



**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)

**Alumiglass, Inc.
901 NW 35th Street
Suite 100
Boca Raton, FL 33431**

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 "Alumiwall 2-1/2" x 6" Deep Frame" Aluminum Structural Glazed Curtain Wall System – Large Missile Impact

APPROVAL DOCUMENT: Drawing No. **15-901-4**, dated 09/10/02, revised on 9/10/02, titled "Alumiwall Large Missile Impact System", sheets 1 through 7, prepared by Frank L. Bennardo, P.E. Consulting Engineer. signed and sealed by Frank L. Bennardo, 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 Resistant

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 **Manuel Perez, P.E.**



**NOA No 02-0308.03
Expiration Date: September 19, 2007
Approval Date: September 19, 2002
Page 1**

METRO DADE COUNTY PRODUCT CONTROL CERTIFICATION DRAWINGS FOR ALUMIWALL LARGE MISSILE IMPACT SYSTEM

LARGE MISSILE

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| GLASS LEGEND SAFGLAS NOA 00.0329.03 | |
| THK. 9/16" | 9/16" HEAT STRENGTHENED 1/4" HEAT STRENGTHENED GLASS + |
| MAX AREA 40SQFT | 0.015" ALIPHATIC URETHANE + 0.070" POLYCARBONATE + 0.015" ALIPHATIC URETHANE + 1/4" HEAT STRENGTHENED GLASS |

LARGE MISSILE

| | |
|----------------------------------------------|-----------------------------------------------------------------------|
| ALT. GLASS LEGEND SENTRY PLUS NOA 98-0608.03 | |
| THK. 9/16" | 9/16" HEAT STRENGTHENED 1/4" HEAT STRENGTHENED GLASS + |
| MAX AREA 40SQFT | .090 DUPONT IONOPLAST INTERLAYER + 1/4" HEAT STRENGTHENED GLASS |

GENERAL NOTES:

ARCHITECTURAL ALUMINUM: 6063-T5 ALLOY

CURTAINWALL FRAMING: ALUMIWALL 2 1/2" X 6" STRUCTURAL GLAZED SYSTEM
WITH 9/16" GLAZING AS MANUFACTURED BY ALUMIGLASS

GLASS : LAMINATE SAFGLASS AS MANUFACTURED BY SECURITY IMPACT
DADE COUNTY APPROVAL # 00.0329.03

OR SENTRYGLAS PLUS MANUFACTURED BY DUPONT
DADE COUNTY APPROVAL # 98-0608.03

ALUMINUM FRAMING DETAILS ARE DESIGNED IN ACCORDANCE WITH THE 1996 DADE SOUTH FLORIDA
BUILDING CODE AND THE 2001 FLORIDA BUILDING CODE.

FRAMING TESTED IN ACCORDANCE WITH CURRENT ASTM STANDARDS AND CURRENT
METRO DADE COUNTY PROTOCOLS: PA201, PA202, PA203 & ASTM SPECIFICATIONS
DESIGN PRESSURE +90PSF -90PSF

ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS SHALL BE PROTECTED PER CODE.

FASTENERS TO BE CORROSIVE RESISTANT AS DETAILED HEREIN
AND CONFORM TO SFBC DADE COUNTY.

STRUCTURAL SILICONE TO BE DOW CORNING 983.

FRANK L. BENNARDO, P.E. #00046549

SEP 10 2002

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LUMIGLASS, INC.
 901 N.W. 35th Street, Suite 100 • Boca Raton, FL 33431
 (561) 750-2300 Fax: (561) 750-8711
ALUMIWALL IMPACT SYSTEM

| REVISIONS | |
|-----------------|---------|
| DESCRIPTION | DATE |
| CODE COMPLIANCE | 8-6-02 |
| CODE COMPLIANCE | 8-30-02 |
| MISC. | 9-10-02 |

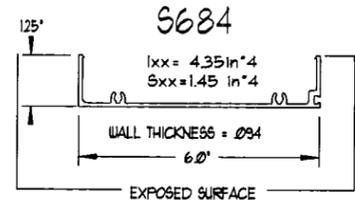
Approved as complying with the
Florida Building Code
Date SEPT. 19, 2002
NOA# 02-0308.03
Miami Dade Product Control
Division
By Manuel Perez

SCALE: AS NOTED
DRAWN BY: FLB
CHECKED BY:
PRINT DATE: 9/10/02
JOB #: 15-901-4

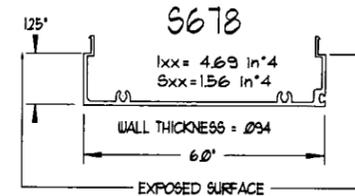
SHEET:
1 OF 1

EXTRUSIONS

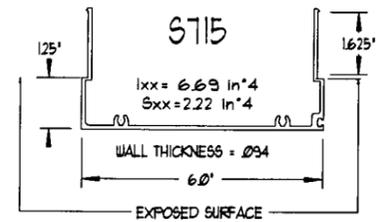
ALL EXTRUSIONS ALUMINUM ALLOY 6063-T5



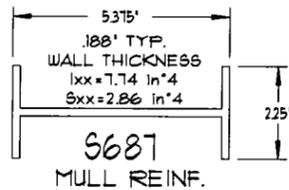
MALE INTERMED MULL



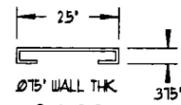
FEMALE INTERMED MULL



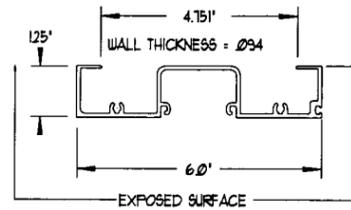
HORIZONTAL EXPANSION MULL



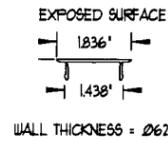
MULL REINF.



