MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

PGT Industries, Inc.
1070 Technology Drive
North Venice, FL 34275

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 "SH7700A" Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **7700NOA-1 Rev B**, titled "Aluminum Single Hung Install (LMI)", sheets 1 through 11 of 11, dated 04/01/18 and last revised on 06/06/23, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

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, 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 & renews NOA # 20-0401.11** 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 **Ishaq I. Chanda, P.E.**

Ishaq I. Chanda

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Submitted under NOA # 18-0430.06

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **7700NOA-1**, titled "Aluminum Single Hung Install (LM), sheets 1 through 11 of 11, dated 04/01/18, 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 FBC 2411.3.2.1, and TAS 202-94

   along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-18-7835.1**, dated 04/03/18, signed and sealed by Idalmis Ortega, P.E.
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94

   window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-18-7835.2**, dated 05/04/18, signed and sealed by Idalmis Ortega, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated 04/23/18, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

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

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0707.10
Expiration Date: August 23, 2028
Approval Date: July 27, 2023

NOTICE OF ACCEPTANCE; EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-1114.14** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 01/18/18, expiring on 07/08/19.
2. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 12/28/17, expiring on 07/04/23.

F. STATEMENTS

1. Statement letter of conformance to **FBC 6th Edition (2017)**, dated April 24, 2018, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest, dated April 24, 2018, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
3. Proposal No. **18-0005R** issued by the Product Control Section, dated 01/16/18, signed by Manuel Perez, P.E.

G. OTHERS

1. None.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 23-0707.10
Expiration Date: August 23, 2028
Approval Date: July 27, 2023

NOTICE OF ACCEPTANCE; EVIDENCE SUBMITTED

2. Evidence Submitted previous approval

A. DRAWINGS

1. Manufacturer's die drawings and sections
2. Drawing No. **7700NOA-1**, titled "Aluminum Single Hung Install (LM)", sheets 1 through 11 of 11, dated 04/01/18, with revision A dated 03/11/20, 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. repeesentative units listed below and tested to qualify **Dowsil 791** and **Dowsil 983** silicones, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.:
   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)
   dated 07/13/20, all signed and sealed by Idalmis Ortega, P.E

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)** and **FBC 7th Edition (2020)**, dated 03/13/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0707.10
Expiration Date: August 23, 2028
Approval Date: July 27, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)** and **FBC 7th Edition (2020)**, dated March 10, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest, dated March 10, 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. **18-0430.06** issued to PGT Industries, Inc. for their "Series "SH7700A" Aluminum Single Hung Window – L.M.I." approved on 08/23/18 and expiring on 08/23/23.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0707.10
Expiration Date: August 23, 2028
Approval Date: July 27, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. New Evidence Submitted

A. DRAWINGS

1. Drawing No. **7700NOA-1 Rev B**, titled "Aluminum Single Hung Install (LM)", sheets 1 through 11 of 11, dated 04/01/18 and last revised on 06/06/23, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS (submitted under previous approval)

1. None.

C. CALCULATIONS (submitted under previous approval)

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)** and the **FBC 8th Edition (2023)**, dated 06-06-23, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of conformance, complying with **FBC 6th Edition (2017)** and the **FBC 7th Edition (2020)**, dated March 10, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. (submitted under previous approval)

G. OTHERS

1. This NOA **revises & renews NOA # 20-0401.11,** expiring 08/23/28.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0707.10
Expiration Date: August 23, 2028
Approval Date: July 27, 2023

SERIES XHT10A IMPACT RESISTANT SINGLE HUNG WINDOW

1) THIS PRODUCT HAS BEEN EVALUATED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2) WINDOWS ARE NOT REQUIRED WHEN USED IN NON-HOME OWNER REQUIRED, FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, THE GLASS/GLAZING SHALL BE TEMPERED. USE ONLY GLASS TYPES 1, 2, 10, 11 OR 12.

3) FOR INSTALLATIONS IN FLORIDA HVHZ COUNTY USE ONLY. MINIMUM SUBSTRATE REQUIRED FOR WOOD BUCKS, MASONRY, CONCRETE OR STEEL SUBSTRATES SHALL BE ATTACHED TO THE MAIN STRUCTURAL FRAME. MASONRY, CONCRETE MINIMUM STRENGTH SHALL BE 1500 PSI. MASONRY TYPE.

4) ALL WOOD BUCKS USED TO BE CONSIDERED AS INSTALLATIONS. WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS SHALL BE DESIGNED AND SECURED TO WITHSTAND LOADS SHALL BE DESIGNED AND SECURED TO WITHSTAND FLORIDA LOADS FOR THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER WORK OR ARCHITECT OF RECORD. (HVHZ)

5) ANCHOR FASTENERS NOT TO BASE MATERIAL SHALL BE SELF TAPING SHELL DESIGNED OR SPACED TO USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE REQUIRED MIN. EMBEDMENT. INSTALLATION ANCHORS SHOULD BE SEALED OVERALL SEALING & FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

6) 1/4" MIN. SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.

7) DESIGN PRESSURES:
- A. MAXIMUM DESIGN LOADS BASED ON STRUCTURAL & CYCLE TESTING AND CLASS PER ASTM E1300.
- B. POSITIVE DESIGN LOADS SHALL BE 40% OF ULTIMATE STRUCTURAL & CYCLE TESTING AND CLASSIFIED UPON REVIEW.
- C. DESIGN LOADS ARE SHOWN IN ALLOWABLE STRESS DESIGN (ASD)

8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE RATED DESIGN PRESSURE. THE 2.0 OR 3.0 SAFETY FACTOR HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD MEMBERS THAT COME INTO CONTACT WITH LUMBER (SEQUIM) IN MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

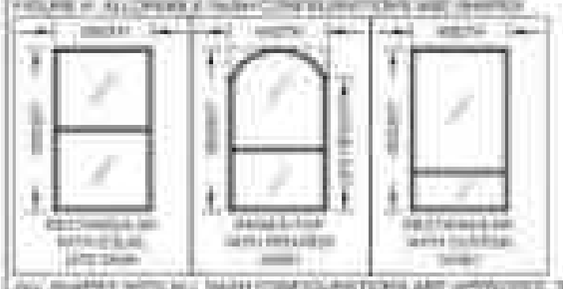
9) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE APPROVED BY THE AUTHORITY HAVING JURISDICTION.

10) REFERENCES: TEST REPORTS PTL 15-7001.1 & PTL 15-7001.2 ALSO ULTRACON NEW CONSTRUCTION MANUFACTURERS INSTALLATION MANUAL, AWC NDS NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, ANSI/AWC WSD & ALUMINUM DESIGN MANUAL.

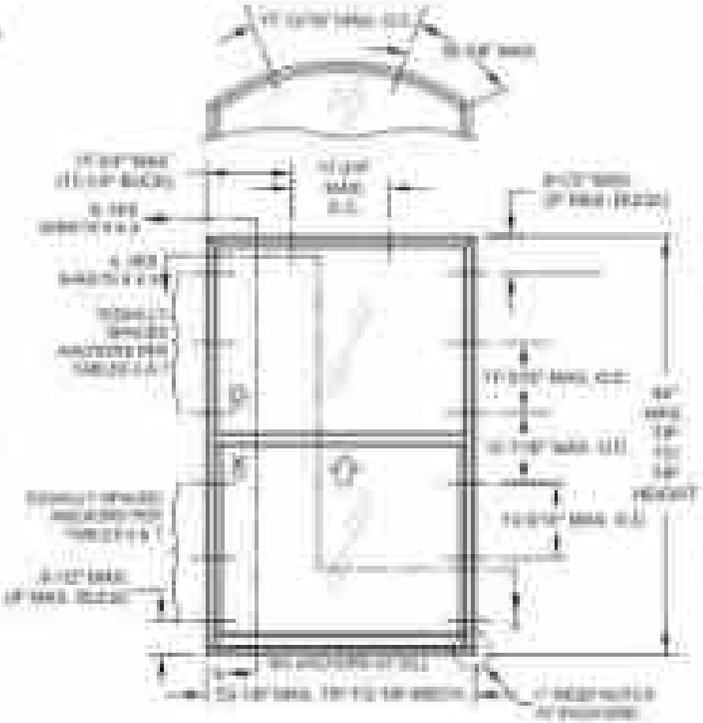
11) APPLICABLE EXPIRED REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

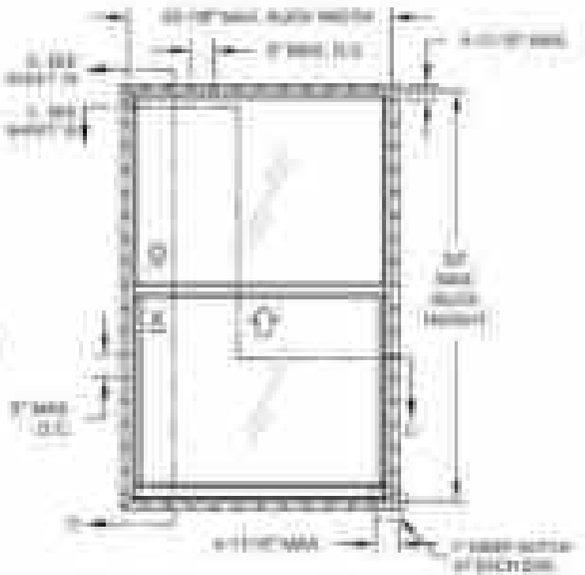
12) PRIMER TO BARRIER OR INTERNAL FINISH MAY BE REQUIRED TO PROTECT WINDOW AGAINST CORROSION.

