# Engineering Evaluation Report # 7700-03312026

**Prepared by:**
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Florida Registration: #29296

**Manufacturer:**
PGT Custom Windows & Doors
3400 Precision Dr.
N. Venice, FL 34275

**Product Description:**
SH7700A Series Impact-resistant Aluminum Single Hung Window, (LM & SM), FL-29698

**Compliance:**
The above-mentioned product has been evaluated for compliance with the requirements of the Florida Department of Business and Professional Regulation for Statewide Acceptance per Rule 61 G20-3.005 method 1(d). The product listed herein complies with the requirements of the current Florida Building Code.

This product has been evaluated and is in compliance with the current Florida Building Code, including the “High Velocity Hurricane Zone” (HVHZ).

**Supporting Technical Documentation:**
1. Approval document: drawing number SH7700-FPA, signed and sealed by A. Lynn Miller, P.E.

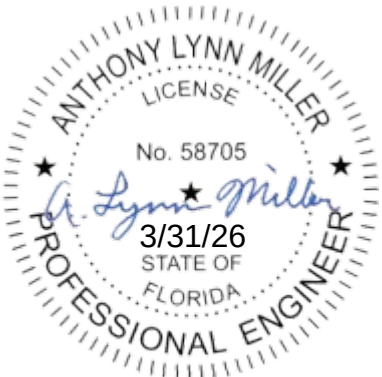
2. Test Report(s) No. FTL-18-7835.1 and FTL-18-7835.2, signed and sealed by Idalmis Ortega, P.E.
Fenestration Testing Laboratories, Nokomis, FL
Test Report(s) No. QAI NOK-0147, signed and sealed by Idalmis Ortega, P.E.
QAI Laboratories, Nokomis, FL

TAS 201-94 Large Missile Impact Test
TAS 202-94 Uniform Static Air Pressure Test
TAS 203-94 Cyclic Pressure Loading Test

3. Calculations, signed and sealed by A. Lynn Miller, P.E.

4. Miami-Dade RER Product Control Section NOA’s; PVB and/or SG Interlayer by Kuraray America, Inc.

**Limitations and Conditions of use:**
• Units must be glazed per ASTM E1300-09, refer to approval document for glazing details.
• This product is rated to be used in the HVHZ.
• This product is impact resistant and does not require impact protection in wind borne debris regions.
• Frame and sash material to be extruded Aluminum.
• Units must be installed in accordance with approval document.




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

# SERIES SV7700A IMPACT RESISTANT SINGLE HUNG WINDOW

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HVHZ (MIAMI-DADE & BROWARD COUNTIES).

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN CONJUNCTION WITH LAMINATED GLASS WHICH COMPLIES WITH THE REQUIREMENTS FOR WINDBORNE DEBRIS REGIONS AS DEFINED IN THE FBC. THE OUTBOARD LITE (CAP) MUST BE TEMPERED. USE ONLY GLASS TYPES 3, 7, 12, 13 OR 16.

3) MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, DOUGLAS FIR COMPETE MASONRY UNIT/CLOSED CONCRETE BY OTHERS, AS PER MANUFACTURER'S SPECIFICATIONS.

4) ALL WOOD BUCKS LESS THAN 1 1/2" THICK ARE TO BE CONSIDERED AS INSTALLATIONS IN WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS SHALL BE DESIGNED AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WHERE BUCK SEALING AND INSTALLATION IS THE RESPONSIBILITY OF THE BUILDER (GENERAL CONTRACTOR OR ARCHITECT OF RECORD). (4.0.A)

5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL CROSSING OF STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE REQUIRED MIN. EMBEDMENT. INSTALLATION ANCHORS: WOOD SCREWS SHALL BE #8 SS. CONCRETE SCREWS SHALL BE 3/16" DIA. X 1 3/4" MIN. EMBEDMENT. FOR ANY NON-STANDARD INSTALLATIONS, THE RESPONSIBILITY OF THE ENGINEER (CIVIL OR ARCHITECT OF RECORD) (4.0.A).

6) 1/4" MIN. SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. FOR INTEGRAL FIN ENABLED INSTALL SHIMS AT MAX. 18" O.C. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.

7) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL & CYCLE TESTING AND CLASSIFIED PER E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER PENETRATION RESISTANCE, STRUCTURAL & CYCLE TESTING AND CLASSIFIED PER E1300.
C. DESIGN LOADS ARE ROUNDED ON ALLOWABLE STRESS DESIGN (ASD)

8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WALLS AND COMPONENTS DUE TO THE REQUIRED DESIGN PRESSURE. THE DESIGN ENGINEER RESPONSIBLE HAS NOT BEEN HIRED BY THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

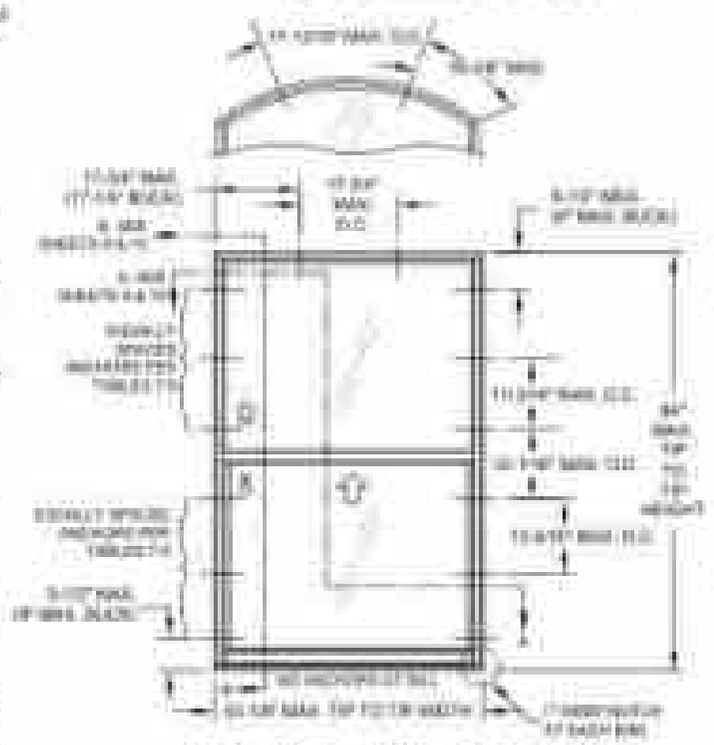
9) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE.

10) REFER TO CURRENT FLORIDA BUILDING CODE FOR APPLICABLE EDGE DISTANCE REQUIREMENTS.

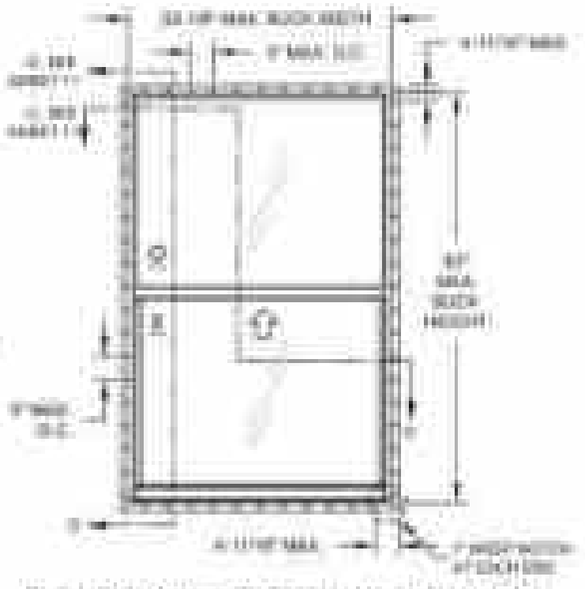
11) WHEN FLANGED OR INTEGRAL FIN SHOWN, "WINDOW IS FIELD TO CHECK" AS EQUAL TO FRAME, THE EXPOSED ALUMINUM EDGE SHALL BE PAINTED TO PROTECT AGAINST CORROSION.

