Engineering Evaluation Report #5570-241011-01

Prepared by:
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Manufacturer:
PGT Industries
3400 Precision Drive
N. Venice, FL 34275

Product Description:
SGD5570 Series Impact-resistant Vinyl Sliding Glass Door, (LM & SM); FL Approval #33106

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 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 SGD5570FPA-LM, signed and sealed by A. Lynn Miller, P.E.

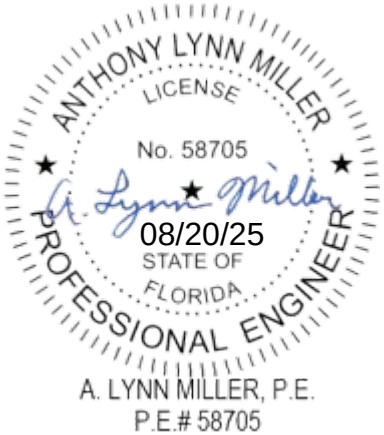
2. Test Report Nos.:
FTL-6337, 6338, 8646-8649, 8652, 8717, QAI-21-1241 and NO-0099.

QAI: QAI Laboratories

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., dated 2/29/24., 6/13/24

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 panel material to be extruded PVC
• Units must be installed in accordance with approval documents.



SERIES 5570 IMPACT RESISTANT SLIDING GLASS DOOR INCLUDING POCKETS & 90° / 135° CORNERS

FLORIDA PRODUCT APPROVAL #FL[illegible]

DESIGN PRESSURE RATING
SEE TABLES 1, 2 & 3(1) &C
ON SHEETS 7 & 8

IMPACT RATING
RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE
MISSILE LEVEL D

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GENERAL NOTES:

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

2) MULLIONS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

3) ANCHORAGE: 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 HAS 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.

4) OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

5) GLASS MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE. AS APPLICABLE DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.

TABLE A

Group	Anchor	Substrate	Frame Member	Min. Edge Distance	Min. Embedment
A	#12, steel SMS (GA) or 410 S.S. SMS (min. 11 Gage/thick)	Southern Pine, (SG=0.55)	Head/Sill (min)/P Jamb	3/16"	1 3/4"
		Aluminum, 6063 T6	Head/S.S. jamb/P Jamb	7/8"	1.25"
		Steel, 43K, (0.060" min.)	Head/S.S./P Jamb	5/8"	0.060"
		Steel, Steel, 43KS (ga. 3)	Head/S.S./P Jamb	5/8"	0.071" (14 Ga.)
	1/4" DeWalt Wedge	Southern Pine, (SG=0.55)	Jamb	1"	1-3/8"
	1/4" Dtch #10 SS Crete/Tite		Head/S.S./P Jamb	1"	1.625"
B	#12, steel wood screw (GA)	Southern Pine, (SG=0.55)	Head/S.S./Jamb/P Jamb	3/16"	1.625"
C	1/4" DeWalt Ultracote	Concrete, (min. 3 ksi)	Head/Sill/Jamb	1-1/2"	1.625"
			P Jamb	1"	1.375"
		Unreinforced CMU, (ASTM C-90)	Jamb/P Jamb	1"	1.1/4"
	1/4" DeWalt Dtch 410 S.S. Crete/Tite	Unreinforced CMU, (ASTM C-90)	Jamb/P Jamb	1.3/4"	1.1/4"
		Concrete, (min. 3.35 ksi)	Head/Sill/Jamb	1.3/16"	1.625"
			P Jamb	1"	1.375"
	1/4" DeWalt Dtch 410 S.S. Aggro Grip	Concrete, (min. 3.35 ksi)	Head/S.S./Jamb/P Jamb	1.1/2"	1.625"
		Unreinforced CMU, (ASTM C-90)	Jamb/P Jamb	2"	1.1/4"
		Southern Pine, (SG=0.55)	Head/S.S./Jamb/P Jamb	1"	1.375"
D	1/4" DeWalt Ultracote+	Concrete, (min. 3 ksi)	Head/S.S./Jamb/P Jamb	2-1/2"	1.625"
		Unreinforced CMU, (ASTM C-90)	Jamb/P Jamb	2-1/2"	1.1/4"
	1/4" DeWalt Dtch 410 S.S. Crete/Tite	Concrete, (min. 3.35 ksi)	Head/Sill/Jamb	2-1/2"	1.625"
			P Jamb	2-1/2"	1.375"
		Unreinforced CMU, (ASTM C-90)	Jamb/P Jamb	2-1/2"	1.1/4"

1) WHERE SUBSTRATE CONDITIONS REQUIRE ANCHORAGE FROM MORE THAN ONE OF THE ANCHOR GROUPS ABOVE, CHOOSE THE ANCHOR GROUP OF THE LOWEST LETTER FOR ALL TABLES IN THIS APPROVAL.
2) ALL ANCHOR HEAD TYPES ARE APPLICABLE.
3) HOLLOW BLOCK (HCMU) MAY ALSO BE USED IN FILLED BLOCK APPLICATIONS.
4) ANCHORS MUST BE OF SUFFICIENT LENGTH TO PROVIDE A MINIMUM 1.5 THREADS TO PENETRATE METAL SUBSTRATE.

ANCHOR NOTES:

1) SEE TABLE A ON THIS SHEET FOR EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS. FOR OTHER SUBSTRATE APPLICATIONS SEE TABLE A ON THIS SHEET.

2) WOOD BUCKS DEPICTED AS (3 ARE LESS THAN 1-1/2" THICK, PROPERLY SECURED. (4) WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE OR CMU. WOOD BUCKS DEPICTED AS (5) ARE 1-1/2" THICK OR GREATER. (4) AND (5) BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD & TO BE REVIEWED BY THE BUILDING OFFICIAL.

3) IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MIN. 1/4" THICK & 3400 PSI MIN. (SOME BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR WASTE IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

INSTRUCTIONS:

1) KNOWING THE REQUIRED ALLOWABLE STRESS DESIGN PRESSURE OF THE OPENING, THE ANCHOR REQUIREMENTS FOR THE SLIDING GLASS DOORS MAY BE DETERMINED FROM DESIGN PRESSURE TABLES 1, 2 OR 3, DEPENDING ON THE GLAZING CONFIGURATION.

2) LOCATE THE SLIDING GLASS DOOR SIZE ON THE TABLE USING THE FRAME HEIGHT AND THE NOMINAL PANEL WIDTH. IF YOUR EXACT SIZE IS NOT LISTED, ROUND UP TO THE NEXT GREATER LISTED WIDTH AND/OR HEIGHT.

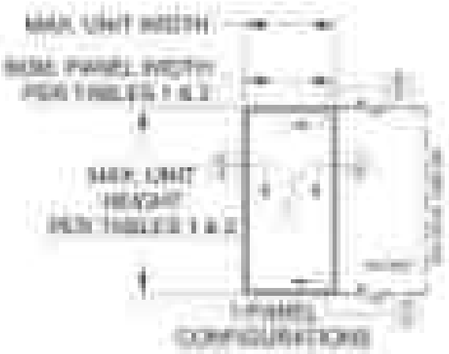
3) CHOOSE WHICH ANCHOR GROUP (A-D) IS MOST APPLICABLE. ANCHORS ARE DEFINED IN TABLE A, THIS SHEET, ALONG WITH THE CORRESPONDING SUBSTRATE, MINIMUM EMBEDMENT AND MINIMUM EDGE DISTANCE.

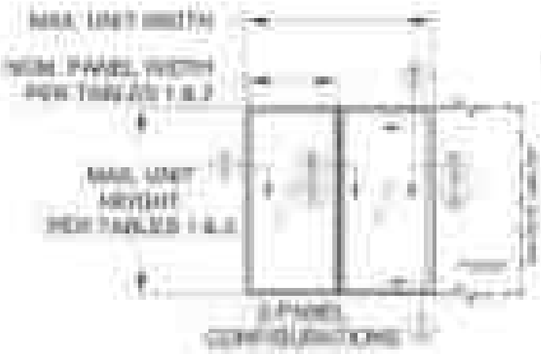
4) FROM THE DESIGN PRESSURE TABLE(S) (TABLES 1, 2 OR 3), VERIFY THAT THE DESIGN PRESSURE REQUIRED FOR THE OPENING IS MET OR EXCEEDED. USE THE ANCHOR QUANTITIES SHOWN.

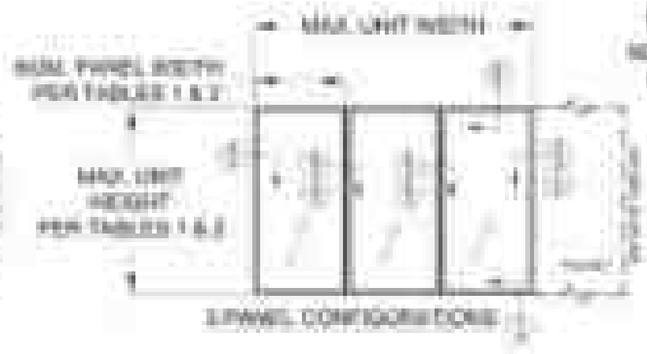
5) INSTALL AS PER THE GUIDELINES OF THIS SHEET. NOT. ADDITIONALLY, SEE THE EXAMPLE ON SHEET 11.

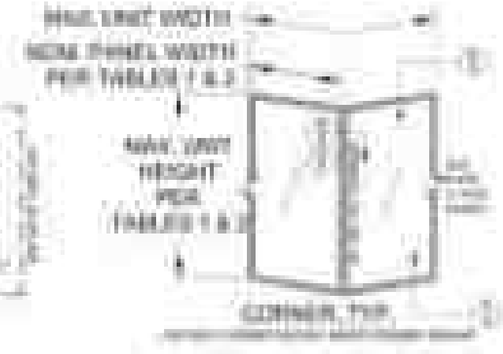
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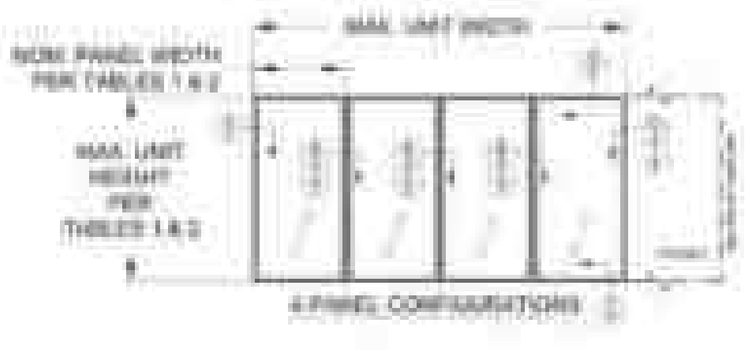
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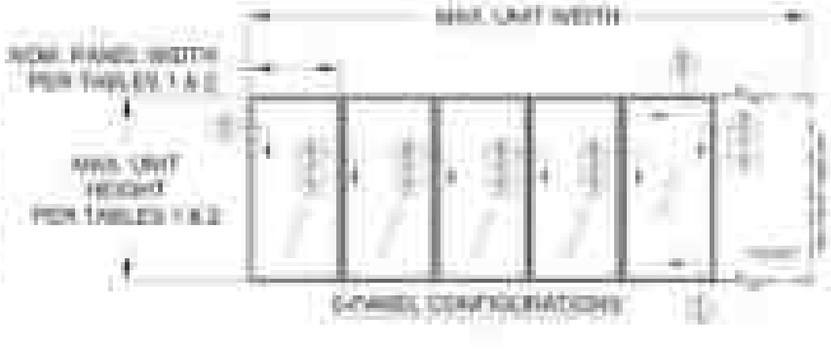








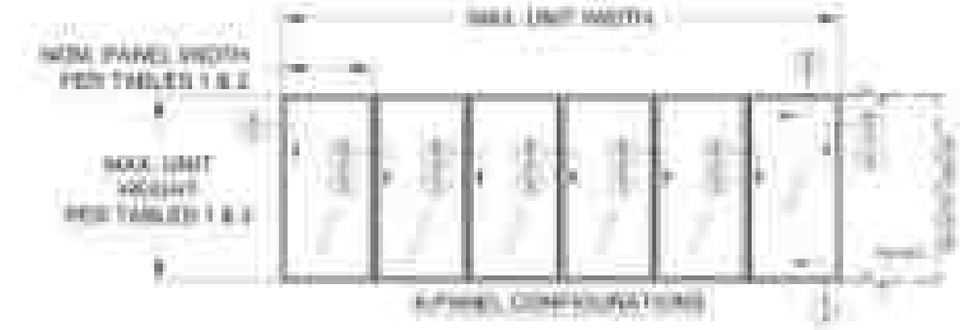




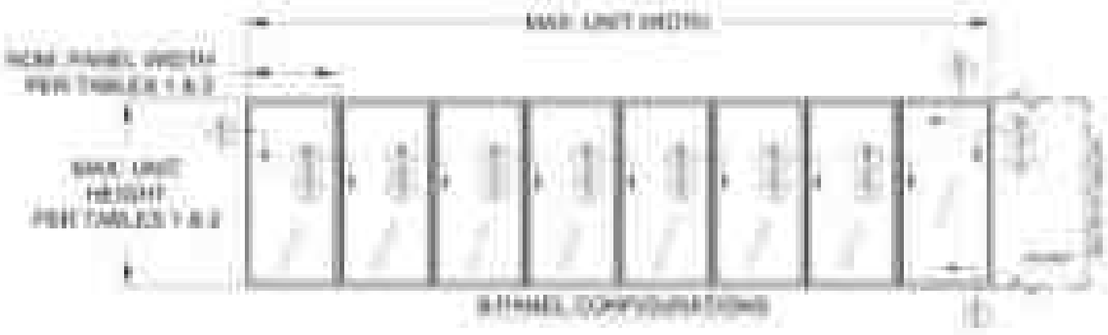
DET XX-LETTER

SHEET NUMBER

O.D. WIDTH = NOM. PANEL WIDTH + X-X/8"
NOM. PANEL WIDTH = PANEL WIDTH + 1-1/16"
O.D. HEIGHT = DOOR HEIGHT + 1'-1 1/8"
PANEL HEIGHT = DOOR HEIGHT + 2-1/2"







CONFIGURATIONS NOTES:

1) ALL CONFIGURATIONS SHOWN ARE ALSO AVAILABLE AS POCKET CONFIGURATIONS AT EITHER OR BOTH JAMB LOCATIONS. EXAMPLE: 4-PANEL XOOO IN POCKET (p) CONFIGURATION CAN BE pXOOOp, pXOOOr OR XOOOp. OOOO IN POCKET CONFIGURATION CAN BE OOOOp

2) 90° & 135° CORNER CONFIGURATIONS ARE A COMBINATION OF ANY 2 STRAIGHT CONFIGURATIONS.

3) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

4) FOR NOM. PANEL WIDTH, SEE TABLES 1, 2 & 3.

5) MAX. ALLOWABLE FRAME SQUARE FOOTAGE = XX.XXX FT²

"X" = OPERABLE PANEL
"O" = INOPERABLE PANEL
"p" = POCKET

ACT

REGISTERED PROFESSIONAL ENGINEER

DETAIL A1

DETAIL B1

DETAIL C1

DETAIL D1

CONCRETE/CMU PER ANCHOR REQUIREMENT

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1 & NOTE 3 BELOW

DAYLIGHT OPENING WIDTH

EDGE DISTANCE

ANCHOR PLATE AT EVERY ANCHOR LOCATION

(3) WOOD BLOCK(TYP.) OR FRAMING, SEE ANCHOR NOTE 3, SHEET 1

HORIZONTAL SECTION (DOOR SHOWN)

DETAIL A2

DETAIL C2

DETAIL D2

DETAIL B2

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1 & NOTE 3 BELOW

CONCRETE/CMU PER ANCHOR REQUIREMENT

FIXED PANEL CLIP & ANCHORS, SEE DETAIL SHEET 19

HORIZONTAL SECTION (NO SHOWN)

NOTES:
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) SEE SHEET 14 FOR ANCHOR LOCATION & SPACING. FOR ANCHOR QUANTITIES, SEE TABLES 1, 2 & 3.
4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.
5) PANEL WIDTH DOES NOT INCLUDE INTERLOCK OR ASTRAGAL ADD-ON.
6) SEE TABLES 1, 2 & 3 FOR REINFORCEMENT REQUIREMENTS. ALL REINFORCEMENTS ARE APPROXIMATELY THE FULL LENGTH OF THE EXTRUSION. REFER TO TEST REPORTS FOR EXACT DIMENSIONS.
7) SEE SHEET 20 FOR SCREEN DETAILS.

ASTRAGAL MAY BE INSTALLED IN EITHER INTERIOR OR EXTERIOR DIRECTION. ALL PARTS IDENTICAL

O.D. WIDTH = NOM. PANEL WIDTH + 6-1/2"
O.D. HEIGHT = DOOR HEIGHT + 11-1/8"
PANEL HEIGHT = DOOR HEIGHT - 2-1/2"

DETAIL E1

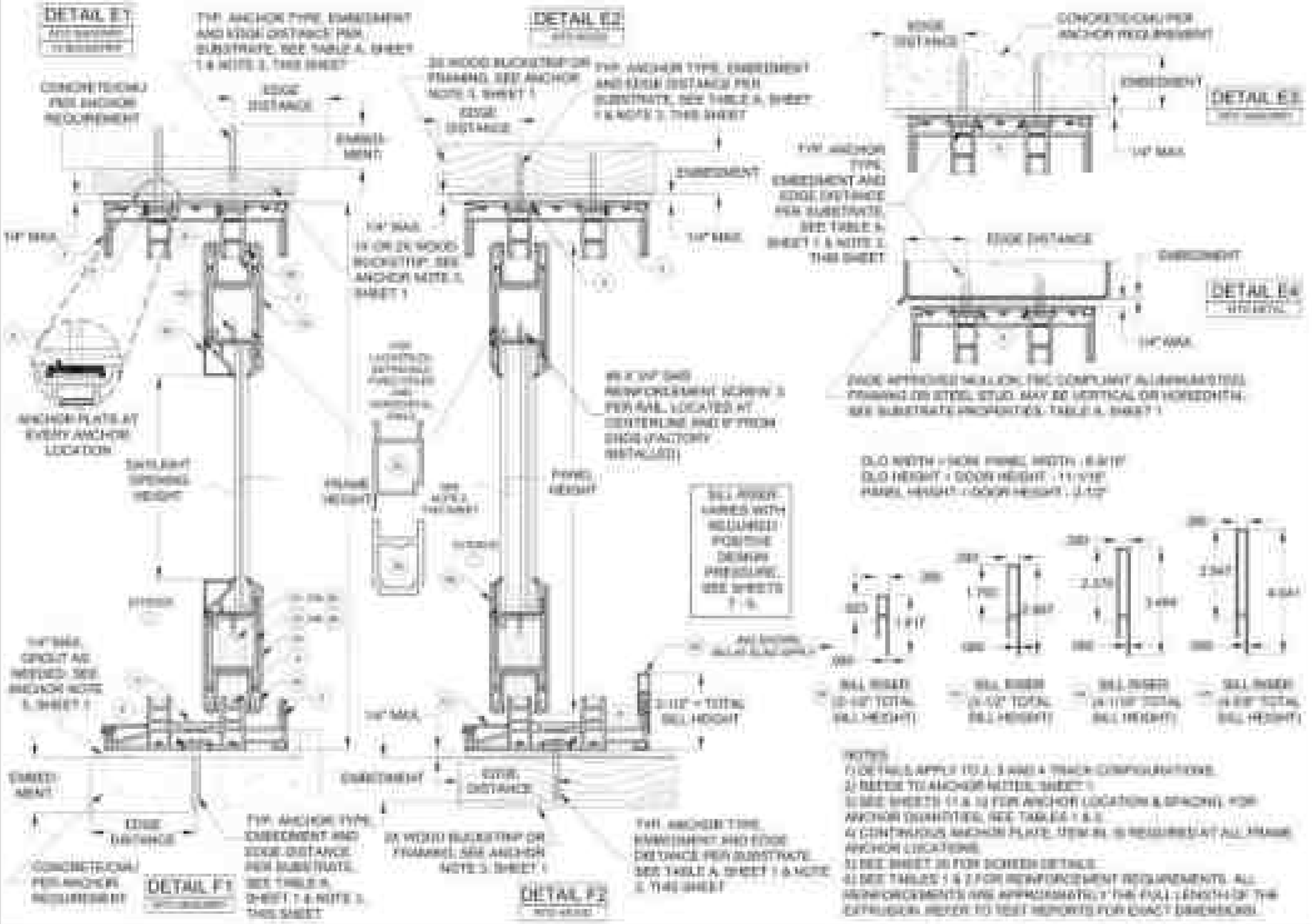
DETAIL E2

DETAIL E3

DETAIL E4

DETAIL F1

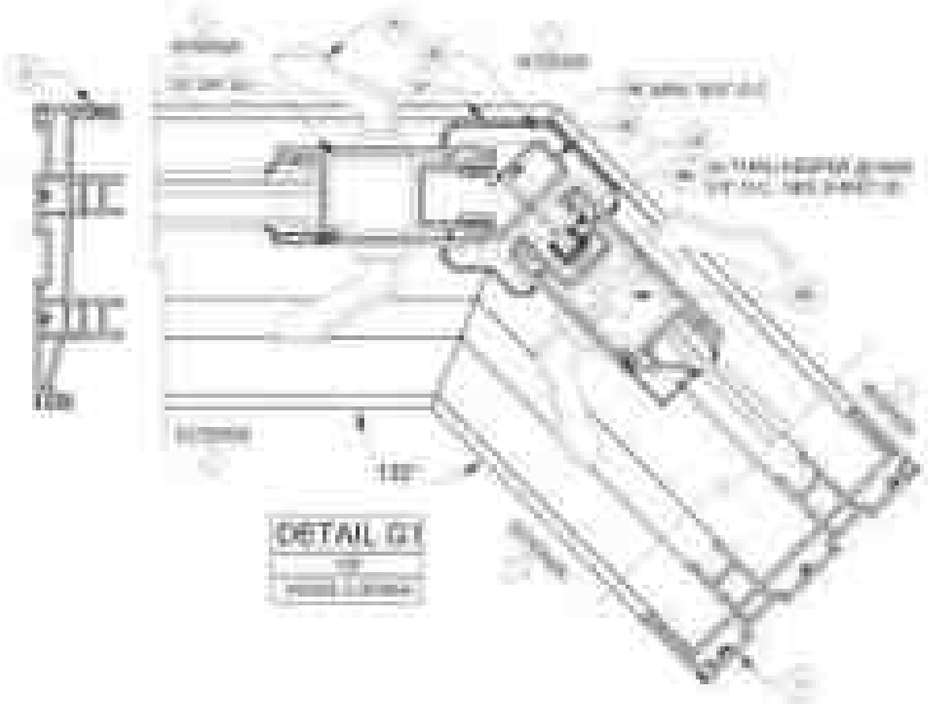
DETAIL F2



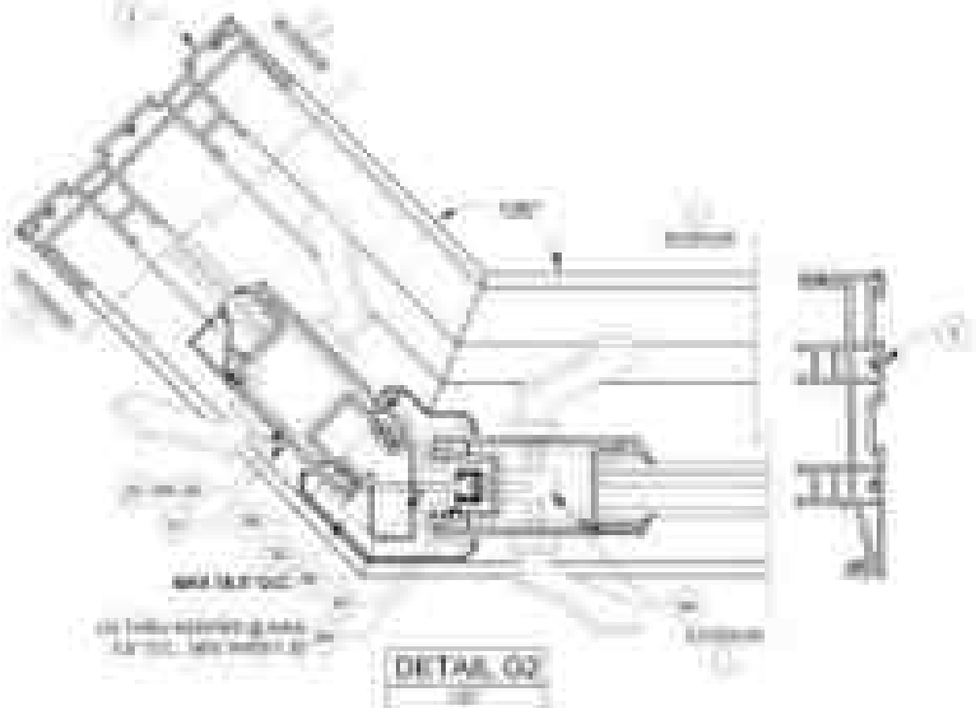
NOTES:
1) DETAILS APPLY TO U, 3 AND 4 TRACK CONFIGURATIONS.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) SEE SHEETS 11 & 12 FOR ANCHOR LOCATION & SPACING. FOR ANCHOR QUANTITIES, SEE TABLES 1 & 2.
4) CONTINUOUS ANCHOR PLATE, ITEM #6, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.
5) SEE SHEET 10 FOR SCREEN DETAILS.
6) SEE TABLES 1 & 2 FOR REINFORCEMENT REQUIREMENTS. ALL REINFORCEMENTS ARE APPROXIMATELY THE FULL LENGTH OF THE EXTRUSION. REFER TO TEST REPORTS FOR EXACT DIMENSIONS.

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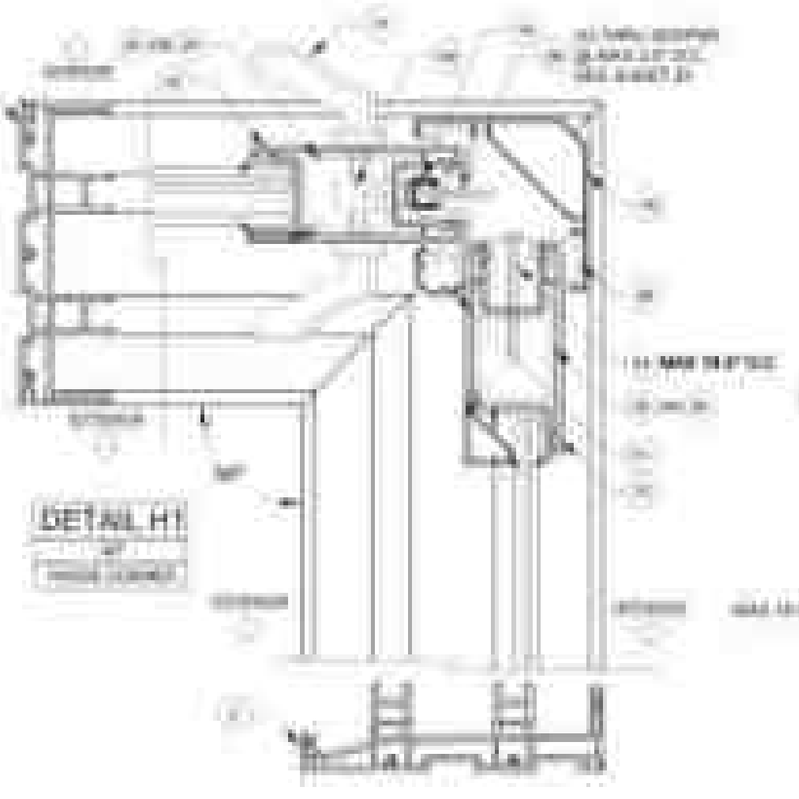
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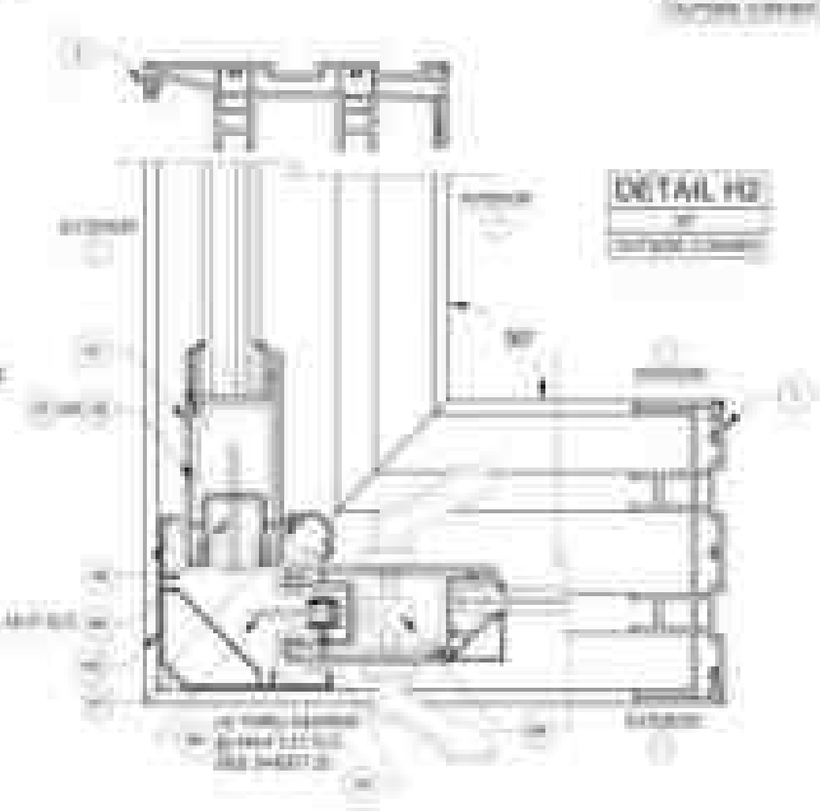
DETAIL G1