FIGURE 1: ALLOWABLE FRAME CONFIGURATIONS ARE SHOWN



ALL SHAPES WITH ALL SASH CONFIGURATIONS ARE APPROVED. SHAPES MAY BE USED BY ADDITION OR SUBTRACTION OF RECTANGULAR DESIGN PRESENTED AND ACKNOWLEDGED FOR THAT BLOCK AS FROM THE LARGEST OF THE FOLLOWING SHAPES:





DESIGN PRESSURE RATING	IMPACT RATING
HARDI PER CLASS TYPE: SEE SHEET 2	LARGE & SMALL MISSILE IMPACT RESISTANT

TABLE 1: ALLOWABLE GLASS TYPES

Glass Type	Description (Laminate layers thickness in mm/mm)	DP Limits
1	[illegible]	
2	[illegible]	
3	[illegible]	
4	[illegible]	
5	[illegible]	
6	[illegible]	
7	[illegible]	
8	[illegible]	
9	[illegible]	
10	[illegible]	
11	[illegible]	
12	[illegible]	
13	[illegible]	
14	[illegible]	
15	[illegible]	

USER INSTRUCTIONS:

1) DETERMINE THE SITE SPECIFIC WINDOW DESIGN PRESSURE (DP) REQUIREMENT FROM ASCE 7.

2) BROWSE YOUR GLAZING OPTION (TABLE 1), WINDOW CONFIGURATION AND SIZE. DETERMINE YOUR WINDOW'S DESIGN PRESSURE FROM TABLES 2 & 3. IF MUST EQUAL OR EXCEED THE DESIGN PRESSURE REQUIREMENT FOR THE WINDOW OBTAINED IN STEP 1.

3) DETERMINE THE ANCHOR QUANTITY FROM TABLES 4 & 7.

4) INSTALL AS PER SHEET 7 FOR FLANGE INSTALLATION, SHEET 8 FOR EQUAL LEG INSTALLATION OR SHEET 9 FOR INTERNAL FIN INSTALLATION.

NOTE: DESIGN PRESSURE RATING DETERMINATION IS THE SAME PROCESS FOR ALL FRAME TYPES (FLANGE, INTERNAL FIN OR EQUAL LEG/FIN).

CODES / STANDARDS USED:
- 2020 FLORIDA BUILDING CODE (FBC) 8TH EDITION
- 2020 FLORIDA RESIDENTIAL CODE (FRC) 7TH EDITION
- ASTM E1300-16
- ANSI/AWC NDS-18
- ALUMINUM DESIGN MANUAL ADM-2020
- ANSI/SDI-10
- AISC 360-16

SOURCE OF SUPPLIED MATERIALS:
- KOMMAT AMERICA INC.
- POLY-KARBON POLYSTA® FOR INSTALLATION BY KOMMAT AMERICA INC.
- 060 = ANNEALED
- H32 = HEAT STRENGTHENED
- T01 = TEMPERED

GENERAL NOTES	1
ELEVATIONS	1
DESIGN PRESSURES - GLAZING DETAILS	2-6
ANCHOR QUANTITIES	5-6
INSTALLATION FLANGE	7
INSTALLATION EQUAL LEG	8
INSTALLATION, INTERNAL FIN	9
EXTRUSION PROFILES	10
ASSEMBLY & PARTS LIST	11

PRODUCT RENEWED
in complying with the Florida Building Code
NOA No. 20-0707.10
Expiration Date: 06/01/2025
By: Miami-Dade Product Control

R) UPDATED TO FBC 2020
LT - 09/09/23

PGT
PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NORTH VENICE, FL 34275
941-480-1600

ALUMINUM SINGLE HUNG IMPACT WINDOW
GENERAL NOTES & ELEVATION

DRAWN	CHECKED
DATE	SCALE
7/30/2020	1/4" = 1'-0"
DRAWING NO.	SHEET
7700SHXT	1

REVISIONS
R 09/09/23 LT UPDATED TO FBC 2020
Q 08/31/23 LT ADDED 3/4" LITE
P 08/31/23 LT ADDED 3/4" LITE
O 08/31/23 LT ADDED 3/4" LITE
N 08/31/23 LT ADDED 3/4" LITE
M 08/31/23 LT ADDED 3/4" LITE
L 08/31/23 LT ADDED 3/4" LITE
K 08/31/23 LT ADDED 3/4" LITE
J 08/31/23 LT ADDED 3/4" LITE
I 08/31/23 LT ADDED 3/4" LITE
H 08/31/23 LT ADDED 3/4" LITE
G 08/31/23 LT ADDED 3/4" LITE
F 08/31/23 LT ADDED 3/4" LITE
E 08/31/23 LT ADDED 3/4" LITE
D 08/31/23 LT ADDED 3/4" LITE
C 08/31/23 LT ADDED 3/4" LITE
B 08/31/23 LT ADDED 3/4" LITE
A 08/31/23 LT ADDED 3/4" LITE

ANTHONY LYNN MILLER
No. 69704
STATE OF FLORIDA
PROFESSIONAL ENGINEER
ANTHONY LYNN MILLER, P.E.
No. 69704

TYPE 1

	Nominal Glass Thickness (Overall Unit Thickness)	Total Weight Range (PSF)	Design Pressure (lbs/ft²) for Glass Types 1 & 2 — Up to 10 feet															
			A		B		C		D		E		F		G		H	
20"																		
24"																		
30"																		
36"																		
42"																		
48"																		
54"																		
60"																		
66"																		
72"																		

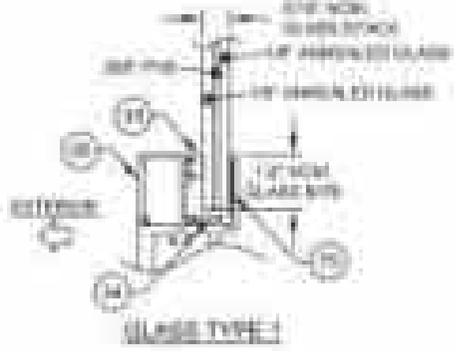
MINIMUM GLASS HEIGHT FOR FLANGED WINDOWS IS TIP TO TIP HEIGHT - 4X (IN)

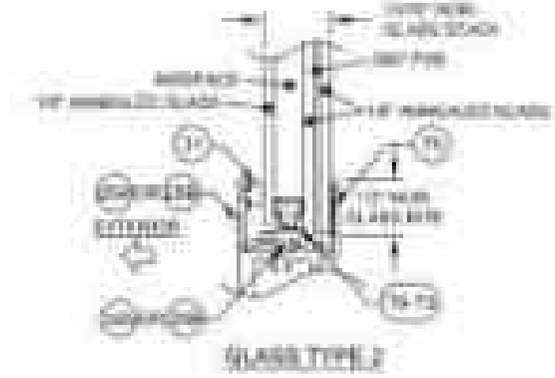
MINIMUM GLASS HEIGHT FOR INTEGRAL FIN AND EQUAL LEG WINDOWS IS GLASS HEIGHT - 4X (IN)

MINIMUM GLASS HEIGHT FOR FLANGED, RADIUS TOP WINDOWS IS TIP TO TIP HEIGHT - 4X (IN)

MINIMUM GLASS HEIGHT FOR INTEGRAL FIN AND EQUAL LEG RADIUS TOP WINDOWS IS GLASS HEIGHT - 4X (IN)

1) TIP TO TIP DIMENSIONS SHOWN FOR INTEGRAL FIN AND EQUAL LEG WINDOWS (EXCEPT 1" FRAME) ARE THE TIP TO TIP DIMENSIONS IN THE TABLE TO DETERMINE THE WINDOW SIZE.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.
3) FOR RADIUS TOP WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE RADIUS TOP WINDOW WILL COMPLETELY FIT WITHIN.
4) WINDOWS WITH THE LOW-SE4 OPTION ARE LIMITED TO A MAXIMUM POSITIVE DESIGN PRESSURE OF +50 PSF. NEGATIVE DESIGN PRESSURES ARE UNAFFECTED.





PRODUCT RENEWED
in complying with the Florida Building Code
NOA No. 20-0707.10
Expiration Date 08/31/2025
By Miami-Dade Product Control

