



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Nana Wall System, Inc.
707 Redwood Highway
Mill Valley, Ca 94941

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Series "SL72" Outswing Aluminum Bifold Door

APPROVAL DOCUMENT: Drawing No. 1153, titled "SL72-Folding Aluminum Framed Outswing Glass Wall System", sheets 1 through 6 of 6, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 8/20/02, signed and sealed by Warren Schaefer, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Theodore Berman, P.E.**



NOA No 02-0927.08
Expiration Date: January 09, 2008
Approval Date: January 09, 2003
Page 1

Nana Wall System, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

A. DRAWINGS

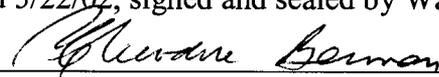
1. Manufacturer's die drawings and sections.
2. Drawing No. **1153**, titled "SL72-Folding Aluminum Framed Outswing Glass Wall System", sheets 1 through 6 of 6, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 8/20/02, signed and sealed by Warren Schaefer, P.E.

B. TESTS

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 3603.2 (b) and TAS 202-94
along with marked-up drawings and installation diagram of a four panel aluminum bifold inswing door, prepared by Architectural Testing, Inc., Test Report No. ATI 03-31448.06, dated 5/1/02 signed and sealed by Allen N. Reeves, P.E.
2. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 3603.2 (b) and TAS 202-94
along with marked-up drawings and installation diagram of a four panel aluminum bifold inswing door, prepared by Architectural Testing, Inc., Test Report No. ATI 03-31448.05, dated 4/29/02 signed and sealed by Allen N. Reeves, P.E.
3. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 3603.2 (b) and TAS 202-94
along with marked-up drawings and installation diagram of a four panel aluminum bifold inswing door, prepared by Architectural Testing, Inc., Test Report No. ATI 03-31448.04, dated 6/6/02 signed and sealed by Allen N. Reeves, P.E.

C. CALCULATIONS

1. Anchor Calculations and structural analysis, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 5/22/02, signed and sealed by Warren Schaefer, P.E.



Theodore Berman, P.E.

Deputy Director, Product Control Division

NOA No 02-0927.08

Expiration Date: January 09, 2008

Approval Date: January 09, 2003

Nana Wall System, Inc.

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(For File ONLY. Not part of NOA)

D. MATERIAL CERTIFICATIONS

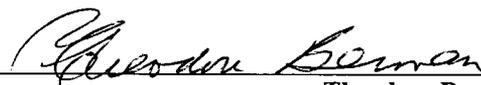
1. Notice of Acceptance No. **98-0728.05** issued to Solutia, Inc. for "Saflex IIIG PVB Polyvinyl butryal interlayer" dated 8/27/98, expiring on 5/21/01.
2. Notice of Acceptance No. **00-082203** issued to Solutia, Inc. for "Saflex HP" dated 10/19/00, expiring on 4/14/03.
3. Notice of Acceptance No. **01-1204.01** issued to E.I. DuPont DeNemours for "Sentry Glass Plus" dated 1/17/02, expiring on 1/14/07.

E. STATEMENTS

1. Statement letter of conformance, dated 6/7/02, signed and sealed by Warren Schaefer, P.E.
2. Statement letter of no financial interest, dated 6/7/02, signed and sealed by Warren Schaefer, P.E.
3. Laboratory compliance letter for Test Report no. ATI 03-31448.06, issued by Architectural Testing, Inc., dated 8/16/02, signed and sealed by Allen N. Reeves, P.E.
4. Laboratory compliance letter for Test Report no. ATI 03-31448.05, issued by Architectural Testing, Inc., dated 8/15/02, signed and sealed by Allen N. Reeves, P.E.
5. Laboratory compliance letter for Test Report no. ATI 03-31448.04, issued by Architectural Testing, Inc., dated 8/14/02, signed and sealed by Allen N. Reeves, P.E.