DETAIL G2



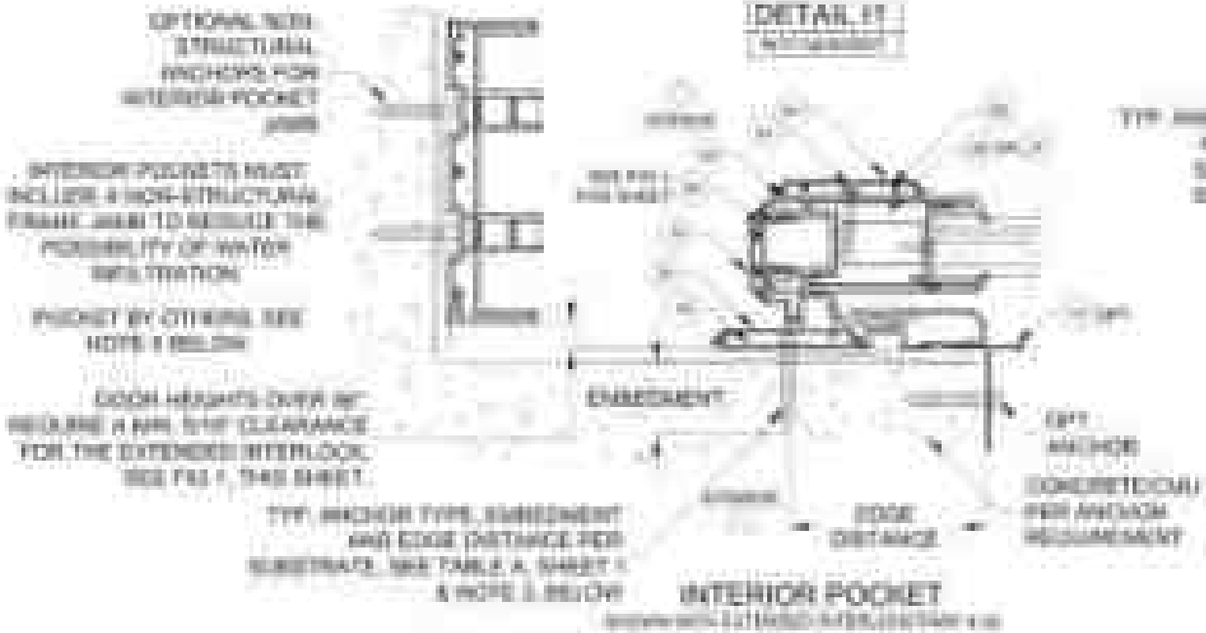
DETAIL H1

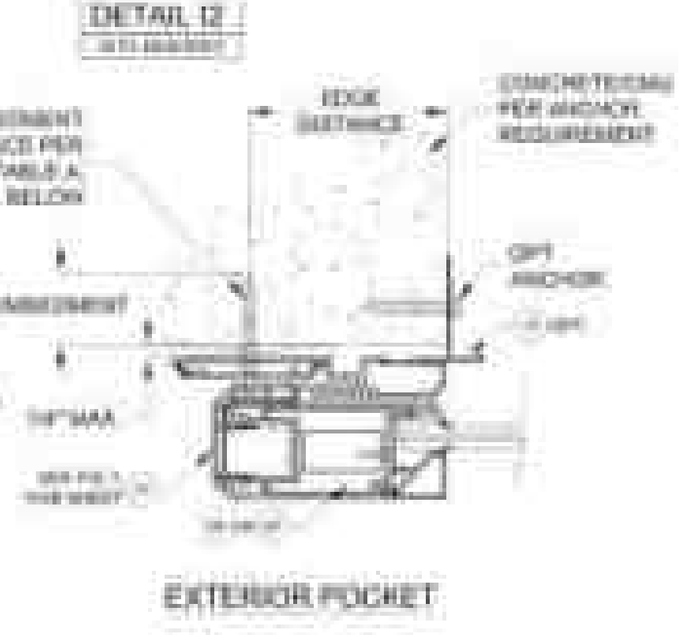


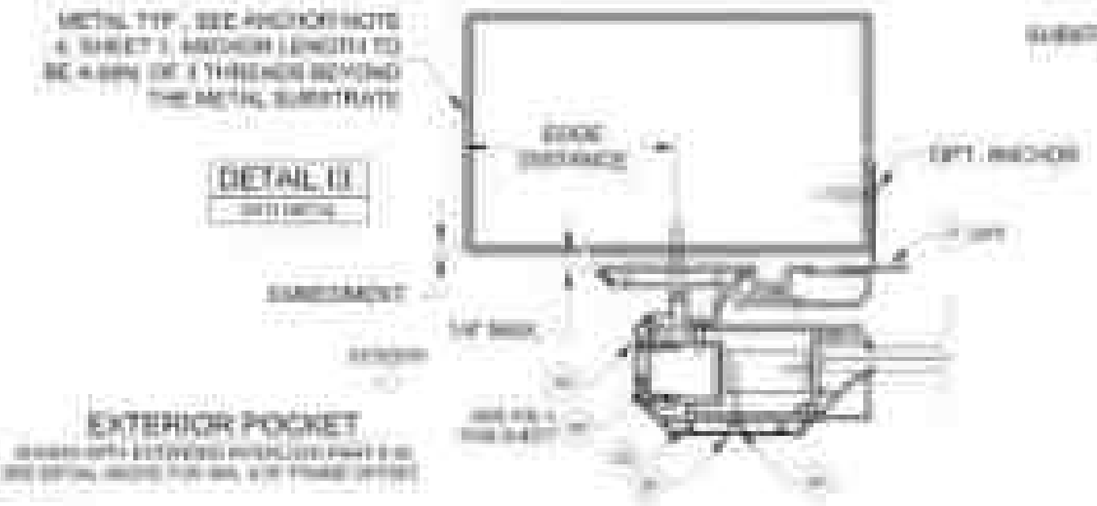
DETAIL H2

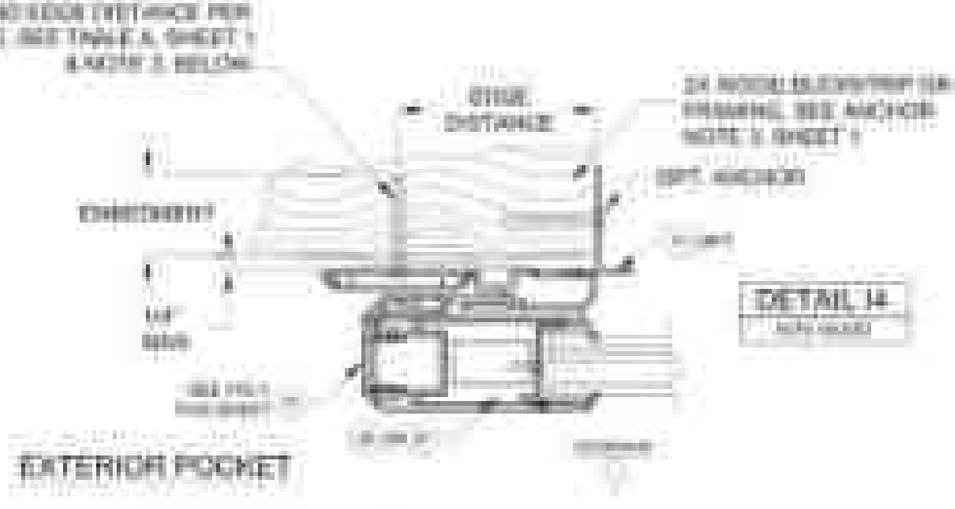
NOTES
1) DETAILS APPLY TO E, LAND A TRACK CONFIGURATIONS.
2) SEE SHEETS 15 & 16 FOR ANCHOR LOCATION & SPACING FOR ANCHOR QUANTITIES, SEE TABLES 1, 2 & 3.
3) CORNER RETAINING MAY BE EITHER TO THE INTERIOR OR EXTERIOR, DEPENDING ON CONFIGURATION.

PCI









NOTES:
1) DETAILS II(P), I 7(1), 2, AND 4 TRACK CONFIGURATIONS.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) SEE SHEET (1) FOR ANCHOR LOCATION & SPACING. FOR ANCHOR QUANTITIES, SEE TABLES 1, 2 & 3.
4) SEE TABLES 1, 2 & 3 FOR REINFORCEMENT REQUIREMENTS.
5) INTERIOR OR EXTERIOR POCKETS APPLICABLE FOR ALL INSTALLATION METHODS.
6) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.



PGT

TABLE 1

Design Pressure (DP) and Anchor Quantities Required,

For all exposed configurations, to Sheet 2

Door Dim. Table (In. Opening Size)			Door Unit Weight											
Cases Types 1, 1A, 3, 3A or 7			80"				84"				96"			
Acrylic Glass Panel Weight: 4LB			68.5 LBS (DLO) Weight				72.7 LBS (DLO) Weight				86.1 LBS (DLO) Weight			
Acrylic Reinforcement: 4LB or 10LB			Anchor Quantities				Anchor Quantities				Anchor Quantities			
Bolt Interface Reinforcement: 4LB			A	B	C	D	A	B	C	D	A	B	C	D
24"	70.5LBS (DLO) 1/4LBS	Design Pressure	+30 / -40 psf				+28 / -40 psf				+22 / -40 psf			
		Header/Sill	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1
		Jamb	5	5	5	5	5	5	5	5	5	5	5	5
		R-Jamb	7	7	7	7	7	7	7	7	8	8	8	8
30"	73.5LBS (DLO) 1/4LBS	Design Pressure	+30 / -40 psf				+28 / -40 psf				+22 / -40 psf			
		Header/Sill	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1
		Jamb	5	5	5	5	5	5	5	5	5	5	5	5
		R-Jamb	7	7	7	7	7	7	7	7	8	8	8	8
36"	76.5LBS (DLO) 1/4LBS	Design Pressure	+30 / -40 psf				+28 / -40 psf				+22 / -40 psf			
		Header/Sill	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1
		Jamb	5	5	5	5	5	5	5	5	5	5	5	5
		R-Jamb	7	7	7	7	7	7	7	7	8	8	8	8
42"	84LBS (DLO) 1/4LBS	Design Pressure	+30 / -40 psf				+28 / -40 psf				+22 / -40 psf			
		Header/Sill	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1
		Jamb	5	5	5	5	5	5	5	5	5	5	5	5
		R-Jamb	7	7	7	7	7	7	7	7	8	8	8	8
48"	89.5LBS (DLO) 1/4LBS	Design Pressure	+30 / -40 psf				+28 / -40 psf				+22 / -40 psf			
		Header/Sill	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	CH-1
		Jamb	5	5	5	5	5	5	5	5	5	5	5	5
		R-Jamb	7	7	7	7	7	7	7	7	8	8	8	8

USED IN EXAMPLE ON SHEET 6

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE USING THE ANCHOR QUANTITIES LISTED BELOW. SEE TABLE A, SHEET 1 FOR COMPLETE ANCHOR LIMITATIONS.

THE MAXIMUM DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM POSITIVE DP DUE TO THE SILL HEIGHT MUST ALSO BE CONSIDERED. SEE TABLE B1, THIS SHEET

OF ANCHORS THROUGH THE HEAD & SILL. (EX. FOR CH-1, 3 ANCHORS CLUSTERED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

TOTAL # OF ANCHORS THROUGH THE JAMB

THE # OF ANCHORS REQUIRED THROUGH THE P-HOOK PERPENDICULAR TO THE GLASS

TABLE NOTES:

1) IF WATER INFILTRATION RESISTANCE IS REQUIRED, THE LESSER VALUES OF EITHER TABLE 1 AND TABLE B1 DETERMINES THE WATER LIMITED (+) DP. WATER TEST PRESSURE IS 15% OF THAT VALUE.

2) IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1, A SILL RISER IS NOT REQUIRED. IN THAT CASE, <DP'S SHOWN IN TABLE 1 MAY BE USED.

3) SEE SILL RISER TYPES ON SHEET 4. SEE SHEETS 13-17 FOR ANCHOR LOCATION & SPACING.

4) SHEET APPLIES TO 2, 3 AND 4 TRACK CONFIGURATIONS.

5) REFER TO ANCHOR NOTES, SHEET 1.

SILL WIDTH = NOM. PANEL WIDTH - 3.25"
SILL HEIGHT = DOOR HEIGHT - 11-1/16"
PANEL HEIGHT = DOOR HEIGHT - 8.10"

TABLE B1:

Water Limited (+) Design Pressure		
Door Panel	Nom. Sill Height	Max. (+) DP Allowed
Typical	3 1/2-7/8"	See Note 2
60"	2 1/2"	+36.7 psf
60"	3 1/2"	+60.0 psf
96"	4-1/2"	+60.0 psf
96"	5-5/8"	+60.0 psf

FIG 1

OH LENGTH

OVERHANG HEIGHT

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

ACT

Table 2

Design Pressure (DP) and Anchor Quantities Required

for all approved configurations on Sheet 2

Door Size (after [1]):
Glass Types 2, 4, 5 or 6
Average Reinforcement Rib
(one side Reinforcement): NO
NO side Rails Reinforcement: NO

Glass Width

		60" 60-1/8" (5'-0 1/8") Height				84" 84-1/8" (7'-0 1/8") Height				96" 96-1/8" (8'-0 1/8") Height				120" 120-1/8" (10'-0 1/8") Height				144" 144-1/8" (12'-0 1/8") Height			
		Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group			
		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
24" 10-5/8" DLO (Wide)	Design Pressure	+150 / -150 psf				+150 / -150 psf				+150 / -150 psf				+150 / -150 psf				+90 / -90 psf			
	Head/Sill	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1
	Jamb	5	4	4	5	5	5	4	5	5	5	4	5	5	5	4	5	5	5	4	5
	P-Value	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	10	10	10	10
30" 13-1/2" DLO (Wide)	Design Pressure	+150 / -150 psf				+150 / -150 psf				+150 / -150 psf				+150 / -150 psf				+90 / -90 psf			
	Head/Sill	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1
	Jamb	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	P-Value	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	10	10	10	10
36" 16-5/8" DLO (Wide)	Design Pressure	+150 / -150 psf				+150 / -150 psf				+150 / -150 psf				+150 / -150 psf				+90 / -90 psf			
	Head/Sill	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1
	Jamb	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	P-Value	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	10	10	10	10
42" 19-1/2" DLO (Wide)	Design Pressure	+150 / -150 psf				+150 / -150 psf				+150 / -150 psf				+150 / -150 psf				+90 / -90 psf			
	Head/Sill	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1
	Jamb	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	P-Value	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	10	10	10	10
48" 22-5/8" DLO (Wide)	Design Pressure	+150 / -150 psf				+150 / -150 psf				+150 / -150 psf				+150 / -150 psf				+90 / -90 psf			
	Head/Sill	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1	CW+1
	Jamb	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	P-Value	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	10	10	10	10

[1] = 100.0 PSF FOR ANCHOR GROUPS B, C & D.