B) NO CHANGES THIS SHEET

LY - 09/08/20

PGT

ALUMINUM SINGLE HUNG | INSTALL | IMPACT

SHEET NUMBER

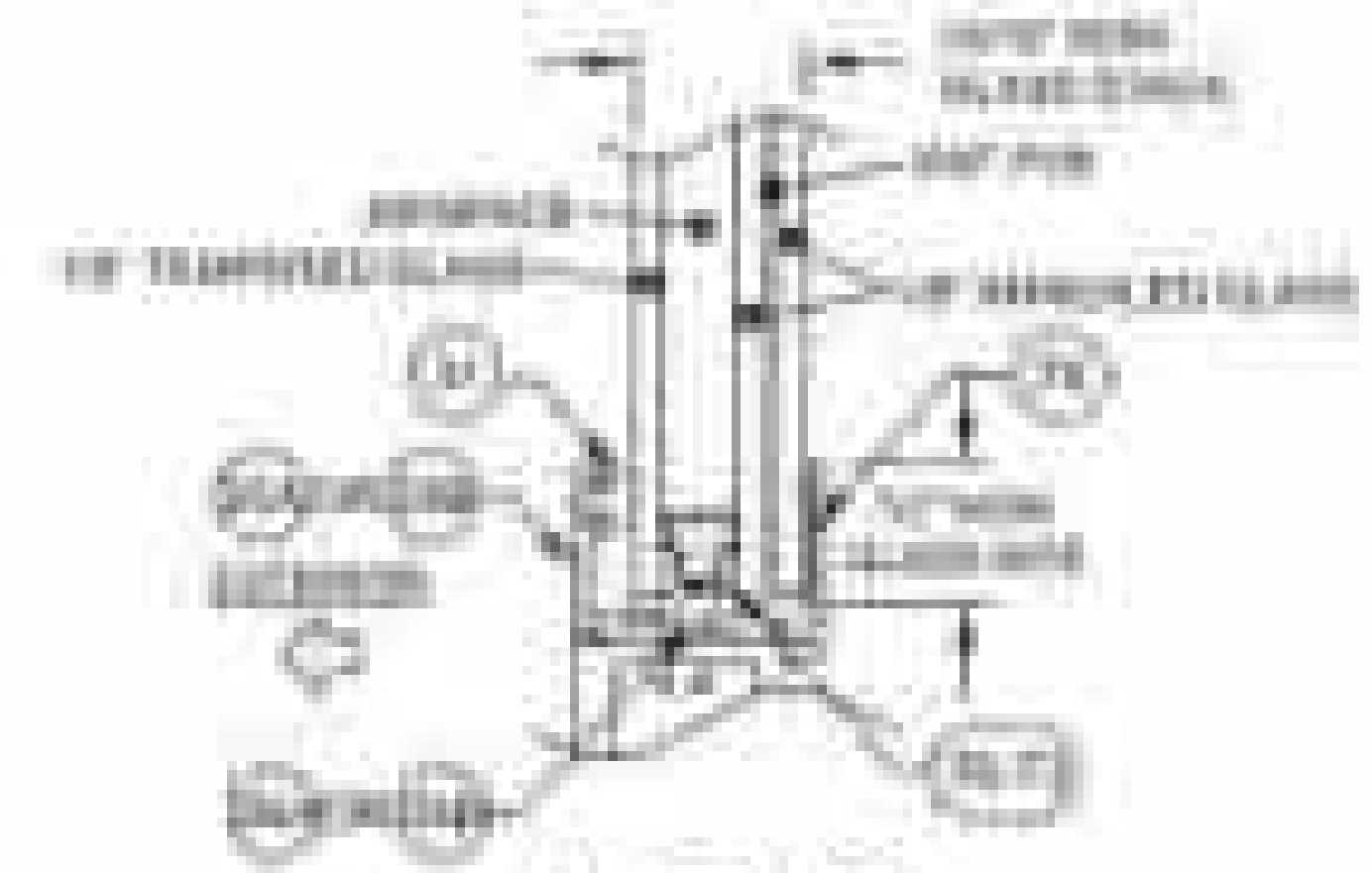
ANTHONY LYNN MILLER
No. 68700
STATE OF FLORIDA
PROFESSIONAL ENGINEER

TABLE 2

	Description	Size	Design Pressure (lbs/ft²) for Glass Type 2															
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MINIMUM SASH HEIGHT FOR FLANGED WINDOWS IS TIP TO TIP HEIGHT [illegible]
MINIMUM SASH HEIGHT FOR INTEGRAL FIN AND EQUAL LEG WINDOWS IS SASH HEIGHT [illegible]
MINIMUM SASH HEIGHT FOR FLANGED RADIUS TOP WINDOWS IS TIP TO TIP HEIGHT [illegible]
MINIMUM SASH HEIGHT FOR INTEGRAL FIN AND EQUAL LEG RADIUS TOP WINDOWS IS SASH HEIGHT [illegible]

1) TIP TO TIP DIMENSIONS SHOWN. FOR INTEGRAL FIN AND EQUAL LEG WINDOWS SUBTRACT [illegible] FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.
3) FOR RADIUS TOP WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE RADIUS TOP WINDOW WILL COMPLETELY FIT WITHIN.
4) WINDOWS WITH THE [illegible] SILL OPTION ARE LIMITED TO A MAXIMUM POSITIVE DESIGN PRESSURE OF [illegible]. NEGATIVE DESIGN PRESSURES ARE UNAFFECTED.



GLASS TYPE 2

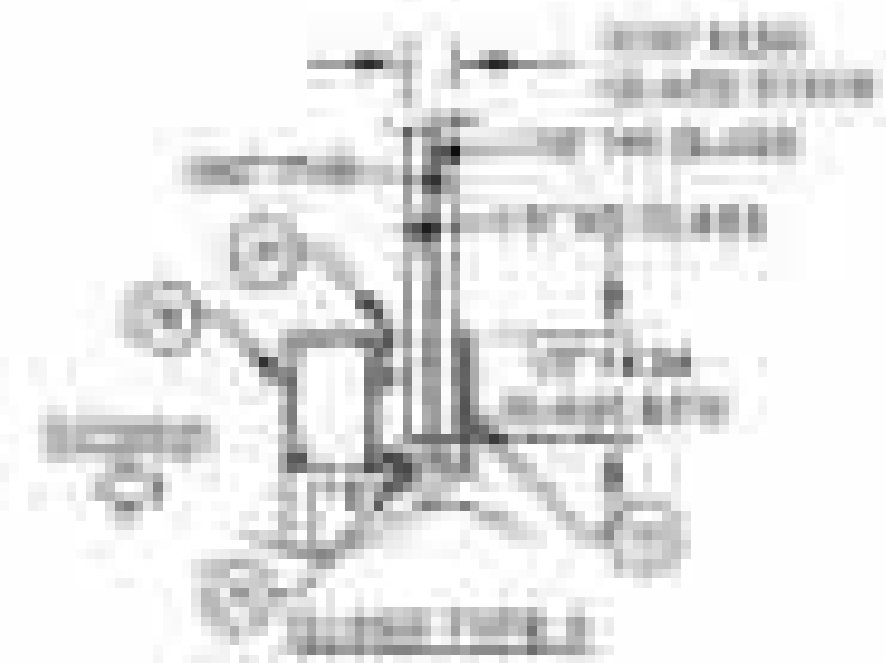
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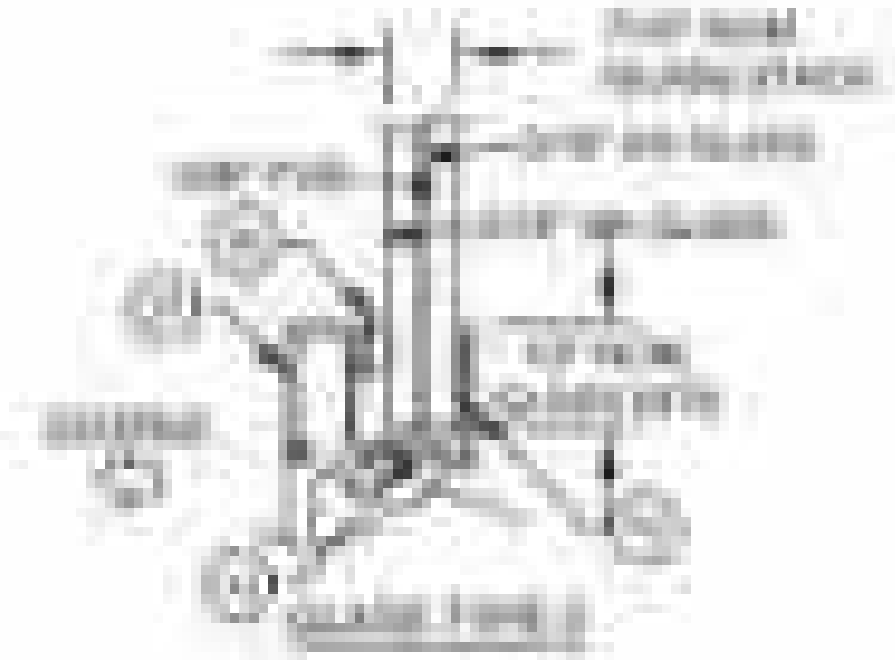
8) NO CHANGES THIS SHEET
LY - 06/08/23