F. OTHER

1. Letter from Pistorino & Alam Consulting Engineers, Inc.



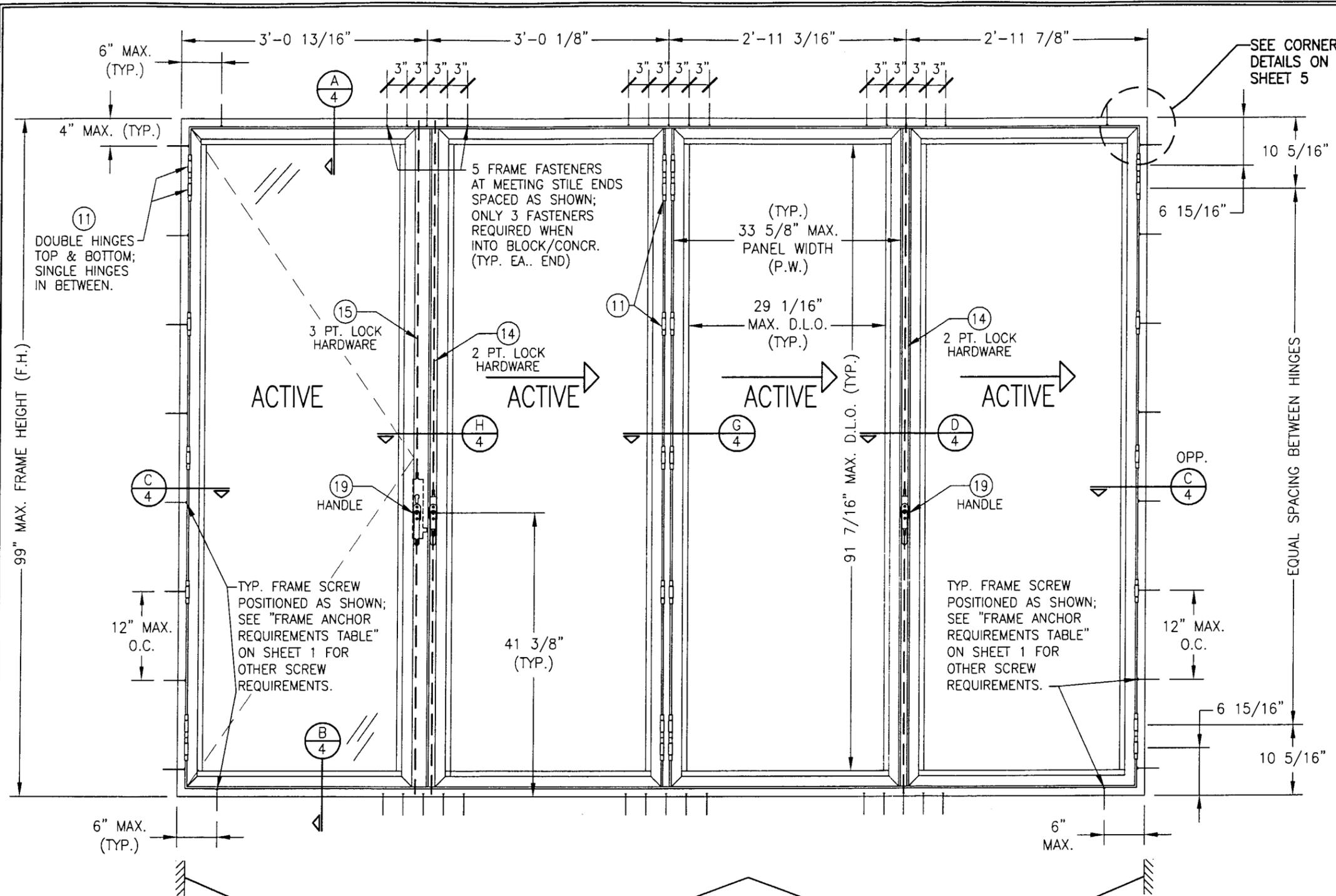
Theodore Berman, P.E.