FLORIDA PRODUCT APPROVAL #[illegible]

| DESIGN PRESSURE RATING: | IMPACT RATING: |
|---|---|
| HORIZ SLIDER TYPE<br>[illegible] | LARGE & SMALL MISSILE<br>IMPACT RESISTANT |




ELEVATION FOR TYP. FLANGE FRAME SHOWN WITH EQUAL LITE CONFIGURATION




ELEVATION FOR TYP. FIN FRAME SHOWN WITH EQUAL LITE CONFIGURATION

TABLE 1: ALLOWABLE GLASS TYPES

| Glass Type | Description (Listed from Exterior to Interior) | DP Table # |
|---|---|---|
| 1 | [illegible] | 1 |
| 2 | [illegible] | 2 |
| 3 | [illegible] | 3 |
| 4 | [illegible] | 4 |
| 5 | [illegible] | 5 |
| 6 | [illegible] | 6 |
| 7 | [illegible] | 7 |
| 8 | [illegible] | 8 |
| 9 | [illegible] | 9 |
| 10 | [illegible] | 10 |
| 11 | [illegible] | 11 |
| 12 | [illegible] | 12 |
| 13 | [illegible] | 13 |
| 14 | [illegible] | 14 |
| 15 | [illegible] | 15 |

[illegible]

USER INSTRUCTIONS:

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

2) KNOWING YOUR GLAZING OPTION (TABLE 1), WINDOW CONFIGURATION AND SIZE, DETERMINE YOUR WINDOW'S DESIGN PRESSURE FROM TABLES 2-A. IT MUST EQUAL OR EXCEED THE CALCULATED PRESSURE REQUIREMENT FOR THE CHOSEN OPENING DETERMINED IN STEP 1.

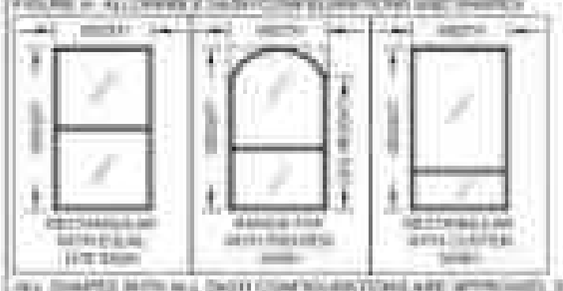
3) DETERMINE THE ANCHOR QUANTITY FROM TABLES 3-A.

4) INSTALL AS PER SHEET 9 FOR FLANGE INSTALLATION, SHEET 10 FOR EQUAL LEG INSTALLATION OR SHEET 11 FOR INTEGRAL FIN INSTALLATION.

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


GENERAL NOTES ..... 1
ELEVATIONS ..... 1
DESIGN PRESSURES / GLAZING DETAILS ..... 2-8
ANCHOR QUANTITIES ..... 8-9
INSTALLATION: FLANGE ..... 9
INSTALLATION: EQUAL LEG ..... 10
INSTALLATION: INTEGRAL FIN ..... 11
EXTRUSION PROFILES ..... 12
ASSEMBLY & PARTS LIST ..... 13


FIGURE A: ALLOWABLE SHAPE CONFIGURATIONS AND SHAPES




ALL SHAPES WITH ALL EQUAL CONFIGURATIONS ARE APPROVED. SHAPES MAY BE USED BY ASSIGNING THE SHAPE AS A BLOCK AND OBTAINING DESIGN PRESSURES AND ANCHORAGE FOR THAT BLOCK SIZE FROM THE TABLES ON THE FOLLOWING SHEETS.

PGT

ALUMINUM SINGLE HUNG WINDOW (IMPACT)

ELEVATION & GENERAL NOTES

SV7700A-FRA

1 OF 13

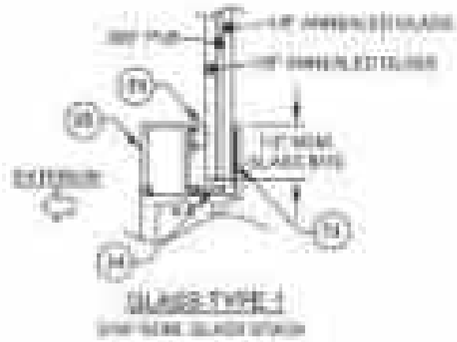
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

TABLE 1

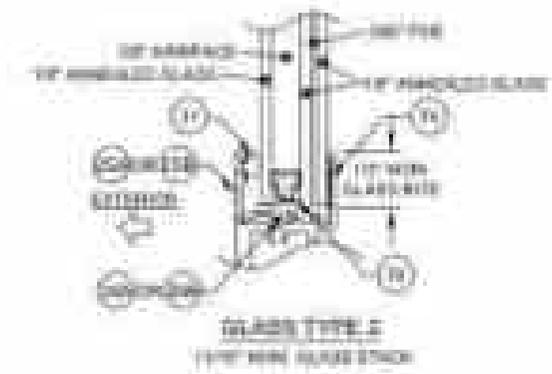
| | Nominal Glass Thickness (Laminated or Insulating Glass Package) | Rough Opening Height "H" | Design Pressure (lbs/ft²) for Glass Types 1 & 2 — Rough Opening Width "W" | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24" | 30" | 36" | 42" | 48" | 54" | 60" | 66" | 72" | 78" | 84" | 90" |
| 24" | | | | | | | | | | | | | | |
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| 30" | | | | | | | | | | | | | | |
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| 36" | | | | | | | | | | | | | | |
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| 54" | | | | | | | | | | | | | | |
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| 60" | | | | | | | | | | | | | | |
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(1) MINIMUM SASH HEIGHT FOR FLANGED WINDOWS IS 12" TO 12" HEIGHT - 48.00"
MINIMUM SASH HEIGHT FOR INTEGRAL FIN AND EQUAL LEG WINDOWS IS BLOCK HEIGHT - 48.00"
MINIMUM SASH HEIGHT FOR FLANGED WINDOWS IS 12" TO 12" HEIGHT - 48.00"
MINIMUM SASH HEIGHT FOR INTEGRAL FIN AND EQUAL LEG SINGLE TOP WINDOWS IS BLOCK HEIGHT - 48.00"

1) TOP TO TOP DIMENSIONS SHOWN FOR INTEGRAL FIN AND EQUAL LEG WINDOWS SUBTRACT 1" FROM THE TOP TO TOP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.
3) FOR SINGLE TOP WINDOWS, FIND THE DESIGN LOT WINDOW SIZE IN THE TABLE ABOVE WHICH THE ROUGH TOP WINDOW WILL COMPLETELY FIT WITHIN.
4) WINDOWS WITH THE LOW SILL OPTION ARE LIMITED TO A MAXIMUM POSITIVE DESIGN PRESSURE OF 40 PSF. NEGATIVE DESIGN PRESSURES ARE UNAFFECTED.




