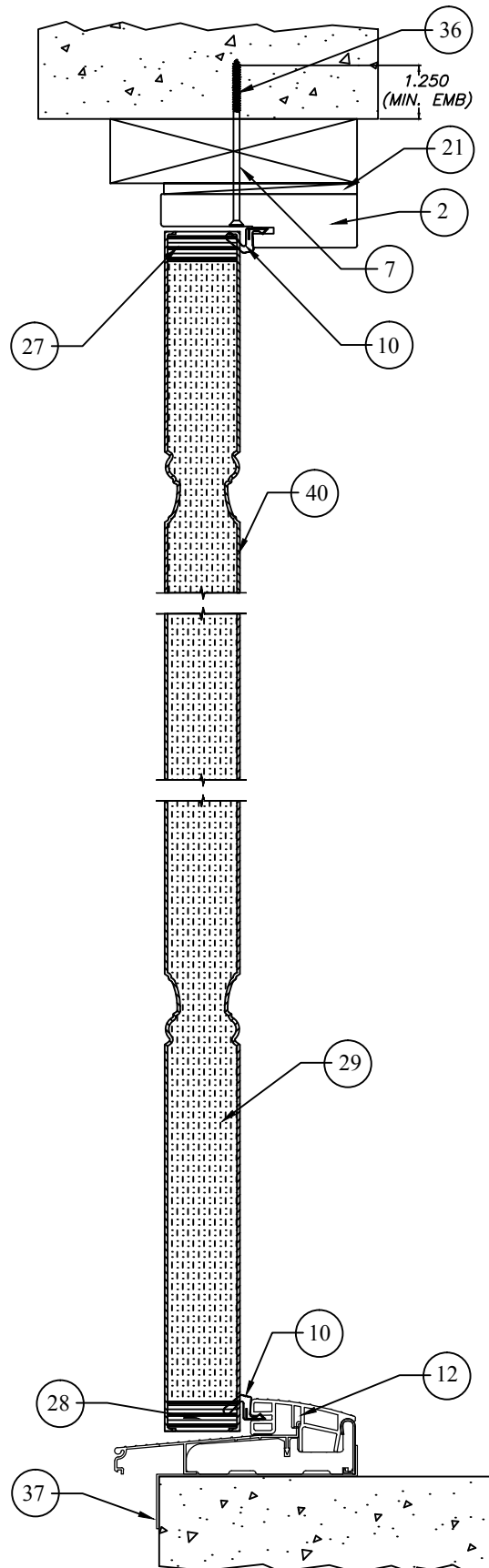


Test Unit #3

Section C ~ C



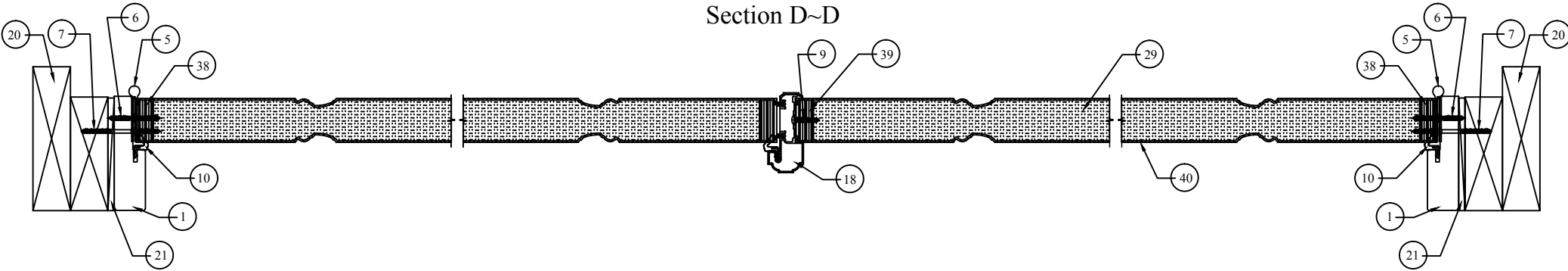
Section C ~ C Alternative



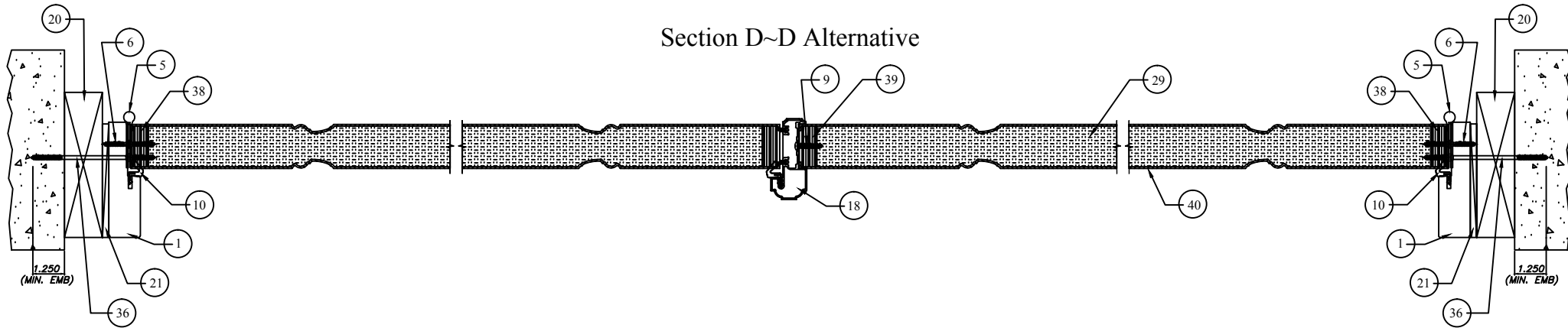


Test Unit #3

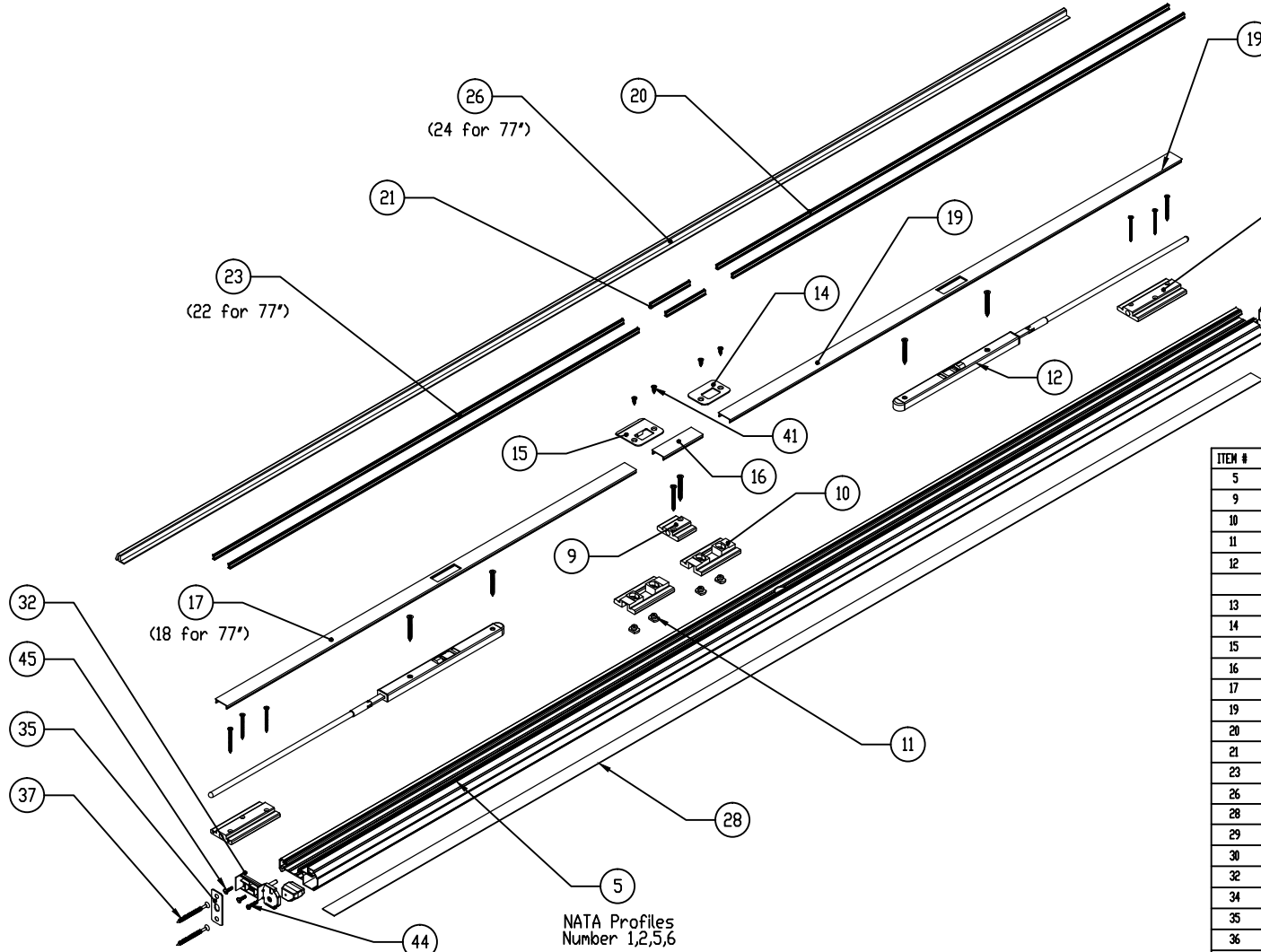
Section D~D



Section D~D Alternative



PATENT PENDING



NATA Profiles
Number 1,2,5,6

ITEM #	COMPONENT (WHITE OPTION)	DESCRIPTION
5	79" ILH NATA-DW	Fabricated Aluminum T-Astragal "N" Series, Inswing Left Hand, 79"
9	Center Support Block	Aluminum extrusion, with screw holes
10	Four Way Adjust Housing	Injection molded Nylon adjustable plate housings, white
11	Four Way Adjust Nuts	Injection molded Nylon nuts, black
12	NLSB Slide Lock Assembly	Locking slide bolt "N" Series Rod Connector, zinc die cast, included with NLSB with NLSB Assembly Rod, steel 1020 with TS440Mpa & hardness 130 HB, included with NLSB Assembly