Deputy Director, Product Control Division

NOA No 02-0927.08

Expiration Date: January 09, 2008

Approval Date: January 09, 2003



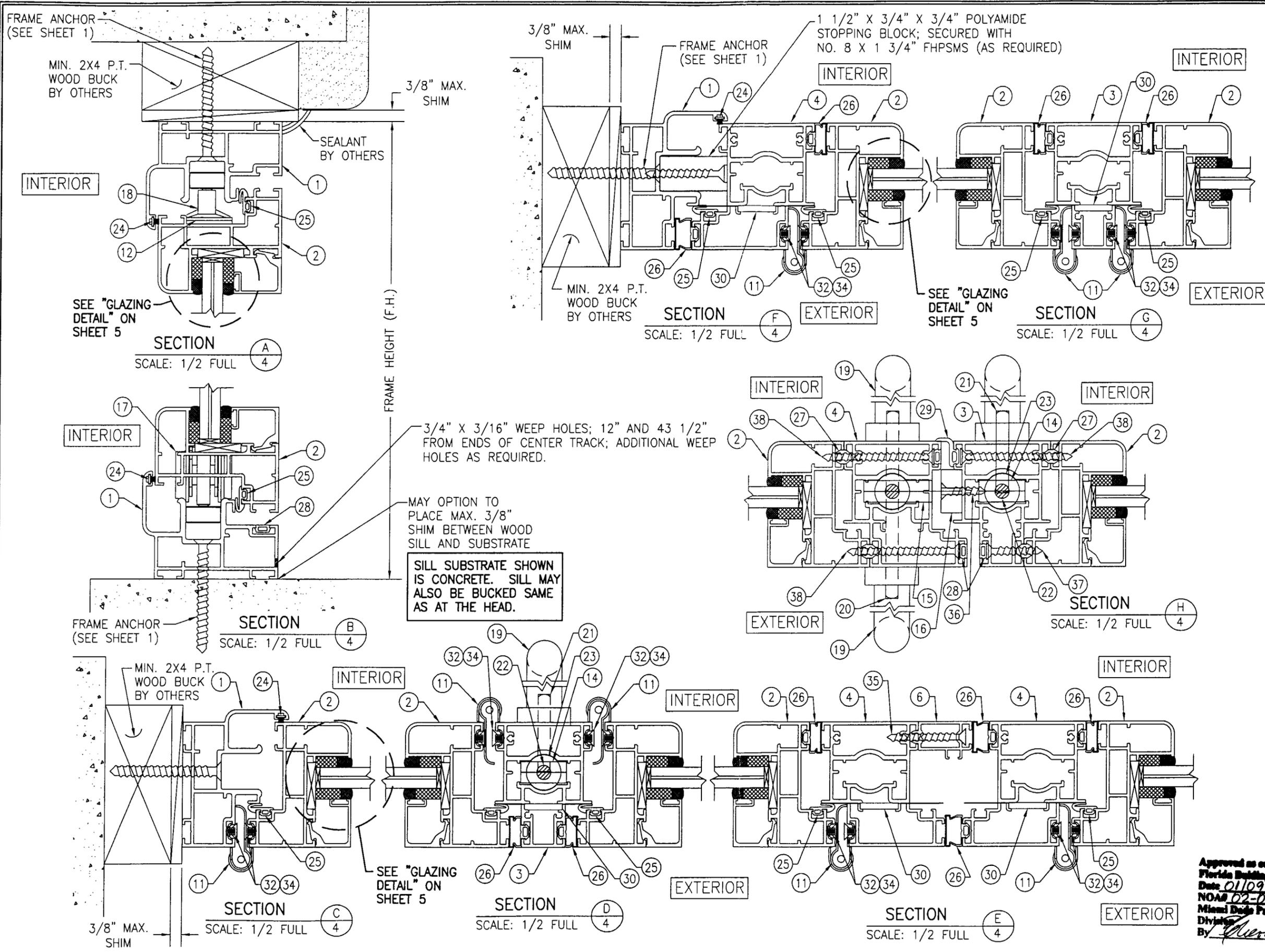
| HINGE REQUIREMENTS | |
|--------------------|-------------------|
| FRAME HEIGHT (IN.) | # HINGES REQUIRED |
| UP TO 39" | 4 |
| 40" UP TO 59" | 5 |
| 60" UP TO 79" | 6 |
| 80" TO 99" | 7 |