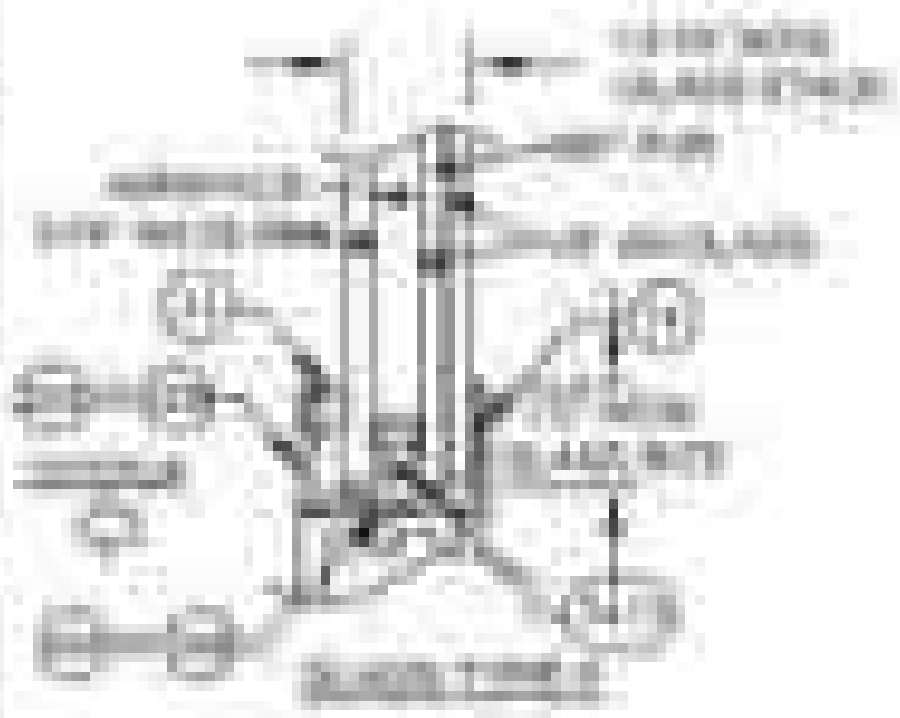
PGT

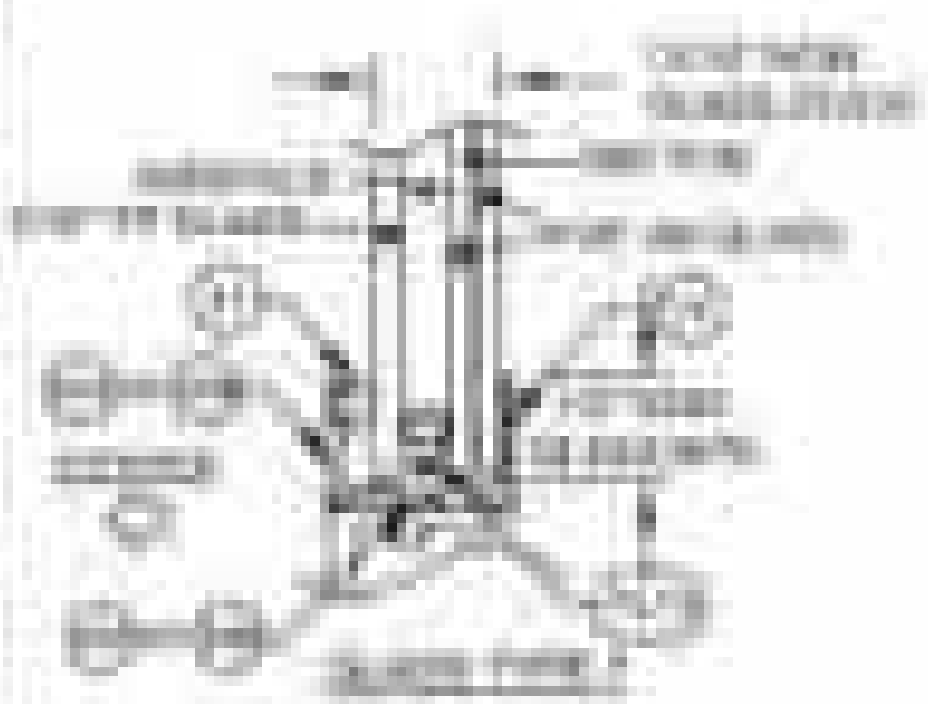
DP TABLE

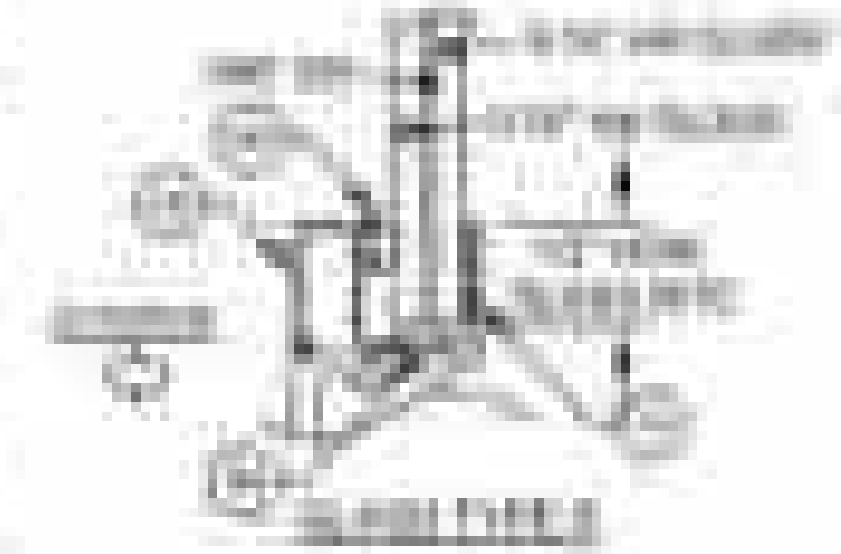
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.