S683 CAP

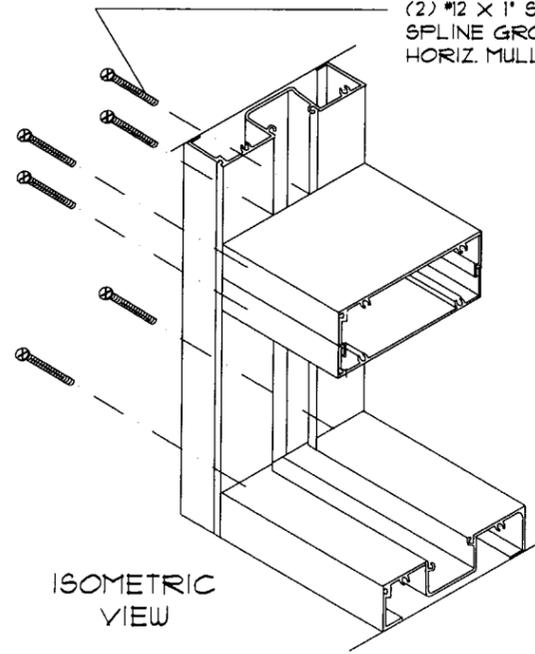


S1213 HEAD / SILL / JAMB



S1214 FILL FOR HEAD/SILL

ALUMINUM ALLOY 6063-T5

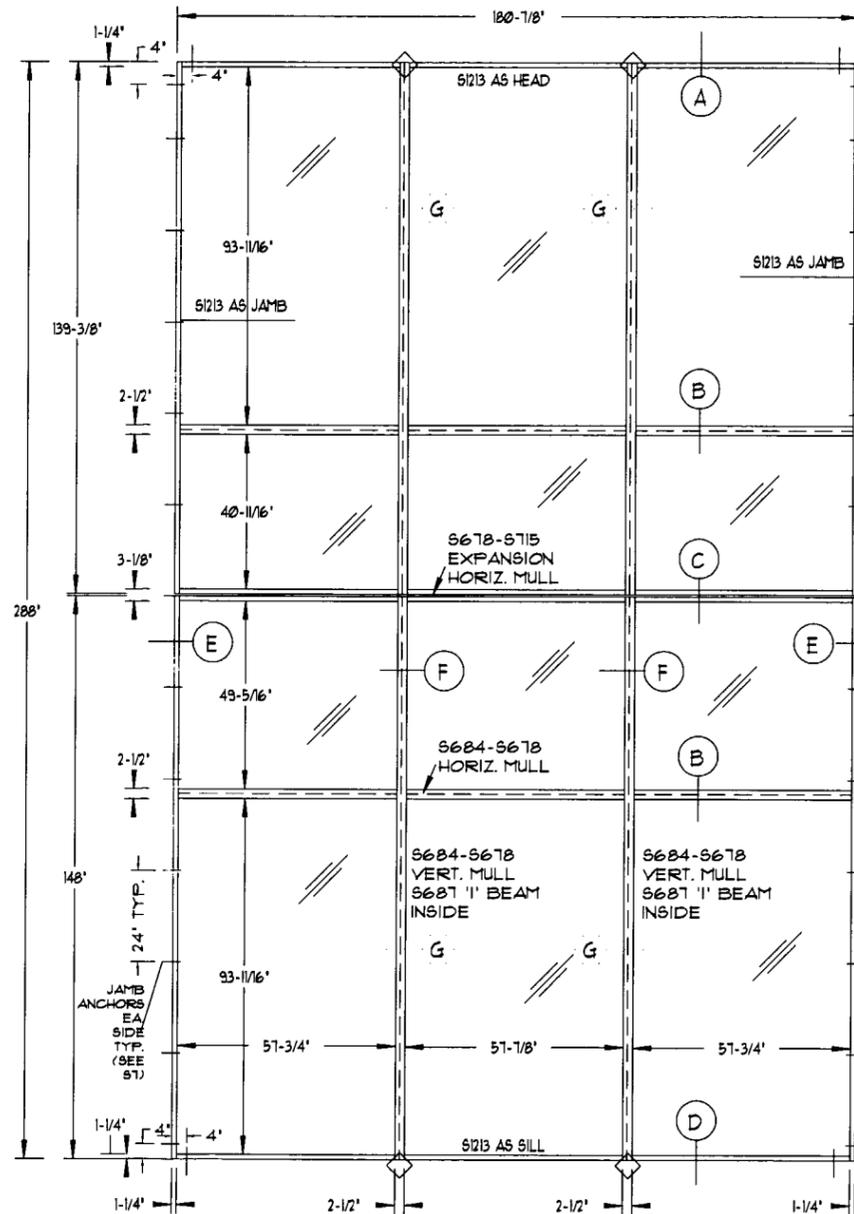


ISOMETRIC VIEW

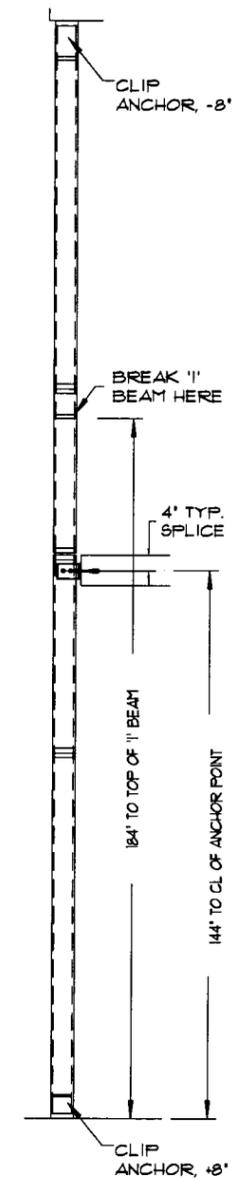
(2) #12 X 1" SMS TO JAMB
SPLINE GROOVE, (4) TO
HORIZ. MULL SPLINE GROOVE

ELEVATION

EXTERIOR VIEW, SCALE 1/4" = 1'



SIDE PROFILE



LARGE MISSILE GLAZING
(BELOW 30')
9/16" SAFGLAS
HEAT STRENGTHENED

ALTERNATE:
LARGE MISSILE GLAZING
(BELOW 30')
9/16" SENTRY GLASS PLUS
HEAT STRENGTHENED

FOR SMALL MISSILE IMPACT
SEE SEPARATE NOA

DESIGN PRESSURE RATING
+90PSF, -90PSF

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Miami Dade Product Control
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By Maurice Pross