(INCLUDES DOUBLE HINGES @ TOP & BOTTOM OF PANELS)

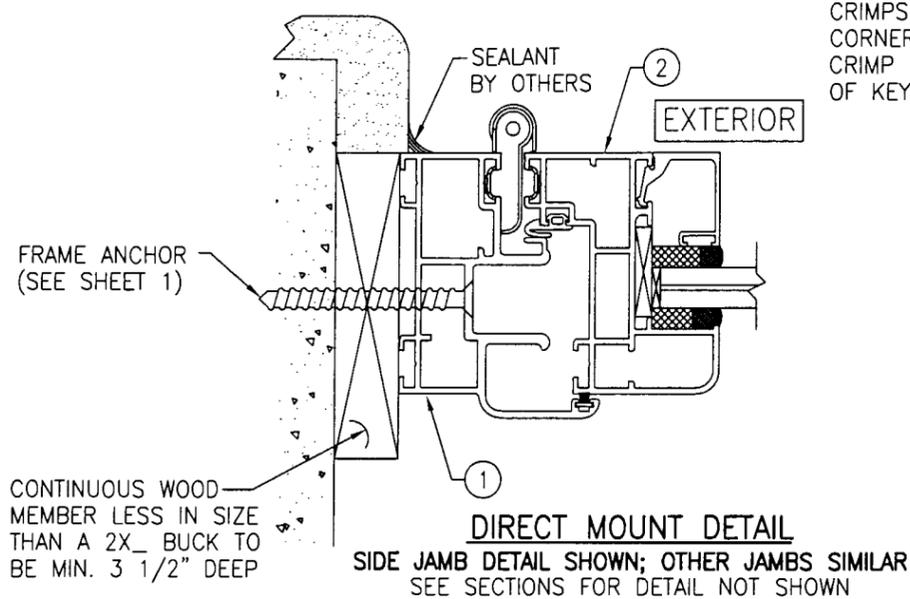
EXTERIOR ELEVATION
MODEL 1L3R
 SCALE: 3/4"=1'-0"
 (4 PANEL SHOWN; MAY HAVE UP TO 12 PANELS IN ONE OPENING)

Approved as complying with the Florida Building Code
 Date 01/09/03
 NOAH 02-0923-DB
 Miami Dade Product Control
 Division
 By: *Warren W. Schaeffer*

