

CGI Windows and Doors, Inc. 3780 W 104<sup>th</sup> Street Hialeah, FL 33018

#### Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section 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 Florida Building Code, including the High Velocity Hurricane Zone.

#### **DESCRIPTION:** Series "360" Aluminum Single Hung Window – S.M.I.

**APPROVAL DOCUMENT:** Drawing No. **SH360SM-NOA**, titled "SH360 Alum. Single Hung Window (SMI)", sheets 1 through 10 of 10, dated 02/07/20, with revision A dated 07/01/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

#### MISSILE IMPACT RATING: Small Missile Impact Resistant.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, 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 **revises NOA# 20-0213.02** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.

MIAMI-DADE COUNTY APPROVED

NOA No. 20-0722.12 Expiration Date: May 05, 2025 Approval Date: October 08, 2020 Page 1

#### 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

#### A. DRAWINGS

- 1. Manufacturer's die drawings and sections. *(Submitted under NOA No.05-0215.02)*
- Drawing No SH360SM-NOA, titled "Series '360' Alum Single Hung Wdw (SMI)", sheets 1 through 10 of 10, dated 02/07/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. (Submitted under NOA No.20-0213.02)

#### **B. TESTS**

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94

2) Large Missile Impact Test per FBC, TAS 201-94

3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of a series 7500 PVC fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. CTLA-3056 WA, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E. (Submitted under NOA No.15-0512.08)

2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94

2) Large Missile Impact Test per FBC, TAS 201-94

3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of a series 7400 PVC project out window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. CTLA-3056 WB, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E. (Submitted under NOA No.15-0512.08)

**3.** Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94

2) Large Missile Impact Test per FBC, TAS 201-94

3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of a series 238 aluminum fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. CTLA-3056 WC, dated 04/16/15, signed and sealed by Ramesh C. Patel, P.E. (Submitted under NOA No.15-0512.08)

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Manuel Pérez, P.E. Product Control Examiner NOA No. 20-0722.12 Expiration Date: May 05, 2025 Approval Date: October 08, 2020

#### 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

#### **B. TESTS** (CONTINUED)

- 4. 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 2411.3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Hurricane Test Laboratory, LLC, Test Report No.

HTL-0080-0402-08, specimens 1, 2, 3 and 4, dated 04/03/08 to 07/22/08, signed and sealed by Vinu J. Abraham, P.E.

(Submitted under NOA No. 08-1208.05)

- 5. 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 2411.3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0080-0323-04**, **specimens 1, 2, 3, 4, 5, 6, 7** and **9**, dated 03/29/04 to 04/02/04, signed and sealed by Vinu J. Abraham, P.E.

(Submitted under NOA No. 05-0215.02)

#### C. CALCULATIONS

Anchor verification calculations and structural analysis, complying with FBC 5<sup>th</sup> Edition (2014), dated 07/08/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
 (Submitted up der NO 4 No 14 0822 10)

(Submitted under NOA No.14-0822.10)

2. Glazing complies with ASTM E1300-09

## D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

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Manuel Perez, P.E. Product Control Examiner NOA No. 20-0722.12 Expiration Date: May 05, 2025 Approval Date: October 08, 2020

## 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

#### E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 19-0305.02 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 05/09/19, expiring on 07/08/24.
- 2. Notice of Acceptance No. 17-0712.05 issued to Eastman Chemical Company (MA) for their "Saflex Clear and Color Glass Interlayers" dated 09/07/17, expiring on 05/21/21.

#### F. STATEMENTS

1. Statement letter of conformance, complying with FBC 6<sup>th</sup> Edition (2017) and of no financial interest, dated February 10, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

(Submitted under NOA No. 20-0213.02)

2. Notification of Successor Engineer for manufacturer's NOA document per Section 61G15-27.001 of the Florida Administrative Code, notifying original engineer that the successor engineer is assuming full professional and legal responsibility for all engineering documents pertaining to this NOA, dated February 10, 2020, signed and sealed by Anthony Lynn Miller, P.E.

(Submitted under NOA No.20-0213.02)

Laboratory compliance letter for Test Report No. HTL-0080-0402-08, specimens 1,
2, 3 and 4, issued by Hurricane Test Laboratory, LLC, dated July 22, 2008, signed and sealed by Vinu J. Abraham, P.E.

(Submitted under NOA No.08-1208.05)

4. Test Proposal for the qualification of *Butacite*® PVB glass interlayer by DuPont as well as *Duraseal*® and *Super Spacer*® *Standard* warm-edge flexible insulating glass spacers, dated December 16, 2014, issued by RER, Product Control Section, signed by Jaime Gascon, Supervisor.

(Submitted under NOA No.15-0512.08)

 Private Labeling Agreement document between CGI Windows and Doors, Inc. and WinDoor, Inc. in conformance to Product Control guidelines, dated 09/05/18, signed by Dean M. Ruark, P.E. (Submitted under NOA No. 18-1001.18)

#### G. OTHERS

1. Notice of Acceptance No. 17-1018.04, issued to CGI Windows & Doors for their Series "360" Aluminum Single Hung Window - S.M.I., approved on 01/11/18 and expiring on 05/05/20.

Manue Manuel Perez, P.E.

Product Control Examiner NOA No. 20-0722.12 Expiration Date: May 05, 2025 Approval Date: October 08, 2020

#### 2. NEW EVIDENCE SUBMITTED

#### A. DRAWINGS

1. Drawing No SH360SM-NOA, titled "SH360 Alum Single Hung Window (SMI)", sheets 1 through 10 of 10, dated 02/07/20, with revision A dated 07/01/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, 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 ASTM F588 and TAS 202-94

along with marked-up drawings and installation diagram of all PGT Industries, Inc. CGI Windows and Doors, Inc., representative units listed below and tested to qualify **Dowsil 791** and **Dowsil 983** silicones, per Proposal #19-1155TP, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.:

#### PGT Industries, Inc. test specimens:

FTL-7897, PGT PW5520 PVC Fixed Window (unit 6 in proposal), dated 09/03/14 FTL-20-2107.1, PGT SGD780 Aluminum Sliding Glass Door (unit 7 in proposal) FTL-20-2107.2, PGT CA740 Alum. Outswing Casement Window (unit 8 in proposal) FTL-20-2107.3, PGT PW7620A Aluminum Fixed Window (unit 9 in proposal) and FTL-20-2107.4, PGT PW7620A Aluminum Fixed Window (unit 10 in proposal) all dated 07/13/20 and signed and sealed by Idalmis Ortega, P.E.

# CGI Windows and Doors Inc. test specimens:

FTL-20-2108.1, CGI SH360 Aluminum Single Hung Window (unit 1 in proposal)
FTL-20-2108.2, CGI CA238 Alum. Outswing Casement Window (unit 2 in proposal)
FTL-20-2108.3, CGI SGD560 Aluminum Sliding Glass Door (unit 3 in proposal)
FTL-20-2108.4, CGI PW410 Aluminum Fixed Window (unit 4 in proposal) and
FTL-20-2108.5, CGI SH360 Aluminum Single Hung Window (unit 5 in proposal)
all dated 08/24/20 and signed and sealed by Idalmis Ortega, P.E

## C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC** 7<sup>th</sup> **Edition (2020)**, dated 07/01/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

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Manuel Pérez, P.E. Product Control Examiner NOA No. 20-0722.12 Expiration Date: May 05, 2025 Approval Date: October 08, 2020

## CGI Windows and Doors, Inc.

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

## 2. NEW EVIDENCE SUBMITTED (CONTINUED)

#### D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

## E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 19-0305.02 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 05/09/19, expiring on 07/08/24.
- 2. Notice of Acceptance No. 20-0622.01 issued to Eastman Chemical Company (MA) for their "Saflex PVB Clear and Color Glass Interlayers" dated 08/06/20, expiring on 05/21/21.

## F. STATEMENTS

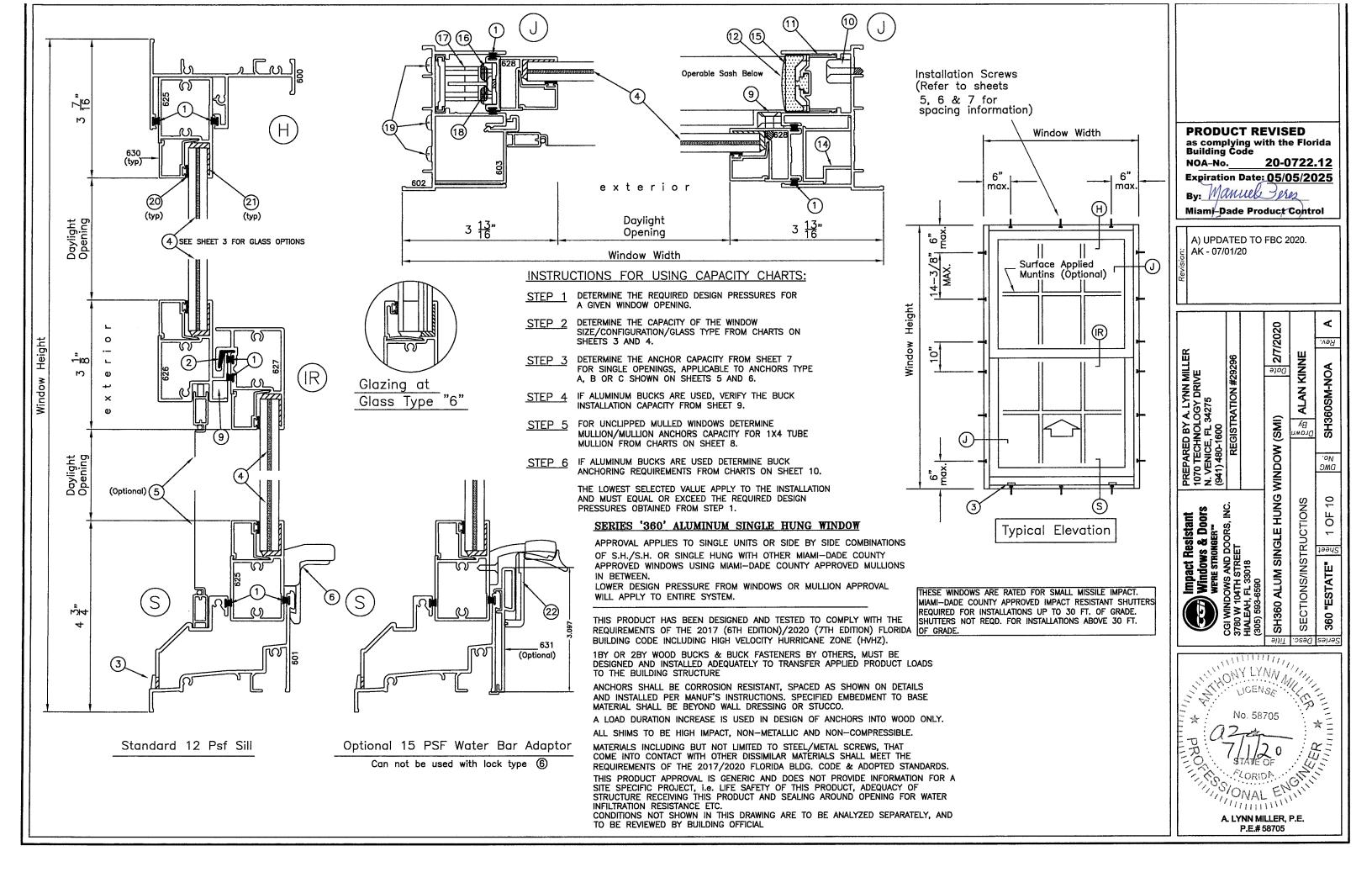
- 1. Statement letter of conformance, complying with FBC 6<sup>th</sup> Edition (2017) and the FBC 7<sup>th</sup> Edition (2020), dated July 01, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- 2. Statement letter of no financial interest, dated July 01, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- **3.** Proposal No. **19-1155 TP** issued by the Product Control Section, dated January 10, 2020, signed by Ishaq Chanda, P.E.