GLASS TYPE 1
TYPE NOM. GLASS STACK




GLASS TYPE 2
TYPE NOM. GLASS STACK

PGT
ALUMINUM IMPACT PRODUCTS
SECTION
SHEET

TABLE 1

| | Number and Designation (Lite/Light Pattern) | Glass Weight (Pounds) | Design Pressure (lbs/ft²) - for Glass Type 2 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Positive (+) | | | | Negative (-) | | | | | | | |
| | | | A | | B | | C | | A | | B | | C | |
| 20" | | | | | | | | | | | | | | |
| 23" | | | | | | | | | | | | | | |
| 35 1/2" | | | | | | | | | | | | | | |
| 47" | | | | | | | | | | | | | | |
| 59" | | | | | | | | | | | | | | |
| 71" | | | | | | | | | | | | | | |
| 83" | | | | | | | | | | | | | | |

(1) MAXIMUM GLASS HEIGHT FOR FLANGED WINDOWS IS "TOP TO TOP HEIGHT" -1/8 IN.

MAXIMUM GLASS HEIGHT FOR INTEGRAL FIN AND EQUAL LEG WINDOWS IS "ROUGH HEIGHT" -1/2 IN.

MAXIMUM GLASS HEIGHT FOR FLANGED, HOUSED FOR WINDOWS IS "TOP TO TOP HEIGHT" -1/4 IN.

MAXIMUM GLASS HEIGHT FOR INTEGRAL FIN AND EQUAL LEG FRENCH TOP WINDOWS IS "ROUGH HEIGHT" -1/2 IN.

1) TOP TO TOP DIMENSIONS SHOWN FOR INTEGRAL FIN AND EQUAL LEG WINDOWS SUBTRACT 1/2 FROM THE TOP TO TOP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.
3) FOR AWNING TOP WINDOWS, FIND THE DESIRED WINDOW SIZE IN THE TABLE ABOVE WHICH THE ROUGH TOP WINDOW WILL COMFORTABLY FIT WITHIN.
4) WINDOWS WITH THIS LOW SILL OPTION ARE LIMITED TO A MAXIMUM POSITIVE DESIGN PRESSURE OF 100 PSF. NEGATIVE DESIGN PRESSURES ARE UNAFFECTED.

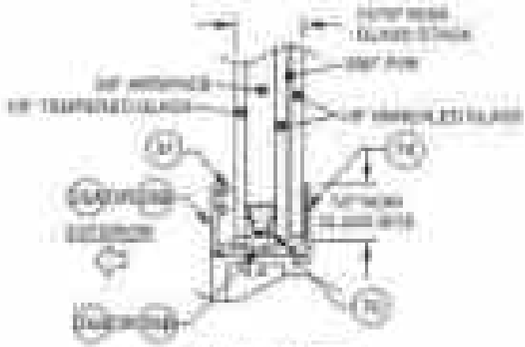
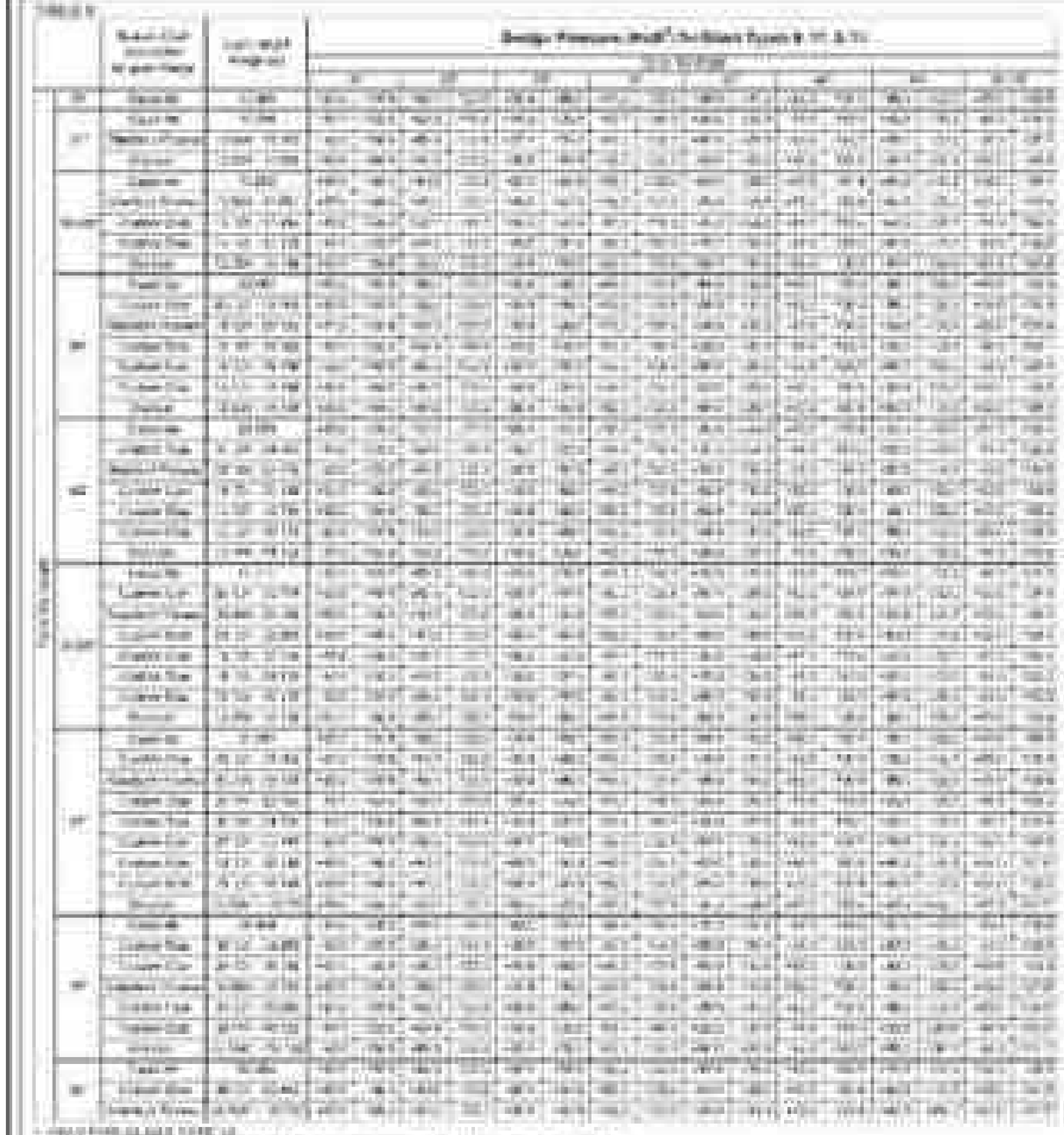
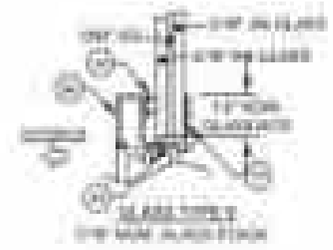