13	Slide Lock End Guide Block	Aluminum extrusion, with screw holes
14	Deadbolt Plate	Stamped Steel, with bright brass finish, US-3
15	Latch Plate	Stamped Steel, with bright brass finish, US-3
16	Screw Cover, Middle	Extruded PVC
17	Screw Cover, Bottom, 79"	Extruded PVC with stamped opening for NLSB latch
19	Screw Cover, Top, 77" & 79"	Extruded PVC with stamped opening for NLSB latch
20	Wool Pile Weatherstripping (Top)	0.187" x 0.350" woolpile with fin, white
21	Wool Pile Weatherstripping (Middle)	0.187" x 0.350" woolpile with fin, white
23	Wool Pile Weatherstripping (Bottom 79")	0.187" x 0.350" woolpile with fin, white
26	Foam weatherseal, 79" IS	Teflon coated foam weatherseal, white
28	Double-Sided Tape	Double-sided butyl adhesive tape, 0.0315" thick x 0.985" wide(0.8mm x 25mm)
29	NATA Plug	TPR screw plug, black
30	Top Boot-Left	TPR molded Top Boot, "N" series-Left
32	Bottom Boot-Left	TPR molded Bottom Boot, two part, "N" series-Left
34	Bolt Plate-Top-Inswing	Stamped Steel, with bright brass finish, US-3
35	Bolt Plate-Bottom	Stamped Steel, with bright brass finish, US-3
36	Screws-Top Bolt Plate-Inswing	#8 x 1 1/4" Phillips Wood Screw, bright brass finish, US-3
37	Screws-Bottom Bolt Plate	#8 x 2 1/2" Phillips Wood Screw, bright brass finish, US-3
41	Screws-Latch & Deadbolt	#8 x 1/2" Phillips Thread Forming Screw, bright brass, U-3
44	Screws-Top & Bottom Boots at Plug	#6 x 3/4" Phillips Thread Forming Screw, zinc plated
45	Screws-Bottom Boot	#6 x 5/8" Phillips Sheet Metal Screw, zinc plated