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE USING THE ANCHOR QUANTITIES LISTED BELOW. SEE TABLE A, SHEET 1 FOR COMPLETE ANCHOR LIMITATIONS.

THE MINIMUM DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM POSITIVE DP DUE TO THE SILL HEIGHT MUST ALSO BE CONSIDERED. SEE TABLE 3(a), THIS SHEET.

OF ANCHORS THROUGH THE HEAD & SILL (EX. FOR CW+1, 3 ANCHORS CLUSTERED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

TOTAL # OF ANCHORS THROUGH THE JAMB.

THE # OF ANCHORS REQUIRED THROUGH THE P-VALUE PERPENDICULAR TO THE GLASS.

TABLE NOTES:

1) IF WATER INFILTRATION RESISTANCE IS REQUIRED, THE LESSER VALUES OF EITHER TABLE 2 AND TABLE 3(a) DETERMINES THE WATER LIMITED (+) DP. WATER TEST PRESSURE IS 15% OF THAT VALUE.

2) IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1, A SILL RISER IS NOT REQUIRED IN THAT CASE, <DP's SHOWN IN TABLE 3 MAY BE USED.

3) SEE SILL RISER TYPES ON SHEET 4. SEE SHEETS 10-11 FOR ANCHOR LOCATION & SPACING.

4) SHEET APPLIES TO 2, 3, AND 4 TRACK CONFIGURATIONS.

5) REFER TO ANCHOR NOTES, SHEET 1.

SILL WIDTH = INSIDE PANEL WIDTH - 3 3/8"
SILL HEIGHT = DOOR HEIGHT - 11 1/16"
PANEL HEIGHT = DOOR HEIGHT - 2 1/2"

TABLE 3(a):

Water Limited (+) Design Pressure		
"Sill Riser"	Nom. Sill Height	Max. (+) DP Allowed
None	1-11/16"	See Note 2
-A2	2-1/2"	+90.0 psf
-A3	3-1/2"	+90.0 psf
-A4	4-1/16"	+90.0 psf
-A5	4.625"	+150.0 psf

FIG 1

DOOR 4 DESIGNS INSTALLED WHERE THE OVERHANG (OH) LENGTH IS EQUAL TO OR GREATER THAN THE OVERHANG HEIGHT IS EXEMPTED FROM WATER INFILTRATION RESISTANCE.



TABLE 3

Design Pressure (DP) and Anchor Quantities Required, (for all approved configurations on Sheet 2)

Max DP+ (psf)	Glass Type, S or A	Average Performance (DP)	Laminated Glass Thickness, min.	Wall Stud Spacing, max.	Wall Stud Height	Header Height	Sill Height	Header Design	Sill Design	Jamb Design	Anchor Type	Design Pressure	Header/Sill	Jamb	Fin Area
30	S or A	30	9/16"	16"	10'-0"	10'-0"	0'-0"	Double Stud	Double Stud	Double Stud	Anchor Type A	+30.0 / -30.0 psf	4	4	1
40	S or A	40	9/16"	16"	10'-0"	10'-0"	0'-0"	Double Stud	Double Stud	Double Stud	Anchor Type A	+40.0 / -40.0 psf	4	4	1
50	S or A	50	9/16"	16"	10'-0"	10'-0"	0'-0"	Double Stud	Double Stud	Double Stud	Anchor Type A	+50.0 / -50.0 psf	4	4	1
60	S or A	60	9/16"	16"	10'-0"	10'-0"	0'-0"	Double Stud	Double Stud	Double Stud	Anchor Type A	+60.0 / -60.0 psf	4	4	1
70	S or A	70	9/16"	16"	10'-0"	10'-0"	0'-0"	Double Stud	Double Stud	Double Stud	Anchor Type A	+70.0 / -70.0 psf	4	4	1

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE USING THE ANCHOR QUANTITIES LISTED BELOW. SEE TABLE A, SHEET 1 FOR COMPLETE ANCHOR LIMITATIONS.

THE MINIMUM DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM POSITIVE DP DUE TO THE SILL HEIGHT MUST ALSO BE CONSIDERED. SEE TABLE B2, THIS SHEET.

OF ANCHORS THROUGH THE HEAD & SILL (F3). FOR 2.0+1.5 ANCHORS CLUSTERED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

TOTAL # OF ANCHORS THROUGH THE JAMB

THE # OF ANCHORS REQUIRED THROUGH THE FIN/DR. PERPENDICULAR TO THE GLASS

TABLE NOTES:

1) IF WATER INFILTRATION RESISTANCE IS REQUIRED, THE LESSER VALUES OF EITHER TABLE 3 AND TABLE B2 DETERMINES THE WATER LIMITED (+) DP. WATER TEST PRESSURE IS 15% OF THAT VALUE.

2) IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1, A SILL RISER IS NOT REQUIRED IN THAT CASE, <DP'S SHOWN IN TABLE 3 MAY BE USED.

3) SEE SILL RISER TYPES ON SHEET 4. SEE SHEETS 13-17 FOR ANCHOR LOCATION & SPACING.

4) SHEET APPLIES TO 2, 3 AND 4 TRACK CONFIGURATIONS.

5) REFER TO ANCHOR NOTES, SHEET 1.

SILL WIDTH = NOM. PANEL WIDTH - 3 3/8"
SILL HEIGHT = DOOR HEIGHT - 11 1/16"
PANEL HEIGHT = DOOR HEIGHT - 2 1/2"

TABLE B2

DP Rated	Nom. Sill Height	Max. (+) DP Allowed
Type	1 1/16"	See Note 2
40	2 1/2"	+36.7 psf
50	3 1/2"	+45.5 psf
60	4 1/16"	+50.0 psf
70	4 5/16"	+52.2 psf

FIG 1

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

PGT

PGT INDUSTRIES, INC.
1070 TAMIAMI TRAIL NORTH
NOKOMIS, FLORIDA 34275
(941) 486-0594 FAX (941) 486-0577

PRODUCT APPROVAL
SLIDING GLASS DOOR
SINGLE HUNG WINDOW
SINGLE SLIDING WINDOW
FIXED WINDOW
SLIDING GLASS DOOR
SINGLE HUNG WINDOW
SINGLE SLIDING WINDOW
FIXED WINDOW

DESIGN PRESSURE RANGE
+50.0 PSF / -50.0 PSF
+60.0 PSF / -60.0 PSF
+70.0 PSF / -70.0 PSF

SCALE: NONE
DRAWN BY: [illegible]
DATE: 10/15/2021
REVISIONS
NO. DESCRIPTION DATE

TABLE 3
DESIGN PRESSURE (DP) AND ANCHOR QUANTITIES REQUIRED, (FOR ALL APPROVED CONFIGURATIONS ON SHEET 2)

SHEET NO. 5 OF 17 SHEETS

EXAMPLE:
3-PANEL, 2-TRACK STRAIGHT CONFIGURATION - FIXED INTERIOR MOUNT POCKET, 48" x 84" NOM. PANELS.
LAMINATED IG GLAZING ANCHOR GROUP A IN WOOD SUBSTRATE.
PROJECT DESIGN PRESSURE REQUIRED: +40.0 / -50.0 PSF



HEAD ANCHORAGE DETAILS
PXXX (3-TRACK)



SILL ANCHORAGE DETAILS
PXXX (3-TRACK)



P-HOOK ANCHORAGE DETAILS

JAMB ANCHORAGE DETAILS

1) KNOWING THE PRODUCT'S REQUIREMENTS, SCAN THROUGH TABLES 1, 2 & 3 FOR A DESIGN PRESSURE THAT MEETS OR EXCEEDS THE REQUIREMENT OF +40.0/-50.0 AT A NOM. PANEL SIZE OF 80" X 84". FROM TABLE 1, SHEET 5, THE DESIGN PRESSURE IS +40/-50 WHICH EXCEEDS THE PROJECT DRIVEN PRESSURE REQUIREMENTS.

FOR WOOD INSTALLATION USING #NY ANCHOR IN GROUP A (SEE TABLE 4), TABLE 1 SHOWS ANCHOR REQUIREMENTS OF:

2) ANCHOR LOCATION DETAILS CAN BE FOUND ON:
HEAD (CLUSTER ANCHORS): SHEET 10 FOR THE "CX" CLUSTER ANCHORS AT THE INTERLOCK/STRIKE JAMB.
HEAD (INTERMEDIATE ANCHORS): SHEET 10 FOR THE "+J ANCHORS AT THE MIDSPAN OF EACH PANEL.
SILL (CLUSTER ANCHORS): SHEET 12 FOR THE "CX" CLUSTER ANCHORS AT THE INTERLOCK/STRIKE JAMB.
SILL (INTERMEDIATE ANCHORS): SHEET 12 FOR THE "+J ANCHORS AT THE MIDSPAN OF EACH PANEL.
JAMB: 8 ANCHORS, SHEET 11 FOR GEN. LAYOUT.
P-HOOK: 7 ANCHORS, SHEET 10 FOR GENERAL LAYOUT

3) INSTALLATION DETAILS INTO WOOD CAN BE FOUND ON:
HEAD & SILL: SHEET 9
JAMB: SHEET 8
P-HOOK: SHEET 9

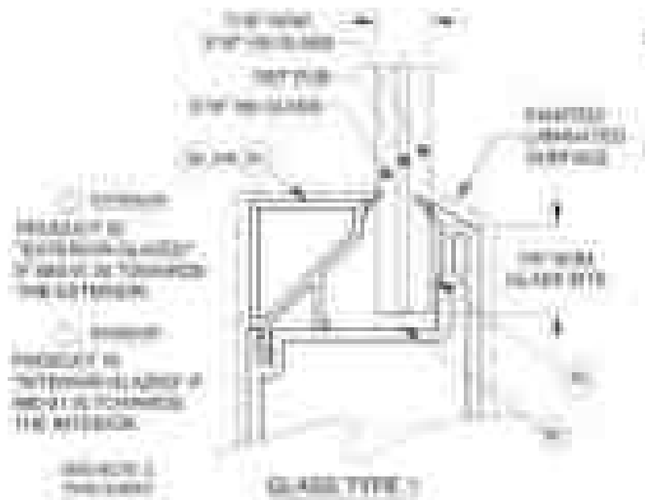
END PANEL ANCHOR EXCEPTION:



FOR SILL (SHOWN) AND HEAD, ANCHORS AT THE MIDPOINT OF END PANELS ARE ONLY REQUIRED IF THE O.C. DISTANCE TO THE NEXT ANCHOR CLUSTER IS OVER 25-5/8". OTHERWISE ANCHORS ARE NOT REQUIRED AS PER THE FIGURE ABOVE.

FOR PRODUCT REFERENCES, ALSO SEE:
A) SHEET 2 FOR ALLOWABLE CONFIGURATIONS AND EXACT LOCATIONS OF CROSS-SECTION DRAWINGS
B) SHEET 11 FOR SPECIFIC GLAZING TYPES
C) SHEET 18 FOR ALLOWABLE PANEL TYPES AND CALL NAMES
D) SHEETS 6 & 15 FOR EXTRUSION CROSS-SECTION DRAWINGS
E) SHEET 20 FOR INSTALLATION OF ADDITIONAL ACCESSORIES
F) SHEET 22 FOR A BILL OF MATERIALS

PGT



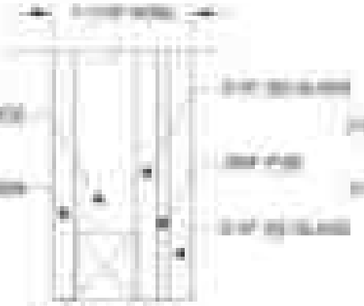
GLASS TYPE 1



GLASS TYPE 1A



GLASS TYPE 2



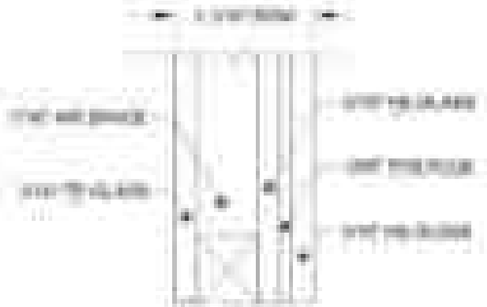
GLASS TYPE 2



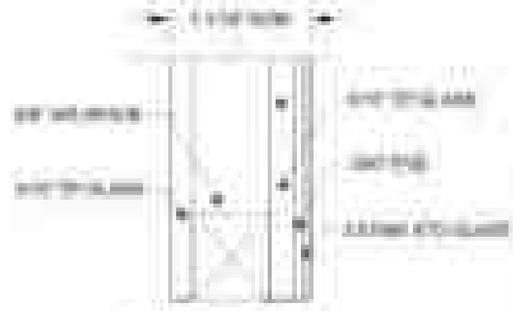
GLASS TYPE 2A



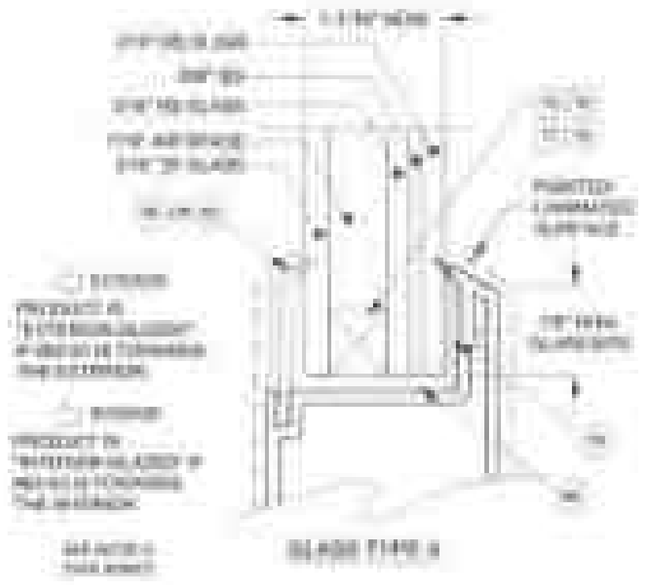
GLASS TYPE 3



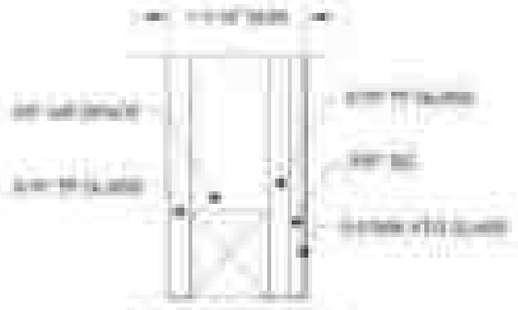
GLASS TYPE 5



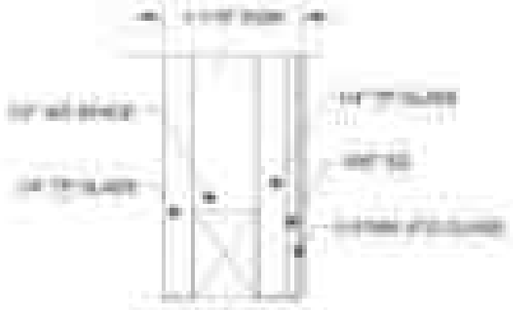
GLASS TYPE 7



GLASS TYPE 4



GLASS TYPE 8



GLASS TYPE 9

NOTES:
1) BACKSIDE(#4) SURFACES SHALL NOT BE PAINTED OR LAMINATED.