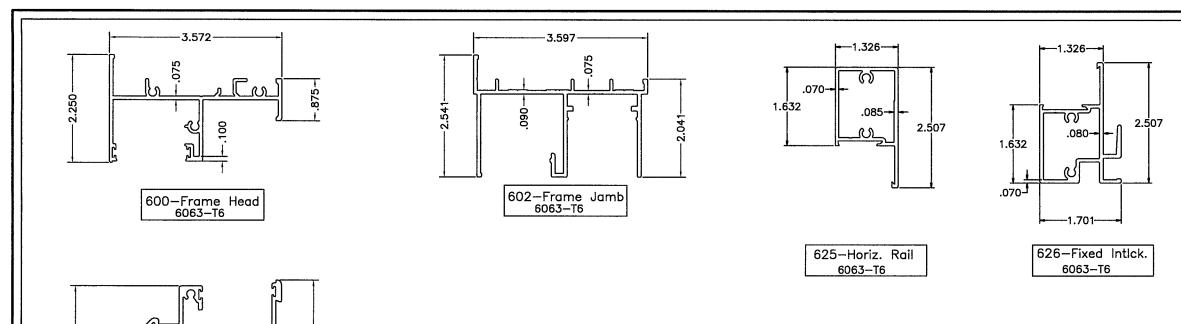
## G. OTHERS

1. Notice of Acceptance No. **20-0213.02**, issued to CGI Windows & Doors, Inc. for their Series "360" Aluminum Single Hung Window - S.M.I., approved on 03/05/20 and expiring on 05/05/25.

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Manuel Perez, P.E. Product Control Examiner NOA No. 20-0722.12 Expiration Date: May 05, 2025 Approval Date: October 08, 2020





| ITEM | PART #             | QUANTITY | DESCRIPTION   | MATERIAL  | MANF./SUPPLIER                            | REMARKS   |
|------|--------------------|----------|---|-----------|---|---|
| 1    | W23201NG           | AS REQD. | WOOL PILE WITH CENTER SOFT FIN (GRAY)   | PILE      | ULTRAFAB/SCHLEGEL                         |   |
| 2    | CGI-612P           | AS REQD. | PLASTIC BUMPER GUIDE  | PVC       | PROTOTYPE PLASTIC EXTRUSIONS              | CONTINUOUS AT INTERLOCK                                 |
| 3    | #146-4             | 2        | WEEP HOLE COVER   | NYLON     | BUILDERS PLASTIC COMPANY                  |   |
| 4    | N/A                | AS REQD. | GLAZING   | GLASS     | VARIES                                    |   |
| 5    | N/A                | 1        | COMPLETE SCREEN   | ALUM/MESH |   |   |
| 6    | CGI-615C<br>& 616C | 1 OR 2   | COMBINATION EGRESS LOCK AND LIFT/PULL<br>ATTACHED W/(2) $\#8 \times 5/8$ " FH SMS | ZINC      | CUSTOM CASTING                            | 1 @ WDWS. 28" WIDE & SMALLER<br>2 @ WDWS. OVER 28" WIDE |
| 9    | CGI-614C           | 2        | TIE DOWN BLOCK  | ZINC      | CUSTOM CASTING                            |   |
| 10   | VARIES             | 2        | BALANCES (B&T OR SPIRAL)  | VARIES    | VARIES                                    | BOTH BALANCES CAN BE USED                               |
| 11   | CGI-617P           | 2        | BALANCE COVER   | PVC       | PROTOTYPE PLASTIC EXTRUSIONS              | LOCATED AT TOP HALF OF EACH JAMB                        |
| 12   | CGI-618P           | 2        | VENT STOP   | PVC       | PROTOTYPE PLASTIC EXTRUSIONS              | LOCATED AT TOP OF JAMBS                                 |
| 14   | CGI-613P           | 2        | FIXED VENT SHIM   | PVC       | PROTOTYPE PLASTIC EXTRUSIONS              | LOCATED AT TOP OF FIXED VENT                            |
| 15   | CGI-619P           | 2        | TOP GUIDE AT OPERABLE VENT  | NYLON     | CUSTOM CASTING                            |   |
| 16   | CGI-622N           | 2        | BOTTOM GUIDE/CLIP AT OPERABLE VENT  | NYLON     | CUSTOM CASTING                            |   |
| 17   | CGI-620C<br>& 621N | 2        | CARRIER SYSTEM  | ZINC      | CUSTOM CASTING                            | OPTIONAL - BALANCE ATTACHES TO IT                       |
| 18   | N/A                | 16       | VENT ASSEMBLY SCREWS  | s/s       | VARIES                                    | #10 X 1 1/4" PH SMS (2 PER CORNER)                      |
| 19   | N/A                | 12       | FRAME ASSEMBLY SCREWS   | s/s       | VARIES                                    | #10 X 1 1/4" PH SMS (2 PER CORNER)                      |
| 20   | CGI-382V           | AS REQD. | VINYL BULB  | PVC       | PROTOTYPE PLASTIC EXTRUSIONS              |   |
| 21   | VARIES             | AS REQD. | STUCTURAL SILICONE  | SILICONE  | 3 SILICONES                               | GE-1200, GE-2000, & DOW 995                             |
| 22   | CGI-632            | 1 OR 2   | COMBINATION EGRESS WB LOCK & LIFT/PULL<br>ATTACHED W/(2) #8 X 5/8" FH SMS         | ZINC      | CUSTOM CASTING<br>(FOR USE WITH WATERBAR) | 1 @ WDWS. 28" WIDE & SMALLER<br>2 @ WDWS. OVER 28" WIDE |
| 23   | _                  | 2/ LITE  | SETTING BLOCKS  | EPDM      | -   | DUROMETER 85±5 SHORE A                                  |

2.51

075

3.452

601-Frame Sill

6063-T6

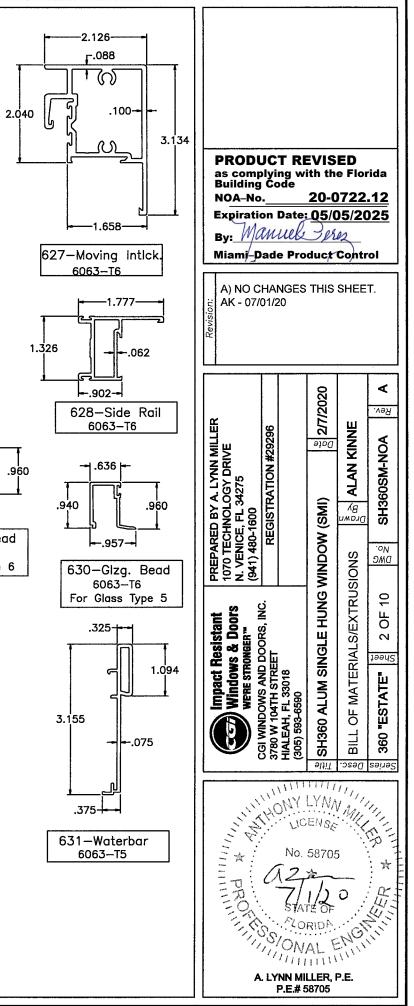
TOJ

2.892

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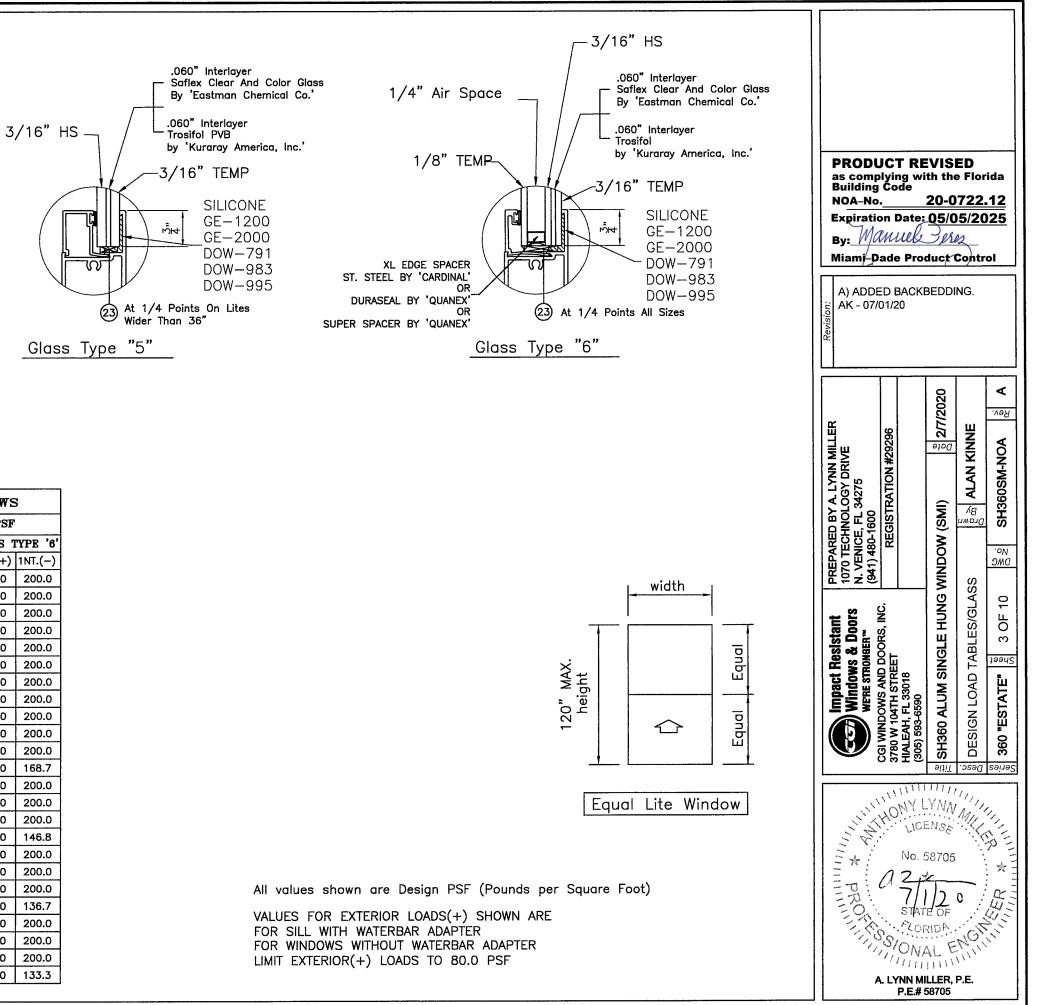
629—Glzg. Bead 6063—T6 For Glass Type 6