1/2" MIN.
GLASS STOP
3/8" MIN.
1/2" MIN.
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1/2" INSULATED GLASS
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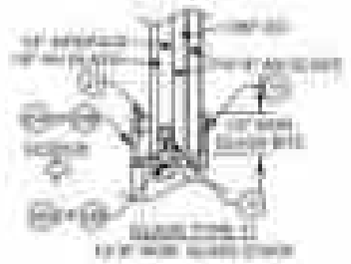
TABLE 1

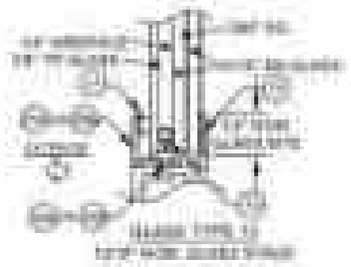
**Design Pressure (PSF)[1] for Glass Types A-J**

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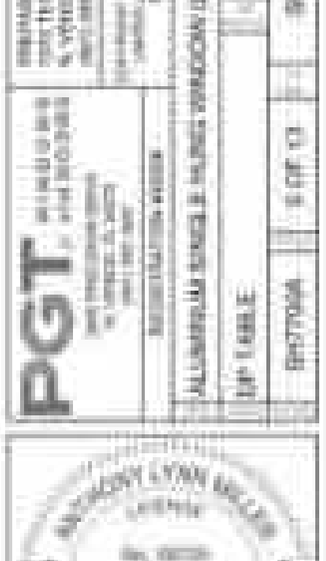




TABLE 7
**Alum.(c) Operating Requirements for "Parargon 4 Series" Installations**
**using (Mono, Tuning, V.)**

| | | | Sys. Volume | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| | | | | | | | | | | | | | | | | | | |

