Engineering Evaluation Report #5570NS-250715

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

Product Description:
SGD5570NS Series Impact-resistant Vinyl Sliding Glass Window, (LM & SM); FL Approval #29699

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 SGD557NSW, signed and sealed by A. Lynn Miller, P.E.

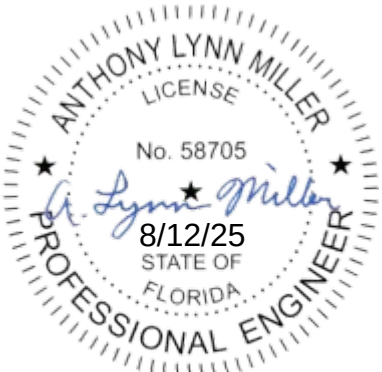
2. Test Report Nos.:
QAI NOK-0072, QAI NOK-0075, QAI NOK-0080, QAI NOK-0090 and QAI NOK-0092 signed and sealed by Idalmis Ortega P.E.

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 Aluminum and Vinyl.
• Units must be installed in accordance with approval documents.



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

SERIES SGD/STRM VINYL, IMPACT RESISTANT, SLIDING GLASS WINDOW

FLORIDA PRODUCT APPROVAL #[illegible]

DESIGN PRESSURE RATING:
SEE TABLES 1 AND 2 ON SHEETS 8 AND 9

IMPACT RATING:
RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

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) SHUTTERS 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 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.

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

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

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 1X ARE LESS THAN 1-1/2" THICK. PROPERLY SECURED 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE OR CMU. 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. 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, MAX. 1/4" THICK & 5000 PSI MIN., (DONE 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 MASTIC 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 WINDOWS MAY BE DETERMINED FROM DESIGN PRESSURE TABLES 1 OR 2, DEPENDING ON THE GLASS/REINFORCEMENT.

2) LOCATE THE SLIDING GLASS WINDOW 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 TABLES (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 SET.

6) ADDITIONALLY, SEE THE EXAMPLE ON SHEET 10.

TABLE A:

Group	Anchor	Substrate	Frame Member	Min. Edge Distance	Min. Embedment
A	[illegible]	Southern Pine (G=0.55)	[illegible]	[illegible]	[illegible]
			F-Clip	[illegible]	[illegible]
		Aluminum, 6063-T5	[illegible]	[illegible]	[illegible]
		[illegible]	F-Clip	[illegible]	[illegible]
		Steel, A36	[illegible]	[illegible]	[illegible]
		[illegible]	F-Clip	[illegible]	[illegible]
		Steel Stud [illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	F-Clip	[illegible]	[illegible]
	[illegible]	Southern Pine [illegible]	[illegible]	[illegible]	[illegible]
			F-Clip	[illegible]	[illegible]
	[illegible]	Southern Pine [illegible]	[illegible]	[illegible]	[illegible]
			F-Clip	[illegible]	[illegible]
B	[illegible]	Southern Pine [illegible]	[illegible]	[illegible]	[illegible]
			F-Clip	[illegible]	[illegible]
C	[illegible]	Concrete	F-Clip	[illegible]	[illegible]
		[illegible]	[illegible]	[illegible]	[illegible]
		Hollow CMU [illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	F-Clip	[illegible]	[illegible]
	[illegible]	Hollow CMU [illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	F-Clip	[illegible]	[illegible]
		Concrete	[illegible]	[illegible]	[illegible]
		[illegible]	F-Clip	[illegible]	[illegible]
	[illegible]	Concrete	[illegible]	[illegible]	[illegible]
		[illegible]	F-Clip	[illegible]	[illegible]
		Hollow CMU [illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	F-Clip	[illegible]	[illegible]
		Southern Pine [illegible]	[illegible]	[illegible]	[illegible]
			F-Clip	[illegible]	[illegible]
D	[illegible]	Concrete	[illegible]	[illegible]	[illegible]
		[illegible]	F-Clip	[illegible]	[illegible]
		Hollow CMU [illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	F-Clip	[illegible]	[illegible]
	[illegible]	Concrete	[illegible]	[illegible]	[illegible]
		[illegible]	F-Clip	[illegible]	[illegible]
		Hollow CMU [illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	F-Clip	[illegible]	[illegible]

1) [illegible]

2) ALL ANCHOR HEAD TYPES ARE APPLICABLE.