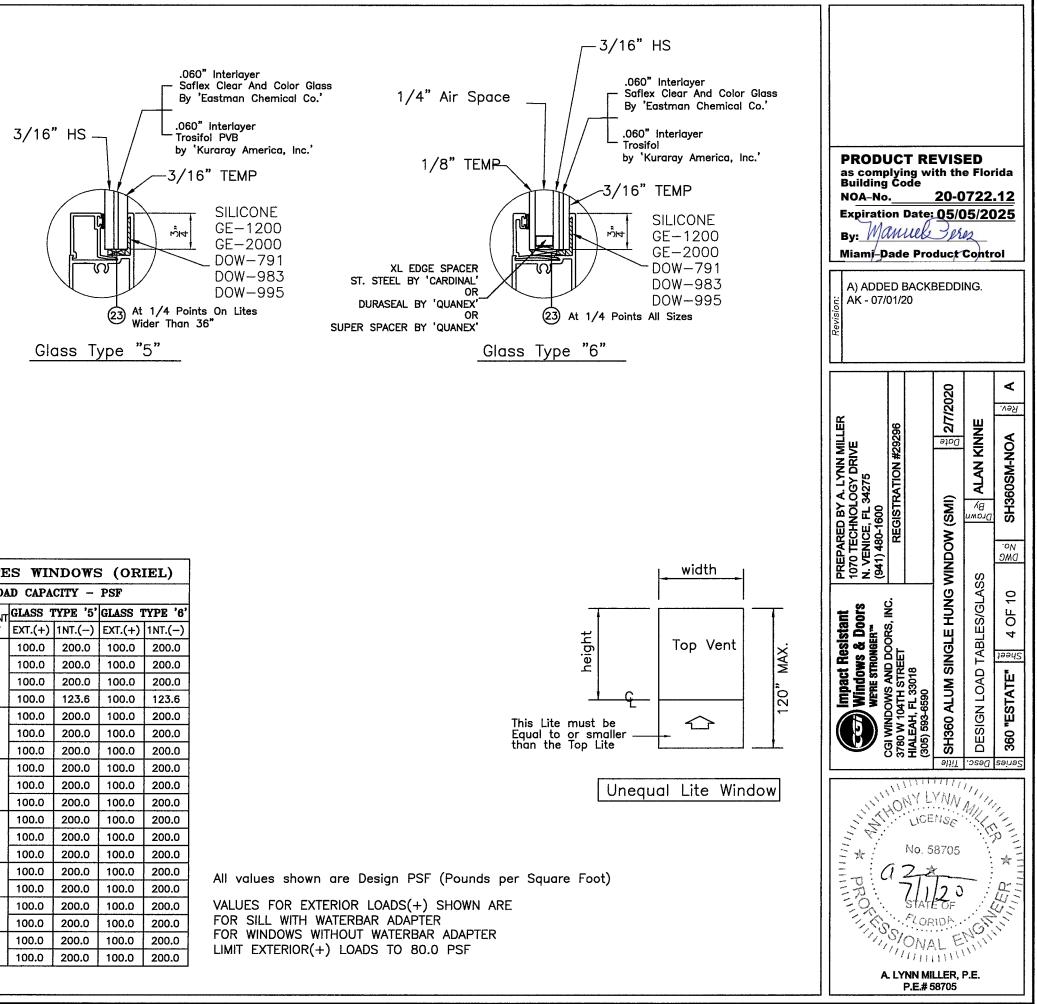


NOTE: GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219

|                        | EQUAI       |         |         |         |            |     |
|------------------------|-------------|---------|---------|---------|------------|-----|
|                        | DESIGN      |         |         |         |            |     |
| WINDO                  | V DIMS.     |         | ·····   | GLASS 7 | ···· ····· |     |
| WIDTH                  | HEIGHT      | EXT.(+) | 1NT.(-) | EXT.(+) | 1NT.()     |     |
| 24"                    |             | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 30"                    |             | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 32"                    | 48 <b>"</b> | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 36"                    | 40          | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 42"                    |             | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 48"                    |             | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 54"                    |             | 100.0   | 171.4   | 100.0   | 171.4      |     |
| 24"                    |             | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 30"                    |             | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 32"                    | •           | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 36"                    | 60"         | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 42"                    |             | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 48"                    |             | 100.0   | 174.5   | 100.0   | 174.5      |     |
| 54"                    |             | 100.0   | 147.7   | 100.0   | 147.7      |     |
| 24"                    |             | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 30"                    |             | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 32"                    |             | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 36"                    | 72"         | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 42"                    |             | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 48"                    |             | 100.0   | 160.0   | 100.0   | 160.0      |     |
| 54"                    |             | 100.0   | 133.3   | 100.0   | 133.3      | F   |
| 24"                    |             | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 30"                    |             | 100.0   | 200.0   | 100.0   | 200.0      | 19  |
| 32"                    |             | 100.0   | 200.0   | 100.0   | 200.0      | 26  |
| 36"                    | 84"         | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 42"                    |             | 100.0   | 195.9   | 100.0   | 195.9      | 53  |
| 48"                    |             | 100.0   | 152.4   | 100.0   | 152.4      | 19  |
| 54 <b>"</b>            |             | 100.0   | 124.7   | 100.0   | 124.7      | 26  |
| 24"                    |             | 100.0   | 200.0   | 100.0   | 200.0      | -   |
| 30"                    |             | 100.0   | 200.0   | 100.0   | 200.0      | 53  |
| 32"                    |             | 100.0   | 200.0   | 100.0   | 200.0      | 19  |
| 36"                    | 96"         | 100.0   | 200.0   | 100.0   | 200.0      | 26  |
| 42 <b>"</b>            |             | 100.0   | 195.9   | 100.0   | 195.9      | -   |
| 48"                    |             | 100.0   | 150.0   | 100.0   | 150.0      | 53  |
| -0<br>54"              |             | 100.0   | 120.0   | 100.0   | 120.0      | 19  |
| <br>24"                |             | 100.0   | 200.0   | 100.0   | 200.0      | 26  |
| 2 <del>.1</del><br>30" |             | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 32"                    |             | 100.0   | 200.0   | 100.0   | 200.0      | 53  |
| 32<br>36"              | 108"        | 100.0   | 200.0   | 100.0   | 200.0      | 19  |
| 36<br>42"              |             | 100.0   | 195.9   | 100.0   | 195.9      | 26  |
|                        |             |         |         |         |            |     |
| 48"                    |             | 100.0   | 150.0   | 100.0   | 150.0      | 6.7 |
| 24"<br>70"             |             | 100.0   | 200.0   | 100.0   | 200.0      | 53  |
| 30"                    | 4007        | 100.0   | 200.0   | 100.0   | 200.0      | 19  |
| 32"                    | 120"        | 100.0   | 200.0   | 100.0   | 200.0      | 26  |
| 36"                    |             | 100.0   | 200.0   | 100.0   | 200.0      |     |
| 42"                    |             | 100.0   | 195.9   | 100.0   | 195.9      | 53  |

|              | EQUAL  | LITE    | s wir   | IDOWS   | 5        |  |  |  |  |  |  |  |  |
|--------------|--|---------|---------|---------|----------|--|--|--|--|--|--|--|--|
|              | DESIGN LOAD CAPACITY - PSF<br>NDOW DIMS. GLASS TYPE '5' GLASS TYPE '6' |         |         |         |          |  |  |  |  |  |  |  |  |
| INDO         | V DIMS.  | GLASS T | YPE '5' | GLASS 7 | TYPE '6' |  |  |  |  |  |  |  |  |
| DTH          | HEIGHT   | EXT.(+) | 1NT.()  | EXT.(+) | 1NT.(-)  |  |  |  |  |  |  |  |  |
| 1/8"         |  | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 1/2"         | 26"  | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 7"           | 20   | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 1/8"<br>1/8" |  | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 1/8"         |  | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 1/2"         | 38-3/8"  | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 7"           | 00 0/0   | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 1/8"         |  | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 1/8"<br>1/8" |  | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 1/2"         | 50-5/8"  | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 7"           | 55-578   | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 1/8"         |  | 100.0   | 168.7   | 100.0   | 168.7    |  |  |  |  |  |  |  |  |
| 1/8"<br>1/8" |  | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 1/2"         | 63"  | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 7"           | 63   | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 1/8"         |  | 100.0   | 146.8   | 100.0   | 146.8    |  |  |  |  |  |  |  |  |
| 1/8"         |  | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 1/2"         | 707  | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 7"           | 72"  | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 1/8"         |  | 100.0   | 136.7   | 100.0   | 136.7    |  |  |  |  |  |  |  |  |
| 1/8"<br>1/8" |  | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 1/2"         | 76#  | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 7"           | 76"  | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |
| 1/8"         |  | 100.0   | 133.3   | 100.0   | 133.3    |  |  |  |  |  |  |  |  |

