SGD3130V SMALL MISSILE & LARGE MISSILE (LEVEL C) IMPACT RESISTANT, BYPASS & POCKET, 2 & 3 TRACK SLIDING GLASS DOOR

- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE (IBC) AND THE 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) FOR THE DESIGN PRESSURES LISTED.
- 2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS AT THE FOLLOWING LOCATIONS:
 - A) <u>WITHIN 1 MILE</u> OF THE COASTAL MEAN HIGH WATER LINE WHERE THE ULTIMATE WIND SPEED IS EQUAL TO OR GREATER THAN 130 MPH AND LESS THAN 140 MPH.
 - B) GREATER THAN 1 MILE FROM THE COASTAL MEAN HIGH WATER LINE WHERE THE ULTIMATE WIND SPEED IS GREATER THAN OR EQUAL TO 140 MPH AND LESS THAN 150 MPH.
- 3) MASONRY ANCHORS MAY BE USED INTO WOOD. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X 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.
- 4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH. 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.
- 5) SHIMS ARE REQUIRED AT EACH FLANGE ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE DOOR.
- 6) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE 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. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE IBC/IRC FOR CORROSION RESISTANCE.

TABLE 2:

| Glass Types | | | | | | |
|-------------|--|--|--|--|--|--|
| 1 | 1/8" TP Cap, 7/16" Airspace, 3/16" AN, 0.060" Trosifol PVB, 3/16" AN | | | | | |
| 2 | 3/16" TP Cap, 3/8" Airspace, 3/16" AN, 0.060" Trosifol PVB, 3/16" AN | | | | | |
| 3 | 1/8" TP Cap, 7/16" Airspace, 3/16" HS, 0.060" Trosifol PVB, 3/16" HS | | | | | |
| 4 | 3/16" TP Cap, 3/8" Airspace, 3/16" HS, 0.060" Trosifol PVB, 3/16" HS | | | | | |

FIGURE 1:

OH HEIGHT

OH LENGTH

DOOR ASSEMBLIES INSTALLED WHERE THE OVERHANG (OH) LENGTH IS EQUAL TO OR GREATER THAN THE OVERHANG HEIGHT IS EXEMPTED FROM WATER INFILTRATION RESISTANCE.

SILL RISER NOTES:

A) IF WATER INFILTRATION RESISTANCE IS REQUIRED, THE 2-13/16" SILL RISER MUST BE USED.

B) IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1, A SILL RISER IS NOT NEEDED.

DESIGN PRESSURE RATING RATED FOR SMALL MISSILE &

+/-50.0 PSF

RATED FOR SMALL MISSILE (LEVEL C LARGE MISSILE IMPACT RESISTANCE

TABLE 1: INSTALLATION ANCHORS

| Anchor | Location | Substrate | Minimum Edge Distance | Minimum Embedment | |
|------------------------|-------------------|----------------------------|-----------------------------|----------------------|--|
| #10 or #12 | | Southern Pine (SG = .55) | 9/16" | 1-3/8" | |
| Steel, 18-8 SS | All | Aluminum, 6063-T5 min. | 3/8" | 0.060" | |
| or 410 SS | All | Steel Stud, Gr. 33 min. | 3/8" | 0.045" (18 Ga) | |
| Screw | | A36 Steel | 3/8" | 0.050" | |
| | Head, Sill & Jamb | Concrete (min. 3.0 ksi) | 1-1/2" | 1-3/4" | |
| | Jamb | Grouted CMU, (ASTM C-90) | 1-3/4" | 2-1/4" | |
| 3/16" steel | | Concrete (min. 3.0 ksi) | 1" | 1-3/8" | |
| Ultracon+ | Hookstrip | Grouted CMU, (ASTM C-90) | 1" | 2-1/4" | |
| | | Ungrouted CMU, (ASTM C-90) | 1-1/2" | 1-1/4" | |
| | | Southern Pine (SG = .55) | 1" | 1-3/8" | |
| 4/411 - 4 1 | Head, Sill & Jamb | Concrete (min. 3.0 ksi) | 1" | 1-3/8" | |
| 1/4" steel Ultracon | Jamb | Ungrouted CMU, (ASTM C-90) | 1-5/8" | 1-1/4" | |
| | All | Southern Pine (SG = .55) | 1" | 1-3/8" | |
| 1/4" steel | Hookstrip | Concrete (min. 3.0 ksi) | 1" | 1" | |
| Ultracon | Hookstrip | Ungrouted CMU, (ASTM C-90) | 1" | 1-1/4" | |
| | Head, Sill & Jamb | Concrete (min. 3.0 ksi) | 1-1/4" | 1-3/8" | |
| 1/4" steel | Jamb | Grouted CMU, (ASTM C-90) | 1" | 1-3/4" | |
| Ultracon+ | Jamb | Ungrouted CMU, (ASTM C-90) | 1-1/2" | 1-1/4" | |
| ļ | All | Southern Pine (SG = .55) | 1" | 1-3/8" | |
| 1/4" steel | Hookstrip | Concrete (min. 3.0 ksi) | 1" | 1" | |
| Ultracon+ | Hookstrip | Ungrouted CMU, (ASTM C-90) | 1" | 1-1/4" | |