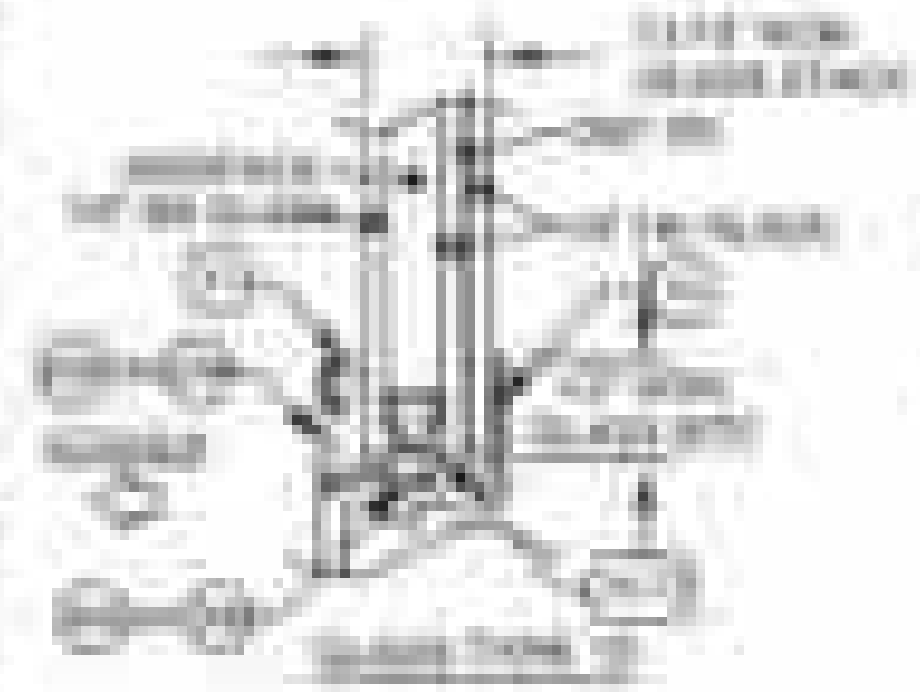


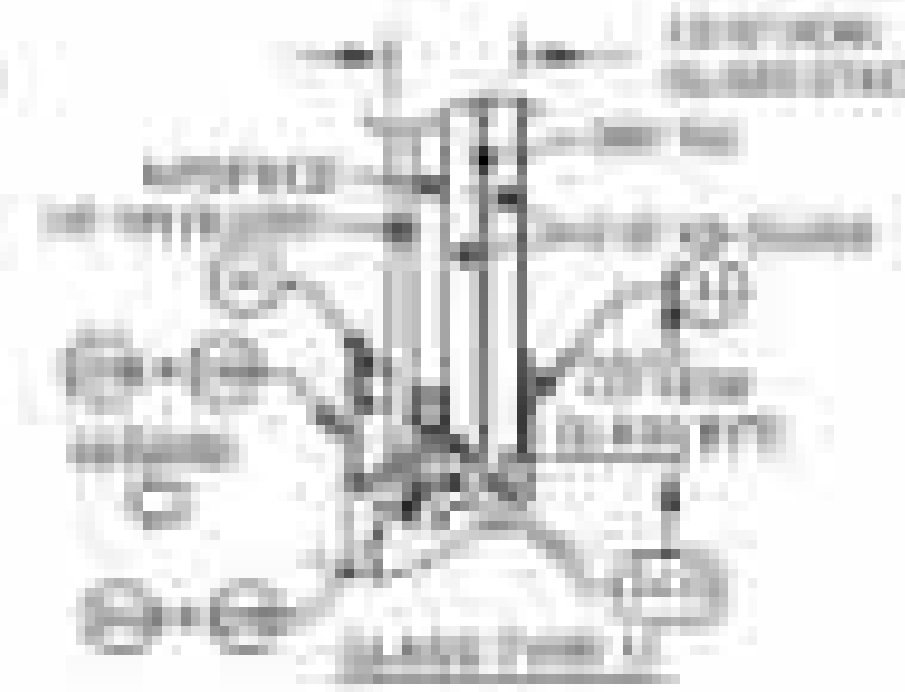


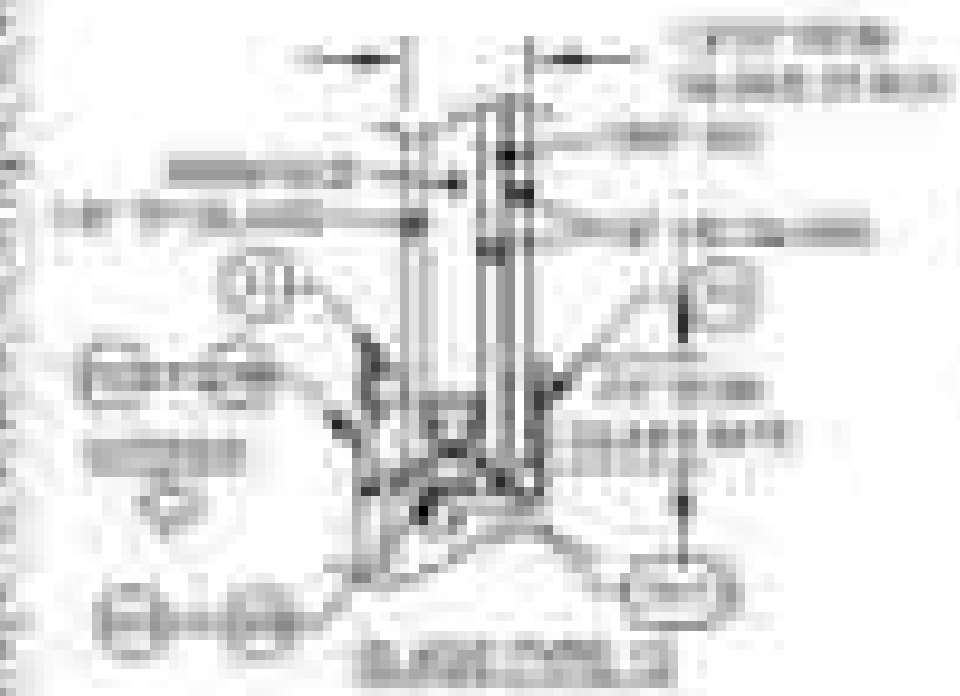


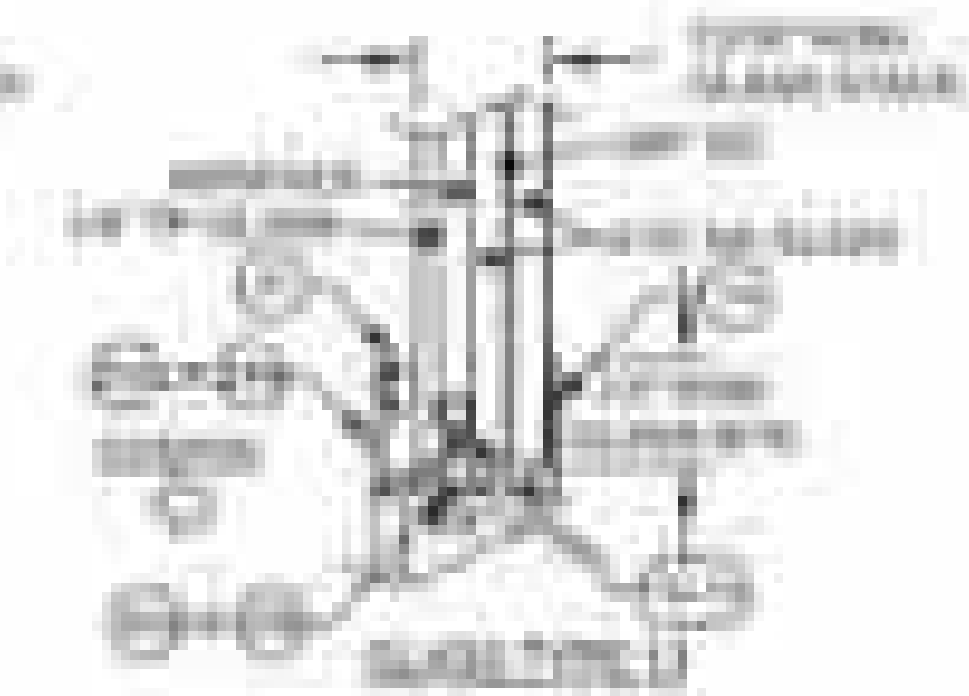


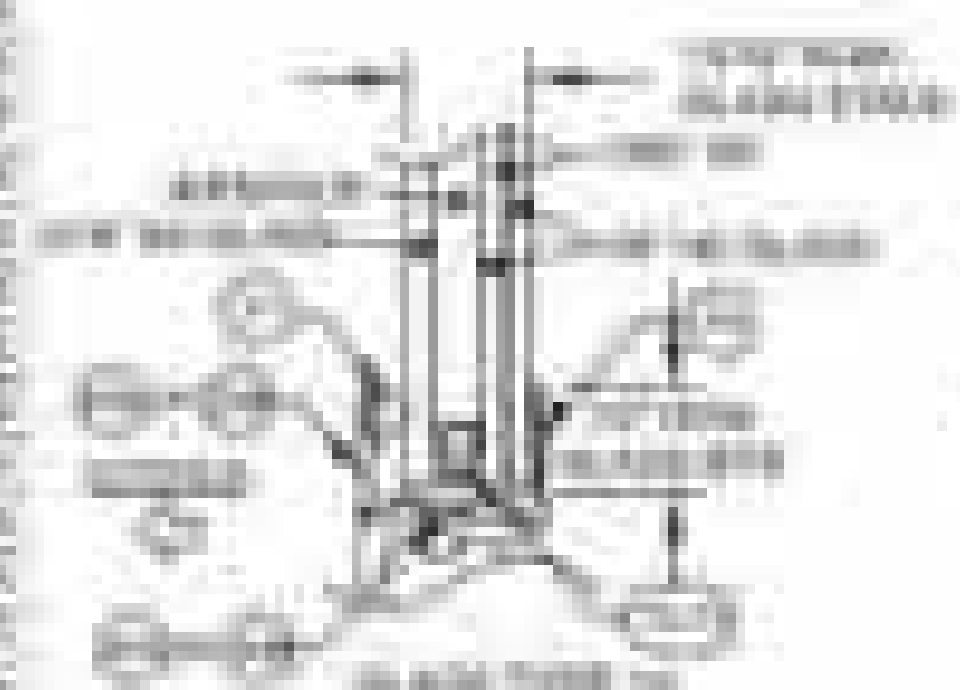


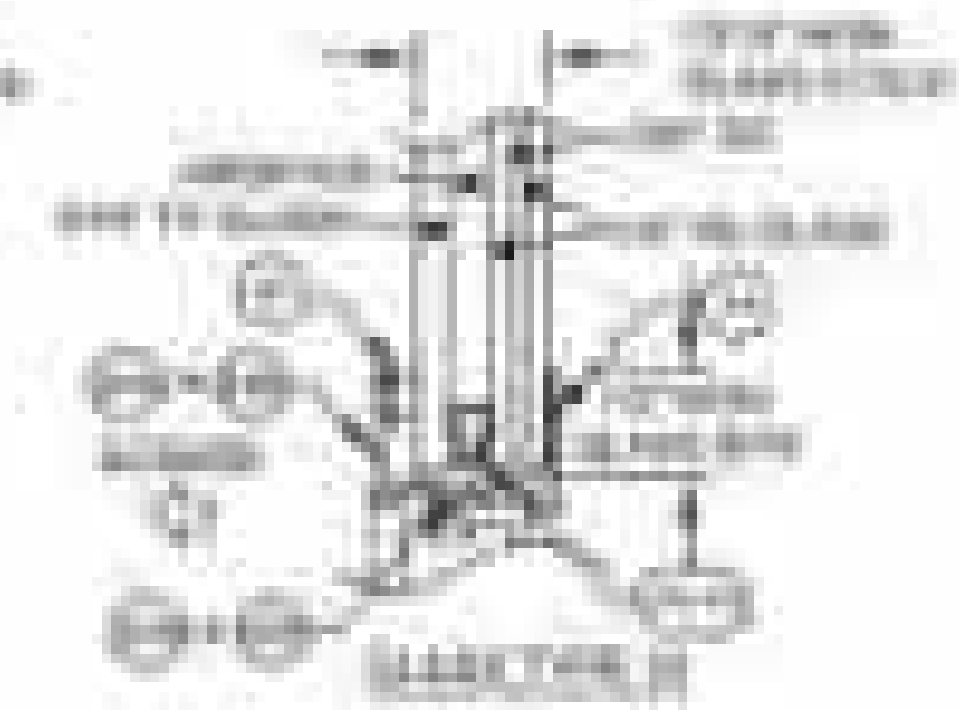












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TABLE [illegible]: **Anchor Quantities Required for "Through-Frame" Installation Using Glass Types 1-7**

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MINIMUM SASH HEIGHT FOR FLANGED WINDOWS IS TIP TO TIP HEIGHT - [illegible]
MINIMUM SASH HEIGHT FOR INTEGRAL FIN AND EQUAL LEG WINDOWS IS SASH HEIGHT - [illegible]
MINIMUM SASH HEIGHT FOR FLANGED RADIUS TOP WINDOWS IS TIP TO TIP HEIGHT - [illegible]
MINIMUM SASH HEIGHT FOR INTEGRAL FIN AND EQUAL LEG RADIUS TOP WINDOWS IS SASH HEIGHT - [illegible]

TABLE [illegible]

Glass Type	Description (Listed from Exterior to Interior)
1	[illegible]
2	[illegible]
3	[illegible]
4	[illegible]
5	[illegible]
6	[illegible]
7	[illegible]

1) TIP TO TIP DIMENSIONS SHOWN. FOR INTEGRAL FIN AND EQUAL LEG WINDOWS, SUBTRACT 1" FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.

3) FOR RADIUS TOP WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE RADIUS TOP WINDOW WILL COMPLETELY FIT WITHIN.

4) WINDOWS WITH THE LOW SILL OPTION ARE LIMITED TO A MAXIMUM POSITIVE DESIGN PRESSURE OF [illegible] PSF. NEGATIVE DESIGN PRESSURES ARE UNAFFECTED.

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ALUMINUM SINGLE HUNG [illegible]
ANCHOR QUANTITY TABLE

11 OF [illegible]

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No. 58705
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 7:

Anchor Quantities Required for "Through-Frame" Installation

[illegible]	[illegible]	[illegible]	[illegible]

TABLE 8:

Glass Type	Description
[illegible]	[illegible]

1) [illegible] TIP TO TIP DIMENSIONS [illegible]

2) [illegible] ROUND UP TO THE NEXT AVAILABLE SIZE.