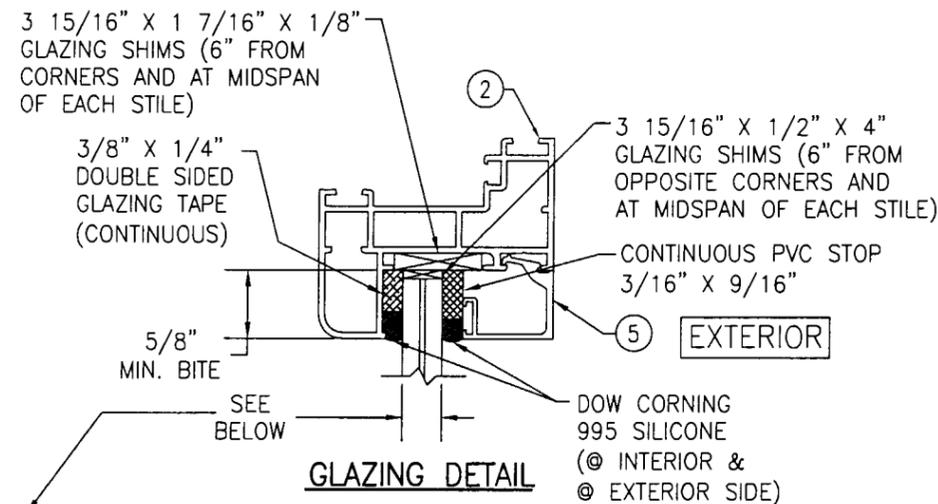
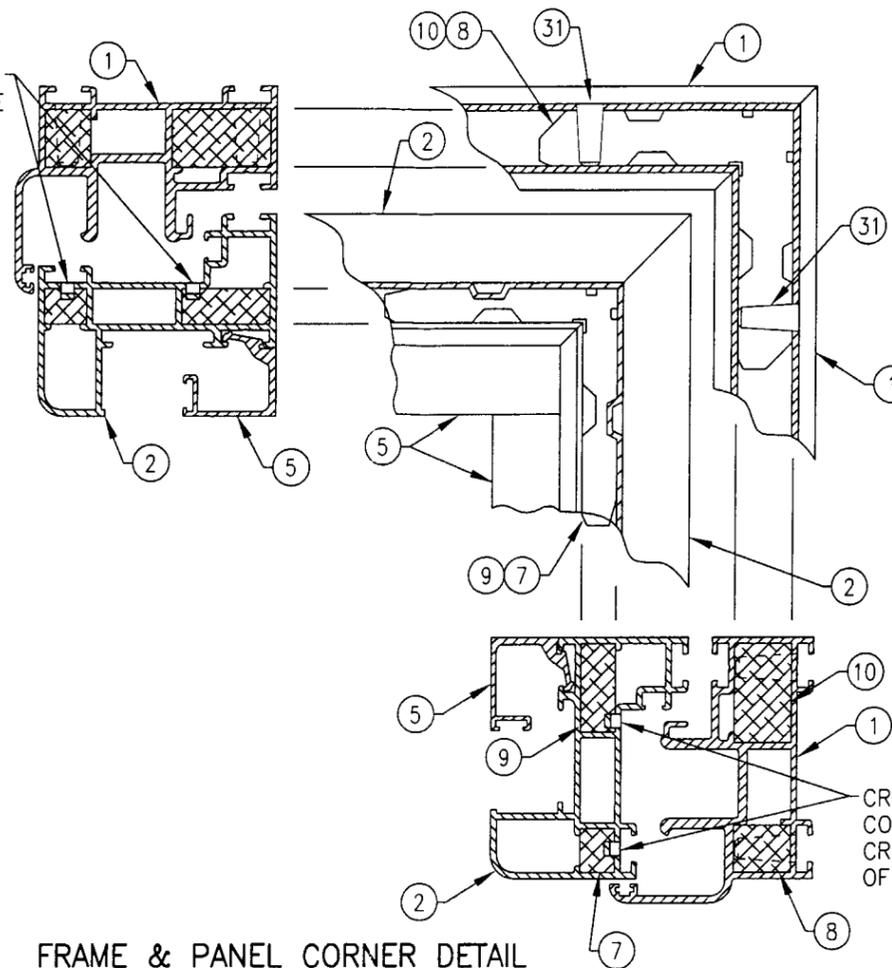
| | |
|--|--|
| DRAWN BY: J.C.F. | CHECKED BY: W.W.S. |
| PLOT: 1=16 | DATE: 08/20/02 |
| DATE | BY |
| REVISION DESCRIPTION | |
| NO. | |
| DRAWING TITLE SL72 - FOLDING ALUMINUM FRAMED OUTSWING GLASS WALL SYSTEM | |
| CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903 | MANUFACTURER NANA WALL SYSTEMS, INC 707 REDWOOD HIGHWAY MILL VALLEY, CA 94941 425-383-3148 |
| CERTIFICATION AUG 20 2002 WARREN W. SCHAEFER, P.E. P.E. INC. 44135 | DRAWING NO. 1153 |
| | REV. 3 OF 6 |



| | | |
|--|--|-----------------------|
| DRAWING TITLE SL72 - FOLDING ALUMINUM FRAMED OUTSWING GLASS WALL SYSTEM | DRAWN BY: J.C.F. | CHECKED BY: W.W.S. |
| PLANT: 1=2 | DATE: 08/20/02 | |
| REVISION DESCRIPTION NO. | DATE BY | |
| MANUFACTURER NANA WALL SYSTEMS, INC 707 REDWOOD HIGHWAY MILL VALLEY, CA 94941 425-383-3148 | | |
| CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903 | | |
| CERTIFICATION AUG 28 2002 WARREN W. SCHAEFER, P.E. P.E. NO. 14135 | Approved as complying with the Florida Building Code Date 01/09/03 NOA# 02-0923-03 Miami Dade Product Control Division <i>Cherise Roman</i> | |
| DRAWING NO. 1153 | REV. | |
| SHEET NO. 4 OF 6 | | |



CRIMPS SECURING CORNER KEY; ONE CRIMP EACH LEG OF KEY.