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SEP 10 2002

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ALUMIWALL IMPACT SYSTEM

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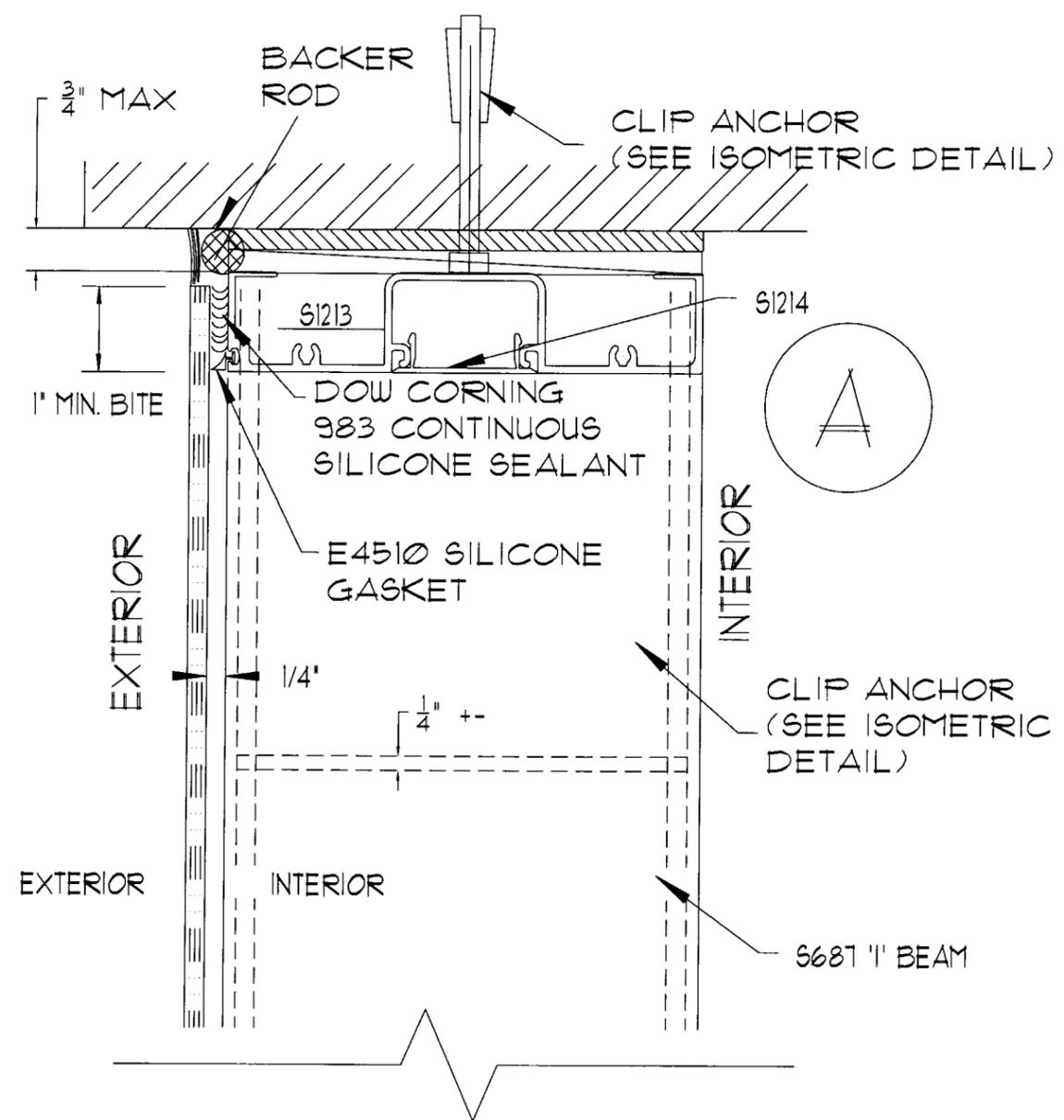
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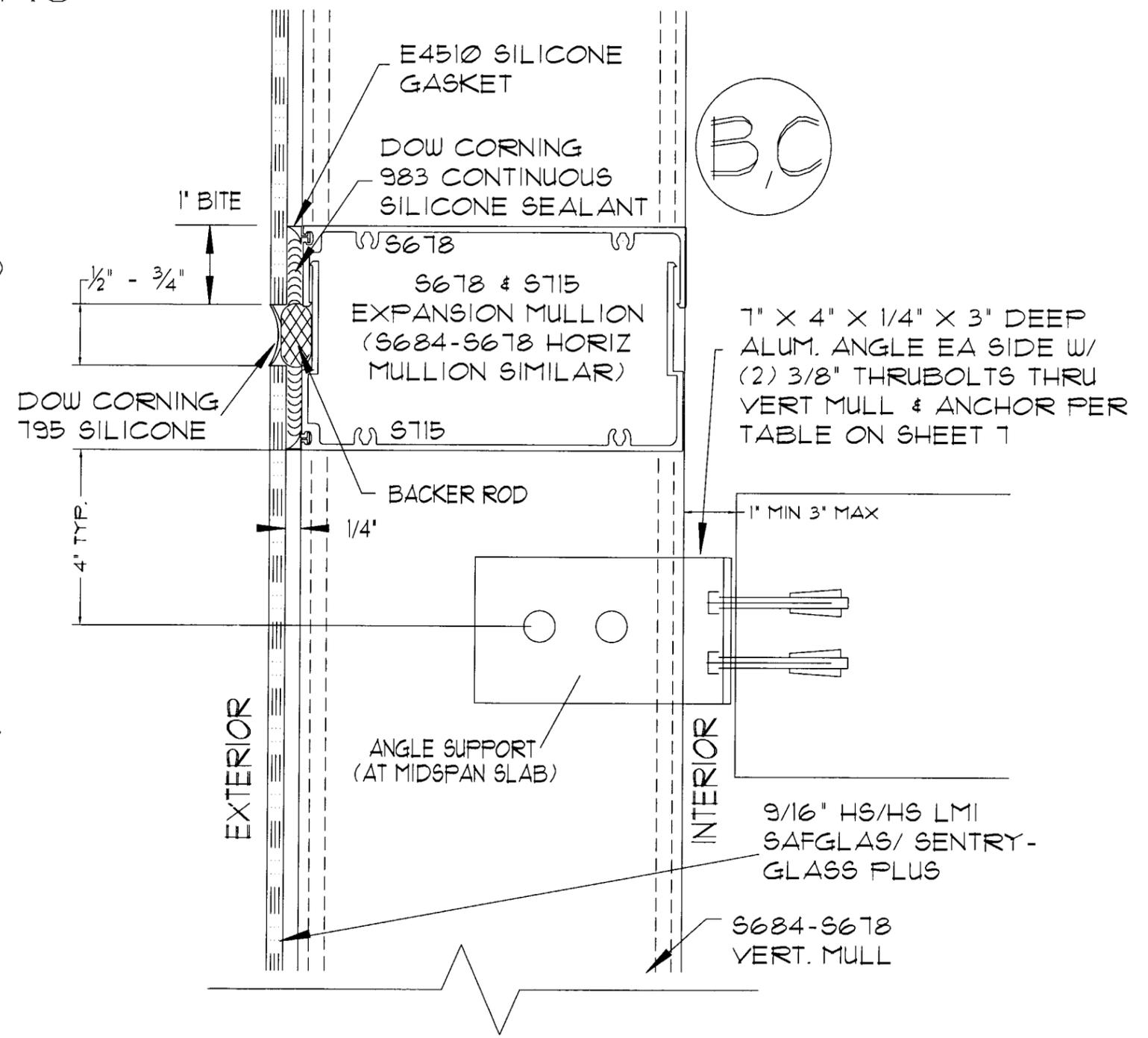
SHEET:
3 OF 7