2) PRODUCT MAY BE EITHER INTERIOR OR EXTERIOR GLASS. PROVIDED THAT THE "#8" SURFACE OF A LAMINATED GLAZING UNIT IS ADHERED TO THE GLAZING LEG.

"AN" = ANNEALED
"HS" = HEAT STRENGTHENED
"FT" = TEMPERED
"PVB" = TROSIFOL® PVB INTERLAYER BY KURARAY AMERICA, INC.
"SG" = SENTRYGLAS® INTERLAYER BY EASTMAN AMERICA, INC.
"PVB FLEX" = MODIFIED TROSIFOL® PVB INTERLAYER BY KURARAY AMERICA, INC.

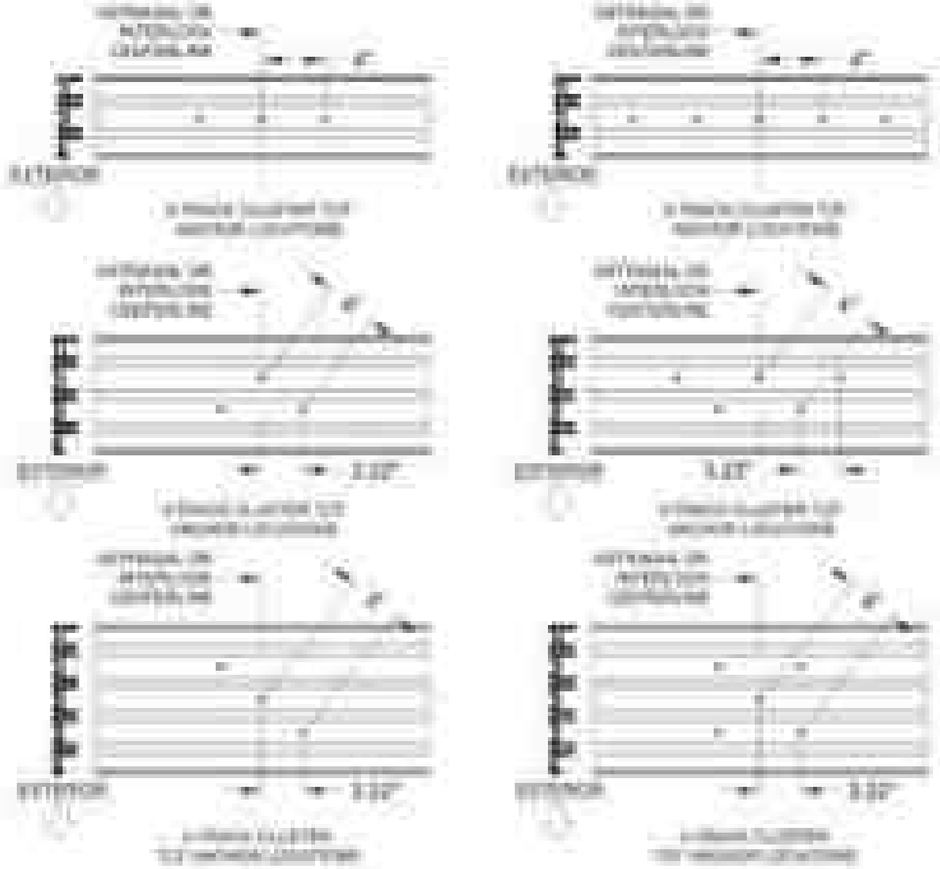
TABLE 8.11

Glass Type Mark	Description (Listed from interior to exterior)
1	
1A	
2	
2A	
3	
4	
5	
7	
8	
9	
10	
11	
12	

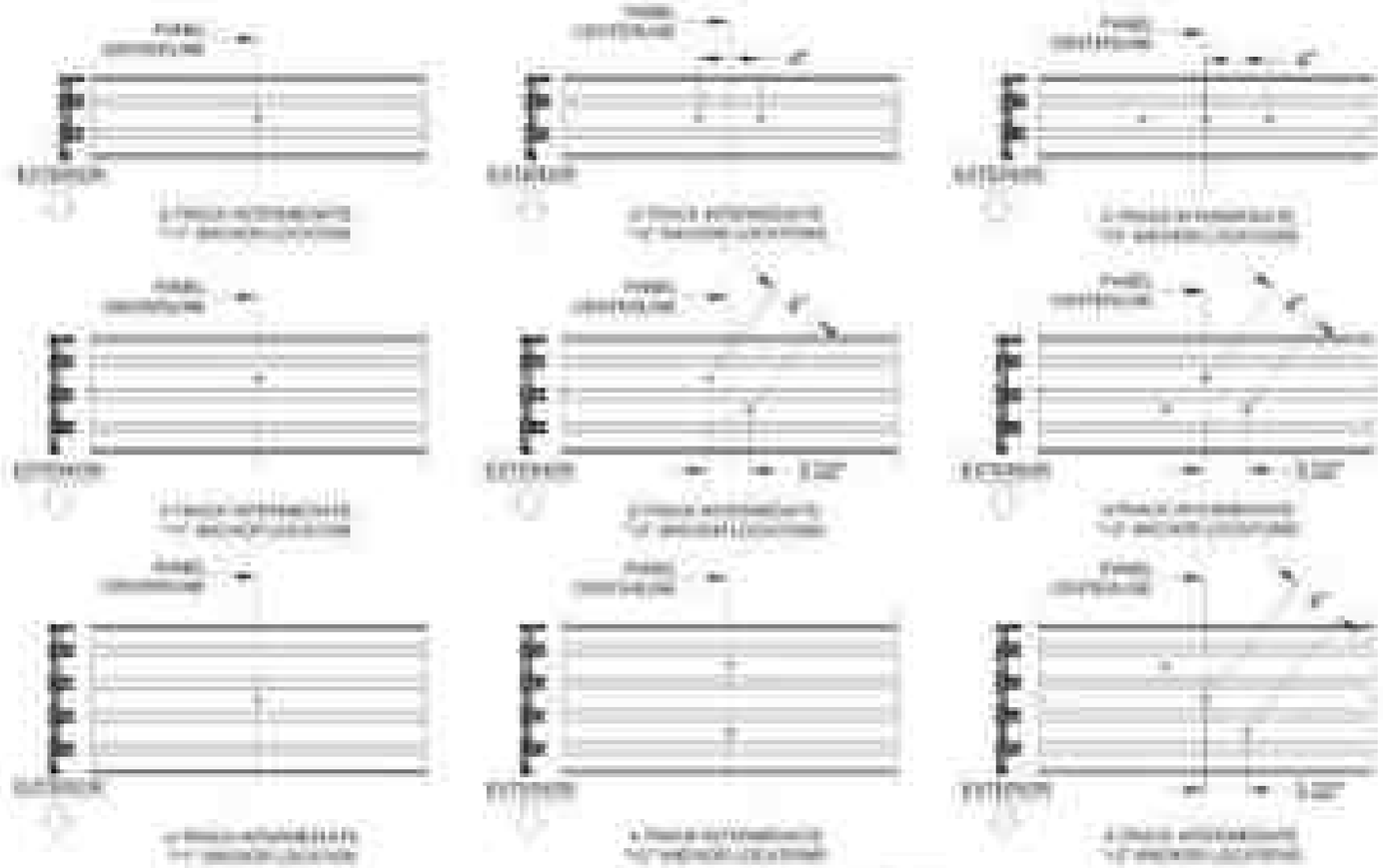
PGT

PROFESSIONAL ENGINEER

SILL CLUSTER ANCHORS LAYOUT:



SILL "+" INTERMEDIATE ANCHORS LAYOUT:



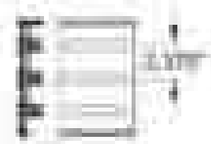
NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALL COVEZ.

2) TRACK TO TRACK DISTANCE IS 2.375" FOR ALL SILLS

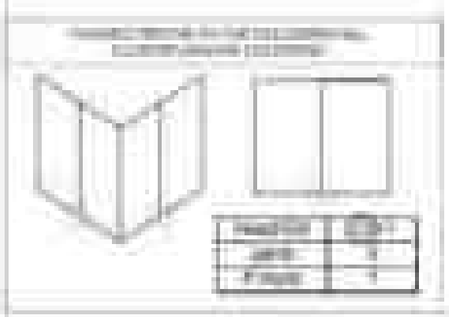


NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALL COVEZ.

2) TRACK TO TRACK DISTANCE IS 2.375" FOR ALL SILLS







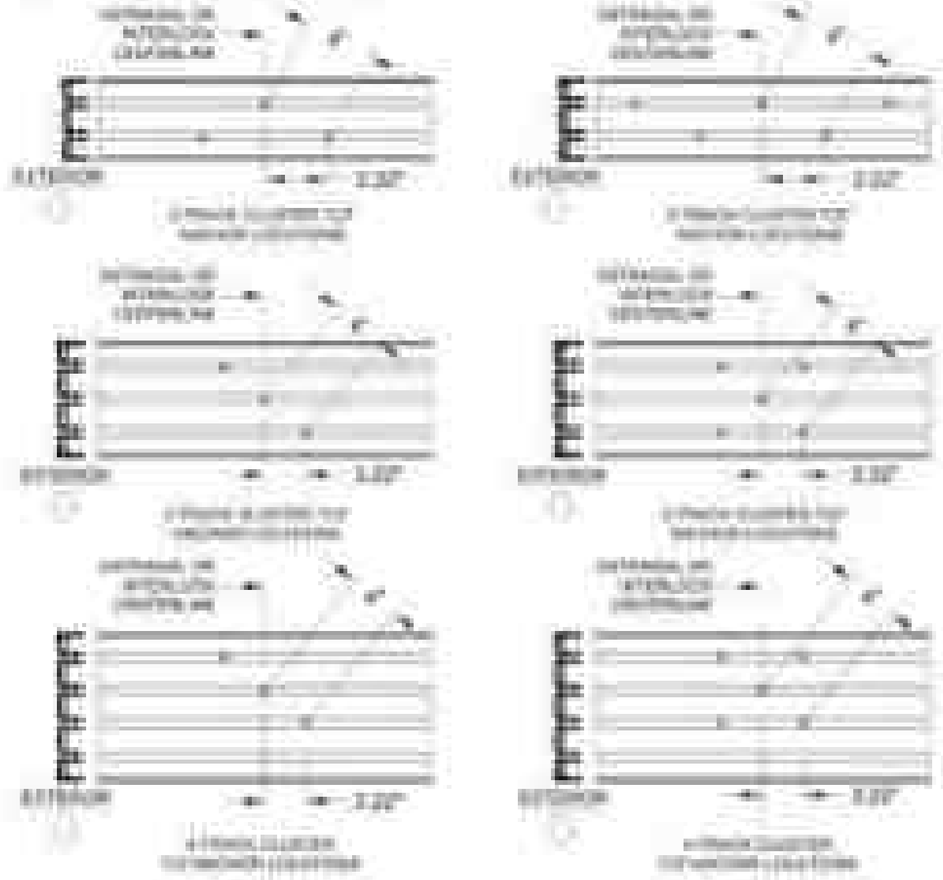
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VINYL SLIDING GLASS DOOR (LSV) | 1000211

ANCHOR LAYOUTS | A. MORLEFSIN

8/20/2020 | 12 OF 22 | SLIDINGTOPPALLM | A

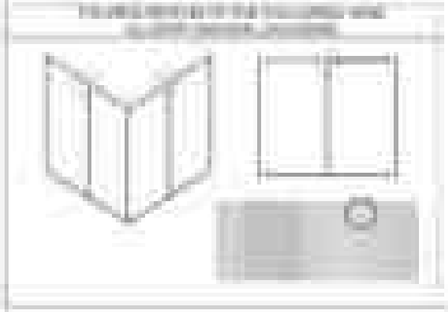
HEAD CLUSTER ANCHORS LAYOUT:



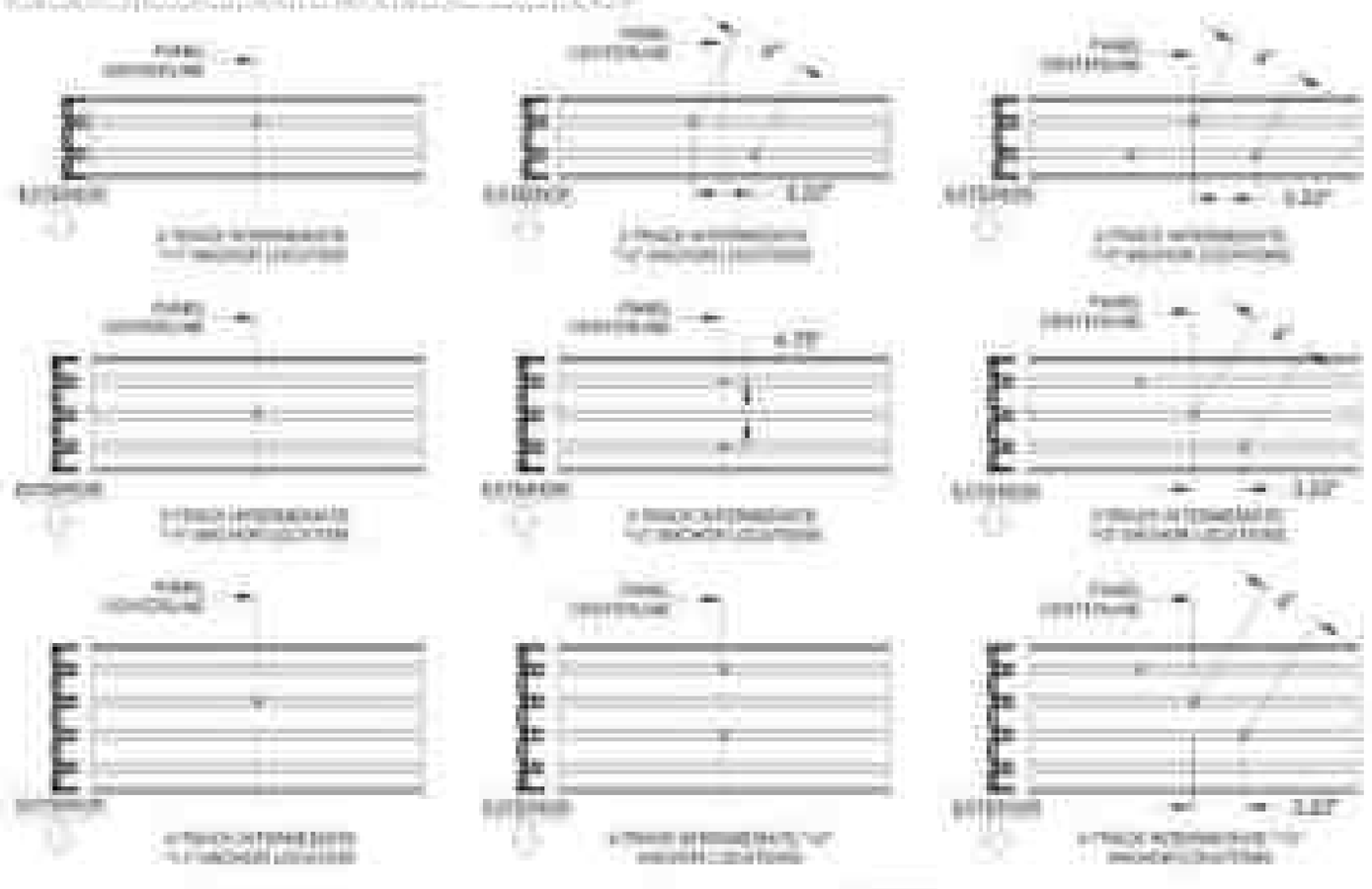
NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

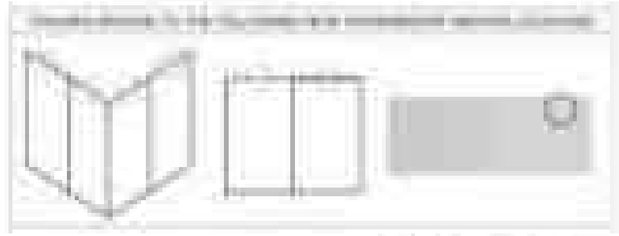
2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS





HEAD "V" INTERMEDIATE ANCHORS LAYOUT:





NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL SILLS



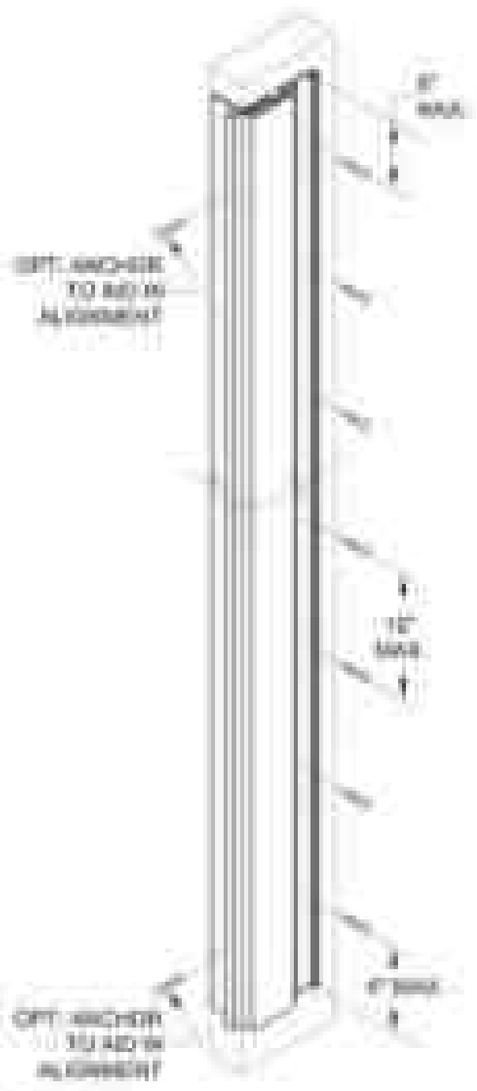
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VINYL SLIDING GLASS DOOR (LSS)

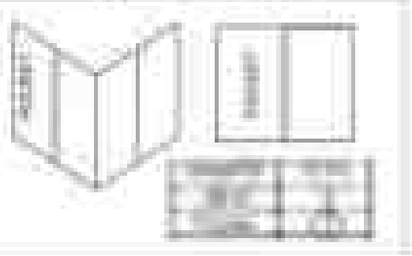
ANCHOR LAYOUTS

SCALE: NTS | 13 OF 22 | SUBSTRATE/ALL | A

P-HOOK ANCHORS LAYOUT



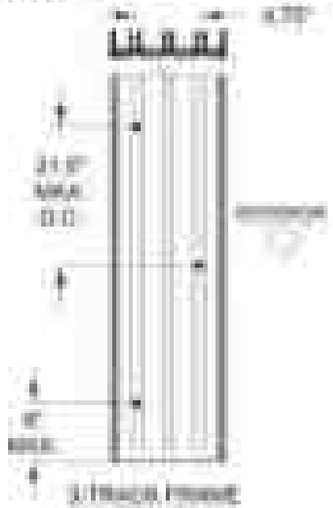
NOTES:
1) SEE TABLES 1 & 2 FOR EXACT QUANTITY OF ANCHORS REQUIRED IN THE P-HOOK.



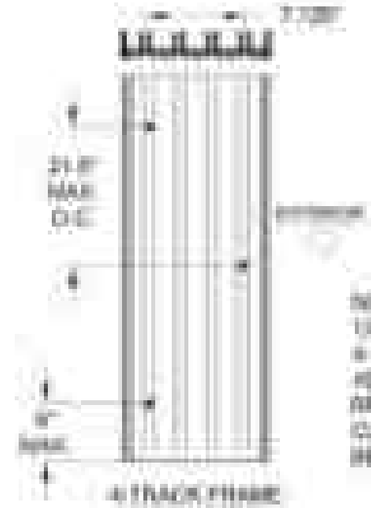
JAMB ANCHORS LAYOUT, (PARTIAL VIEW)



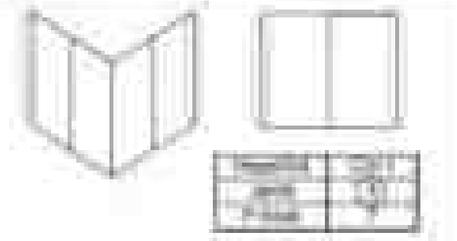
2-TRACK FRAME JAMB ANCHORS



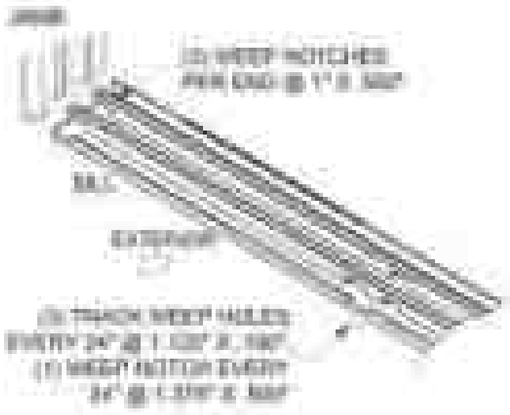
3-TRACK FRAME JAMB ANCHORS

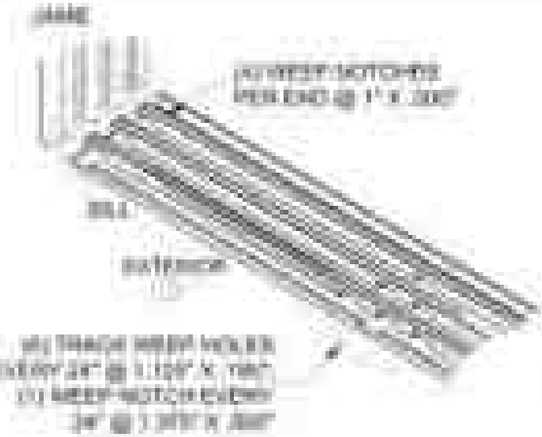


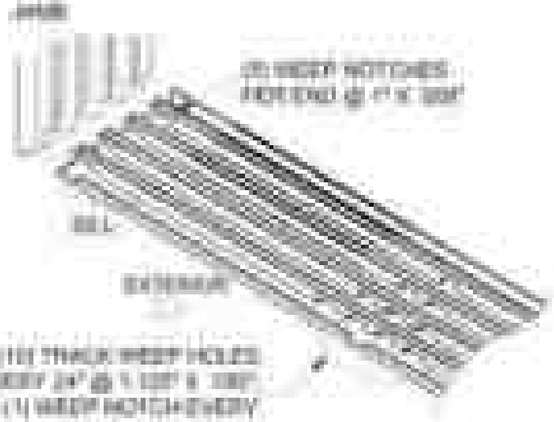
4-TRACK FRAME JAMB ANCHORS



NOTES:
1) EXTERIOR JAMB ANCHOR LOCATIONS SHOWN, FOR 3 AND 4-TRACK JAMBS, ANCHORS MAY BE LOCATED IN ANY ADJACENT TRACK (SIMILAR TO THE 2-TRACK JAMB) AS REQUIRED TO MEET MIN. EDGE DISTANCE CONSTRAINTS. IN CASE OF AN ODD NUMBER OF ANCHORS, THE MAJORITY SHALL BE TOWARD THE INTERIOR OR EXTERIOR.







SILL WEEPHOLE LAYOUT (2, 3 & 4 TRACKS)

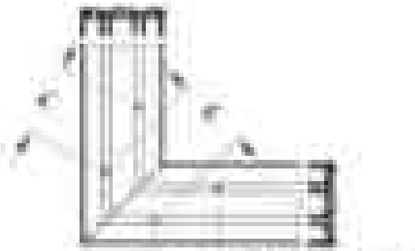
PGT

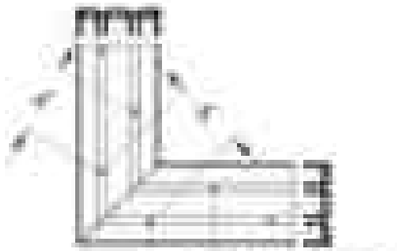
VINYL SLIDING GLASS DOOR (OX) | 1000219

ANCHOR LAYOUTS | A.MORLEDGE

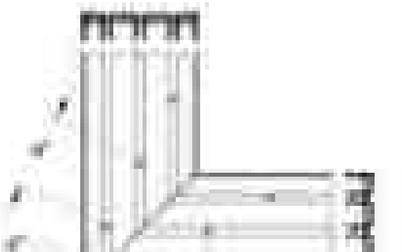
SCALE: NTS | 14 OF 22 | SUBSTRATE: A

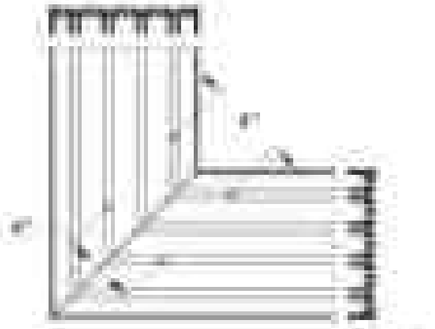
HEAD 90° CORNER CLUSTER ANCHORS LAYOUT

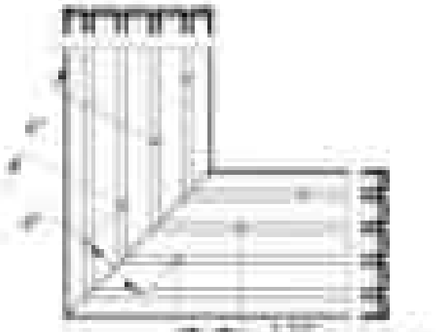




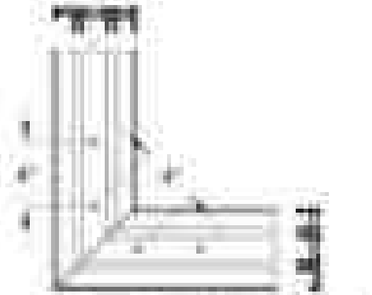


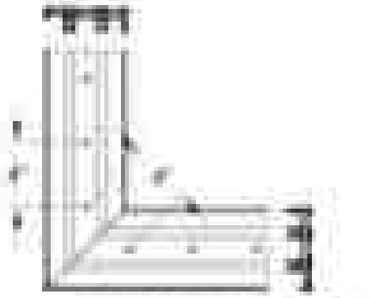






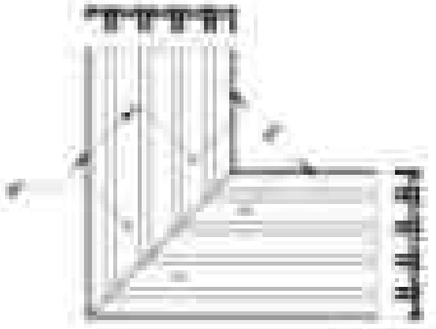
SILL 90° CORNER CLUSTER ANCHORS LAYOUT













NOTES:

1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR OUTSIDE (SHOWN) AND INSIDE CORNER CONFIGURATIONS.

3) TRACK TO TRACK SPACING IS 2 3/8" FOR ALL HEADS AND SILLS.

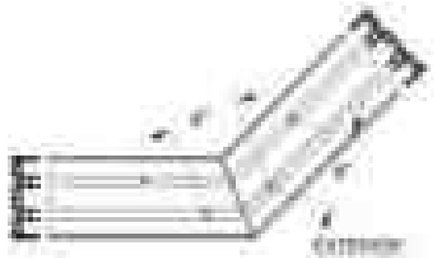








HEAD 135° CORNER CLUSTER ANCHORS LAYOUT:













SILL 135° CORNER CLUSTER ANCHORS LAYOUT:

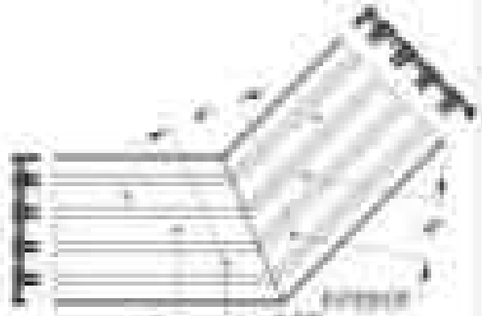












NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING AND WOULD BE SIMILAR FOR OUTSIDE (SHOWN) AND INSIDE CORNER CONFIGURATIONS.