Pg 6

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UNLESS OTHERWISE SPECIFIED			
DIMENSIONS ARE IN INCHES [mm]			
.X	± 0.1	ANGLES	± 1°
.XX	± 0.01	FILLET RADIUS	.010-.020
.XXX	± 0.005	BREAK EDGE	.005-.010
.XXXX	± 0.0005	FRACTIONS	± 1/64

DRAWN	GC	12/11/12
CHECK		
APVD		
File Name: NATA-DW Full Assembly with Slide Lock		
Last Modified: 17736/14 11:46:42 PM		

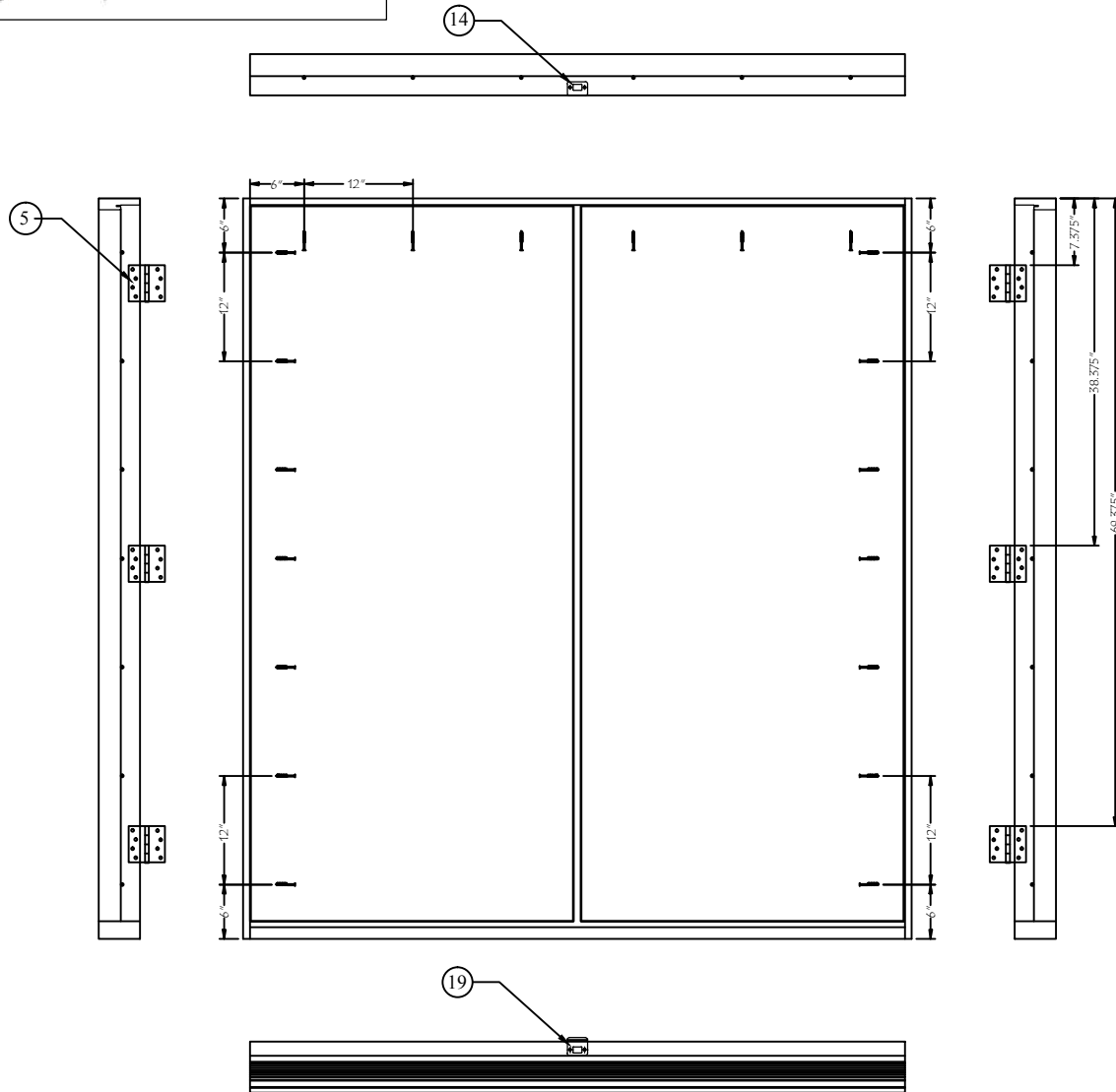


Global Products International Group, LLC

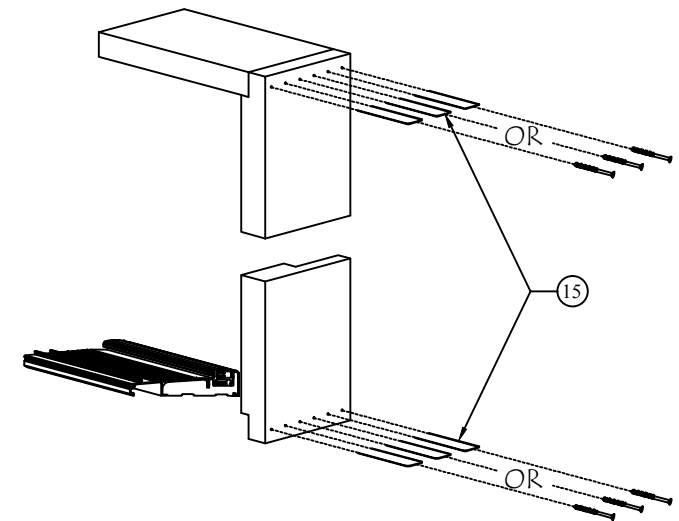
P.O. Box 52927
Atlanta, GA 30355
USA

"Your Doorway to the World's Products"

TITLE:		NATA-DW Inswing Full Assembly with Slide Lock	
SIZE	DWG. NO.	120822-0335	REV H
B	SCALE:	1:1	SHEET: 1 OF 3



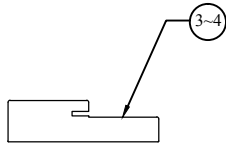