DUPONT SENTRY GLASS PLUS LAMINATED GLASS

- OPTION 1) 7/16" THICK OVERALL (3/16" AN/0.09" SGP/3/16" AN) OR
- OPTION 2) 7/16" THICK OVERALL (3/16" HT.ST./0.09" SGP/3/16" HT.ST.)

SOLUTIA 0.09" PVB LAMINATED GLASS

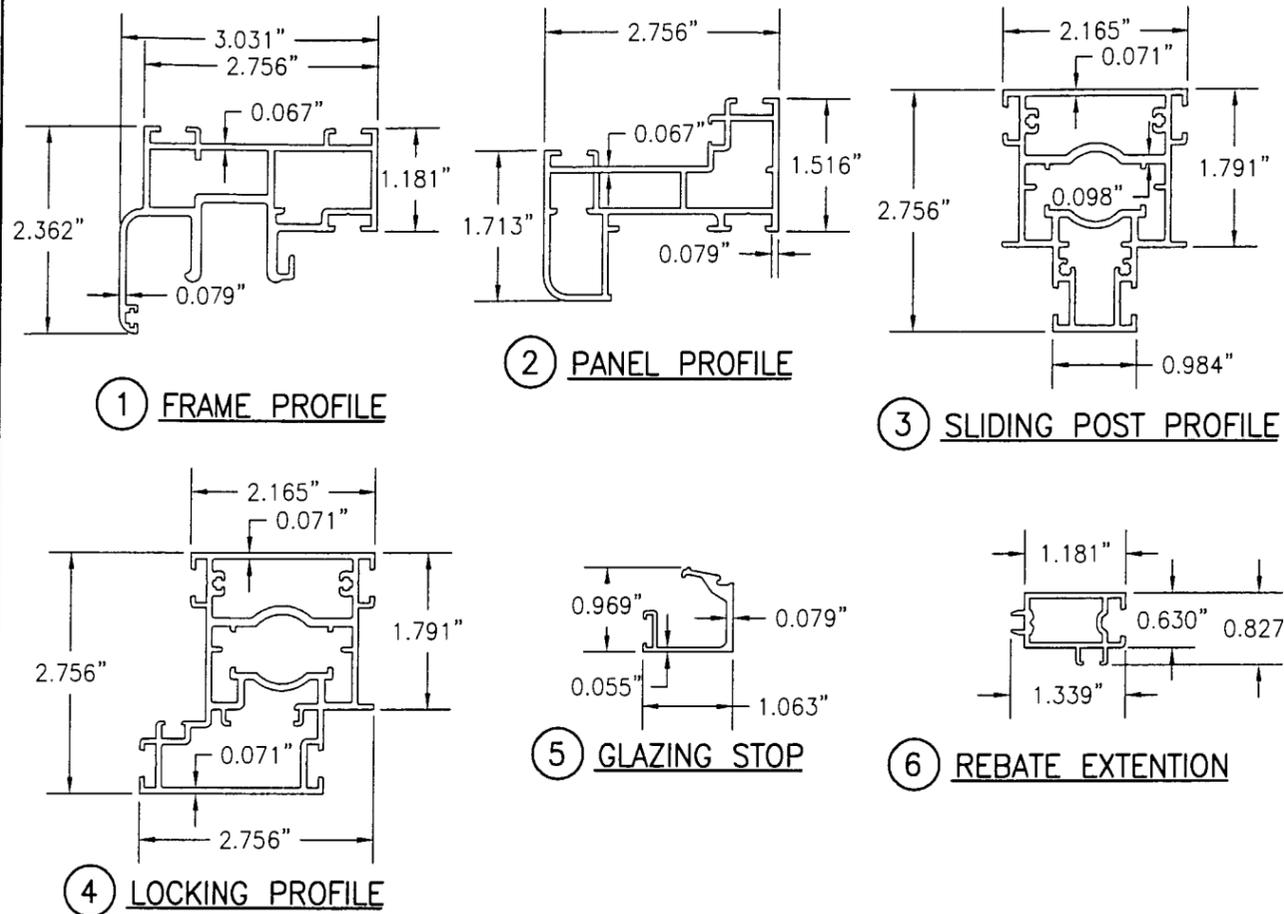
- OPTION 3) 7/16" THICK OVERALL (3/16" AN/0.09" PVB/3/16" AN) OR
- OPTION 4) 7/16" THICK OVERALL (3/16" HT.ST./0.09" PVB/3/16" HT.ST.)