TABLE 1

**Alumi Guardrail Requirements for "Through-Frame" Installations**

Up to 12 Inches

| | | |

TABLE 1

**Architect Specified Required Net "Through-Frame" Installation Rating Charts (Types A, T1, & T2)**

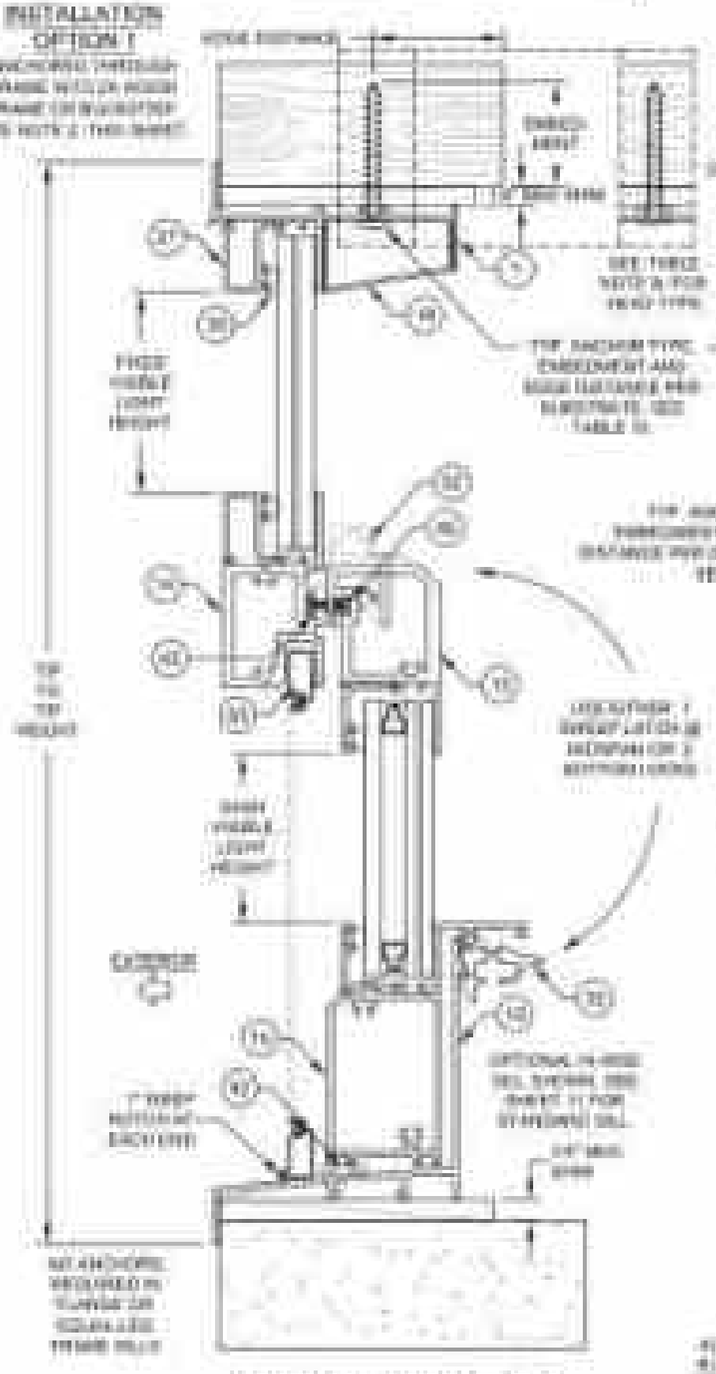
| | | |

# INSTALLATION DETAILS FOR FLANGE FRAMES

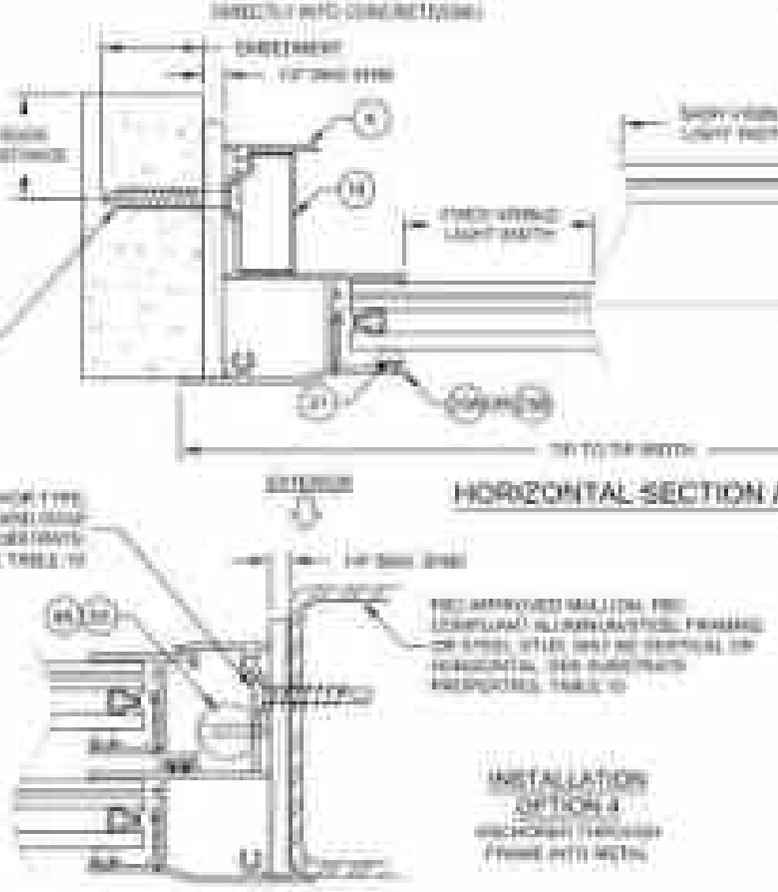
INSTALLATION OPTION 1

INSTALLATION OPTION 2

INSTALLATION OPTION 3



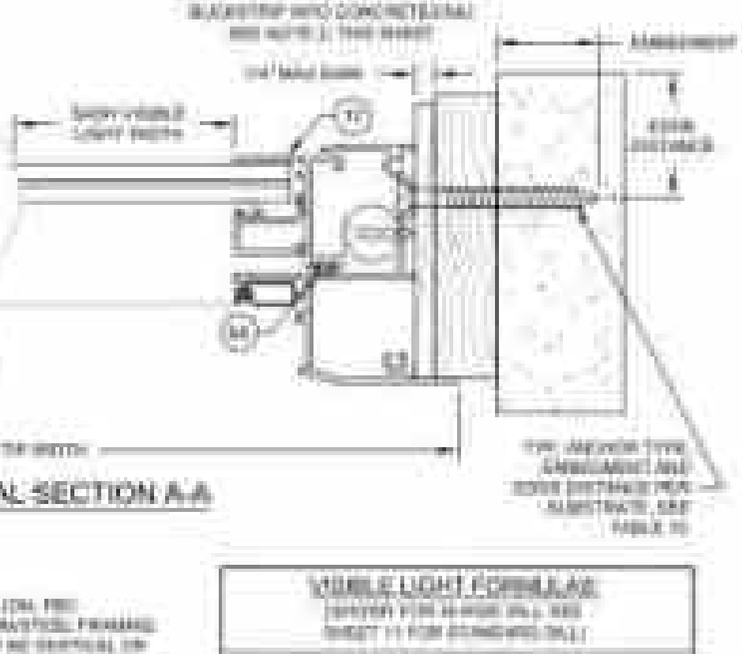
VERTICAL SECTION B-B



HORIZONTAL SECTION A-A

INSTALLATION OPTION 4





VISIBLE LIGHT FORMULAS

| | |
|---|---|
| WIDTH | |
| HEIGHT | |
| AREA | |

TABLE 10

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NOTES

A) MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
B) USE DIRECT PLATTED ANCHORS IN JAMBS. PAN MOUNTS MAY REQUIRE FRAME ALTERATIONS.
C) ANCHOR SIZE AND MOUNTS IN THE HEAD.
D) "UNWRAPPED END" VALUES MAY BE USED FOR SPECIFIED SIZES ONLY. REFER TO NOTES.

NOTES

1) USE ONLY SCREWS IN APPROVED ANCHOR LOCATIONS ON TABLE 10. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

2) WHERE SHIM AND POPE MAY BE USED INTO WOOD AS PER TABLE 10. ALL WOOD SHIMS LESS THAN 1 1/2" THICK ARE TO BE CONSIDERED IN INSTALLATIONS. 1X WOOD SHIMS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD SHIMS SPACED AS SHIM 1 1/2" THICK OR GREATER, 1X AND 2X SHIMS UNDER VINYL SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. PROPER ANCHOR DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

3) VISIBLE LIGHT WIDTH OR HEIGHT SHALL BE APPROVED TO BE SAME SIZE OPENING IS MEASURED FROM MEETING TO MEETING.

PGT

ALUMINUM SINGLE HUNG WINDOW (LM82)

FLANGE FRAME SECTION

SHEET 12 OF 13

BRITTON-FPA

STATE OF FLORIDA

PROFESSIONAL ENGINEER

# INSTALLATION DETAILS FOR EQUAL-LEG FRAMES

INSTALLATION OPTION 1
ANCHORED THROUGH FRAME WITH CLIP, WOOD FRAME OR BLOCKSTRIP SEE NOTE 2 THIS SHEET

INSTALLATION OPTION 2
ANCHORED THROUGH FRAME DIRECTLY INTO CONCRETE/CMU

INSTALLATION OPTION 3
ANCHORED THROUGH FRAME AND TO BLOCKSTRIP INTO CONCRETE/CMU
SEE NOTE 2, THIS SHEET

HORIZONTAL SECTION A-A

INSTALLATION OPTION 4
ANCHORED THROUGH FRAME INTO METAL

VERTICAL SECTION B-B

## VISIBLE LIGHT FORMULAS

TABLE 11

NOTES:

A) MIN. OF 1 THREAD BEYOND THE METAL SUBSTRATE.
B) USE ONLY FLATHEAD ANCHORS TO ANCHOR THROUGH FRAME.
C) ANCHOR SIZE AND SPACING IN THE HEAD.
D) "UNIVERSAL SIZE" VALUES MAY BE USED FOR SPECIFIED SIZES OR APPLICATIONS.

NOTES:

1) USE ONLY SCREWS TO ANCHOR AS SPECIFIED IN TABLE 11. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

2) FASTENERS AND ROPE MAY BE USED INTO WOOD AS PER TABLE 11. ALL WOOD BLOCKS LESS THAN 1 1/2" THICK ARE TO BE CONSIDERED IN INSTALLATIONS. IN WOOD BLOCK ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BLOCK SHIMS USED SHALL BE 1 1/2" THICK OR GREATER. 1/4 AND 1/2 INCH SHIMS USED SHALL BE SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. PROPER ANCHOR DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE OWNER'S OR ARCHITECT OF RECORD.

3) VISIBLE LIGHT WIDTH OR HEIGHT VALUES APPROVED TO BE SAME AS OUT SIDE OF MULLION TO MULLION.