HORIZONTAL SECTIONS

1/2 SCALE



A

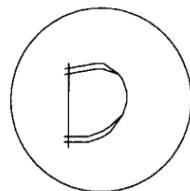


B,C

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NOAH DZ-0308.03
Miami Dade Product Control
Division
By Manuel Perez

HORIZONTAL SECTIONS

1/2 SCALE



CLIP ANCHOR

ISOMETRIC

N.T.S. (AT HEAD & SILL TYP)

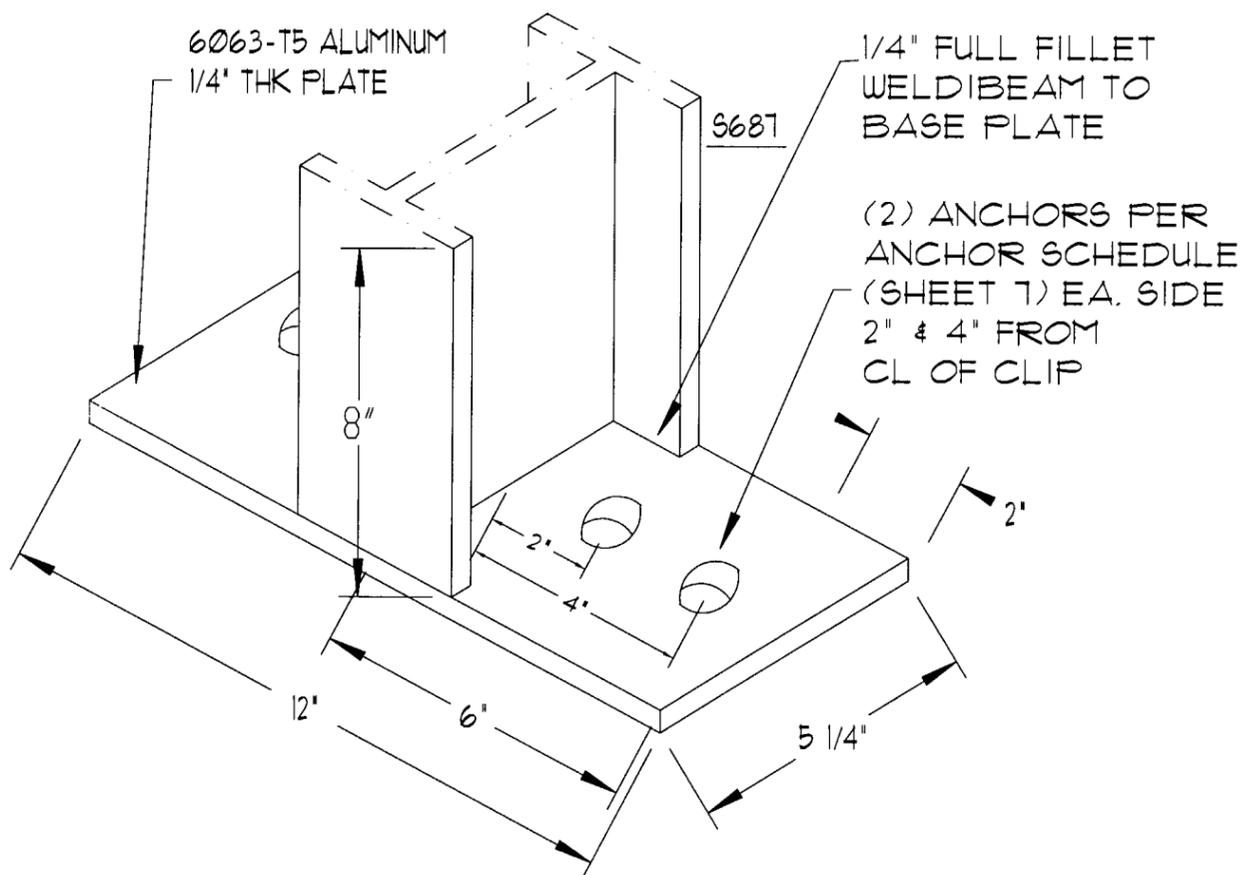
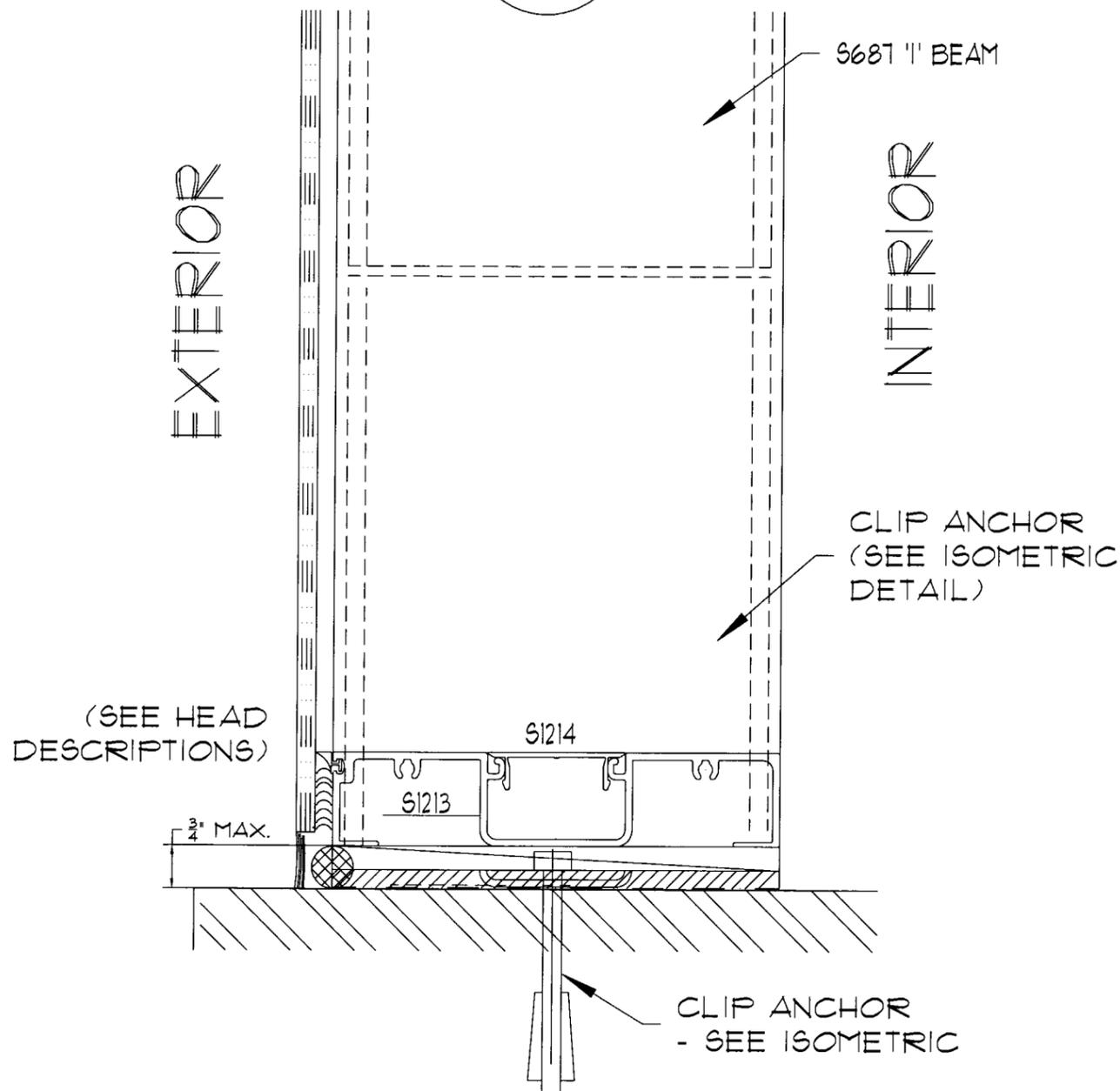