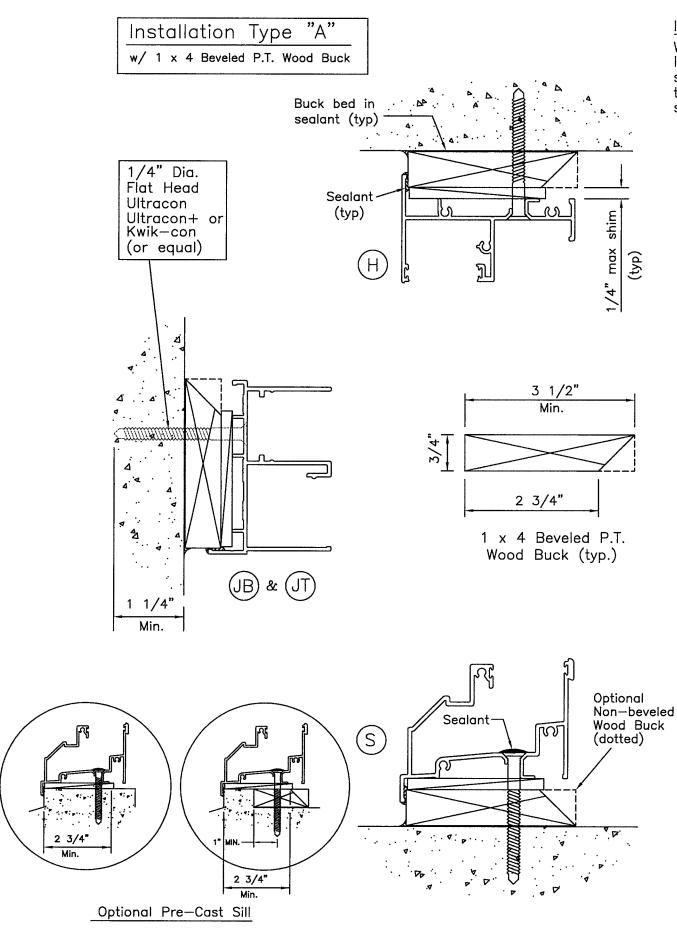




NOTE: GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219

| UNEQUAL LITES WINDOWS (ORIEL)<br>DESIGN LOAD CAPACITY - PSF |                |          |         |         |         |        |  |  |  |  |  |  |  |  |
|---|----------------|----------|---------|---------|---------|--------|--|--|--|--|--|--|--|--|
|   | DE             |          |         |         |         |        |  |  |  |  |  |  |  |  |
| WINDO   | V DIMS.        | TOP VENT |         |         |         |        |  |  |  |  |  |  |  |  |
| WIDTH   | HEIGHT         | HEIGHT   | EXT.(+) | 1NT.(-) | EXT.(+) | 1NT.(- |  |  |  |  |  |  |  |  |
| 24"   |                |          | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 30"   |                |          | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 32"   |                |          | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 36"   | 96"<br>(MAX.)  | 48"      | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 42"   |                |          | 100.0   | 195.9   | 100.0   | 195.9  |  |  |  |  |  |  |  |  |
| 48"   |                |          | 100.0   | 150.0   | 100.0   | 150.0  |  |  |  |  |  |  |  |  |
| 54"   |                |          | 100.0   | 120.0   | 100.0   | 120.0  |  |  |  |  |  |  |  |  |
| 24"   |                |          | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 30"   | 108"<br>(MAX.) |          | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 32"   |                |          | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 36"   |                | 54"      | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 42"   |                |          | 100.0   | 195.9   | 100.0   | 195.9  |  |  |  |  |  |  |  |  |
| 48"   |                |          | 100.0   | 150.0   | 100.0   | 150.0  |  |  |  |  |  |  |  |  |
| 24"   |                |          | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 30"   |                |          | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 32"   | 120"           | 60"      | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 36"   | (MAX.)         |          | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 42"   |                |          | 100.0   | 195.9   | 100.0   | 195.9  |  |  |  |  |  |  |  |  |
| 24"   |                |          | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 30"   | 120"           | 66"      | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 32"   | (MAX.)         |          | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 36"   |                |          | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 24"   |                |          | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 30"   | 120"           | 72"      | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 32"   | 120"<br>(MAX.) | 12       | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 36"   |                |          | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 24"   | 120"           | 78"      | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 30"   | (MAX.)         | /0       | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 24"   | 120"           | 84"      | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |
| 30"   | (MAX.)         | 04       | 100.0   | 200.0   | 100.0   | 200.0  |  |  |  |  |  |  |  |  |

| U       | UNEQUAL LITES WINDOWS (ORIEL) |          |         |         |         |          |  |  |  |  |  |  |  |  |  |
|---------|-------------------------------|----------|---------|---------|---------|----------|--|--|--|--|--|--|--|--|--|
|         | DE                            | SIGN LOA |         |         | PSF     |          |  |  |  |  |  |  |  |  |  |
| WINDOW  | V DIMS.                       | TOP VENT | GLASS 7 | YPE '5' | GLASS 1 | TYPE '6' |  |  |  |  |  |  |  |  |  |
| WIDTH   | HEIGHT                        | HEIGHT   |         | 1NT.(-) |         | 1NT.(-)  |  |  |  |  |  |  |  |  |  |
| 19-1/8" |                               |          | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |  |
| 26-1/2" | 96"                           | 48"      | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |  |
| 37"     | (MAX.)                        | 70       | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |  |
| 53-1/8" |                               |          | 100.0   | 123.6   | 100.0   | 123.6    |  |  |  |  |  |  |  |  |  |
| 19-1/8" |                               |          | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |  |
| 26-1/2" | 108"                          | 54"      | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |  |
| 37"     | (MAX.)                        |          | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |  |
| 19–1/8" |                               |          | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |  |
| 26-1/2" | 120"                          | 60"      | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |  |
| 37"     | (MAX.)                        |          | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |  |
| 19-1/8" |                               |          | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |  |
| 26-1/2" | 120"                          | 66"      | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |  |
| 37"     | (MAX.)                        |          | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |  |
| 19–1/8" | 120"                          | 72"      | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |  |
| 26-1/2" | (MAX.)                        | 12       | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |  |
| 19-1/8" | 120"                          | 78"      | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |  |
| 26-1/2" | (MAX.)                        | 70       | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |  |
| 19–1/8" | 120"                          | 84"      | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |  |
| 26-1/2" | (MAX.)                        | 04       | 100.0   | 200.0   | 100.0   | 200.0    |  |  |  |  |  |  |  |  |  |



#### IMPORTANT NOTE:

Wood Bucks must sustain loads imposed by glazing system and transfer them to the building structure.

## TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

<u>1/4</u> DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI) <u>1/4</u> DIA. HILTI KWIK-CON II (Fu=163 KSI, Fy=157 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES 1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR BUCKS 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS) 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS) 1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)

INTO METAL STRUCTURES (HEAD/SILL/JAMBS) (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS ALUMINUM : 1/8" THK. MIN. (6063–T5 MIN.) STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#### #14 SMS (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) (NO SHIMS) STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

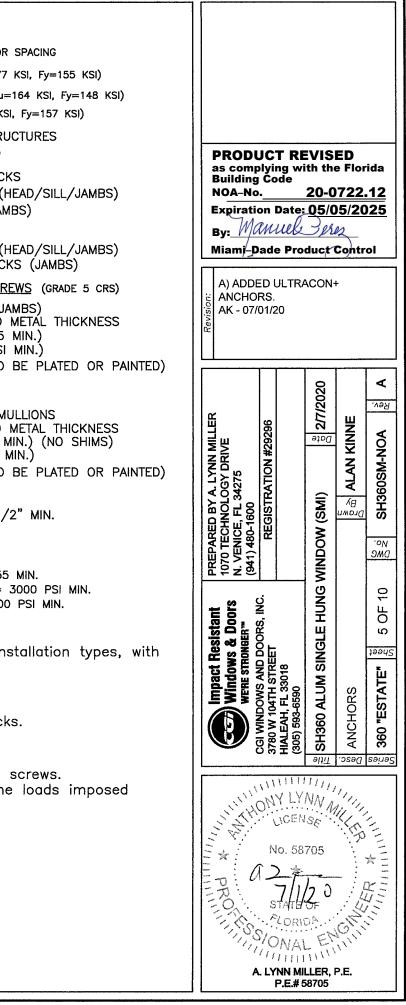
#### TYPICAL EDGE DISTANCE

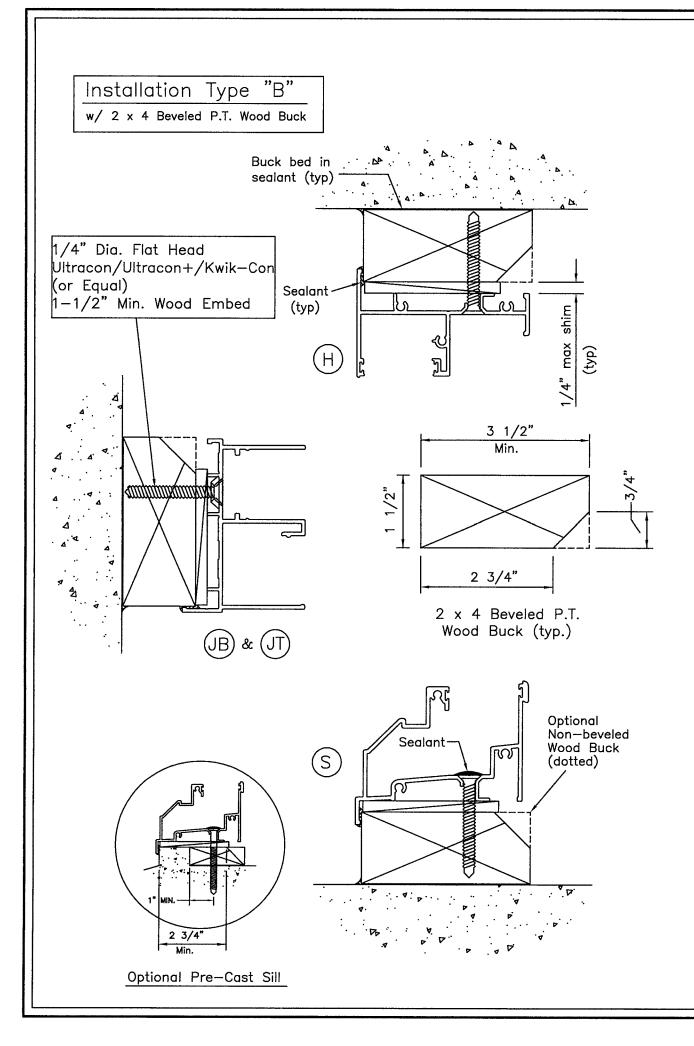
INTO CONCRETE AND MASONRY = 2-1/2" MIN. INTO WOOD STRUCTURE = 1" MIN. INTO METAL STRUCTURE = 3/4" MIN.

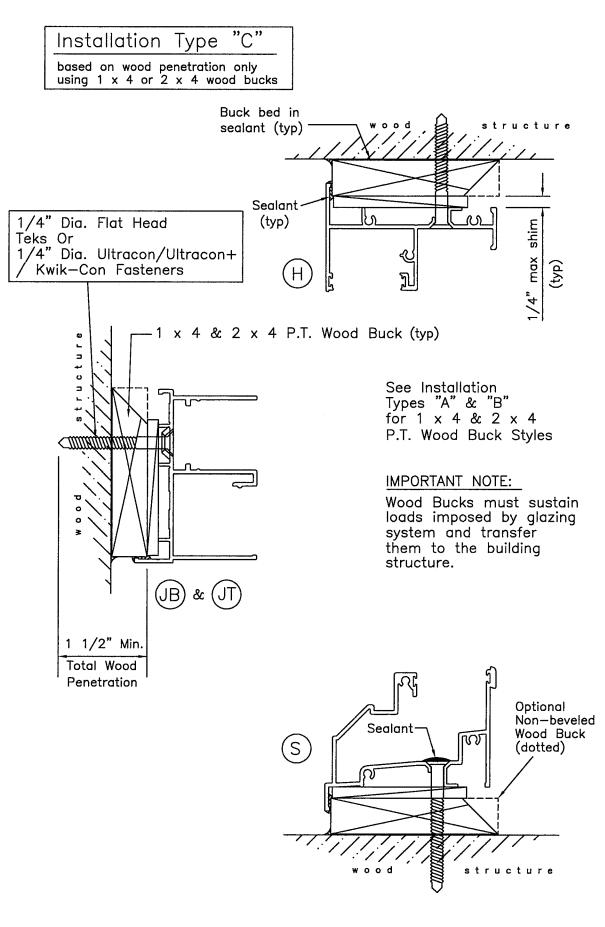
WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN. CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN. C-90 FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

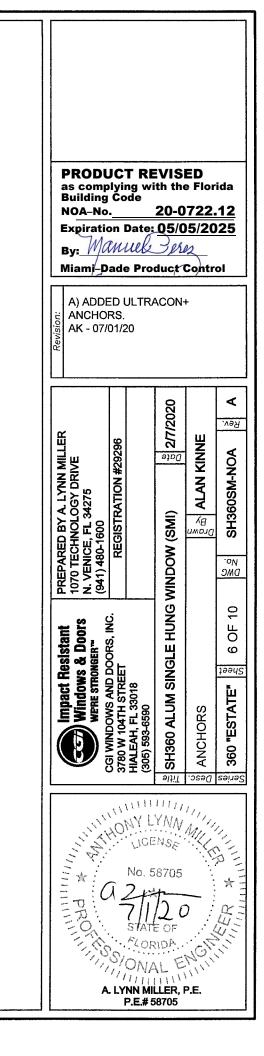
Values for Installation Type "A" apply to the following installation types, with maximum shim space 1/4":

- 1- Using 1by P.T. wood bucks, min. 3/4" thick,
- 2- Directly into masonry, without the use of wood bucks.
- 3- Directly into a steel or aluminum structure Min. 1/8" thick and using #14 Teks or Self drilling screws. Structure must be designed by others to sustain the loads imposed by the window.