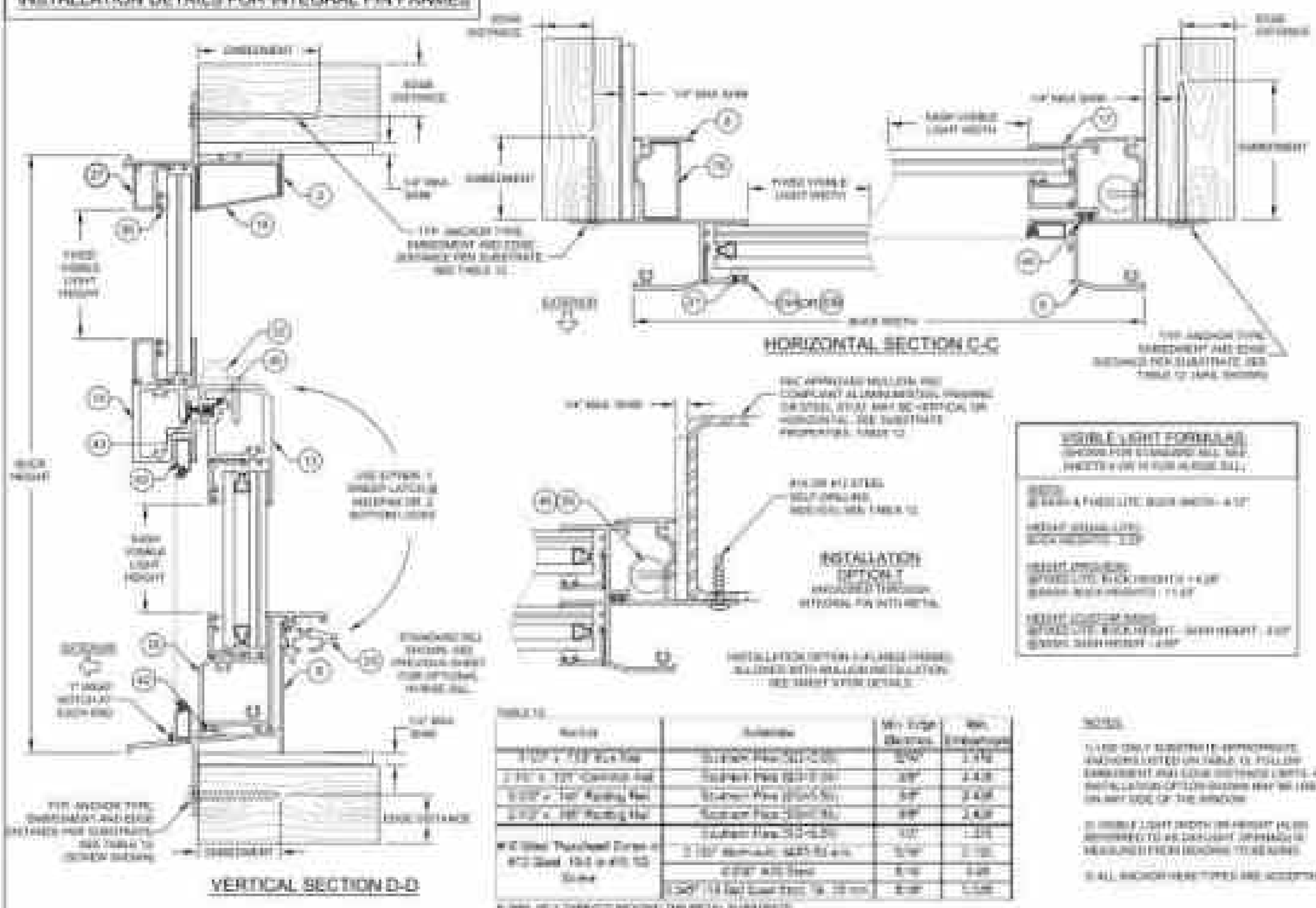
PGT

EQUAL LEG X-SECTION

STATE OF FLORIDA

PROFESSIONAL ENGINEER

# INSTALLATION DETAILS FOR INTEGRAL FIN FRAMES



HORIZONTAL SECTION C-C



VERTICAL SECTION D-D



INSTALLATION OPTION 1
ENCASED TUBULAR INTEGRAL FIN WITH METAL

INSTALLATION OPTION 2 FLANGE FRAMES ALLOWED WITH WINDOW INSTALLATION. SEE SHEET 5 FOR DETAILS.

## VISIBLE LIGHT FORMULAS

SHOWN FOR STANDARD ROLL SHEETS 4 OR 10 FOR ALTERNATE ROLL.

| | |
|---|---|
| WIDTH<br>@ SASH & FIXED LITE: [illegible] | |
| HEIGHT (EGRESS LITE)<br>[illegible] | |
| HEIGHT (FIXED LITE)<br>@ FIXED LITE: [illegible]<br>@ [illegible] | |
| HEIGHT (CURTAIN WALL)<br>@ FIXED LITE: [illegible]<br>@ [illegible] | |

TABLE 12

| Section | Substrate | Min. Edge Distance | Min. Embedment |
|---|---|---|---|
| [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] |

NOTES:

1. USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED ON TABLE 12. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
2. DOUBLE LIGHT WIDTH OR HEIGHT ALSO REFERRED TO AS DAYLIGHT OPENING IS MEASURED FROM SEATING TO SEATING.
3. ALL ANCHOR HEAD TYPES ARE ACCEPTABLE.