FRANK L. BENNARDO, P.E. #00046545

SEP 10 2002

EXTERIOR

INTERIOR



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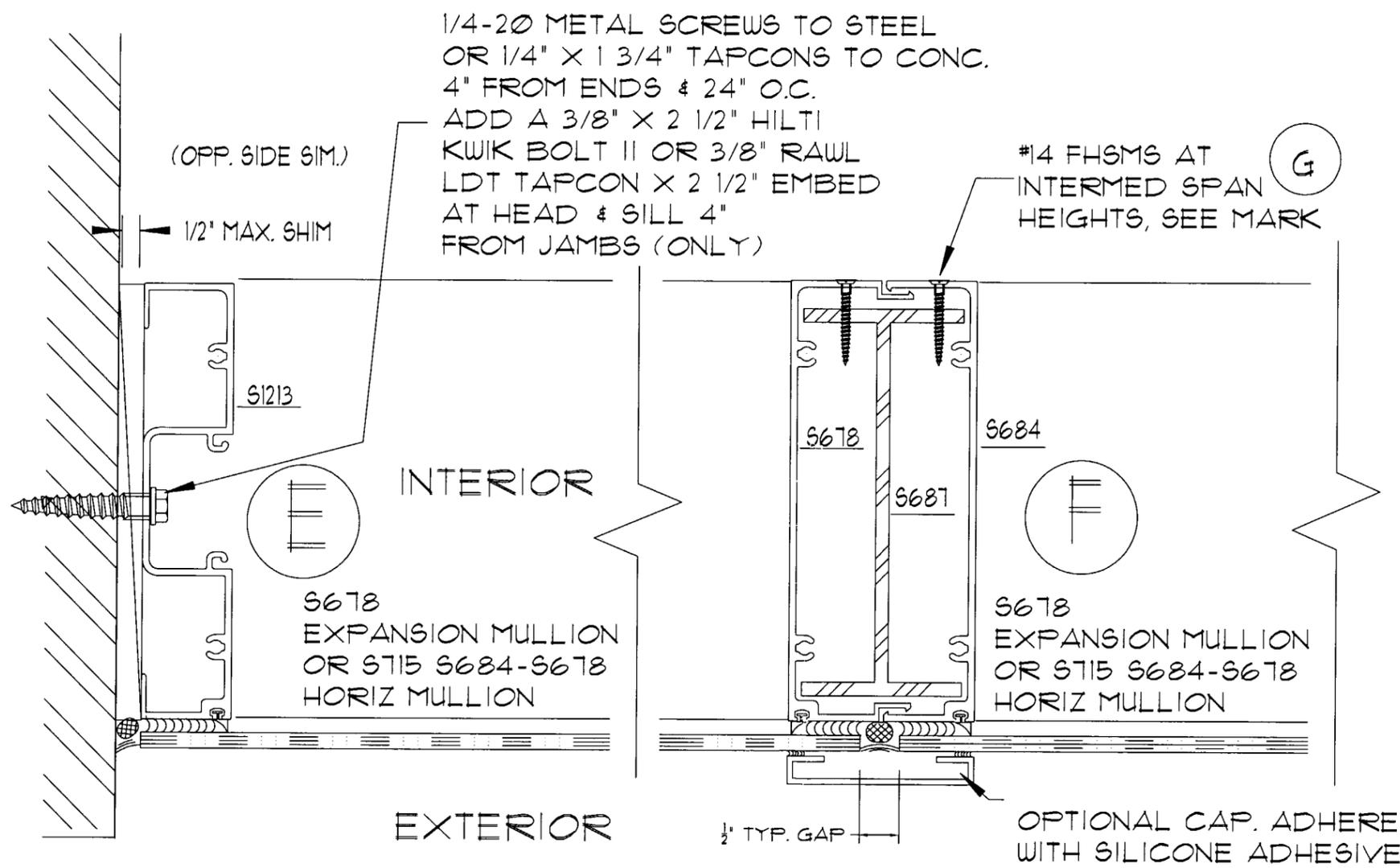
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4 OF 7

SEP 10 2002

TYPICAL VERTICAL SECTION

1/2 SCALE



1/4-20 METAL SCREWS TO STEEL
OR 1/4" X 1 3/4" TAPCONS TO CONC.
4" FROM ENDS & 24" O.C.
ADD A 3/8" X 2 1/2" HILTI
KWIK BOLT II OR 3/8" RAWL
LDT TAPCON X 2 1/2" EMBED
AT HEAD & SILL 4"
FROM JAMBS (ONLY)

#14 FHSMS AT
INTERMED SPAN (G)
HEIGHTS, SEE MARK

(OPP. SIDE SIM.)