3) [illegible]

4) [illegible]

GENERAL NOTES........1
GLAZING INFO........2
EXAMPLE CONFIGS.......3
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ANCHOR LOC.......11-15
PANEL TYPES.......16
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PARTS LIST.......19

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VINYL SLIDING GLASS WINDOW

GENERAL NOTES

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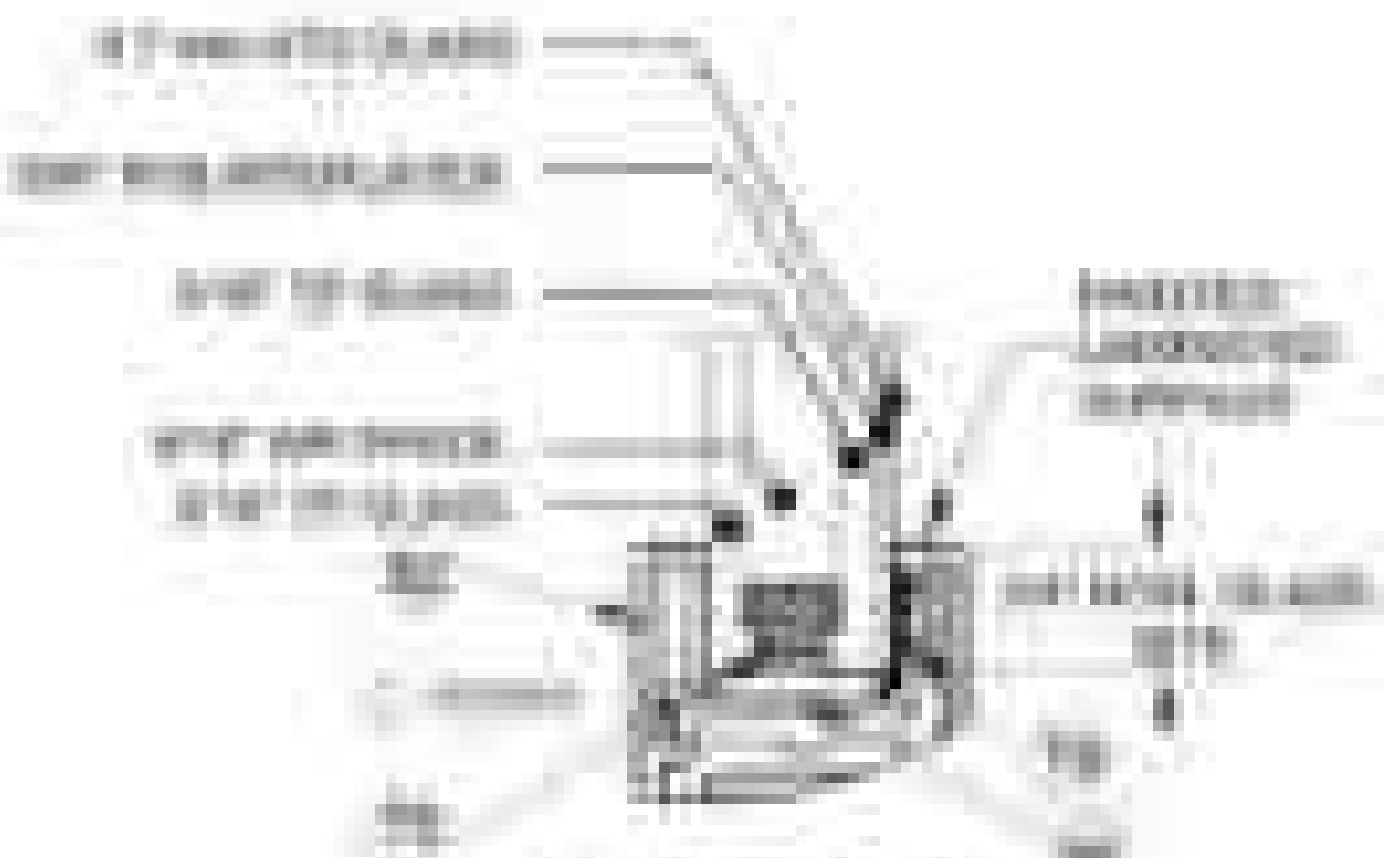
A. LYNN MILLER, P.E.