SOLUTIA HP LAMINATED GLASS

- OPTION 5) 7/16" THICK OVERALL (3/16" AN/0.10" HP/3/16" AN) OR
- OPTION 6) 7/16" THICK OVERALL (3/16" HT.ST./0.10" HP/3/16" HT.ST.)

Approved as complying with the
Florida Building Code
Date 01/09/03
NOAM 02-0923.08
Miami Dade Product Control
Division
By: *Glenn DeMar*

| | | | |
|---|----------------------|--|------|
| DRAWN BY: J.C.F. | | CHECKED BY: W.W.S. | |
| PLOT: 1=2 | | DATE: 08/20/02 | |
| NO. | REVISION DESCRIPTION | BY | DATE |
| | | | |
| DRAWING TITLE SL72 - FOLDING ALUMINUM FRAMED OUTSWING GLASS WALL SYSTEM | | | |
| CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903 | | MANUFACTURER NANA WALL SYSTEMS, INC 707 REDWOOD HIGHWAY MILL VALLEY, CA 94941 425-383-3148 | |
| CERTIFICATION <i>WARREN W. SCHAEFER, P.E.</i> AUG 23 2002 P.E. NO. 14133 | | | |
| DRAWING NO. 1153 | | REV. | |
| SHEET NO. 5 | | OF 6 | |