1/2" MAX. SHIM

S1213

INTERIOR

S678
EXPANSION MULLION
OR S715 S684-S678
HORIZ MULLION

EXTERIOR

S678

S684

S687

S678
EXPANSION MULLION
OR S715 S684-S678
HORIZ MULLION

1/2" TYP. GAP

OPTIONAL CAP. ADHERE
WITH SILICONE ADHESIVE

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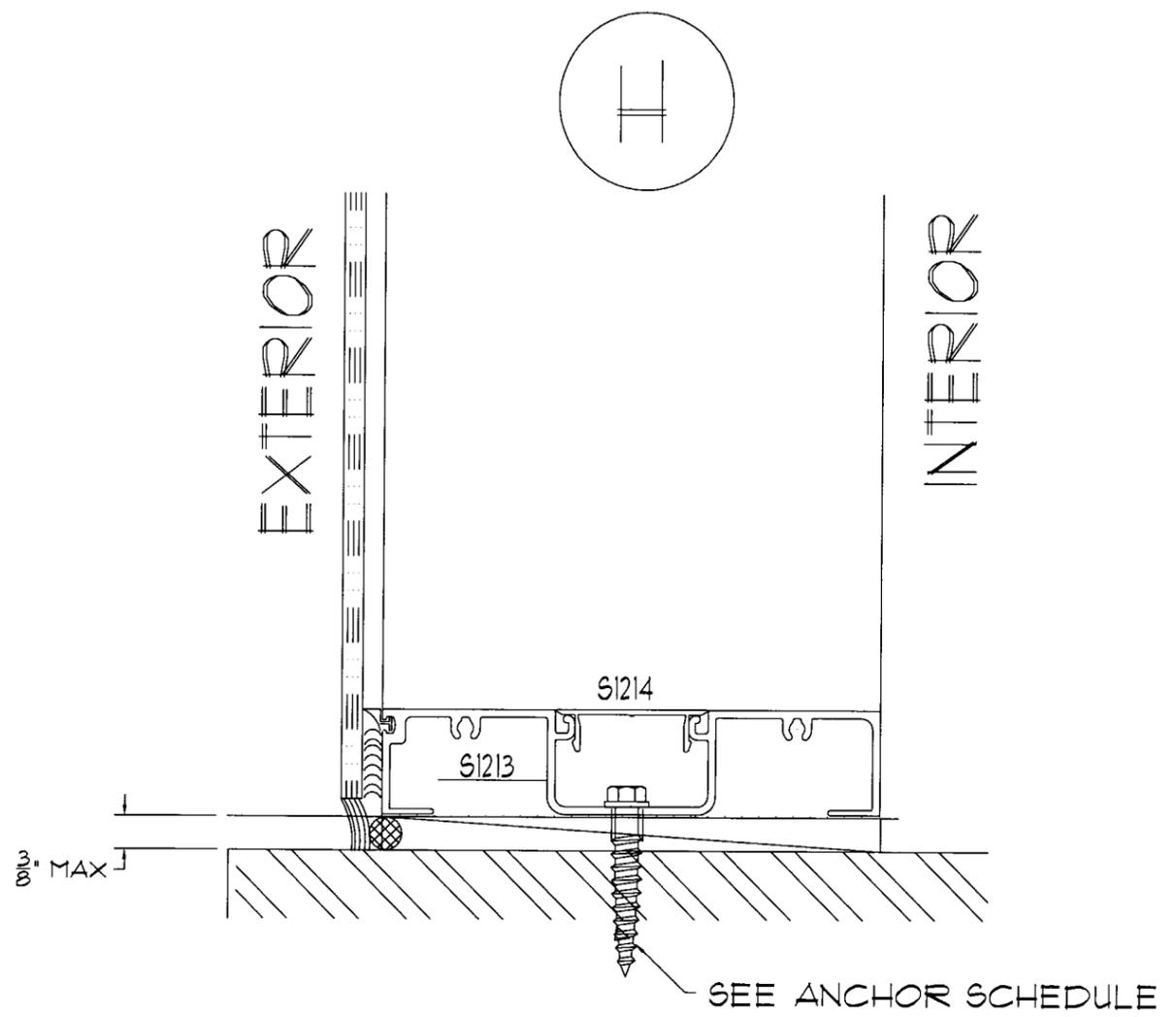
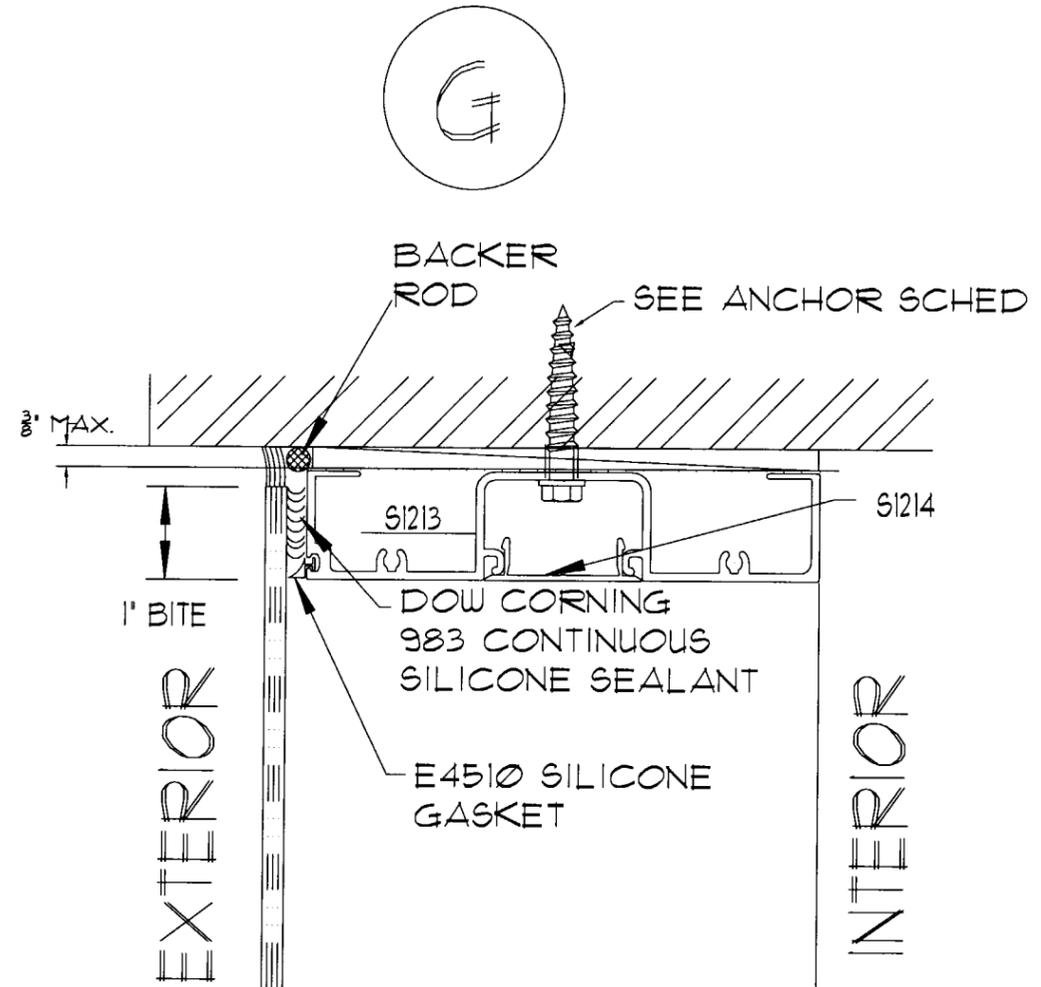
SHEET:
5 OF 7