Anchoring Detail.



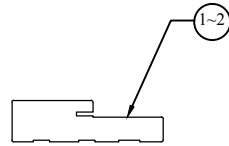
Corner Fastening Detail.



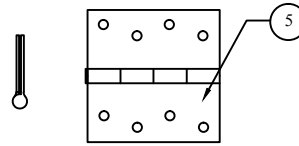
Assorted Parts and Pieces:



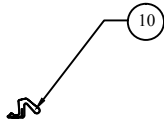
Frame / Head Pine



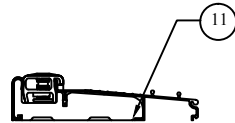
Frame / Head PVC



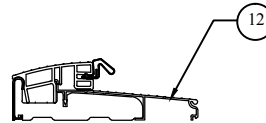
4" x 4" Butt Hinge



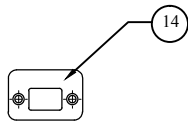
Compression Weatherstrip



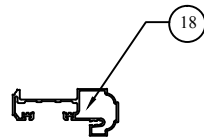
GPI In swing Threshold



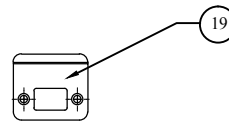
GPI Out swing Threshold



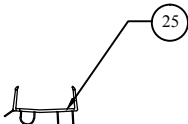
Head Bolt Strike Plate



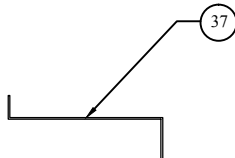
GPI Aluminum Astragal
(NATA)