PGT INDUSTRIES

ALUMINUM SINGLE HUNG WINDOW

INTEGRAL FIN SECTION

SHEET 11 OF 13

REVISED AS A.L.I. WINDOW

ADDED TECHNICAL DATA

ADDED TABLE 12

ADDED NOTES

ADDED SECTION C-C

ADDED SECTION D-D

ADDED INSTALLATION OPTION 1

ADDED INSTALLATION OPTION 2

ADDED VISIBLE LIGHT FORMULAS

ADDED SECTION E-E

ADDED SECTION F-F

ADDED SECTION G-G

ADDED SECTION H-H

ADDED SECTION I-I

ADDED SECTION J-J

ADDED SECTION K-K

ADDED SECTION L-L

ADDED SECTION M-M

ADDED SECTION N-N

ADDED SECTION O-O

ADDED SECTION P-P

ADDED SECTION Q-Q

ADDED SECTION R-R

ADDED SECTION S-S

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ADDED SECTION X-X

ADDED SECTION Y-Y

ADDED SECTION Z-Z

ADDED SECTION AA-AA

ADDED SECTION BB-BB

ADDED SECTION CC-CC

ADDED SECTION DD-DD

ADDED SECTION EE-EE

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ADDED SECTION HH-HH

ADDED SECTION II-II

ADDED SECTION JJ-JJ

ADDED SECTION KK-KK

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ADDED SECTION QQ-QQ

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ADDED SECTION YY-YY

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ADDED SECTION CCC-CCC

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ADDED SECTION JJJ-JJJ

ADDED SECTION KKK-KKK

ADDED SECTION LLL-LLL

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ADDED SECTION PPP-PPP

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ADDED SECTION VVVV-VVVV

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ADDED SECTION VVVVVVVVVVVVVVVV-VVVVVVVVVVVVVVVV

ADDED SECTION WWWWWWWWWWWWWWWW-WWWWWWWWWWWWWWWW

ADDED SECTION XXXXXXXXXXXXXXXX-XXXXXXXXXXXXXXXX

ADDED SECTION YYYYYYYYYYYYYYYY-YYYYYYYYYYYYYYYY

ADDED SECTION ZZZZZZZZZZZZZZZZ-ZZZZZZZZZZZZZZZZ

ADDED SECTION AAAAAAAAAAAAAAAAA-AAAAAAAAAAAAAAAAA

ADDED SECTION BBBBBBBBBBBBBBBBB-BBBBBBBBBBBBBBBBB

ADDED SECTION CCCCCCCCCCCCCCCCC-CCCCCCCCCCCCCCCCC

ADDED SECTION DDDDDDDDDDDDDDDDD-DDDDDDDDDDDDDDDDD

ADDED SECTION EEEEEEEEEEEEEEEEE-EEEEEEEEEEEEEEEEE

ADDED SECTION FFFFFFFFFFFFFFFFF-FFFFFFFFFFFFFFFFF

ADDED SECTION GGGGGGGGGGGGGGGGG-GGGGGGGGGGGGGGGGG

ADDED SECTION HHHHHHHHHHHHHHHHH-HHHHHHHHHHHHHHHHH

ADDED SECTION IIIIIIIIIIIIIIIII-IIIIIIIIIIIIIIIII

ADDED SECTION JJJJJJJJJJJJJJJJJ-JJJJJJJJJJJJJJJJJ

ADDED SECTION KKKKKKKKKKKKKKKKK-KKKKKKKKKKKKKKKKK

ADDED SECTION LLLLLLLLLLLLLLLLL-LLLLLLLLLLLLLLLLL

ADDED SECTION MMMMMMMMMMMMMMMMM-MMMMMMMMMMMMMMMMM

ADDED SECTION NNNNNNNNNNNNNNNNN-NNNNNNNNNNNNNNNNN

ADDED SECTION OOOOOOOOOOOOOOOOO-OOOOOOOOOOOOOOOOO

ADDED SECTION PPPPPPPPPPPPPPPPP-PPPPPPPPPPPPPPPPP

ADDED SECTION QQQQQQQQQQQQQQQQQ-QQQQQQQQQQQQQQQQQ

ADDED SECTION RRRRRRRRRRRRRRRRR-RRRRRRRRRRRRRRRRR

ADDED SECTION SSSSSSSSSSSSSSSSS-SSSSSSSSSSSSSSSSS

ADDED SECTION TTTTTTTTTTTTTTTTT-TTTTTTTTTTTTTTTTT

ADDED SECTION UUUUUUUUUUUUUUUUU-UUUUUUUUUUUUUUUUU

ADDED SECTION VVVVVVVVVVVVVVVVV-VVVVVVVVVVVVVVVVV

ADDED SECTION WWWWWWWWWWWWWWWWW-WWWWWWWWWWWWWWWWW

ADDED SECTION XXXXXXXXXXXXXXXXX-XXXXXXXXXXXXXXXXX

ADDED SECTION YYYYYYYYYYYYYYYYY-YYYYYYYYYYYYYYYYY

ADDED SECTION ZZZZZZZZZZZZZZZZZ-ZZZZZZZZZZZZZZZZZ

ADDED SECTION AAAAAAAAAAAAAAAAAA-AAAAAAAAAAAAAAAAAA

ADDED SECTION BBBBBBBBBBBBBBBBBB-BBBBBBBBBBBBBBBBBB

ADDED SECTION CCCCCCCCCCCCCCCCCC-CCCCCCCCCCCCCCCCCC

ADDED SECTION DDDDDDDDDDDDDDDDDD-DDDDDDDDDDDDDDDDDD

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ADDED SECTION FFFFFFFFFFFFFFFFFF-FFFFFFFFFFFFFFFFFF

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ADDED SECTION IIIIIIIIIIIIIIIIII-IIIIIIIIIIIIIIIIII

ADDED SECTION JJJJJJJJJJJJJJJJJJ-JJJJJJJJJJJJJJJJJJ

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ADDED SECTION LLLLLLLLLLLLLLLLLL-LLLLLLLLLLLLLLLLLL

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ADDED SECTION QQQQQQQQQQQQQQQQQQ-QQQQQQQQQQQQQQQQQQ

ADDED SECTION RRRRRRRRRRRRRRRRRR-RRRRRRRRRRRRRRRRRR

ADDED SECTION SSSSSSSSSSSSSSSSSS-SSSSSSSSSSSSSSSSSS

ADDED SECTION TTTTTTTTTTTTTTTTTT-TTTTTTTTTTTTTTTTTT

ADDED SECTION UUUUUUUUUUUUUUUUUU-UUUUUUUUUUUUUUUUUU

ADDED SECTION VVVVVVVVVVVVVVVVVV-VVVVVVVVVVVVVVVVVV

ADDED SECTION WWWWWWWWWWWWWWWWWW-WWWWWWWWWWWWWWWWWW

ADDED SECTION XXXXXXXXXXXXXXXXXX-XXXXXXXXXXXXXXXXXX

ADDED SECTION YYYYYYYYYYYYYYYYYY-YYYYYYYYYYYYYYYYYY

ADDED SECTION ZZZZZZZZZZZZZZZZZZ-ZZZZZZZZZZZZZZZZZZ

ADDED SECTION AAAAAAAAAAAAAAAAAAA-AAAAAAAAAAAAAAAAAAA

ADDED SECTION BBBBBBBBBBBBBBBBBBB-BBBBBBBBBBBBBBBBBBB

ADDED SECTION CCCCCCCCCCCCCCCCCCC-CCCCCCCCCCCCCCCCCCC

ADDED SECTION DDDDDDDDDDDDDDDDDDD-DDDDDDDDDDDDDDDDDDD

ADDED SECTION EEEEEEEEEEEEEEEEEEE-EEEEEEEEEEEEEEEEEEE

ADDED SECTION FFFFFFFFFFFFFFFFFFF-FFFFFFFFFFFFFFFFFFF

ADDED SECTION GGGGGGGGGGGGGGGGGGG-GGGGGGGGGGGGGGGGGGG

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ADDED SECTION IIIIIIIIIIIIIIIIIII-IIIIIIIIIIIIIIIIIII

ADDED SECTION JJJJJJJJJJJJJJJJJJJ-JJJJJJJJJJJJJJJJJJJ

ADDED SECTION KKKKKKKKKKKKKKKKKKK-KKKKKKKKKKKKKKKKKKK

ADDED SECTION LLLLLLLLLLLLLLLLLLL-LLLLLLLLLLLLLLLLLLL

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ADDED SECTION OOOOOOOOOOOOOOOOOOO-OOOOOOOOOOOOOOOOOOO

ADDED SECTION PPPPPPPPPPPPPPPPPPP-PPPPPPPPPPPPPPPPPPP

ADDED SECTION QQQQQQQQQQQQQQQQQQQ-QQQQQQQQQQQQQQQQQQQ

ADDED SECTION RRRRRRRRRRRRRRRRRRR-RRRRRRRRRRRRRRRRRRR

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ADDED SECTION TTTTTTTTTTTTTTTTTTT-TTTTTTTTTTTTTTTTTTT

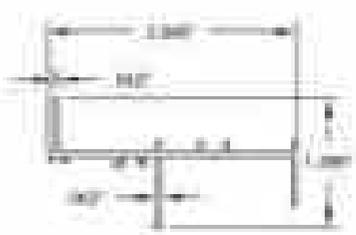
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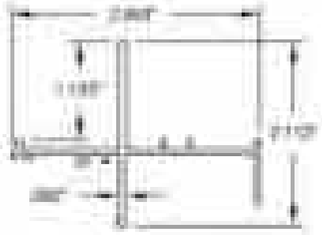
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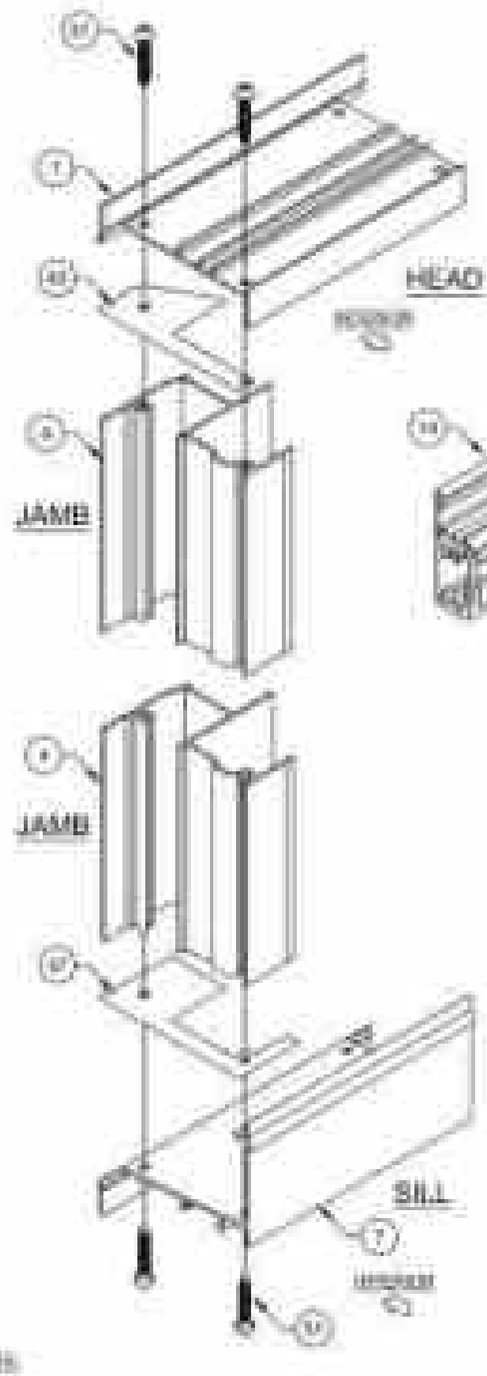
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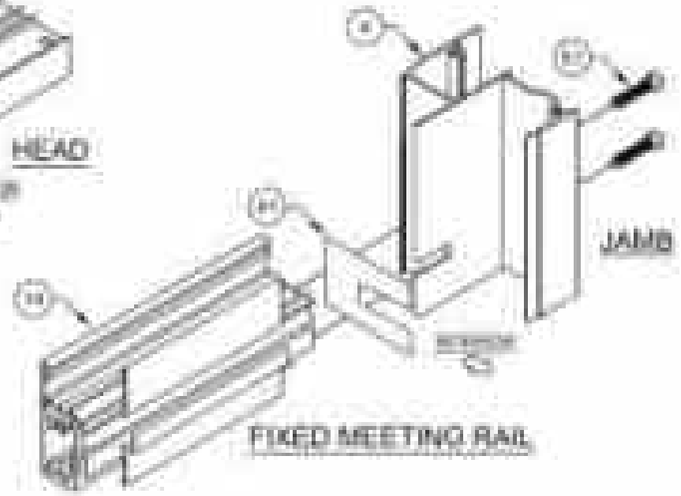