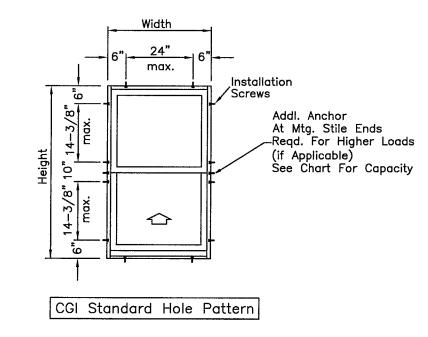




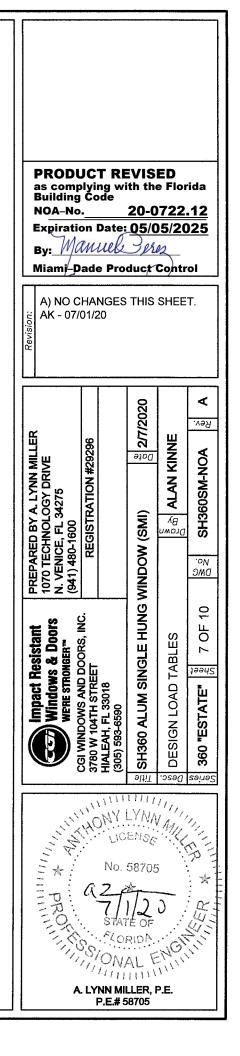
|       |         |          | NCHORS                                |                   |  |  |  |  |
|-------|---------|----------|---------------------------------------|-------------------|--|--|--|--|
|       | DI      | SIGN LOA | AD CAPACITY - F                       |                   |  |  |  |  |
| WINDO | W DIMS. | NO. OF   | STD. HOLE PATTERN<br>W/O ADDL. ANCHOR |                   |  |  |  |  |
| WIDTH | HEIGHT  |          | EXT.(+) & INT.(-)                     | EXT.(+) & INT.(-) |  |  |  |  |
| 24″   |         |          | 200.0                                 | 200.0             |  |  |  |  |
| 30"   |         |          | 200.0                                 | 200.0             |  |  |  |  |
| 32"   | 108     |          | 200.0                                 | 200.0             |  |  |  |  |
| 36"   | 48"     | 4        | 196.0                                 | 200.0             |  |  |  |  |
| 42"   |         |          | 174.2                                 | 200.0             |  |  |  |  |
| 48"   |         |          | 151.7                                 | 196.0             |  |  |  |  |
| 54"   |         |          | 127.1                                 | 178.2             |  |  |  |  |
| 24"   |         |          | 200.0                                 | 200.0             |  |  |  |  |
| 30"   |         |          | 200.0                                 | 200.0             |  |  |  |  |
| 32"   |         |          | 200.0                                 | 200.0             |  |  |  |  |
| 36"   | 60"     | 6        | 200.0                                 | 200.0             |  |  |  |  |
| 42"   |         |          | 171.1                                 | 200.0             |  |  |  |  |
| 48"   |         |          | 134.4                                 | 200.0             |  |  |  |  |
| 54"   |         |          | 110.7                                 | 166.0             |  |  |  |  |
| 24"   |         |          | 200.0                                 | 200.0             |  |  |  |  |
| 30"   |         |          | 200.0                                 | 200.0             |  |  |  |  |
| 32"   |         |          | 200.0                                 | 200.0             |  |  |  |  |
| 36"   | 72"     | 8        | 200.0                                 | 200.0             |  |  |  |  |
| 42"   |         |          | 165.1                                 | 200.0             |  |  |  |  |
| 48"   |         |          | 125.4                                 | 188.2             |  |  |  |  |
| 54"   |         |          | 101.2                                 | 151.7             |  |  |  |  |
| 24"   |         |          | 200.0                                 | 200.0             |  |  |  |  |
| 30"   |         |          | 200.0                                 | 200.0             |  |  |  |  |
| 32"   |         |          | 200.0                                 | 200.0             |  |  |  |  |
| 36"   | 84"     | 8        | 190.1                                 | 200.0             |  |  |  |  |
| 42"   |         |          | 164.9                                 | 192.0             |  |  |  |  |
| 48"   |         |          | 122.2                                 | 175.3             |  |  |  |  |
| 54"   |         |          | 96.0                                  | 144.0             |  |  |  |  |
| 24"   |         |          | 200.0                                 | 200.0             |  |  |  |  |
| 30"   |         |          | 185.8                                 | 200.0             |  |  |  |  |
| 32"   |         |          | 176.4                                 | 198.5             |  |  |  |  |
| 36"   | 96"     | 8        | 160.8                                 | 180.9             |  |  |  |  |
| 42"   |         |          | 143.4                                 | 161.3             |  |  |  |  |
| 48"   |         |          | 122.1                                 | 147.0             |  |  |  |  |
| 54"   |         |          | 94.1                                  | 135.7             |  |  |  |  |
| 24"   |         |          | 200.0                                 | 200.0             |  |  |  |  |
| 30"   |         |          | 200.0                                 | 200.0             |  |  |  |  |
| 32"   | 40-"    | 10       | 191.7                                 | 200.0             |  |  |  |  |
| 36"   | 108"    | 10       | 174.2                                 | 191.6             |  |  |  |  |
| 42"   |         |          | 154.5                                 | 169.9             |  |  |  |  |
| 48"   |         |          | 122.1                                 | 154.0             |  |  |  |  |
| 24"   |         |          | 200.0                                 | 200.0             |  |  |  |  |
| 30"   |         |          | 179.2                                 | 197.1             |  |  |  |  |
| 32"   | 120"    | 10       | 169.6                                 | 186.6             |  |  |  |  |
| 36"   | ·       |          | 153.7                                 | 169.1             |  |  |  |  |
| 42"   |         | ŀ        | 135.8                                 | 149.3             |  |  |  |  |

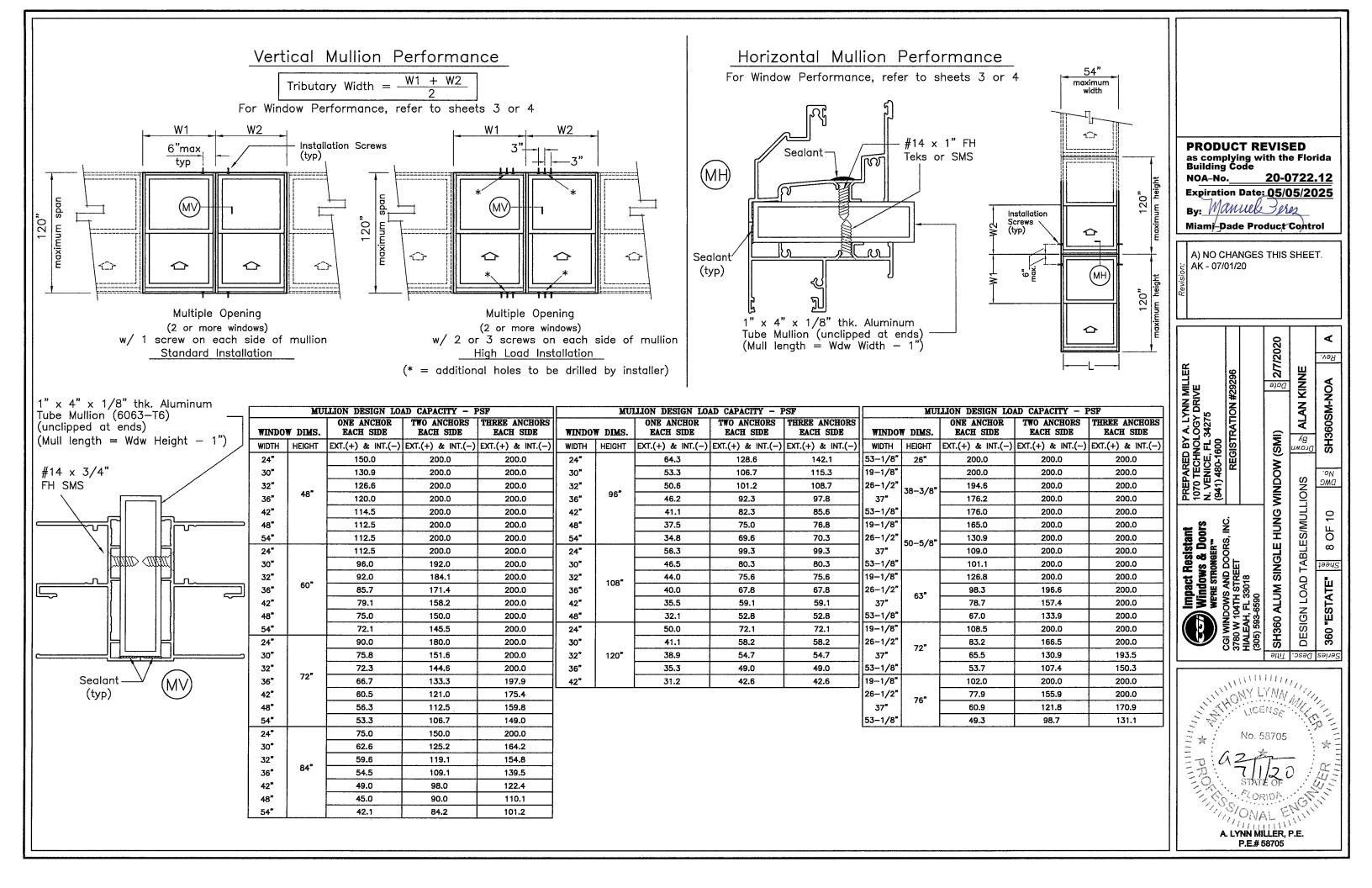
|         |         | A        | NCHORS                                |                   |  |  |  |  |  |
|---------|---------|----------|---------------------------------------|-------------------|--|--|--|--|--|
|         | DE      | SIGN LOA | AD CAPACITY - F                       | SF                |  |  |  |  |  |
| WINDO   | W DIMS. | NO. OF   | STD. HOLE PATTERN<br>W/O ADDL. ANCHOR |                   |  |  |  |  |  |
| WIDTH   | HEIGHT  |          | EXT.(+) & INT.(-)                     | EXT.(+) & INT.(-) |  |  |  |  |  |
| 19-1/8" |         |          | 200.0                                 | 200.0             |  |  |  |  |  |
| 26-1/2" | 26"     | 4        | 200.0                                 | 200.0             |  |  |  |  |  |
| 37"     | 26      | .,       | 200.0                                 | 200.0             |  |  |  |  |  |
| 53-1/8" |         |          | 200.0                                 | 200.0             |  |  |  |  |  |
| 19-1/8" | 1       |          | 200.0                                 | 200.0             |  |  |  |  |  |
| 26-1/2" |         | 4        | 200.0                                 | 200.0             |  |  |  |  |  |
| 37"     |         | -        | 200.0                                 | 200.0             |  |  |  |  |  |
| 53-1/8" |         |          | 152.7                                 | 200.0             |  |  |  |  |  |
| 19-1/8" | 50-5/8" |          | 200.0                                 | 200.0             |  |  |  |  |  |
| 26-1/2" |         | 4        | 200.0                                 | 200.0             |  |  |  |  |  |
| 37"     | 00 0,0  | -        | 179.6                                 | 200.0             |  |  |  |  |  |
| 53-1/8" |         |          | 125.7                                 | 169.5             |  |  |  |  |  |
| 19-1/8" |         |          | 200.0                                 | 200.0             |  |  |  |  |  |
| 26-1/2" | 63"     | 6        | 200.0                                 | 200.0             |  |  |  |  |  |
| 37"     | 0.5     | , v      | 200.0                                 | 200.0             |  |  |  |  |  |
| 53-1/8" |         |          | 110.7                                 | 166.1             |  |  |  |  |  |
| 19-1/8" |         |          | 200.0                                 | 200.0             |  |  |  |  |  |
| 26-1/2" | 72"     | 8        | 200.0                                 | 200.0             |  |  |  |  |  |
| 37"     | /2"     | U        | 200.0                                 | 200.0             |  |  |  |  |  |
| 53-1/8" |         |          | 104.1                                 | 156.1             |  |  |  |  |  |
| 19–1/8" |         |          | 200.0                                 | 200.0             |  |  |  |  |  |
| 26-1/2" | 76"     | 8        | 200.0                                 | 200.0             |  |  |  |  |  |
| 37"     | /6      | U        | 200.1                                 | 200.0             |  |  |  |  |  |
| 53-1/8" |         |          | 102.1                                 | 153.1             |  |  |  |  |  |

LOADS APPLY TO INSTALLATION TYPES A, B & C AND INTO ALUMINUM BUCKS FOR ALUMINUM BUCK INSTALLATION SEE SHEETS 9 AND 10.