3) FOR RADIUS TOP WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE [illegible]

4) WINDOWS WITH THE LOW SILL OPTION [illegible]

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ALUMINUM SINGLE HUNG WINDOW

ANCHOR QUANTITY TABLE

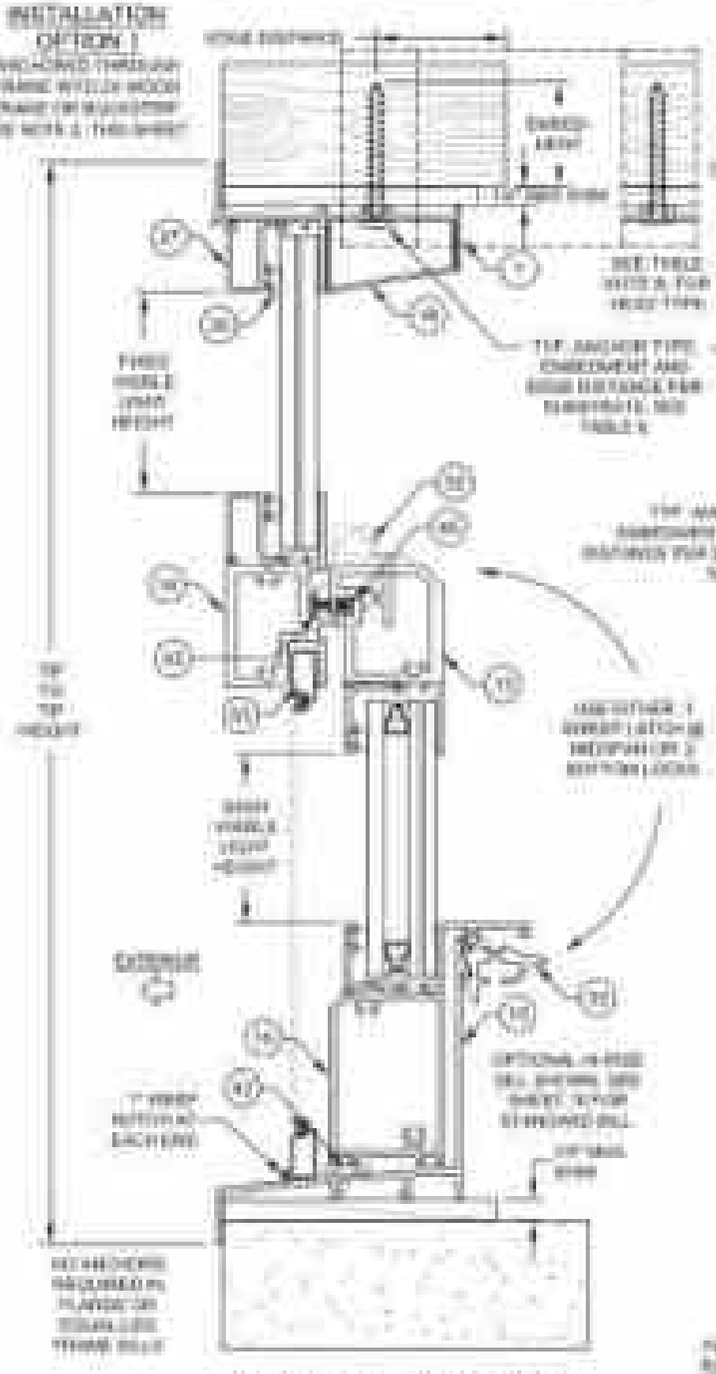
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LICENSE
No. 58705
STATE OF
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PROFESSIONAL ENGINEER

INSTALLATION DETAILS FOR FLANGE FRAMES

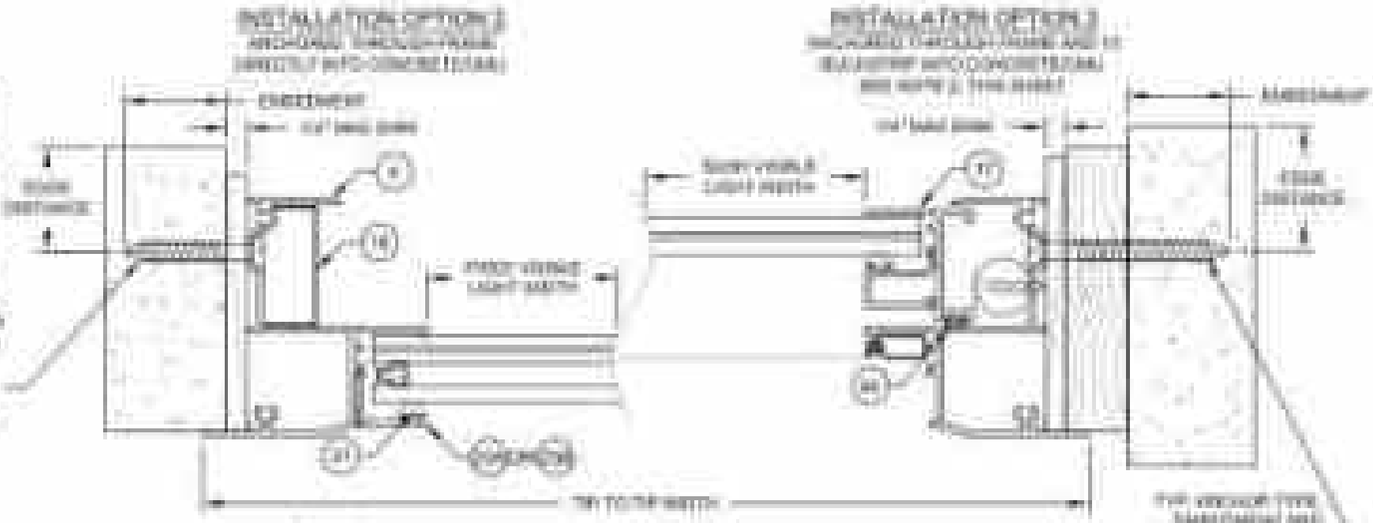
INSTALLATION OPTION 1

INSTALLATION OPTION 2

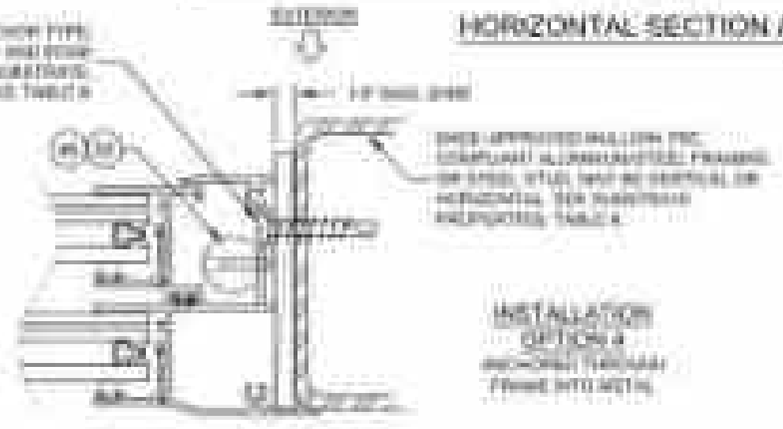
INSTALLATION OPTION 3



VERTICAL SECTION B-B



HORIZONTAL SECTION A-A



INSTALLATION OPTION 4

VISIBLE LIGHT FORMULAS

WIDTH	
HEIGHT (EQUAL LITES)	
HEIGHT (UNEQUAL LITES)	

NOTES:

1) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE II. ALL WOOD SCREWS USED THAN 1 1/2" THICK ARE TO BE CONSIDERED IN INSTALLATIONS TO WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS SHIMMED AS SHOWN 1 1/2" THICK OR GREATER TO WALLS BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

2) VISIBLE LIGHT WIDTH OR HEIGHT SHOWN IS REFERENCE TO AN EQUIVALENT OPENING AS MEASURED FROM READING TO READING.

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R) REVISED ANCHOR TYPE TABLE

LT - 09/09/23

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ALUMINUM SINGLE HUNG IMPACT WALL WINDOW

FLANGE H SECTION

		R
		7 OF 11
		20-0707.10

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PROFESSIONAL ENGINEER

INSTALLATION DETAILS FOR EQUAL-LEG FRAMES

INSTALLATION OPTION 1

INSTALLATION OPTION 2

INSTALLATION OPTION 3

HORIZONTAL SECTION A-A

INSTALLATION OPTION 4

VERTICAL SECTION B-B

VISIBLE LIGHT FORMULAS

TABLE A

NOTES:

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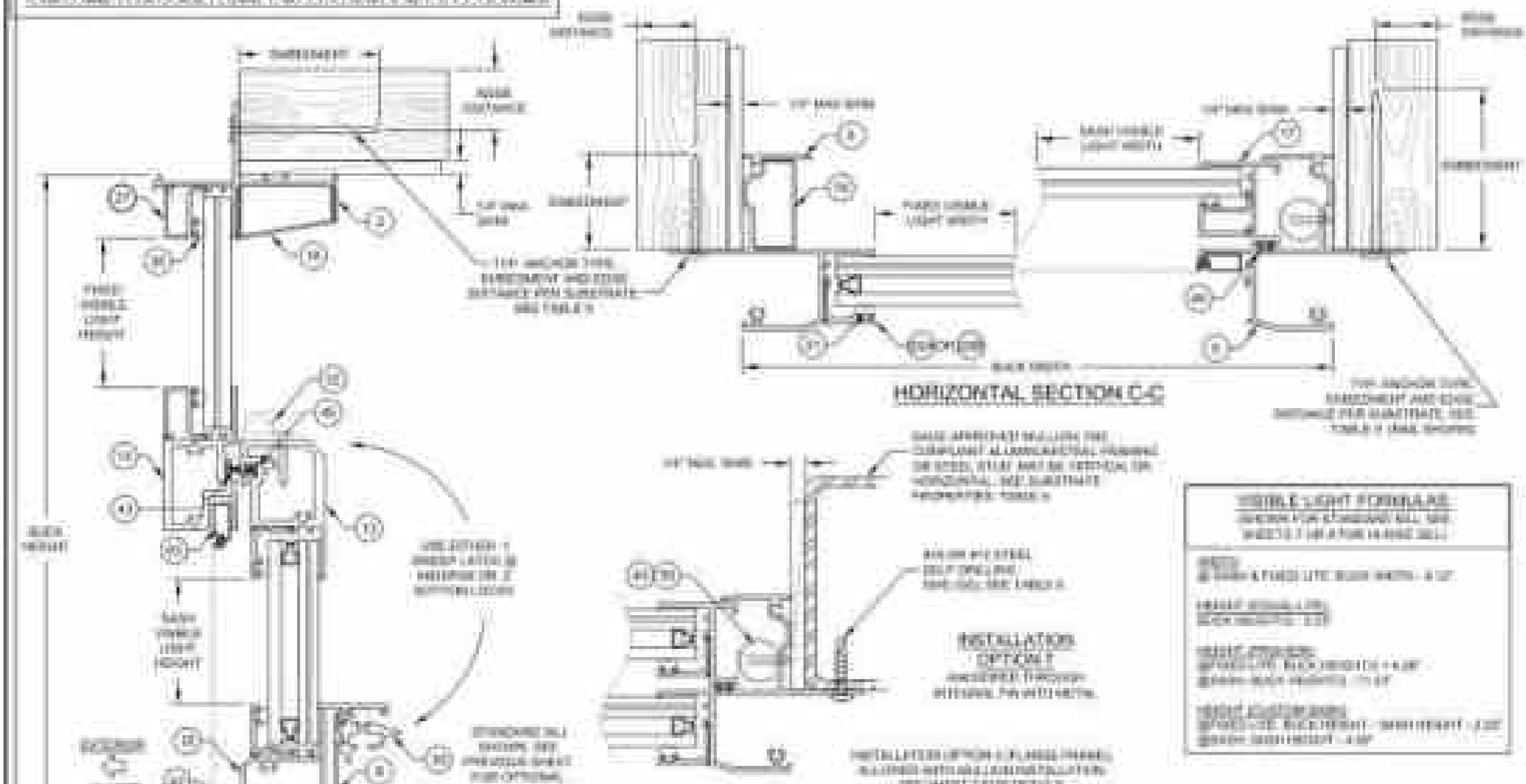
8) REVISED ANCHOR TYPE TABLE

LT - 09/09/23

PGT

PGT INDUSTRIES
1070 LCD SECTION
ALUMINUM SINGLE HUNG IMPACT WALL FRAME

INSTALLATION DETAILS FOR INTEGRAL FIN FRAMES



HORIZONTAL SECTION C-C

VERTICAL SECTION D-D

INSTALLATION OPTION 1

Anchor	Substrate	Min. Edge Distance	Min. Embedment
#10 x 1" Pan Head Screw	1" (1) Steel Plate, 50 ksi min.	0.50"	0.75"
1/4" x 1" Concrete Nail	1" (1) Southern Pine SG=0.55	3/8"	1 1/4"
0.120" x 1/2" Roofing Nail	1" (1) Southern Pine SG=0.55	3/8"	1 1/4"
0.120" x 3/8" Roofing Nail	1" (1) Southern Pine SG=0.55	3/8"	1 1/4"
#10 Steel Thru-Fastened Fin per AISI S100 Section	18 ga. Stiffened Steel (50 ksi min.)	1/2"	1 1/4"
	0.125" Aluminum, 6063-T5 or T6	5/16"	1"
	0.050" ACQ Treated Southern Pine	5/16"	1 1/4"
	1/4"-14 Self Drilling Screw (#2 Phillips)	5/16"	1 1/4"

NOTES:

1. USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED ON TABLE 5 FOR EDGE DISTANCE AND EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