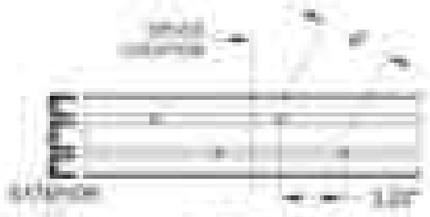
3) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS AND SILLS.



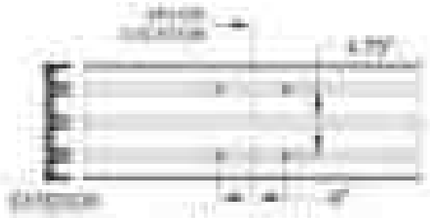




HEAD SPLICE ANCHORS LAYOUT @ INTERLOCK OR ASTRAGAL













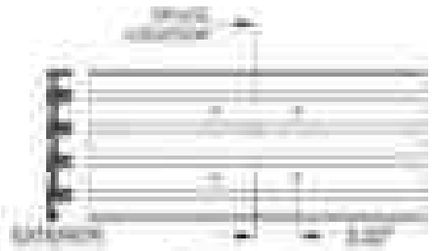
SILL SPLICE ANCHORS LAYOUT @ INTERLOCK OR ASTRAGAL









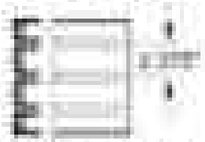




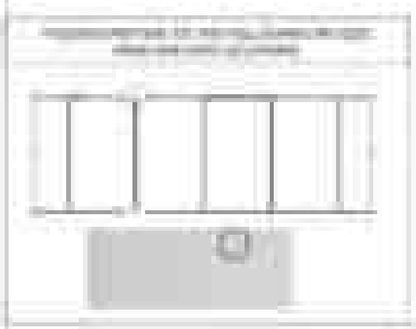
NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED

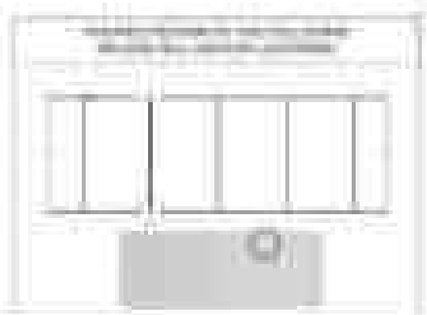
2) ABOVE FIGURES ARE FOR SPLICES OCCURRING AT THE ASTRAGAL OR INTERLOCK
FOR SPLICES OCCURRING INSIDE OF A POCKET, SEE THE EXAMPLE ON SHEET 9

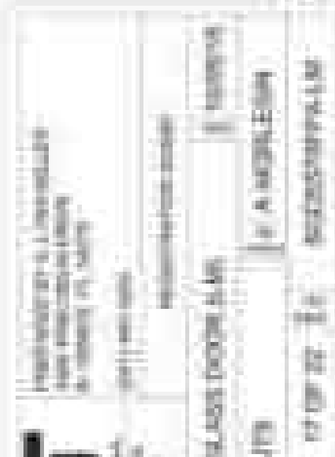
3) TRACK-TO-TRACK DIETANCE IS 2.175"
FOR ALL HEADS AND SILLS:



4) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION







PANEL'S LEFT STILE TYPE \ PANEL'S RIGHT STILE TYPE		F	PP	K	L	L	TC	TA	TV	TW
	B	E	P	A	C	C	SC	SA	SV	SW
	RR	R			S	S	FC	FD	FV	FW
	D	M			J	J				
	LR		T	U						
		N	T	U						
	CT	CS	CF							
	AT	AS	DF							
	VT	VS	VF							
	WT	WS	WF							

SCREEN PANEL TYPES			
C			
M			
J			
SD			
A			
U			
DS			



PANEL TYPE "F" SHOWN









PANEL NOTES:

1) SEE DP/ANCHOR TABLES 1, 2 & 3, SHEETS 7-9 FOR PANEL SIZES & DESIGN PRESSURE.

2) PANEL TYPES NOT SHOWN ARE NOT REQUIRED FOR ANY CONFIGURATIONS AND ARE NOT AVAILABLE.

3) MAXIMUM WIDTH/RAIL PANEL WIDTH FOR ALL PANEL CONFIGURATIONS IS 60".

4) PANEL TYPE MAY BE EITHER EXTERIOR (GLAZED) OR INTERIOR GLAZED. BOTH TYPES QUALIFIED BY THIS APPROVAL, SEE DETAILS SHEET 11.



(1) 2 TRACK HEADJAMB



(2) 4 TRACK SILL



(3) 3 TRACK HEADJAMB



(4) 3 TRACK SILL



(5) 4 TRACK HEADJAMB



(6) 2 TRACK SILL



(7) FRAME SCREW COVER (PVC)



(8) MEETING PLATE



(9) TRACK INSERT



(10) INTERLOCK CAP, EXTENDED PYDROY



(11) P-HOOK



(12) BOTTOM RAIL SUPPORT



(13) OUTER SILL COVER



(14) SILL TRACK COVER



(15) P-HOOK ADAPTOR



(16) EXTENDED KEEPER



(17) KEEPER



(18) REINFORCEMENT BAR COVER



(19) REINFORCEMENT BAR



(20) PANEL CLIP



(21) REINFORCEMENT PLATE



(22) TOP, BOTTOM AND STILE REINFORCEMENT

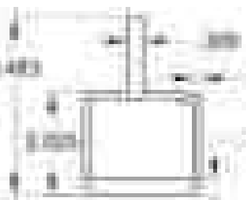
(23) TOP, BOTTOM AND STILE COMPOSITE REINFORCEMENT



(24) INTERLOCK 305 REINFORCEMENT STANDARD



(25) INTERLOCK 406 REINFORCEMENT HEAVY DUTY



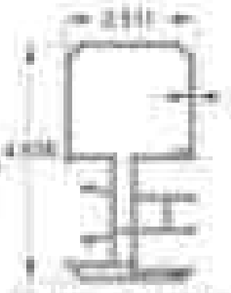
(26) INTERNAL REINFORCEMENT



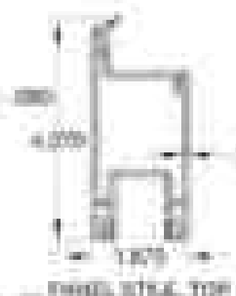
(27) EXTENDED POCKET INTERLOCK ADAPTER



(28) INTERLOCK ADAPTER



(29) INTERNAL 406 DR



(30) PANEL STILE, TOP AND BOTTOM RAIL



(31) INTERIOR JAMB COVER



(32) 135° CORNER ASTRAGAL



(33) 135° CORNER PASSIVE MOUNT



(34) 135° CORNER ASTRAGAL CAP EXTERIOR



(35) 135° CORNER ASTRAGAL CAP INTERIOR



(36) 135° SQUARE MOUNT



(37) 135° BEVELED BEAD



(38) 135° BEVELED BEAD



(39) 135° OGEE BEAD



(40) 135° OGEE BEAD

(41) 90° CORNER ASTRAGAL

(42) 90° CORNER ASTRAGAL CAP EXTERIOR

(43) 90° CORNER ASTRAGAL CAP INTERIOR

NOTES:

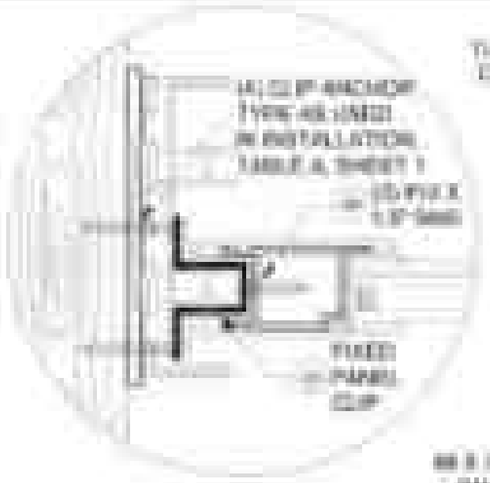
1) SEE SHEET A FOR SILL RISERS.

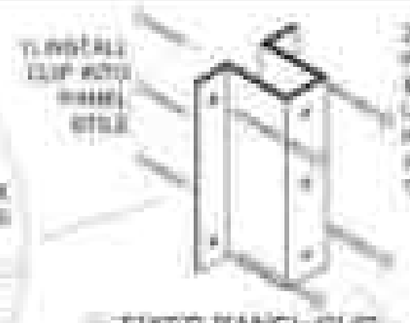
2) SEE SHEET 20 FOR SCREEN PARTS.

3) ALL DIMENSIONS IN INCHES.

PGT

VINYL SLIDING GLASS DOOR (OX)	1000219
EXTRUSIONS	A MORGERON
	08/05/20
SCALE: NONE	SHEET 18 OF 22





FIXED PANEL CLIP
INSTALL ONE CLIP AT THE MIDSPAN OF EACH FIXED PANEL TO FRAME JAMB LOCATION



JAMB TO SILL ASSEMBLY



REINFORCEMENT PLATE
ATTACH WITH #8 X 1-1/4" @ 34-1/2" MAX O.C.



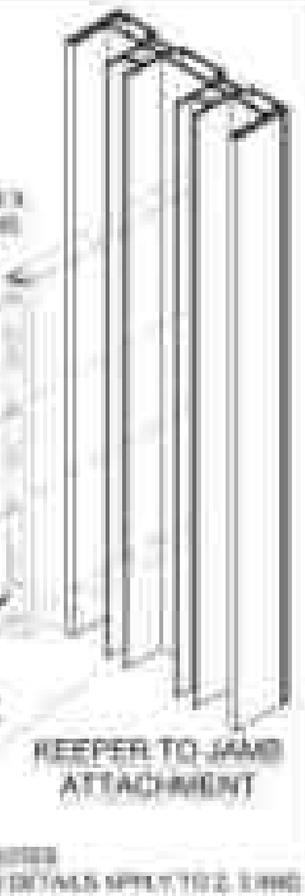
4-PANEL 2-TRACK DOOR SHOWN

HEADER BLOCK TO HEAD ATTACHMENT
INSTALL ONE BLOCK AT EACH INTERLOCK. AT ASTRAGAL INSTALL ONE BLOCK THAT SPANS BOTH PANELS.

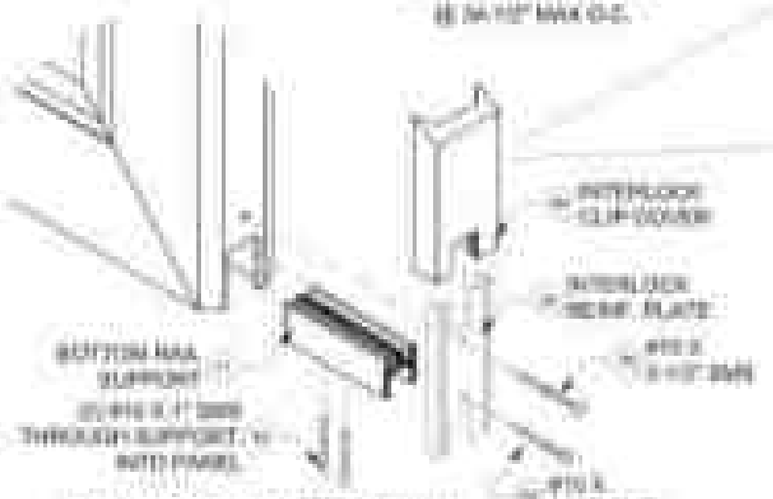




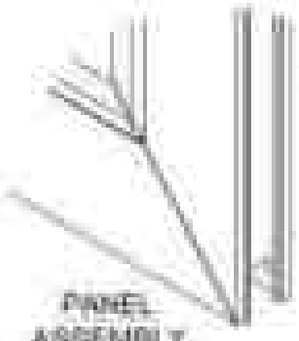
JAMB TO HEAD ASSEMBLY



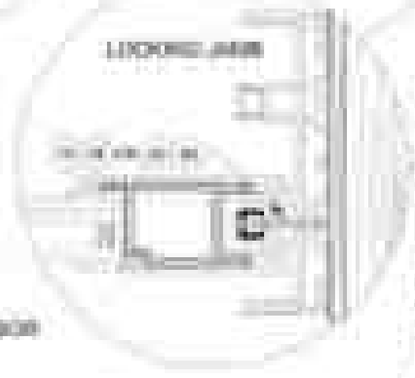
KEEPER TO JAMB ATTACHMENT



INTERLOCK SILL RETAINER CLIP ATTACHMENT
INSTALL ONE ASSEMBLY AT EACH INTERLOCK



PANEL ASSEMBLY
ALL PANEL CORNERS WELDED, NO ASSEMBLY NECESSARY



NOTES
1) DETAILS SPLIT TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) SEE SHEETS 12-17 FOR ANCHOR LOCATION & SPACING.
3) SEE TABLES 1, 2 & 3 FOR REINFORCEMENT REQUIREMENTS.
4) CENTRALIUS ANCHOR PLATE (TEM #8) IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.