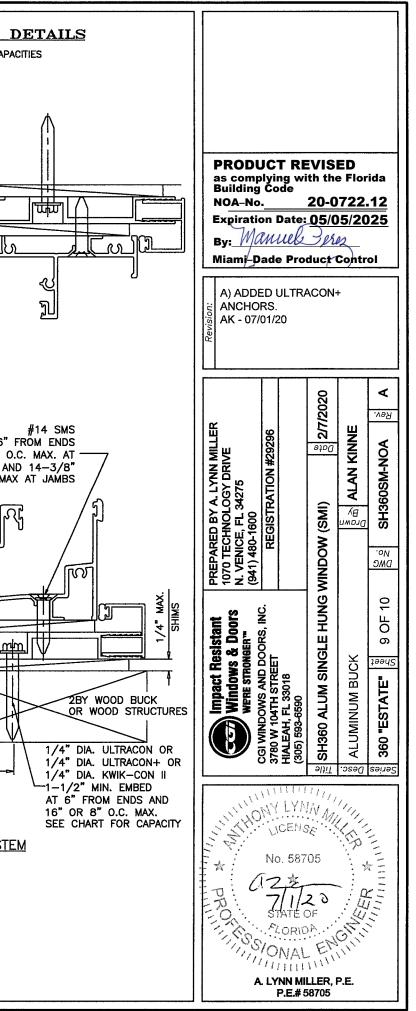


Refer to sheets 5 & 6 of 10 for description of installation types A - B - C





| PERFORMANCE VALUES<br>OF ALUMINUM BUCK<br>INSTALLATION ANCHORS<br>EXT.(+) & INT.(-)<br>ANCHOR SPACING ANCHOR SPACING ANCHOR SPACING |     |   |   |   |   |   |   |   |                 | OF<br>INST                                   | ' ALUMII<br>FALLATIO                               | NCE VALI<br>NUM BUO<br>N ANCH<br>& INT.(-)               | CK   |   |                          | ALUMINUM BUCK FRAMING<br>REFER TO SHEETS 3 THRU 9 FOR WINDOW C/<br>USE LOWER APPLICABLE VALUES. |                                       |  |   |                                 |       |   |
|---|-----|---|---|---|---|---|---|---|-----------------|--|--|--|--|---|--------------------------|---|---------------------------------------|--|---|---------------------------------|-------|---|
| WINDOW DI   |     |   | SPACING<br>CONC.<br>8" O.C.   | INTO HOL  | LOW BLOCK   | INTO  | WOOD  |   | DIMS.           | INTO   |  | INTO HOL   | R SPACING     ANCHOR SPACING       LOW BLOCK     INTO WOOD       8" O.C.     16" O.C.       8" O.C.     16" O.C. |   |                          |   |                                       |  |   |                                 |       |   |
| 24"<br>30"<br>32"   | 48" | 200.0<br>200.0<br>200.0<br>200.0  | 8 0.C.<br>200.0<br>200.0<br>200.0<br>200.0  | 18 0.C.<br>178.7<br>155.9<br>150.8<br>142.9                       | <b>B</b> <sup>*</sup> <b>O.C.</b><br>200.0<br>200.0<br>200.0<br>200.0 | 16" 0.C.<br>200.0<br>200.0<br>200.0<br>200.0                | 8 0.C.<br>200.0<br>200.0<br>200.0<br>200.0                  | WIDTH<br>19-1/8"<br>26-1/2"<br>37"<br>53-1/8"   | HEIGHT<br>26"   | 16" O.C.<br>200.0<br>200.0<br>200.0<br>200.0 | 8" 0.C.<br>200.0<br>200.0<br>200.0<br>200.0        | 16 <sup>°</sup> 0.C.<br>200.0<br>200.0<br>185.5<br>148.0 | 8 <sup>-</sup> 0.C.<br>200.0<br>200.0<br>200.0<br>200.0  | 16°         0.C.         8°         0           200.0         200         200         200           200.0         200         200         100           198.8         200         200         100 | 0.0<br>0.0<br>0.0        | A<br>A 4  | A . 7 . 8                             |  | 4.  | N<br>4                          | ;<br> |   |
| 42"<br>48"<br>54"<br>24"  |     | 200.0<br>200.0<br>168.0<br>200.0  | 200.0<br>200.0<br>200.0<br>200.0  | 131.3<br>131.3<br>107.2<br>134.0                                  | 200.0<br>200.0<br>187.6<br>200.0                                      | 176.3<br>180.0<br>144.0<br>200.0                            | 200.0<br>200.0<br>200.0<br>200.0                            | 19-1/8"<br>26-1/2"<br>37"<br>53-1/8"            | 383/8"          | 200.0<br>200.0<br>200.0<br>185.8             | 200.0<br>200.0<br>200.0<br>200.0                   | 200.0<br>173.9<br>157.4<br>118.5                         | 200.0<br>200.0<br>200.0<br>200.0   | 200.0         200           200.0         200           200.0         200           200.0         200   | 0.0<br>0.0               |   |                                       |  |   |                                 |       |   |
| 30"<br>32"  | 60" | 179.2<br>171.8<br>160.0<br>147.7<br>140.0   | 200.0<br>200.0<br>200.0<br>200.0<br>200.0<br>200.0  | 114.3<br>109.6<br>102.1<br>94.2<br>89.3                           | 200.0<br>191.9<br>178.7<br>164.9<br>156.3                             | 200.0<br>200.0<br>200.0<br>176.3<br>180.0                   | 200.0<br>200.0<br>200.0<br>200.0<br>200.0<br>200.0          | 19-1/8"<br>26-1/2"<br>37"<br>53-1/8"<br>19-1/8" | 50-5/8"         | 200.0<br>200.0<br>200.0<br>171.8<br>200.0    | 200.0<br>200.0<br>200.0<br>200.0<br>200.0<br>200.0 | 196.6<br>155.9<br>129.9<br>109.6<br>188.8                | 200.0<br>200.0<br>194.8<br>180.7<br>200.0  | 133.2         200           200.0         200           200.0         200           200.0         200           147.3         200           200.0         200                                     | 0.0<br>0.0<br>0.0<br>0.0 | ر <i>ک</i> در ا   | د<br>م                                | <u>र</u><br>जू   | J   |                                 |       |   |
| 54"<br>24"<br>30"<br>32"<br>36" 7   | 72" | 135.8<br>200.0<br>176.8<br>168.8<br>155.6   | 200.0<br>200.0<br>200.0<br>200.0<br>200.0   | 86.6<br>134.0<br>112.8<br>107.7<br>99.3                           | 151.6<br>200.0<br>200.0<br>193.8<br>178.7                             | 142.2<br>200.0<br>200.0<br>200.0<br>200.0                   | 200.0<br>200.0<br>200.0<br>200.0<br>200.0                   | 26-1/2"<br>37"<br>53-1/8"<br>19-1/8"<br>26-1/2" | 63"             | 200.0<br>183.7<br>156.2<br>200.0<br>194.2    | 200.0<br>200.0<br>200.0<br>200.0<br>200.0          | 146.4<br>117.2<br>99.7<br>161.6<br>123.9                 | 200.0<br>187.5<br>159.5<br>200.0<br>200.0  | 200.0         200           200.0         200           200.0         200           146.9         200           200.0         200           200.0         200           200.0         200         | 0.0<br>0.0<br>0.0<br>0.0 |   |                                       |  |   |                                 |       |   |
| 42"<br>48"<br>54"<br>24"<br>30"   |     | 141.2<br>131.3<br>124.4<br>200.0<br>175.3   | 200.0<br>200.0<br>200.0<br>200.0  | 90.1<br>83.8<br>79.4<br>134.0                                     | 162.2<br>150.8<br>142.9<br>200.0                                      | 176.3<br>180.0<br>142.2<br>200.0                            | 200.0<br>200.0<br>200.0<br>200.0                            | 37"<br>53–1/8"<br>19–1/8"<br>26–1/2"            | 72"             | 152.8<br>125.3<br>200.0<br>181.9             | 200.0<br>200.0<br>200.0<br>200.0                   | 97.5<br>79.9<br>151.9<br>116.0                           | 175.5<br>143.9<br>200.0<br>200.0   | 200.0         200           146.9         200           200.0         200           200.0         200   | 0.0<br>0.0<br>0.0<br>0.0 |   |                                       | ' FROM EI<br>24" O.C.  | MAX. AT<br>ND 14-3  | /8"                             |       | AT 6"<br>ID 24" 0<br>: SILL AN<br>O.C. MA |
| 32".<br>36" 8<br>42"<br>48"   | 84" | 166.8<br>152.7<br>137.1<br>126.0  | 200.0<br>200.0<br>200.0<br>200.0<br>200.0   | 111.9<br>106.4<br>97.5<br>87.5<br>80.4                            | 186.4<br>177.4<br>162.4<br>145.9<br>134.0                             | 200.0<br>200.0<br>200.0<br>176.3<br>180.0                   | 200.0<br>200.0<br>200.0<br>200.0<br>200.0                   | 37"<br>53–1/8"                                  |                 | 142.1<br>115.1                               | 200.0<br>200.0                                     | 90.7<br>73.5   | 163.3<br>132.2   | 200.0 200<br>146.9 200<br>  | 0.0                      |   | 5                                     | 3  |   | . 57.10                         | SMIHS |   |
| 42"<br>48"  | 96" | 117.9         200.0         174.2         165.4         150.8         134.4         122.5 | 196.5           200.0           200.0           200.0           200.0           200.0           200.0           200.0 | 75.2<br>134.0<br>111.2<br>105.5<br>96.2<br>85.8<br>78.2           | 125.4<br>200.0<br>190.6<br>180.9<br>164.9<br>147.0<br>134.0           | 142.2<br>200.0<br>200.0<br>200.0<br>200.0<br>176.3<br>180.0 | 200.0<br>200.0<br>200.0<br>200.0<br>200.0<br>200.0<br>200.0 |   |                 |  |  | ł  |  | $\frac{1}{2}$   | 3000 P                   |   |                                       |  | JLTRACON  | †<br><u>-</u><br>†              |       |   |
| 54"<br>24"<br>30"<br>32" 10<br>36"<br>42"<br>48"  | 08" | 113.6<br>183.8<br>151.7<br>143.8<br>130.7<br>115.9<br>105.0                               | 194.8<br>200.0<br>200.0<br>200.0<br>200.0<br>200.0<br>195.0   | 72.5<br>117.3<br>96.8<br>91.8<br>83.4<br>73.9<br>67.0             | 124.3<br>200.0<br>179.8<br>170.4<br>154.8<br>137.3<br>124.4           | 142.2<br>200.0<br>200.0<br>200.0<br>200.0<br>176.3<br>180.0 | 200.0<br>200.0<br>200.0<br>200.0<br>200.0<br>200.0<br>200.0 |   | SILLS<br>WITH O | CAN ALSO                                     | ) BE US<br>WATERBA                                 | ED<br>NR   |  | BLOCK = 1924<br>2 1/2"<br>EDGE [  | <br>міл.                 | · · · · · · · · · · · · · · · · · · ·   | ··· 11/<br>1/<br>1/<br>CC<br>AT<br>16 | /4" DIA. L<br>/4" DIA. K<br>-3/4" MIN<br>DNC. OR<br>5" 6" FROM<br>5" OR 8" | JLTRACON-<br>(WIK-CON<br>J. EMBED<br>FILLED BL<br>J ENDS A<br>O.C. MAX<br>FOR CAP | + OR<br>II<br>INTO<br>OCK<br>ND | 1** M | 4in.                                      |
| 24"<br>30"  | 20" | 185.6<br>186.7<br>153.6<br>145.4<br>131.8<br>116.4  | 200.0<br>200.0<br>200.0<br>200.0<br>200.0<br>200.0  | 119.1           98.0           92.8           84.1           74.3 | 200.0<br>183.8<br>173.9<br>157.6<br>139.2                             | 200.0<br>200.0<br>200.0<br>200.0<br>176.3                   | 200.0<br>200.0<br>200.0<br>200.0<br>200.0<br>200.0          |   | 270             | -4.253<br>5<br>                              |  | .5   |  | 845065  | -                        | ALL FO  |                                       |  | <u>ALLATIO</u><br>NG ALU  |                                 |       | <u>SYST</u>                               |
|   |     |   |   |   |   |   |   |   |                 | NUM BU<br>063–T6                             |  | <u>(</u>   | OPTIONA  | 903<br>AL_COVER<br>316  |                          |   |                                       |  |   |                                 |       |   |