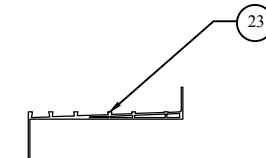
Sill Bolt Strike Plate



Adjustable Weather Seal



GPI PVC Level Sill Pan



GPI PVC Sloped Sill Pan

B.O.M.s for Test Doors # 2 and 3

Item	Description		Material
1.	Side Jamb 1 1/4" x 4 9/16" Finger Jointed Pine	(Test 3)	Pine
2.	Head 1 1/4" x 4 9/16" Finger jointed Pine	(Test 3)	Pine
3.	Side Jamb 1 1/4" x 4 9/16" GPI Millwork solid PVC	(Test 2)	PVC
4.	Head 1 1/4" x 4 9/16" GPI Millwork solid PVC	(Test 2)	PVC
5.	4" x 4" Butt Hinge 12GA		Steel
6.	# 9 x 1" Phillips Flathead Wood screw		Steel
7.	# 10 Phillips HD screw with 1 1/2" minimum embed		Steel
8.	# 8 x 3" Phillips Flathead Wood Screw		Steel
9.	# 8 x 1" Phillips Panhead Wood screw		Steel
10.	Compression Weatherstrip (Q - Lon QDS-650 or similar)		Vinyl
11.	GPI Millwork in swing threshold sill with 1.375" cap	(Test 2)	Vinyl/Alum
12.	GPI Millwork outswing threshold sill w/ high dam 1.75"	(Test 3)	Vinyl/Alum
13.	Astragal Throw Bolt, steel rod 5/16 x 18"		Steel
14.	Astragal Bolt Strike Plate located on Head		Steel
15.	# 8 x 2 1/2" Phillips CS Wood Screws,		Steel
	▪ Alternatively, 16 Ga 7/16" crown x 2" long staples		Steel
16.	Simply Elegant Signature Line Lockset		Aluminum
17.	Simply Elegant Dead Bolt		Aluminum
18.	GPI Millwork Aluminum T-Astragal (NATA)		Aluminum
19.	Astragal Bolt Strike Plate on bottom sill		
20.	2 x wood buck		Wood
21.	Non compression shim		Wood
22.	Dow 995 silicone sealant (or similar)	(Test 3)	Silicone
23.	GPI Millwork PVC sloped sill pan	(Test 2)	PVC
24.	1/8" tempered glass	(Test 3)	Glass
25.	Adjustable Weather seal	(Test 3)	PVC
26.	Lock block (solid wood x 12' long)		Wood
27.	Top rail (wood composite)	(Test 2)	Wood
28.	Bottom rail (wood composite)	(Test 2)	Wood
29.	Expanded polystyrene (1.0 to 1.25lbs density by Jeld Wen)		Foam
30.	Top rail (LVL)	(Test 3)	LVL
31.	Bottom rail (25GA min galvanized steel)	(Test 3)	Steel
32.	Jeld Wen Steel door panel skin material (24 GA Galvanized)	(Test 2)	Steel
	▪ A-525 commercial quality 0.021" min thick		Galvanized
33.	ODL lite Allen frame (alum 6063 T5)	(Test 2)	Aluminum
34.	Hinge side stile (finger jointed LVL)	(Test 3)	LVL
35.	Latch side stile (finger jointed LVL)	(Test 3)	LVL
36.	3/16" ITW Buildex Tapcon with 1.25" min embedment	(Test 3)	Steel
37.	GPI Millwork PVC level sill pan		PVC
38.	Hinge side stile (wood composite)	(Test 2)	Wood
39.	Latch side stile (wood composite)	(Test 2)	Wood
40.	Jeld Wen Fiberglass skinned door panel	(Test 3)	Fiberglass