PUNCHED-OPENING VERTICAL SECTIONS

1/2 SCALE

FRANK L. BERNARDO, P.E. FE00046543

SEP 10 2002



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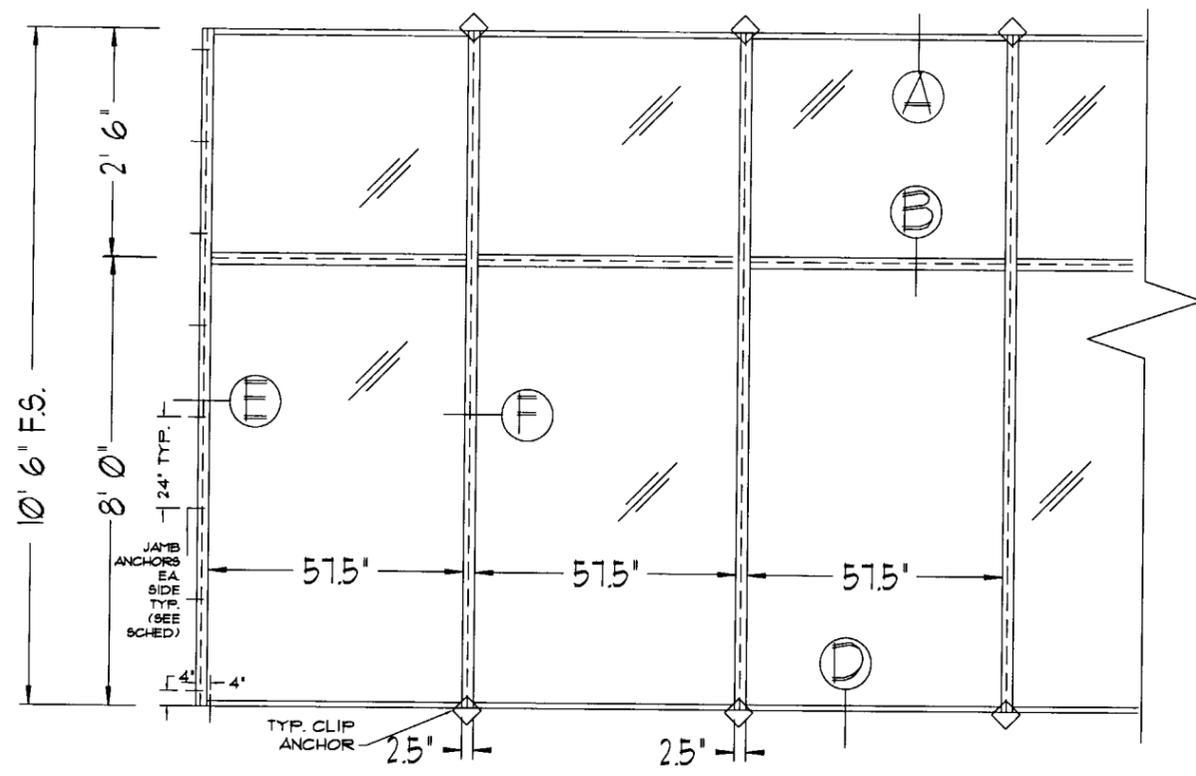
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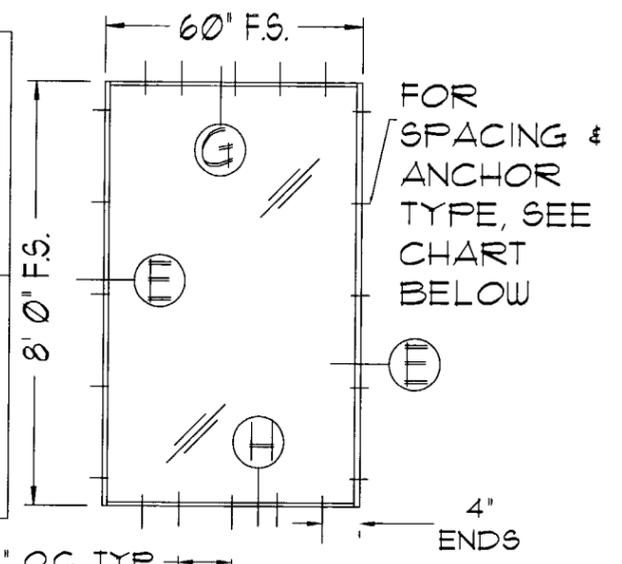
TYPICAL MAXIMUM DIMENSION RIBBON APPLICATION
1/4" = 1'