1) CONCRETE ANCHOR LOCATIONS NOTED AS "MAX. ON CENTER" MUST BE ADJUSTED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTOR JOINTS, ADDITIONAL CONCRETE ANCHORS MAY BE REQUIRED TO ENSURE THE "MAX. ON CENTER" DIMENSION IS NOT EXCEEDED. "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

2) ALL ANCHOR HEAD TYPES ARE APPLICABLE. ANCHORS MUST EXTEND A MIMIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.

SGD3130TDI-1

CERTIFICATION TABLE:

SGD3130V

| Window Buck Size | | Design Pressure | | Glazing | Certification | |
|------------------|--------|-----------------|---------|---------------|---------------|--|
| Width | Height | (+) psf | (-) psf | (see Table 2) | Number | |
| 210" | 96" | 50.0 | 50.0 | Types 1-4 | NI015342 | |

NTS

Title:
VINYL SLIDING GLASS DOOR (LM)

Description:
GENERAL NOTES & ANCHOR TYPES

Revision:

Rev. By: Rev. Date:

Series/Model: Scale: Sheet: Drawing No. Rev:

1 OF 7

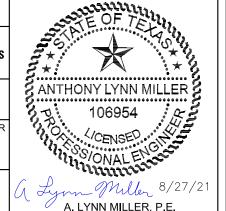
Impact Resistant
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3780 W 104TH STREET

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PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600