| WIDTH         HEIGHT         CLUSTER<br>OF 2         CLUSTER<br>OF 4         CLUSTER<br>OF 6         CLUSTER<br>OF 2         CLUSTER<br>OF 4         CLUSTER<br>OF 6         CLUSTER<br>OF 2         CLUSTER<br>OF 6         CLUSTER         CLUSTER <th></th> <th></th> <th></th> <th></th> <th>OF A</th> <th>ORMANC<br/>ALUMINU<br/>LLATION<br/>KT.(+) &amp;</th> <th>M BUCK</th> <th>2</th> <th></th> <th></th> <th></th> <th></th> <th></th> |   |      |              |                |                |                |              |                |                |                |              |                |                 |                 |                         |                             |                  | OF A            | ORMANC<br>ALUMINU<br>LLATION<br>KT.(+) & | M BUCK               | 2               |                 |                    |                 |                |  |                |             |
|--|---|------|--------------|----------------|----------------|----------------|--------------|----------------|----------------|----------------|--------------|----------------|-----------------|-----------------|-------------------------|-----------------------------|------------------|-----------------|--|----------------------|-----------------|-----------------|--------------------|-----------------|----------------|--|----------------|-------------|
|  |   |      |              |                |                |                |              |                |                |                |              |                |                 |                 | WINDO                   | WINDOW DIMS. ANCHORS INTO H |                  |                 | HOLLOW                                   | OLLOW BLOCK          |                 |                 | ANCHORS INTO CONC. |                 |                | ANCHORS I                              | NTO WOO        | D           |
|  |   |      |              |                |                |                |              |                |                |                | WIDTH        | HEIGHT         | CLUSTER<br>OF 2 | CLUSTER<br>OF 4 | CLUSTER<br>OF 6         | CLUSTER<br>OF 8             | CLUSTER<br>OF 2  | CLUSTER<br>OF 4 | CLUSTER<br>OF 6                          | CLUSTER<br>OF 8      | CLUSTER<br>OF 2 | CLUSTER<br>OF 4 | CLUSTER<br>OF 6    | CLUSTER<br>OF 8 |                |  |                |             |
|  | 24"   |      |              | 178.7          | 200.0          | 200.0          | 140.0        | 200.0          | 200.0          | 200.0          | 120.0        | 200.0          | 200.0           | 200.0           | 1 1                     |                             | 200.0            | 200.0           | 200.0                                    | 200.0                | 200.0           | 200.0           | 200.0              | 200.0           | 200.0          | 200.0                                  | 200.0          | 200.0       |
|  |   |      |              |                |                |                |              |                |                |                |              |                |                 |                 |                         | 26"                         | 200.0            | 200.0           | 200.0                                    | 200.0                | 200.0<br>200.0  | 200.0           | 200.0<br>200.0     | 200.0<br>200.0  | 200.0<br>200.0 | 200.0<br>200.0                         | 200.0          | 200.0       |
|  | 36"         48"         71.5         142.9         200.0         200.0         112.0         200.0         200.0         200.0         96.0         192.0         200.0         200.0         53-   |      |              |                |                |                |              |                |                |                |              |                |                 |                 | 53–1/8"                 |                             | 200.0<br>200.0   | 200.0<br>200.0  | 200.0                                    | 200.0<br>200.0       | 200.0           | 200.0           | 200.0              | 200.0           | 200.0          | 200.0                                  | 200.0          | 200.0       |
|  | 42" 68.1 136.1 200.0 200.0 106.7 200.0 200.0 200.0 91.4 182.9 200.0 200.0 19-1  |      |              |                |                |                |              |                |                |                |              |                |                 |                 | 19-1/8"                 |                             | 140.1            | 200.0           | 200.0                                    | 200.0                | 200.0           | 200.0           | 200.0              | 200.0           | 188.2          | 200.0                                  | 200.0          | 200.0       |
|  | 48"   |      | 67.0         | 134.0          | 200.0          | 200.0          | 105.0        | 200.0          | 200.0          | 200.0          | 90.0         | 180.0          | 200.0           | 200.0           | 26-1/2"                 | 38-3/8"                     | 115.9            | 200.0           | 200.0                                    | 200.0                | 181.7           | 200.0           | 200.0              | 200.0           | 155.7          | 200.0                                  | 200.0          | 200.0       |
|  | <u>54"</u><br>24"   |      | 67.0<br>67.0 | 134.0<br>134.0 | 200.0<br>200.0 | 200.0          | 105.0        | 200.0          | 200.0<br>200.0 | 200.0<br>200.0 | 90.0<br>90.0 | 180.0<br>180.0 | 200.0           | 200.0           | 37"<br>53–1/8"          |                             | 105.0<br>104.8   | 200.0<br>200.0  | 200.0                                    | 200.0<br>200.0       | 164.5<br>164.3  | 200.0           | 200.0<br>200.0     | 200.0<br>200.0  | 141.0<br>140.8 | 200.0<br>200.0                         | 200.0          | 200.0       |
|  | 24<br>30"   |      | 67.0<br>57.2 | 114.3          | 171.5          | 200.0          | 89.6         | 179.2          | 200.0          | 200.0          | 76.8         | 153.6          | 200.0           | 200.0           | 19-1/8"                 |                             | 98.3             | 196.6           | 200.0                                    | 200.0                | 154.0           | 200.0           | 200.0              | 200.0           | 132.0          | 200.0                                  | 200.0          | 200.0       |
|  | 32"   |      | 54.8         | 109.6          | 164.5          | 200.0          | 85.9         | 171.8          | 200.0          | 200.0          | 73.6         | 147.3          | 200.0           | 200.0           | 26-1/2"                 | 50-5/8"                     | 77.9             | 155.9           | 200.0                                    | 200.0                | 122.1           | 200.0           | 200.0              | 200.0           | 104.7          | 200.0                                  | 200.0          | 200.0       |
|  | 32"         54.8         109.6         164.5         200.0         85.9         171.8         200.0         200.0         73.6         147.3         200.0         200. |      |              |                |                |                |              |                |                |                |              |                |                 | 37"             | 00-070                  | 64.9                        | 129.9            | 194.8           | 200.0                                    | 101.8                | 200.0           | 200.0           | 200.0              | 87.2            | 174.5          | 200.0                                  | 200.0          |             |
|  | 42"   |      | 47.1         | 94.2           | 141.4          | 188.5          | 73.8         | 147.7          | 200.0          | 200.0          | 63.3         | 126.6          | 189.9           | 200.0           | 53-1/8"<br>19-1/8"      |                             | 60.2             | 120.5           | 180.7                                    | 200.0                | 94.4            | 188.8           | 200.0<br>200.0     | 200.0<br>200.0  | 80.9<br>101.4  | 161.8<br>200.0                         | 200.0          | 200.0       |
|  | 48"<br>54"  |      | 44.7<br>43.3 | 89.3<br>86.6   | 134.0<br>129.9 | 178.7<br>173.3 | 70.0<br>67.9 | 140.0<br>135.8 | 200.0<br>200.0 | 200.0<br>200.0 | 60.0<br>58.2 | 120.0<br>116.4 | 180.0<br>174.5  | 200.0           | 26-1/2"                 |                             | 75.5<br>58.5     | 151.0<br>117.1  | 200.0                                    | 200.0<br>200.0       | 118.4<br>91.7   | 183.5           | 200.0              | 200.0           | 78.6           | 157.3                                  | 200.0          | 200.0       |
|  | 24"   |      | 53.6         | 107.2          | 160.8          | 200.0          | 84.0         | 168.0          | 200.0          | 200.0          | 72.0         | 144.0          | 200.0           | 200.0           | 37"                     | 63"                         | 46.9             | 93.8            | 140.6                                    | 187.5                | 73.5            | 146.9           | 200.0              | 200.0           | 63.0           | 125.9                                  | 188.9          | 200.0       |
|  | 30"   |      | 45.1         | 90.3           | 135.4          | 180.5          | 70.7         | 141.5          | 200.0          | 200.0          | 60.6         | 121.3          | 181.9           | 200.0           | 53-1/8"                 |                             | 39.9             | 79.7            | 119.6                                    | 159.5                | 62.5            | 125.0           | 187.5              | 200.0           | 53.6           | 107.1                                  | 160.7          | 200.0       |
|  | 32"   | -    | 43.1         | 86.1           | 129.2          | 172.3          | 67.5         | 135.0          | 200.0          | 200.0          | 57.9         | 115.7          | 173.6           | 200.0           | 19-1/8"                 |                             | 64.6             | 129.3           | 193.9                                    | 200.0                | 101.3           | 200.0           | 200.0              | 200.0           | 86.8           | 173.7                                  | 200.0          | 200.0       |
|  | 36"   | 72*  | 39.7         |                | 119.1          | 158.8          | 62.2<br>56.5 | 124.4<br>112.9 | 186.7<br>169.4 | 200.0<br>200.0 | 53.3<br>48.4 | 106.7<br>96.8  | 160.0<br>145.2  | 200.0<br>193.6  | 26-1/2"<br>37"          | 72"                         | 49.6<br>39.0     | 99.2<br>78.0    | 148.7<br>117.0                           | 198.3<br>156.0       | 77.7<br>61.1    | 155.4<br>122.2  | 200.0<br>183.3     | 200.0           | 66.6<br>52.4   | 133.2<br>104.8                         | 199.8<br>157.1 | 200.0       |
|  | 42"<br>48"  |      | 36.0<br>33.5 | 67.0           | 108.1<br>100.5 | 134.0          | 58.5         | 105.0          | 159.4          | 200.0          | 45.0         | 90.0           | 135.0           | 193.0           | 53-1/8"                 |                             | 39.0             | 64.0            | 95.9                                     | 127.9                | 50.1            | 100.2           | 150.3              | 200.0           | 43.0           | 85.9                                   | 128.9          | 171.8       |
|  | 54"   |      | 31.8         | 63.5           | 95.3           | 127.1          | 49.8         | 99.6           | 149.3          | 199.1          | 42.7         | 85.3           | 128.0           | 170.7           | 19-1/8"                 |                             | 60.7             | 121.5           | 182.2                                    | 200.0                | 95.2            | 190.4           | 200.0              | 200.0           | 81.6           | 163.2                                  | 200.0          | 200.0       |
|  | 24"   |      | 44.7         | 89.3           | 134.0          | 178.7          | 70.0         | 140.0          | 200.0          | 200.0          | 60.0         | 120.0          | 180.0           | 200.0           | 26-1/2"                 | 76"                         | 46.4             | 92.8            | 139.2                                    | 185.7                | 72.7            | 145.5           | 200.0              | 200.0           | 62.3           | 124.7                                  | 187.0          | 200.0       |
|  | 30"   |      | 37.3         | 74.6           | 111.9          | 149.1          | 58.4         | 116.9          | 175.3          | 200.0          | 50.1         | 100.2          | 150.3           | 200.0           | 37"                     |                             | 36.3             | 72.6            | 108.8                                    | 145.1                | 56.9            | 113.7           | 170.6              | 200.0           | 48.7           | 97.5                                   | 146.2          | 194.9       |