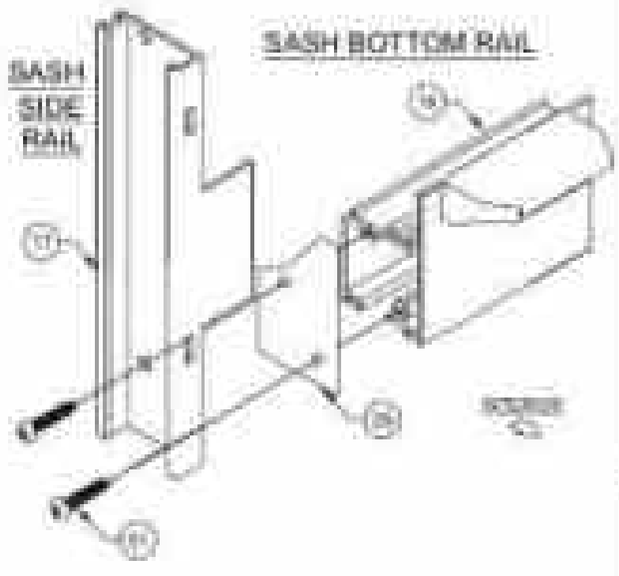


| Item # | PGT Part # | Description | Material |
|---|---|---|---|
| 1 | [illegible] | Main Flange | Alum. [illegible] |
| 2 | [illegible] | Main Weight Fin | Alum. [illegible] |
| 3 | [illegible] | Main Glazing | Alum. [illegible] |
| 4 | [illegible] | Main Flange | Alum. [illegible] |
| 4H | | Main Flange Insert For Ultimate Rolled Top Head | Alum. [illegible] |
| 5 | [illegible] | Main Weight Fin | Alum. [illegible] |
| 5H | | Main Weight Fin Insert For Ultimate Rolled Top Head | Alum. [illegible] |
| 6 | [illegible] | Main Expander | Alum. [illegible] |
| 6a | | Main Expander Strip For Ultimate Rolled Top Head | Alum. [illegible] |
| 7 | [illegible] | Sill Flange | Alum. [illegible] |
| 8 | [illegible] | Sill Weight Fin | Alum. [illegible] |
| 9 | [illegible] | Sill Expander | Alum. [illegible] |
| 10 | [illegible] | Sill Weather Flange | Alum. [illegible] |
| 11 | [illegible] | Sill Weight Fin | Alum. [illegible] |
| 12 | [illegible] | Sill Glazing | Alum. [illegible] |
| 13 | [illegible] | Lock Top Rail | Alum. [illegible] |
| 14 | [illegible] | Fixed Glazing Rail | Alum. [illegible] |
| 15 | [illegible] | Fixed Bottom Rail | Alum. [illegible] |
| 16 | [illegible] | Fixed Bottom Rail | Alum. [illegible] |
| 17 | [illegible] | Fixed Sash Rail | Alum. [illegible] |
| 18 | [illegible] | Meeting Rail Cover | Alum. [illegible] |
| 19 | [illegible] | Fixed Top Rail | Alum. [illegible] |
| 20 | [illegible] | Jamb Liner | Vinyl |
| 21 | [illegible] | Jamb Liner | Vinyl |
| 22 | [illegible] | Lock Handle | Cast Zinc |
| 23 | [illegible] | Keeper Lock Clip Set | Alum. [illegible] |
| 24 | | Glazing Block | Neoprene |
| 25A | | Sill Setting Block | Neoprene |
| 26B | [illegible] | Sill Glass Setting Block | Vinyl |
| 26 | [illegible] | Sash Weather Weatherstrip Extension | |
| 27 | [illegible] | Sill Glass Bed | Polyethylene |
| 28 | [illegible] | Sash Top Rail Glass Bed | Polyethylene |
| 29 | [illegible] | Sash Bottom Rail Glass Bed | Polyethylene |
| 30 | [illegible] | Jamb Glass Bed | Polyethylene |
| 31 | [illegible] | Glazing Tab (Optional) | Polyethylene |
| 32 | [illegible] | Fixed Bottom Rail Snap (Opt) | Polyethylene |
| 33 | | Weatherstrip - [illegible] x [illegible] Fin Seal (@ Sill) | |
| 34 | [illegible] | Weatherstrip - [illegible] x [illegible] Fin Seal (@ Fixed Side Rail) | |
| 35 | | Weatherstrip - [illegible] x [illegible] Fin Seal (@ Top Sash Rail) | |
| 36 | Nylon | Screw with Cross S Type | Nylon [illegible] |
| 37 | Stainless | Sill Fin Anchor Assembly | Stainless Steel |
| 38 | [illegible] | Jamb Fin Anchor Assembly | Stainless Steel |
| 39 | | Jamb Screw with Elongated Head | Nylon |
| 40 | | Sill Spacer | Nylon |
| 41 | | Drive Rail Mat (@ Sill Fin Anchor) | Nylon |




## ASSEMBLY DETAILS FOR FLANGE FRAMES




NOTES:

1. ALL CORNERS TO USE GASKET AND/OR SEALANT.
2. SOME PART CUTTING NOT SHOWN ON DRAWING FOR CLARITY.

PGT

ALUMINUM FRAME & FIXED WINDOW SECTIONS

BOW & CORNER SECTIONS

SECTIONS

SHEET 13 OF 13

STATE OF FLORIDA

PROFESSIONAL ENGINEER