LARGE MISSILE GLAZING
(BELOW 30')
9/16" SAFGLAS
HEAT STRENGTHENED

ALTERNATE:
LARGE MISSILE GLAZING
(BELOW 30')
9/16" SENTRY GLASS PLUS
HEAT STRENGTHENED

FOR SMALL MISSILE IMPACT
SEE SEPARATE NOA

DESIGN PRESSURE RATING
+90PSF, -90PSF



TYPICAL MAXIMUM DIMENSION
PUNCHED OPENING APPLICATION
1/4" = 1'

CURTAINWALL ANCHOR SCHEDULE AND RIBBON APPLICATION

CONNECTION AT:
SUBSTRATE

JAMB ◇ HEADER/SILL CLIP

INTERMED FLOOR SLAB
ANCHOR AT MULLION
(CURTAINWALL
APPLICATIONS ONLY)

PUNCHED OPENING
ANCHORS
JAMB HEADER/SILL

| CONCRETE | (2) ELCO 1/4" x 1 3/4" EMBED TAPCON 4" FROM EA HORIZONTAL MULLION END, BALANCE 24" O.C. MAXIMUM 3" CLEAR FROM ANY CONCRETE FACE | (2) HILTI 3/8" x 2 1/2" EMBED KWIK BOLT II ANCHORS OR RAWL 3/8" x 2 1/2" EMBED LDT TAPCONS EA. SIDE 2' x 4" FROM C/L OF CLIP. ADD HILTI 3/8" x 2 1/2" EMBED KWIK BOLT II OR RAWL 3/8" x 2 1/2" EMBED LDT TAPCON AT 2' x 4" FROM JAMB ENDS (NO CLIP AT JAMB ENDS) | 7" x 4" x 1/4" x 3" DEEP ALUM. ANGLE EA SIDE W/ (2) 3/8"-16 THRU BOLTS THRU VERT MULL & (2) HILTI 3/8" x 2 1/2" EMBED KWIK BOLT II ANCHORS OR RAWL 3/8" x 2 1/2" EMBED LDT TAPCONS TO CONC EA. ANGLE 3" CLR FROM CONCRETE FACE | ELCO 1/4" x 1 3/4" EMBED TAPCON 4" FROM EA HORIZONTAL MULLION END, BALANCE 24" O.C. MAXIMUM 3" CLEAR FROM ANY CONCRETE FACE | ELCO 1/4" x 1 3/4" EMBED TAPCON 4" FROM EA HORIZONTAL MULLION END, BALANCE 15" O.C. MAXIMUM 3" CLEAR FROM ANY CONCRETE FACE |
|------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| CONC BLOCK | ELCO 1/4" x 1 1/4" EMBED TAPCON 4" FROM EA HORIZONTAL MULLION END, BALANCE 21" O.C. MAXIMUM 3" CLEAR FROM ANY CONCRETE FACE | (2) HILTI 3/8" x 1 5/8" EMBED KWIK BOLT II ANCHORS OR RAWL 3/8" x 1 1/2" EMBED LDT TAPCONS EA. SIDE 2' x 4" FROM C/L OF CLIP. ADD HILTI 3/8" x 1 5/8" EMBED KWIK BOLT II ANCHORS OR RAWL 3/8" x 1 1/2" EMBED LDT TAPCONS AT 2' x 4" FROM JAMB ENDS (NO CLIP AT JAMB ENDS) *CELLS MUST BE FILLED WITH ASTM C91, TYPE 5 GROUT | N/A | ELCO 1/4" x 1 1/4" EMBED TAPCON 4" FROM EA HORIZONTAL MULLION END, BALANCE 21" O.C. MAXIMUM 3" CLEAR FROM ANY CONCRETE FACE | ELCO 1/4" x 1 1/4" EMBED TAPCON 4" FROM EA HORIZONTAL MULLION END, BALANCE 13" O.C. MAXIMUM 3" CLEAR FROM ANY CONCRETE FACE |
| STEEL | 1/4-20 SAE GRADE 2 STEEL THRU BOLT 4" FROM EA HORIZONTAL MULLION END, BALANCE 24" O.C. MAXIMUM | 3/8-16 SAE GRADE 2 STEEL THRU BOLT EA. SIDE 2' x 4" FROM C/L OF CLIP. ADD 3/8" THRU BOLT AT 2' x 4" FROM JAMB ENDS (NO CLIP AT JAMB ENDS) | 7" x 4" x 1/4" x 3" DEEP STEEL ANGLE EA SIDE W/ (2) 3/8"-16 THRU BOLTS THRU VERT MULL & 1/4" FULL FILLET WELD TO A36 STEEL SUPPORT | 1/4-20 SAE GRADE 2 STEEL THRU BOLT 4" FROM EA HORIZONTAL MULLION END, BALANCE 24" O.C. MAXIMUM | 1/4-20 SAE GRADE 2 STEEL THRU BOLT 4" FROM EA HORIZONTAL MULLION END, BALANCE 15" O.C. MAXIMUM |
| WOOD | #14 x 1 1/2" EMBED GRADE 2 WOOD SCREW 4" FROM EA HORIZONTAL MULLION END, BALANCE 16" O.C. MAX | 3/8" x 5 1/2" LAG SCREW (3 1/2" THREAD EMBED) EA. SIDE 2' x 4" FROM C/L OF CLIP. ADD 3/8" LAG BOLTS AT 2' x 4" FROM JAMB ENDS (NO CLIP AT JAMB ENDS) | N/A | #14 x 1 1/2" EMBED GRADE 2 WOOD SCREW 4" FROM EA HORIZONTAL MULLION END, BALANCE 15" O.C. MAX | #14 x 1 1/2" EMBED GRADE 2 WOOD SCREW 4" FROM EA HORIZONTAL MULLION END, BALANCE 9" O.C. MAX |

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ALUMIWALL IMPACT SYSTEM

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| DESCRIPTION | DATE |
| CODE COMPLIANCE | 8-8-02 |
| CODE COMPLIANCE | 8-30-02 |
| MISC. | 9-10-02 |

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