|  | 32"<br>36"  | 84"  | 35.5<br>32.5 | 70.9<br>65.0   | 106.4<br>97.5  | 141.9<br>129.9 | 55.6<br>50.9 | 111.2<br>101.8 | 166.8<br>152.7 | 200.0<br>200.0 | 47.6<br>43.6 | 95.3<br>87.3   | 142.9<br>130.9  | 190.6<br>174.5  | 53-1/8"                 | L                           | 29.4             | 58,8            | 88.2                                     | 117.6                | 46.1            | 92.1            | 138.2              | 184.2           | 39.5           | 79.0                                   | 118.4          | 157.9       |
|  | 36<br>42"   | 04   | 29.2         | 58.3           | 97.5<br>87.5   | 116.7          | 45.7         | 91.4           | 137.1          | 182.9          | 39.2         | 78.4           | 117.6           | 156.7           |                         |                             |                  |                 |  |                      |                 |                 |                    |                 |                |  |                |             |
|  | 48"   |      | 26.8         | 53.6           | 80.4           | 107.2          | 42.0         | 84.0           | 126.0          | 168.0          | 36.0         | 72.0           | 108.0           | 144.0           |                         |                             |                  |                 |  |                      |                 |                 |                    |                 |                |  |                |             |
|  | 54"   |      | 25.1         | 50.2           | 75.2           | 100.3          | 39.3         | 78.6           | 117.9          | 157.2          | 33.7         | 67.4           | 101.1           | 134.7           |                         | -1                          |                  | -12"            | 1 ,                                      | PRE PUI<br>-ALL OTH  | ,               |                 | IOLES              |                 | IXX            | /////                                  | /////          | ',          |
|  | 24"<br>70"  |      | 38.3         | 76.6           | 114.9          | 153.1          | 60.0         | 120.0          | 180.0          | 200.0          | 51.4         | 102.9          | 154.3           | 200.0           |                         |                             | ' TYP.           | -               |  |                      | IN FIELD        |                 |                    |                 | IXX            |  |                | 11.         |
|  | 30"<br>32"  |      | 31.8<br>30.1 | 63.5<br>60.3   | 95.3<br>90.4   | 127.1          | 49.8<br>47.2 | 99.6<br>94.5   | 149.3<br>141.7 | 199.1<br>189.0 | 42.7<br>40.5 | 85.3<br>81.0   | 128.0<br>121.5  | 170.7<br>162.0  |                         |                             | T                | [               | tX.                                      |                      |                 | 1               |                    | <u> </u>        | <u>[[X]</u>    | <u>/////</u>                           |                | <u>   _</u> |
|  | 36"   | 96"  | 27.5         | 55.0           | 82.5           | 109.9          | 43.1         | 86.2           | 129.2          | 172.3          | 36.9         | 73.8           | 110.8           | 147.7           |                         |                             | <del>_(   </del> | ╘╼╢╞╧           |  |                      |                 |                 | ቢ                  | ╞══╌╸           |                |  |                | <del></del> |
|  | 42"   |      | 24.5         | 49.0           | 73.5           | 98.0           | 38.4         | 76.8           | 115.2          | 153.6          | 32.9         | 65.8           | 98.7            | 131.7           |                         |                             | ~~               |                 |  |                      |                 |                 |                    |                 | ୢୢୗୖୖୄୖ୕ୖ୴ୄ    |  |                | <u> </u>    |
|  | 48"   |      | 22.3         | 44.7           | 67.0           | 89.3           | 35.0         | 70.0           | 105.0          | 140.0          | 30.0         | 60.0           | 90.0            | 120.0           |                         |                             |                  |                 |  |                      |                 |                 |                    |                 | /              |  |                |             |
|  | 54"<br>24"  |      | 20.7<br>33.5 | 41.4<br>67.0   | 62.1<br>100.5  | 82.9<br>134.0  | 32.5<br>52.5 | 64.9<br>105.0  | 97.4<br>157.5  | 129.9<br>200.0 | 27.8<br>45.0 | 55.7<br>90.0   | 83.5<br>135.0   | 111.3<br>180.0  |                         |                             |                  | IIIN            | 1X4 MUL                                  | LION                 |                 |                 |                    |                 | /              |  |                |             |
|  | 24<br>30"   |      | 27.7         | 55.3           | 83.0           | 110.7          | 43.4         | 86.7           | 130.1          | 173.4          | 37.2         | 74.3           | 111.5           | 148.6           |                         |                             |                  |                 | SEE SHT                                  | 8 OF 1               | 1               |                 |                    | ÷ +             | SCREWS         | N CLUST                                | ER             |             |
|  | 32"   | 108" | 26.2         | 52.4           | 78.7           | 104.9          | 41.1         | 82.2           | 123.3          | 164.3          | 35.2         | 70.4           | 105.7           | 140.9           |                         |                             |                  | J∭L             |  |                      | _/   ∟          |                 |                    |                 |                |  |                |             |
|  | 36"   | .00  | 23.8         | 47.6           | 71.5           | 95.3           | 37.3         | 74.7           | 112.0          | 149.3          | 32.0         | 64.0           | 96.0            | 128.0           |                         |                             |                  | ┯╢┝┯            |  | n                    | ╤╢┠┲╸           |                 |                    |                 | $\backslash$   |  |                |             |
|  | 42"<br>48"  |      | 21.1<br>19.1 | 42.2<br>38.3   | 63.4<br>57.4   | 84.5<br>76.6   | 33.1<br>30.0 | 66.2<br>60.0   | 99.3<br>90.0   | 132.4<br>120.0 | 28.4<br>25.7 | 56.7<br>51.4   | 85.1            | 113.5<br>102.9  |                         |                             |                  |                 |  |                      |                 |                 |                    |                 | r              |  |                |             |
|  |   |      | 29.8         | 59.6           | 57.4<br>89.3   | 119.1          | 46.7         | 93.3           | 90.0<br>140.0  | 120.0          | 40.0         | 80.0           | 120.0           | 160.0           |                         |                             |                  |                 |  |                      |                 |                 |                    |                 | الشبها         |  |                |             |
|  | 30"   |      | 24.5         | 49.0           | 73.5           | 98.0           | 38.4         | 76.8           | 115.2          | 153.6          | 32.9         | 65.8           | 98.7            | 131.7           |                         | $\leq$                      | $\geq$           |                 | $\leq$                                   | $\geq$               |                 |                 | -<br>              | Inn             |                |  |                | Ţ           |
|  | 32"   |      |              |                |                |                |              |                |                |                |              |                | 124.6           |                 |                         |                             |                  |                 |  |                      |                 |                 |                    |                 |                |  | III,           |             |
|  | 36"         21.0         42.0         63.1         84.1         32.9         65.9         98.8         131.8         28.2         56.5         84.7         112.9           42"         18.6         37.1         55.7         74.3         29.1         58.2         87.3         116.4         24.9         49.9         74.8         99.7  |      |              |                |                |                |              |                |                |                |              |                |                 |                 |                         |                             |                  |                 |  |                      |                 |                 | III                |                 | IIII           |  |                |             |
|  | 42" 18.6 37.1 55.7 74.3 29.1 58.2 87.3 116.4 24.9 49.9 74.8 99.7  |      |              |                |                |                |              |                |                |                |              |                |                 |                 | न्त्त                   | ╒╨╤                         |                  | <u></u>         |  |                      |                 |                 | /////              | /////           | IIII.          |  |                |             |
|  |   |      |              |                |                |                |              |                | IORS           |                |              | ~              |                 |                 |                         |                             | . 7              | +               |  |                      |                 | ı               | ANCHO              | DRS MI          | N. ĚDG         | e dist.                                | = 2-           | 1/2 IN.     |
|  |   |      |              |                |                | AL             |              |                | BUCK           |                |              | ż              |                 |                 | <b>⊨</b>                | ———-N                       | /                |                 | γ  | V                    |                 |                 |                    |                 |                |  |                |             |
|  | FOR W   | NDOW |              |                | ΤO             |                | (AT          | MUL            | LION           | END            | S)           |                |                 |                 |                         |                             |                  |                 |  | GOR 8 A<br>). ALL OT |                 | ĸ               |                    |                 |                |  |                |             |
|  |   |      |              |                |                |                |              |                |                |                |              |                |                 |                 |                         |                             | - ANC            | CHORS A         | S PER S                                  | HEET 9.              |                 | ~~~             |                    |                 |                |  |                |             |
|  | ALUMIN  |      |              |                |                |                | >            |                |                |                |              |                |                 |                 | CKS ARE SU<br>CREW HOLE |                             |                  |                 | IF 8 BEIN                                | IG SHOWN             | N)              |                 |                    |                 |                |  |                |             |
|  | SPACE   | AS P | ER SF        | TEEIS          | × ۸            | ð.             |              |                |                |                |              | EXT            | RA HOLE         | S MÙST          | BE FIELD D              | RILLED IF                   | REQUIRED         |                 |  |                      |                 |                 |                    |                 |                |  |                |             |
| ┟└─  |   |      |              |                |                |                |              | <del></del>    | · · ·          |                |              |                |                 |                 |                         |                             |                  |                 |  |                      |                 |                 |                    |                 |                | ······································ |                |             |