PGT

VINYL SLIDING GLASS DOOR (LSW) | 1000219
ACCESSORY INSTALLATION | A MORE (SW)
SCALE: NONE | 20 OF 22 | ELEVATION/INSTALL DR | A

BOX SCREEN DETAILS

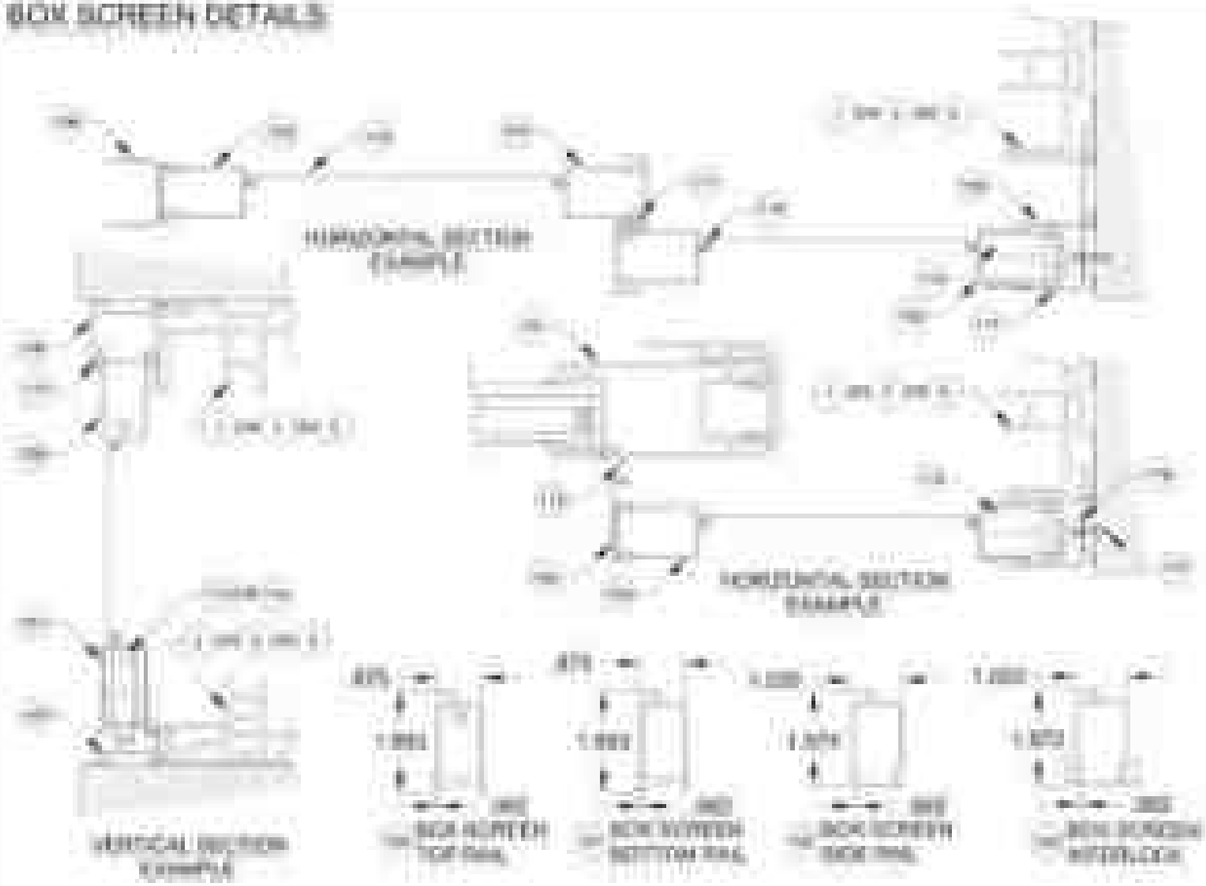




TABLE C: BOX SCREEN

#	Part #	Description	Material
100	133396	Box Screen Top Rail	6063-T6 alum
101	133397	Box Screen Bottom Rail	6063-T6 alum
102	133398	Box Screen Side Rail	6063-T6 alum
103	144124	Box Screen Interlock	6063-T6 alum
104	113474	Box Screen Snap-in Plug Plug	6063-T6 alum
105	86468	Box Screen DIY Mortise Adapter	6063-T6 alum
106	113484	Box Screen Mortise Adapter	6063-T6 alum
107	144136	Box Screen Fabric Bit Adapter	6063-T6 alum
108	144138	Box Screen Mesh Hook Adapter	6063-T6 alum
109	133410	#4 x 0.25 x 1" 82° @ Top Rail	SS
110	133410-SM	#4 x 0.25 x 1-1/2" 82° @ Bottom Rail	SS
111	113485	Plastic .375" x .188" Fin Seal	
112	144140	Plastic .50" x .443" @ Sill Flap	
113	144142	Fiberglass Mesh	Mesh
114	144143	Felt Roller	EA
115	Varies	Screen Locking Hardware	Black
116	419870	Screen Retainer	Black
117	133415	#6 x 1" 82° PH (SS)	Black
118	144132	Plastic Spline - 125" @ .188"	Black
119	144133	Screen Cloth	Fiberglass

STANDARD SCREEN DETAILS

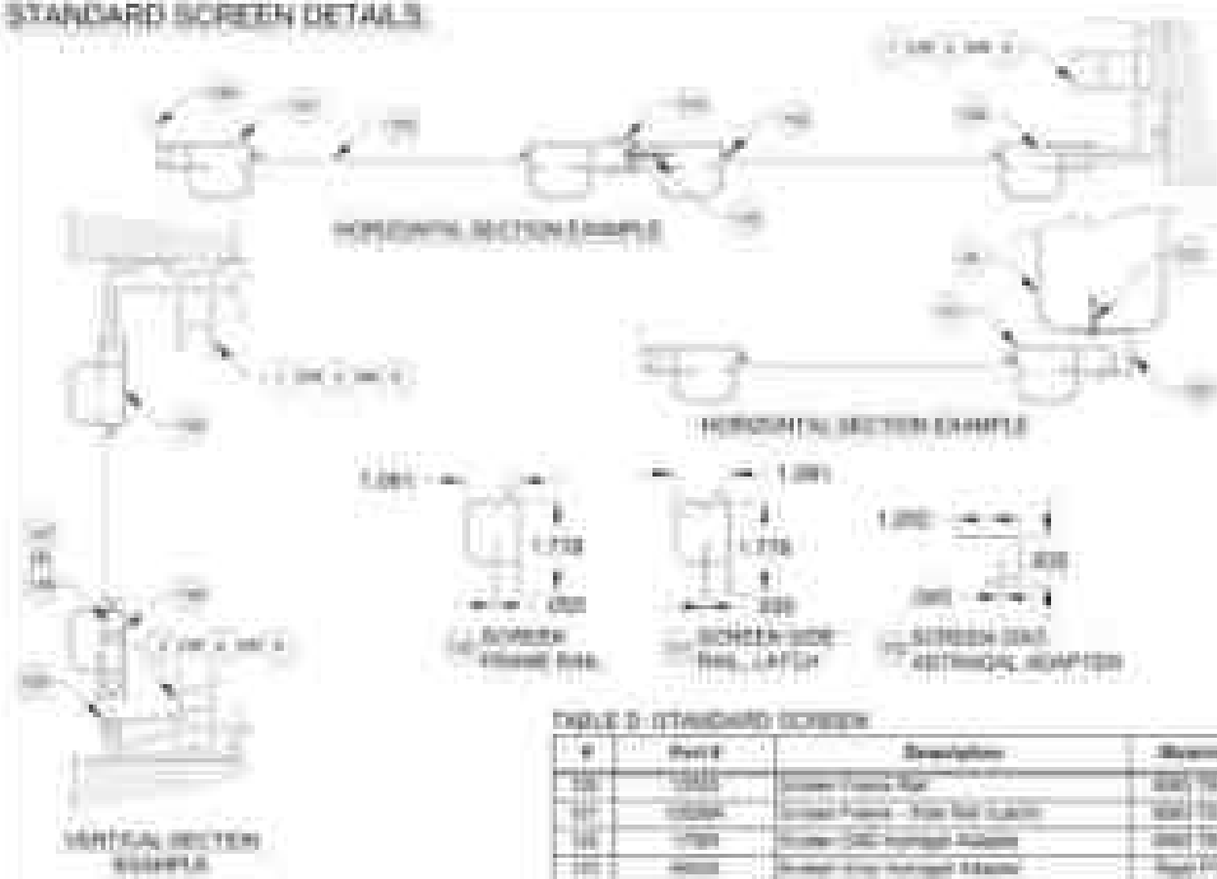




TABLE D: STANDARD SCREEN

#	Part #	Description	Material
100	133412	Screen Frame Rail	6063-T6 alum
101	133394	Screen Frame - Side Rail Latch	6063-T6 alum
102	113483	Screen DIY Aesthetic Adapter	6063-T6 alum
103	144134	Screen Mortise Aesthetic Adapter	Nylon Resin
104	144135	Fiberglass Mesh Aesthetic Adapter	6063-T6 alum
105	133395	Screen Sill Screen Add-on	6063-T6 alum
106	86468	Snap-in Plug - #6 x .5 Screw	Nylon
107	133410-SM	#6 x 1-1/2" PH, Pan (SS) Installation	SS
108	113487	Corner Key Wheel Assembly (Standard)	Nylon
109	113487-DS	Corner Key Wheel Assembly (DS)	SS
110	86468	Screen Locking Hardware	Nylon
111	133409-PHOLE	#4 x 0.25" PH (SS) @ Screen Rail	SS
112	133410-SPHOLE	#6 x 0.5" PH (SS) @ Sill Add-on	SS
113	144132	Screen Spline - 125"	Black
114	144133	Screen Cloth	Fiberglass

NOTES:
1) ALL DIMENSIONS IN INCHES

PGT

VINYL SLIDING GLASS DOOR (LH)	10/5/21
SCREEN DETAILS	A MORLESS®
	09/29/21
SCD-SDR1	21 OF 22

PROFESSIONAL ENGINEER

TABLE E

#	Part #	Description	Material
1	[illegible]	2 Track Head Jamb	Rigid PVC
2	[illegible]	2 Track Sill	Rigid PVC
3	[illegible]	3 Track Head Jamb	Rigid PVC
4	[illegible]	3 Track Sill	Rigid PVC
5	[illegible]	4 Track Head Jamb	Rigid PVC
6	[illegible]	4 Track Sill	Rigid PVC
7	[illegible]	Fixed Screen Frame	Rigid PVC
8	[illegible]	Active Stile	[illegible] Alum.
9	[illegible]	Meeting Rail	[illegible] Alum.
10	[illegible]	Bottom Rail - Screened Portion	Rigid PVC
11	[illegible]	Bottom Rail Support	[illegible] Alum.
12	[illegible]	Glass Set Gasket	[illegible] Alum.
13	[illegible]	Sill Track Cover	Rigid PVC
14	[illegible]	Fixed Glass Retainer	[illegible] Alum.
15	[illegible]	Handle	[illegible] Alum.
16	[illegible]	Reinforcement Bar	[illegible] Alum.
17	[illegible]	Fixed Panel Top	[illegible] Alum.
18	[illegible]	Reinforcement Plate	[illegible] Alum.
19	[illegible]	Top Rail Active Rail and Lock Rail Reinforcement	[illegible] Alum.
20	[illegible]	Reinforcement	Composite
21	[illegible]	Jamb Liner Reinforcement - 2in	[illegible] Alum.
22	[illegible]	Reinforcement - 3in	[illegible] Alum.
23	[illegible]	Corner Gasket Adapter	[illegible] Alum.
24	[illegible]	Screened Fixed Corner Adapter	[illegible] Alum.
25	[illegible]	Mullion Adapter	Rigid PVC
26	[illegible]	Interlock Mullion	Rigid PVC
27	[illegible]	Panel Stop Top/Bottom Rail	Rigid PVC
28	[illegible]	Mortise Jamb Plate	[illegible] Alum.
29	[illegible]	135° Corner Adapter	[illegible] Alum.
30	[illegible]	135° Screen Adapter Fascia Mount	[illegible] Alum.
31	[illegible]	135° Corner Adapter Cap - Ext.	Rigid PVC
32	[illegible]	135° Corner Adapter Cap - Int.	Rigid PVC
33	[illegible]	90° Corner Adapter	[illegible] Alum.
34	[illegible]	90° Corner Adapter Cap - Ext.	Rigid PVC
35	[illegible]	90° Corner Adapter Cap - Int.	Rigid PVC
36	[illegible]	Sill Rail - 2-1/2"	[illegible] Alum.
37	[illegible]	Sill Rail - 3-1/2"	[illegible] Alum.
38	[illegible]	Sill Rail - 4-1/2"	[illegible] Alum.
39	[illegible]	Sill Rail - 5-1/2"	[illegible] Alum.
40	[illegible]	1/4" x .220" Fixture Spline	
41	[illegible]	1-1/2" x 1" x 1/2" Fin Hook Head Plug	
42	[illegible]	Screw Plug	
43	[illegible]	Weaver's Clip Cover	PVC
44	[illegible]	Operator Panel Assembly	SS
45	[illegible]	Operator Panel + Switch	Metal
46	[illegible]	M6 x 1.0P (FH, Full Dog) @ Bottom of Track	SS

#	Part #	Description	Material
47	[illegible]	Foam Weather Strip	Nylon
48	[illegible]	Roller Set Screw [illegible]	SS
49	[illegible]	4 DIN Spacer Tube	PVC
50	[illegible]	Set Screw [illegible]	SS
51	[illegible]	Roller Assembly Top Rail	[illegible]
52	[illegible]	Pulley	PVC
53	[illegible]	Screw Retainer Lock Jamb Top Section	Stainless
54	[illegible]	[illegible] x 1" Pan Head @ Lock	SS
55	[illegible]	Handle Kit	Cast Zinc
56	[illegible]	Interlock Mullion [illegible]	Nylon
57		Astragal for 2 PG Operable Section	See Detail 1/2 for Material
58		Screen Door Spacer 3/4" with Nail Fin Only	
59		Weather Stripping	
60		Gasket & Fin Screen	
61		Fixed Rail, Stile, Lock Rail or Mid Rail Astragal	Extrusion
62	[illegible]	2 1/2" Screen Panel	Rigid PVC
63		2 1/2" Beveled Panel	Rigid PVC
64	[illegible]	1-1/2" Fixed Panel	Rigid PVC
65	[illegible]	1-1/2" Lugs Bent	Rigid PVC
66	[illegible]	1-3/16" Glass Bead	Rigid PVC
67	[illegible]	Glazing Packs 1/2" x 3" x 1-1/8" @ 1-1/2 Glass	Neoprene
68	[illegible]	Glazing Strip 1" x 2" x 1-1/8" @ 1" Glass	Neoprene
69	[illegible]	#8 x 1" PH, SS Self Drill @ Panel Assembly	SS
70	[illegible]	#10 x 1-1/4" PH, SS Self @ Panel Sill	SS
71	[illegible]	#10 x 1" PH, SS Self @ Rail Corner	SS
72	[illegible]	#10 x 1-1/2" PH, SS Self @ Rail Corner, Typ. 4	SS
73	[illegible]	#10 x 2" PH, SS Self @ Rail Corner	SS
74	[illegible]	#10 x 2" PH, SS Self @ Rail Corner	SS
75	[illegible]	#10 x 1" PH, SS Self @ Rail Corner	SS
76	[illegible]	#10 x 1" PH, SS Self @ Rail Corner	SS
77	[illegible]	#10 x 2" PH, SS Self @ Rail Corner	SS

(1) ITEMS #16, #45, 52-55, 73, 74 & 87-89 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL

TABLE F

Material	Min. I_x	Min. I_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]

PGT

VINYL SLIDING GLASS DOOR (LSV) | 1000219

PARTS LIST/BOM | A MOFL/SSN

[illegible]

SCALE: NONE | SHEET 22 OF 22 | SUBSTRATE/LAM | A