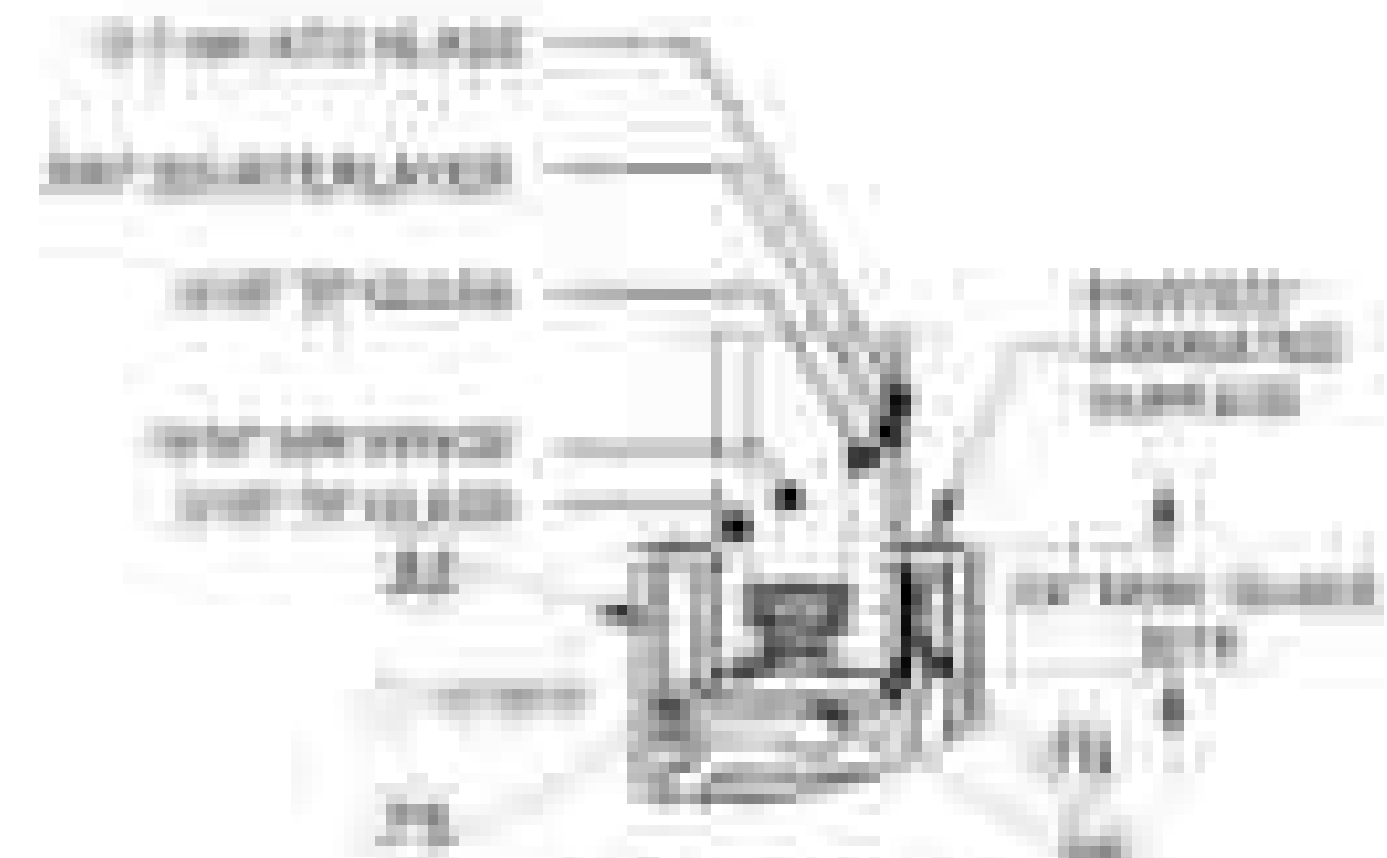
GLASS TYPE 1
1-1/16" NOMINAL



GLASS TYPE 2
1-1/16" NOMINAL



GLASS TYPE 3
1-1/16" NOMINAL



GLASS TYPE 4
1-1/16" NOMINAL

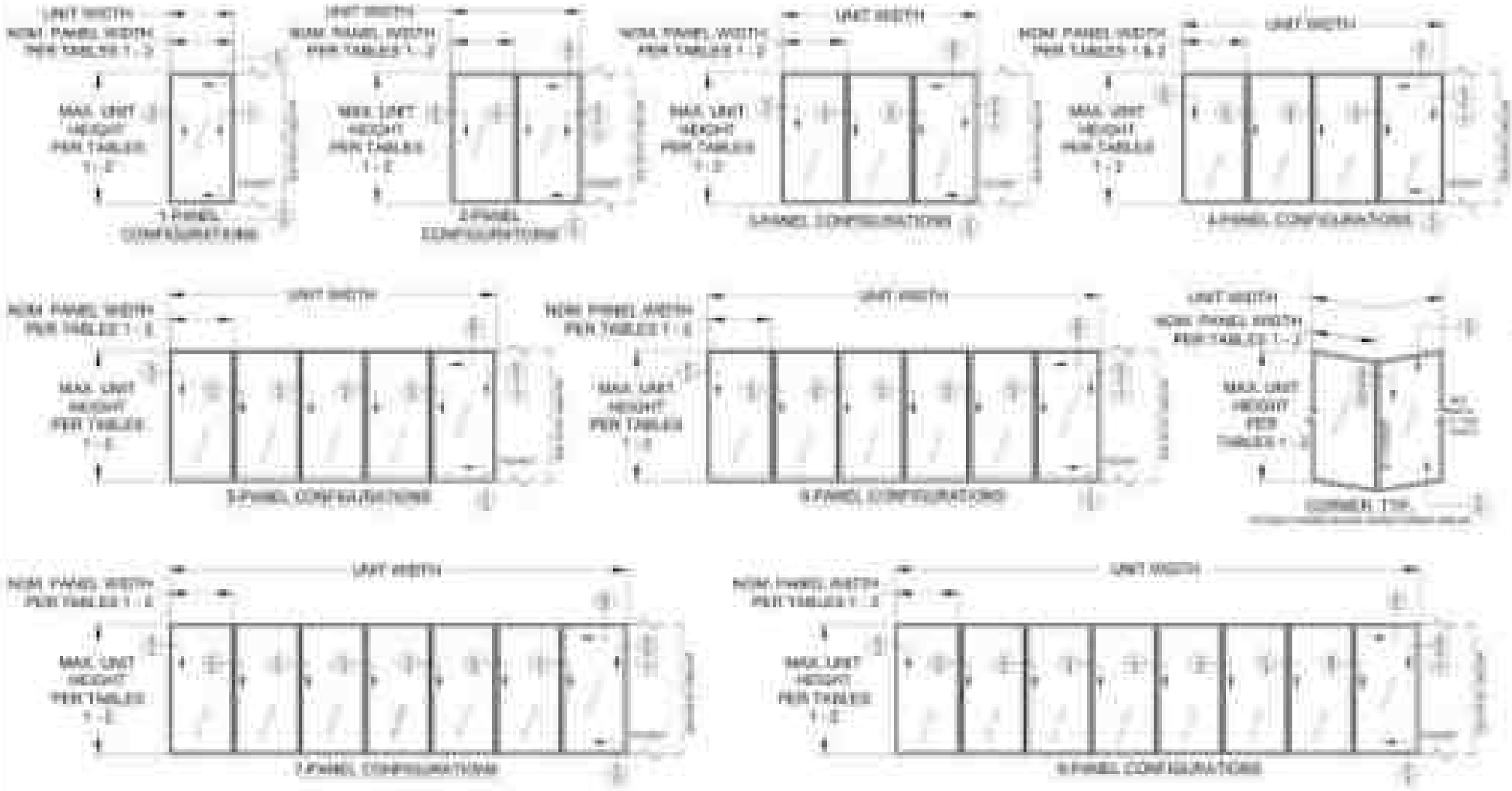
TABLE B

Glass Type	Description (Listed from Exterior to Interior)
1	1-1/16" Lam. I.G. 3/16" TP - 7/16" AIR - 3/16" HS - .090" PVB - 3/16" HS
2	1-1/16" Lam. I.G. 3/16" TP - 7/16" AIR - 3/16" HS - .090" SG - 3/16" HS
3	1-1/16" Lam. I.G. 3/16" TP - 9/16" AIR - 3/16" TP - .090" PVB - 0.7 mm ATG
4	1-1/16" Lam. I.G. 3/16" TP - 9/16" AIR - 3/16" TP - .090" SG - 0.7 mm ATG

"HS" = HEAT STRENGTHENED
"TP" = TEMPERED
"PVB" = .090" [illegible] PVB INTERLAYER BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS INTERLAYER BY KURARAY AMERICA, INC.