| ITEM # | PART | ITEM DESCRIPTION | MANUFACTURER/NOTES |
|-------------------------|----------------|---|---------------------------------------|
| PARTS | | | |
| 1 | 5-72-01-0 | FRAME PROFILE | 6063-T5 ALUMINUM |
| 2 | 5-72-03-0 | PANEL PROFILE | 6063-T5 ALUMINUM |
| 3 | 5-72-02-0 | SLIDING POST PROFILE | 6063-T5 ALUMINUM |
| 4 | 5-72-17-0 | LOCKING POST PROFILE | 6063-T5 ALUMINUM |
| 5 | 5-72-27-0 | GLAZING STOP | 6063-T5 ALUMINUM |
| 6 | 5-72-10-0 | REBATE EXTENSION | 6063-T5 ALUMINUM |
| 7 | 15-0-2278-0 | 5/8" X 5/8" CORNER CONNECTOR | 6063-T5 ALUMINUM |
| 8 | 15-0-2279-0 | 5/8" X 5/8" CORNER CONNECTOR W/HOLES | 6063-T5 ALUMINUM |
| 9 | 15-0-2280-0 | 5/8" X 1 1/16" CORNER CONNECTOR | 6063-T5 ALUMINUM |
| 10 | 15-0-2281-0 | 5/8" X 1 1/16" CORNER CONNECTOR W/HOLES | 6063-T5 ALUMINUM |
| HARDWARE | | | |
| 11 | 15-0-2209-9016 | HINGE | BURGHAN/ZINC DIE CAST |
| 12 | 15-0-1129-0 | SHIM; UPPER GUIDE ROLLER | NIEDERHOFF / POLYAMIDE |
| 13 | 15-0-2204-0 | SHIM; BOTTOM ROLLER | NIEDERHOFF / POLYAMIDE |
| 14 | 15-0-2001-0 | 2 POINT LOCKING HARDWARE | ROHRBACH / ZINC DIE CAST |
| 15 | 15-0-2002-0 | 3 POINT LOCKING HARDWARE | ROHRBACH / ZINC DIE CAST |
| 16 | 15-0-1140-9016 | PANEL CATCH | DENKER / POLYAMIDE PLASTIC |
| 17 | 15-0-1930-0 | BOTTOM ROLLER | NIEDERHOFF / POLYAMIDE |
| 18 | 15-0-1932-0 | UPPER GUIDING TROLLY | NIEDERHOFF / POLYAMIDE |
| 19 | 15-0-2305-9016 | HANDLE | HEWI/ POLYAMIDE |
| 20 | 15-0-2332-9 | SPINDLE (DOUBLE HANDLE- ϕ 1/4" X 4 1/8") | GERARD / S.S. |
| 21 | 15-0-2334-9 | SPINDLE (SINGLE HANDLE- ϕ 1/4" X 2 3/8") | GERARD / S.S. |
| 22 | 5-0-101-0 | LOCKING ROD (ϕ 5/16") | BROECKELMANN / ALUMINUM |
| 23 | 15-0-1100-0 | END CAP FOR LOCKING ROD | BRAEUNING + GESKE / POLYAMIDE |
| SEALS & SEALANTS | | | |
| 24 | 25-0-1060-0 | BRUSH SEAL | KULLEN / POLYAMIDE |
| 25 | 25-0-1052-0 | GASKET | SAARGUMMI / EPDM |
| 26 | 25-0-1060-0 | GASKET | SAARGUMMI / EPDM |
| 27 | 25-0-1056-0 | MATING GASKET | SAARGUMMI / EPDM |
| 28 | 25-0-1054-0 | FILLING RUBBER | SYNCAMER / EPDM |
| 29 | 25-0-1050-0 | GASKET | SYNCAMER / EPDM |
| 30 | 15-0-1120-0 | JAMB GASKET | BRAEUNING + GESKE / EPDM |
| MISCELLANEOUS FASTENERS | | | |
| 31 | 20-0-07-10 | CONE PIN ϕ 5/16" X 3/4" | GERARD / BRASS |
| 32 | - | NO. 10 X 3/8" FH S.S. MS | 2 PER HINGE LEAF (4 TOTAL) |
| 34 | - | ϕ 3/16 X 1/4 S.S. SET SCREW | 2 PER HINGE LEAF (4 TOTAL) |
| 35 | - | NO. 8 X 1 3/4" FH S.S. SMS | 4" FROM CORNER & 12" O.C. |
| 36 | - | NO. 8 X 1" FH S.S. SMS | 2 PER PANEL LATCH |
| 37 | - | NO. 8 X 1 1/4" FH S.S. SMS | 1 TOTAL, AS SHOWN, @ HANDLE ELEVATION |
| 38 | - | NO. 8 X 2 1/2" FH S.S. SMS | 3 TOTAL, AS SHOWN, @ HANDLE ELEVATION |

| | |
|---------------------|-----------------------|
| DRAWN BY: J.C.F. | CHECKED BY: W.W.S. |
| DATE: 1=2 | DATE: 08/20/02 |
| NO. | REVISION DESCRIPTION |
| | |
| | |
| | |

DRAWING TITLE
SL72 - FOLDING ALUMINUM FRAMED OUTSWING GLASS WALL SYSTEM

MANUFACTURER
NANA WALL SYSTEMS, INC
707 REDWOOD HIGHWAY
MILL VALLEY, CA 94941
425-383-3148

CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A.
600 SANDTREE DRIVE, SUITE 203B
PALM BEACH GARDENS, FL 33403
PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION
AUG 28 2002
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO.
1153

SHEET NO.
6 OF 6

Approved as complying with the
Florida Building Code
Date 01/09/03
NOA# 02-0923.02
Miami Dade Product Control
Div
By *Gerardo Berma*