2. VISIBLE LIGHT WIDTH OR HEIGHT MUST BE INCREASED TO BE ON LIGHT OPENING IS MEASURED FROM BEARING TO BEARING.

3. ALL ANCHOR HEAD TYPES ARE ACCEPTABLE.

VISIBLE LIGHT FORMULAS

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B) ADD#1 ANCHOR HEAD TYPES AND FLANGE FRAME NOTES

1-Y - 06/05/21

PGT

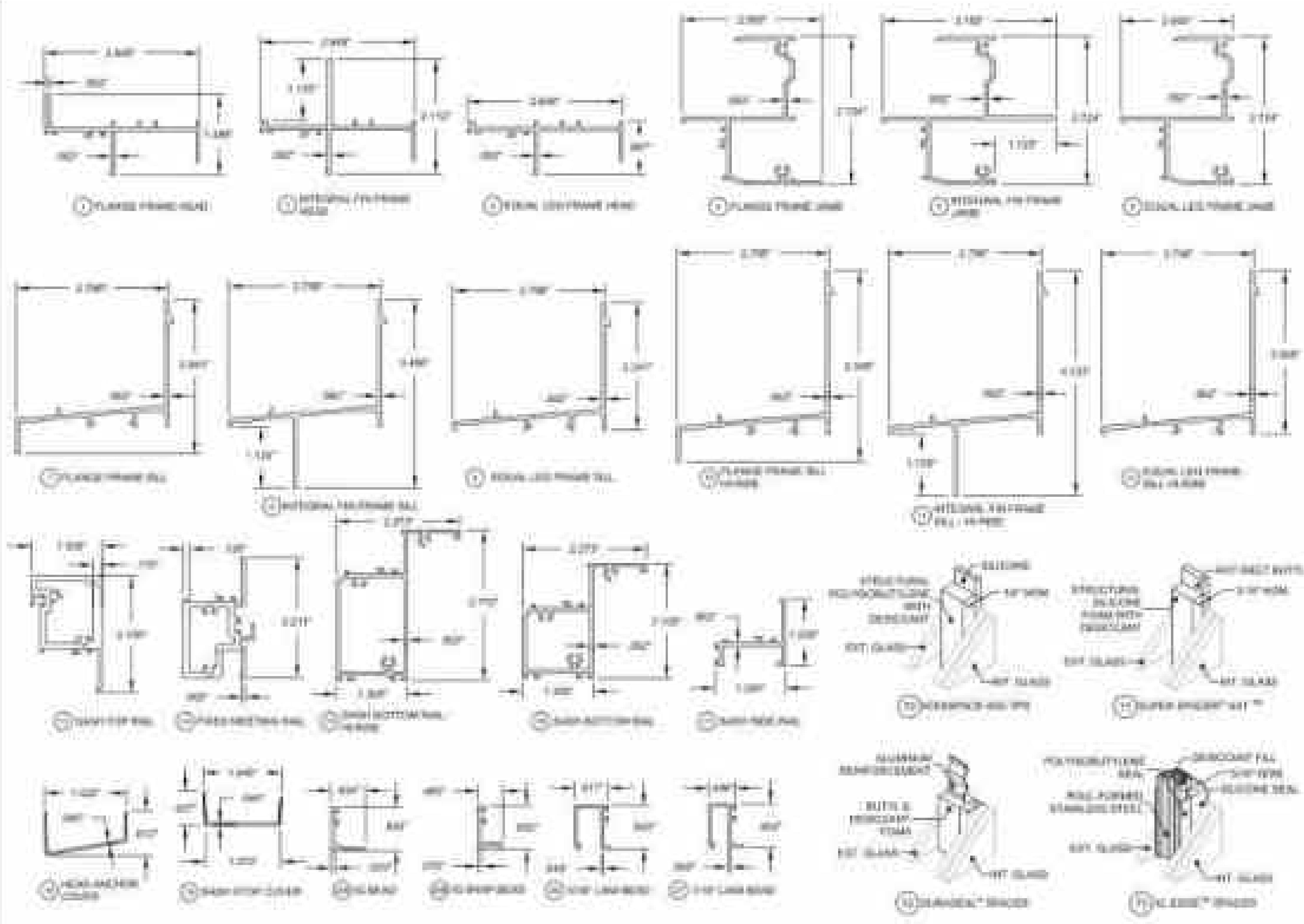
ALUMINUM SINGLE HUNG | MOST | IMPACT

INTEGRAL FIN X-SECTION

B | 06/05/21 | ADD#1 ANCHOR HEAD TYPES AND FLANGE FRAME NOTES

SHEET 11 OF 11

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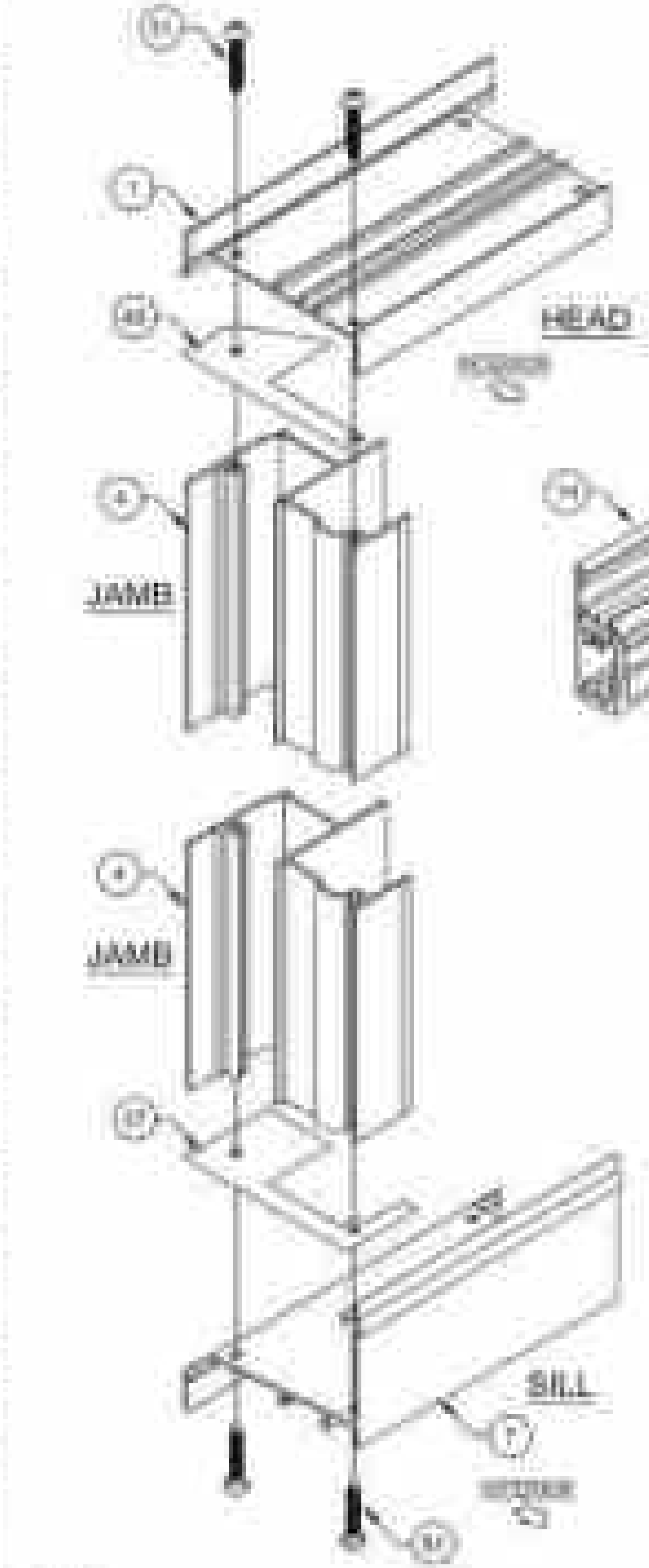
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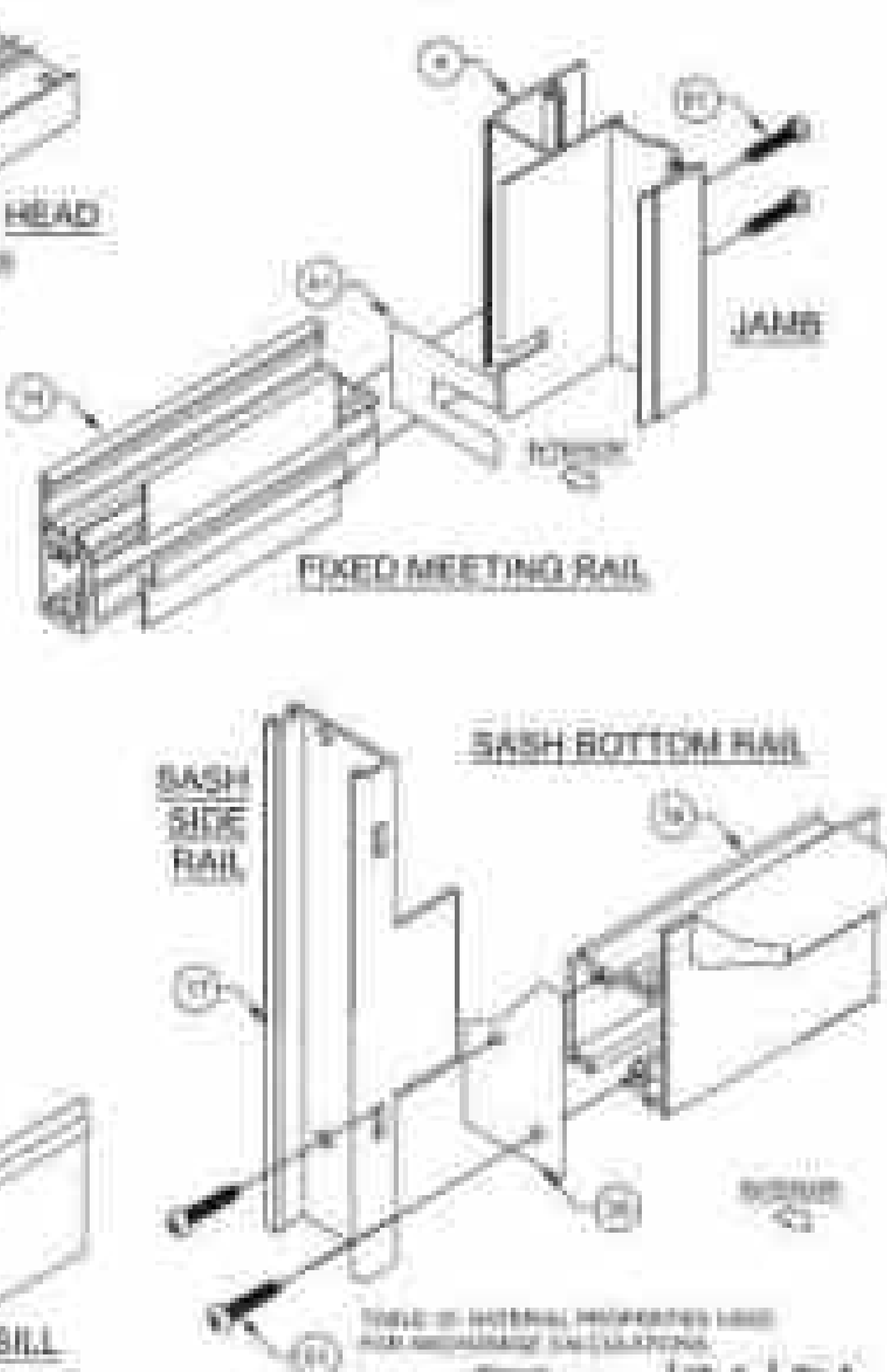
TABLE 11

Item #	HGT Part #	Description	Material
1	[illegible]	Head, Flange	Alum. [illegible]
2	[illegible]	Head, Integral Fin	Alum. [illegible]
3	[illegible]	Head, [illegible]	Alum. [illegible]
4	[illegible]	Jamb, Flange	Alum. [illegible]
4A		Jamb, Flange [illegible]	Alum. [illegible]
5	[illegible]	Jamb, Integral Fin	Alum. [illegible]
5A		Jamb, Integral Fin [illegible]	Alum. [illegible]
6	[illegible]	Jamb, [illegible]	Alum. [illegible]
6A		Jamb, [illegible]	Alum. [illegible]
7	[illegible]	Sill, Flange	Alum. [illegible]
8	[illegible]	Sill, Integral Fin	Alum. [illegible]
9	[illegible]	Sill, [illegible]	Alum. [illegible]
10	[illegible]	Sill, [illegible] Flange	Alum. [illegible]
11	[illegible]	Sill, [illegible] Integral Fin	Alum. [illegible]
12	[illegible]	Sill, [illegible]	Alum. [illegible]
13	[illegible]	Sash Top Rail	Alum. [illegible]
14	[illegible]	Fixed Meeting Rail	Alum. [illegible]
15	[illegible]	Sash Bottom Rail, [illegible]	Alum. [illegible]
16	[illegible]	Sash Bottom Rail	Alum. [illegible]
17	[illegible]	Sash Side Rail	Alum. [illegible]
18	[illegible]	[illegible]	Alum. [illegible]
19	[illegible]	Sash Stop	Alum. [illegible]
20A	[illegible]	[illegible]	Alum. [illegible]
20B	[illegible]	[illegible]	Alum. [illegible]
21	[illegible]	[illegible]	Alum. [illegible]
22	[illegible]	[illegible]	Alum. [illegible]
23	[illegible]	Glazing Bead, [illegible] Vinyl [illegible]	Vinyl
24	[illegible]	Glazing Bead, [illegible] Vinyl [illegible]	Vinyl
25	[illegible]	Sweep Latch [illegible]	[illegible]
26	[illegible]	Bracket Latch [illegible]	Alum. [illegible]
34		Setting Block [illegible]	[illegible]
35		[illegible] Setting Block [illegible]	[illegible]
35A	[illegible]	[illegible] Setting Block	Vinyl
36	[illegible]	[illegible]	
37	[illegible]	Sill Gasket	Polypropylene
38	[illegible]	Sash Top Rail Gasket	Polypropylene
39	[illegible]	Sash Bottom Rail Gasket	Polypropylene
40	[illegible]	[illegible] Gasket	Polypropylene
41	[illegible]	Meeting Rail Gasket	Polypropylene
42	[illegible]	Sash Bottom Rail [illegible] Vinyl	Polypropylene
43		Weatherstrip, [illegible]	
44	[illegible]	Weatherstrip, [illegible] Sash Side Rail	
45		Weatherstrip, [illegible] Top Sash Rail	
46	[illegible]	Balance with Cord & Tilt	[illegible]
50	[illegible]	#8 x 1" PH SMS [illegible]	Stainless Steel
51	[illegible]	[illegible]	Stainless Steel
52		Glass, [illegible]	Varies
70		[illegible]	See Sheet [illegible] for Materials
71		[illegible]	
72		[illegible]	
73		[illegible]	
74		[illegible]	Silicone



ASSEMBLY DETAILS FOR FLANGE FRAMES

(OTHER FRAME TYPES SIMILAR)



NOTES:

1) ALL CORNERS TO USE [illegible] SEALANT.

2) SOME PARTS/OPTIONS NOT SHOWN ON DRAWING FOR CLARITY.

TABLE [illegible]: MATERIAL PROPERTIES USED FOR ENGINEERING CALCULATIONS

Element	Ult. F_u	Str. F_y
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

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ALUMINUM SINGLE HUNG WINDOW INSTALL (LM)

BOM & CORNER DETAILS

11 OF 11

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PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705