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(CONFIGURATIONS) NOTES:

1) ALL CONFIGURATIONS SHOWN ARE ALSO AVAILABLE AS POCKET CONFIGURATIONS AT EITHER OR BOTH JAMB LOCATIONS. (EXAMPLE: 4-PANEL XXXX IN POCKET (p) CONFIGURATION CAN BE pXXXX, pXXXX OR XXXXp, OR XXXXpXXXX POCKET CONFIGURATION CAN BE CXXXp)
2) POCKET WALL OR UNITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
3) FOR NOM. PANEL WIDTH, SEE TABLES 1 - 2.

DETAIL LETTER: "F" = FIXABLE PANEL, "O" = INOPERABLE PANEL, "P" = POCKET
SHEET NUMBER

SILL WIDTH = NOMINAL PANEL WIDTH - 4 7/8"
GLASS WIDTH = SILL WIDTH + 1.0"
SILL HEIGHT = DOOR UNIT HEIGHT - 1 13/16"
GLASS HEIGHT = SILL HEIGHT + 1.0"
PANEL HEIGHT = DOOR UNIT HEIGHT - 3 13/16"

REVISIONS	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
APPROVED BY	
DATE	
SCALE	
SHEET NO.	

ACCORDION SHUTTER
WINDOW WALL SYSTEMS
PRODUCT DESCRIPTION AND LIMITS

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DETAIL A1

DETAIL B1

DETAIL C2

DETAIL D1

DETAIL B2

DETAIL A2

DETAIL C2

DETAIL D2

HORIZONTAL SECTION
(XXX SHOWN)

HORIZONTAL SECTION
(XO SHOWN)

NOTES:
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) SEE SHEET 10 FOR ANCHOR LOCATION & SPACING FOR ANCHOR SUBMITTAL. SEE TABLES 1 - 3.
4) CONTINUOUS ANCHOR PLATE, ITEM NO. 23, REQUIRED AT ALL FRAME ANCHOR LOCATIONS.
5) PANEL WIDTH DOES NOT INCLUDE INTERLOCK OR AUXILIARY ADD-ON.
6) ALL REINFORCEMENTS ARE APPROXIMATELY THE FULL LENGTH OF THE EXTRUSION. REFER TO TEST REPORTS FOR EXACT DIMENSIONS.
7) SEE SHEET 11 FOR SCREEN DETAILS.