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P.E.# 106594

GENERAL NOTES.....1

ELEVATIONS.....2

HORIZ. SECTION VIEWS......3

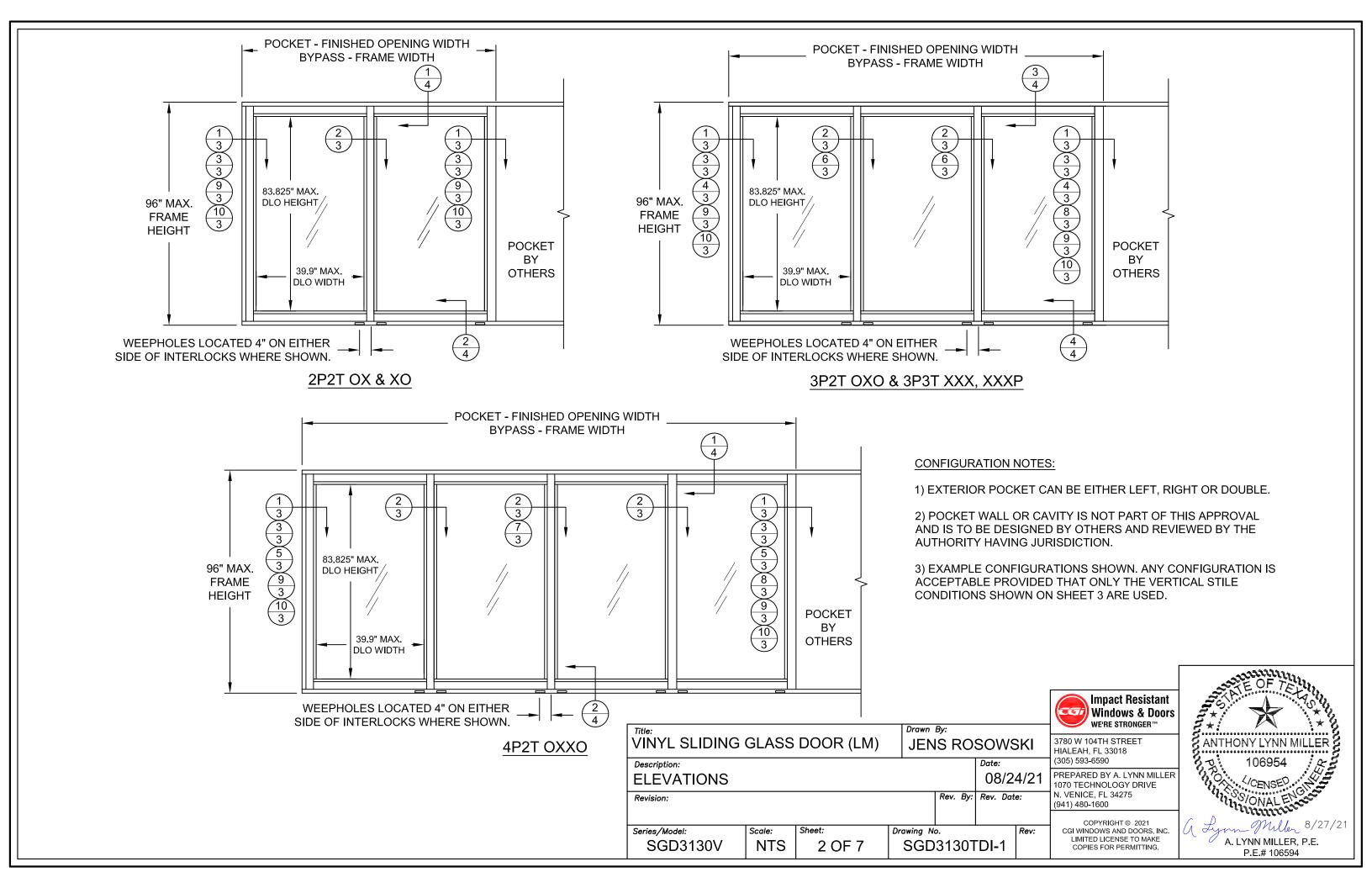
VERTICAL SECTION VIEWS.....4

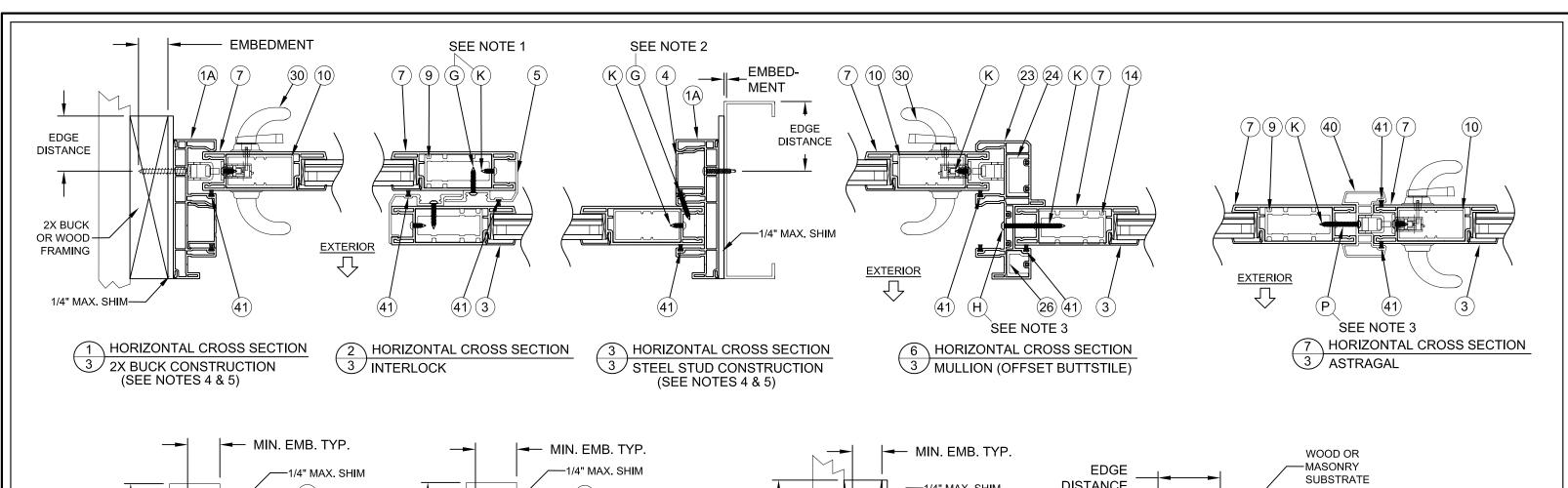
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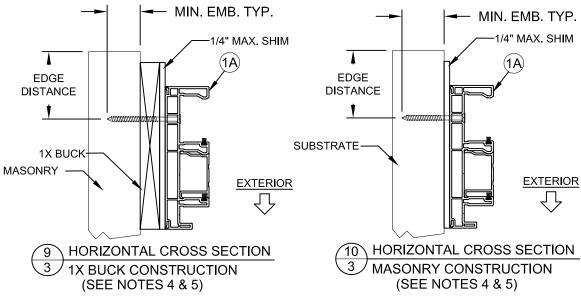
FRAME ANCHORAGE, 2T..........5
FRAME ANCHORAGE, 3T........6

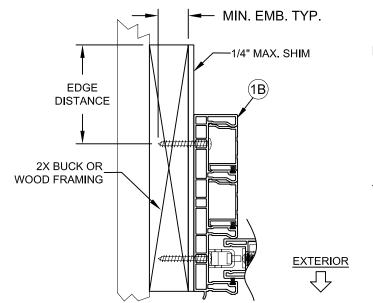
BILL OF MATERIALS.....7

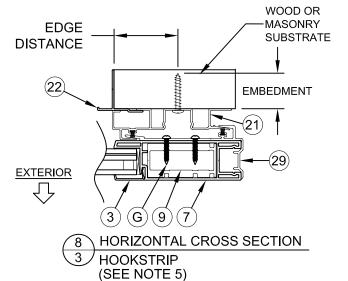
EXTRUSIONS...





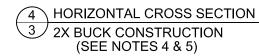






NOTES

- 1) INTERLOCK REINFORCEMENT SCREWS, G & K, ARE LOCATED 3" FROM EACH END THEN 14.5" ON CENTER.
- 2) FIXED PANEL IN JAMB SCREWS, G, ARE LOCATED 8" FROM EACH END AND THEN 4 MORE EQUALLY SPACED (6 TOTAL)
- 3) FIXED PANEL IN MULLION SCREWS, H, AND FIXED PANEL IN ASTRAGAL SCREWS, P, ARE LOCATED 6" FROM EACH END AND THEN 12" ON CENTER.
- 4) ALL ANCHORAGE SUBSTRATE CONDITIONS SHOWN APPLY TO ALL FRAME TYPES.
- 5) FOR SUBSTRATE & ANCHOR TYPES AND LIMITATIONS, SEE TABLE 1, SHEET1.



| | Title: VINYL SLIDING GLASS DOOR (LM) Drawn By: JENS RO Description: HORIZONTAL SECTION VIEWS | | | | | | | SKI | 3780 HIALE |
|--|--|---------------|------------------|-----|----------------------|-----|-----------|------|-----------------------|
| | | | | | | | | 4/21 | (305) PREF 1070 |
| | Revision: | | | 1_ | Rev. E | ly: | Rev. Date | | N. VE (941) |
| | Series/Model: SGD3130V | Scale: NTS | Sheet: 3 OF 7 | - 1 | awing No. SGD3130 | T | | Rev: | CGI L |



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