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DETAIL E1

DETAIL E2

DETAIL E3

DETAIL E4

DETAIL F1

DETAIL F2

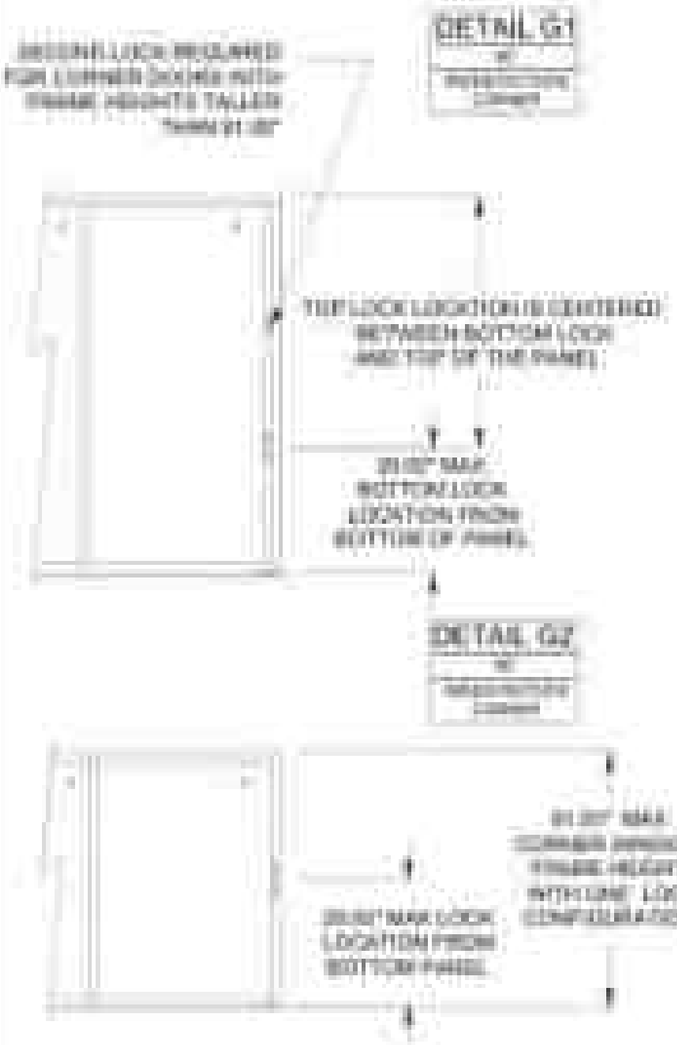
DETAIL F3

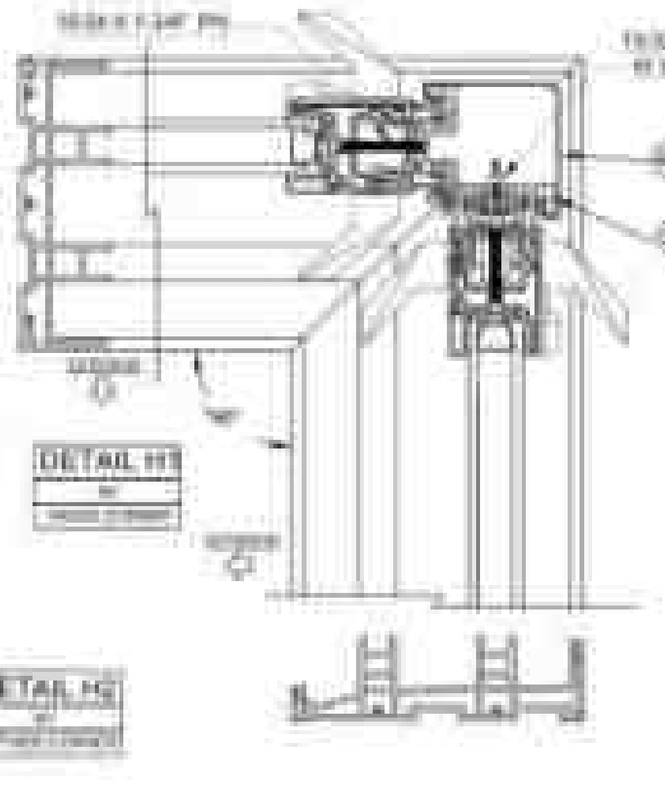
DETAIL F4

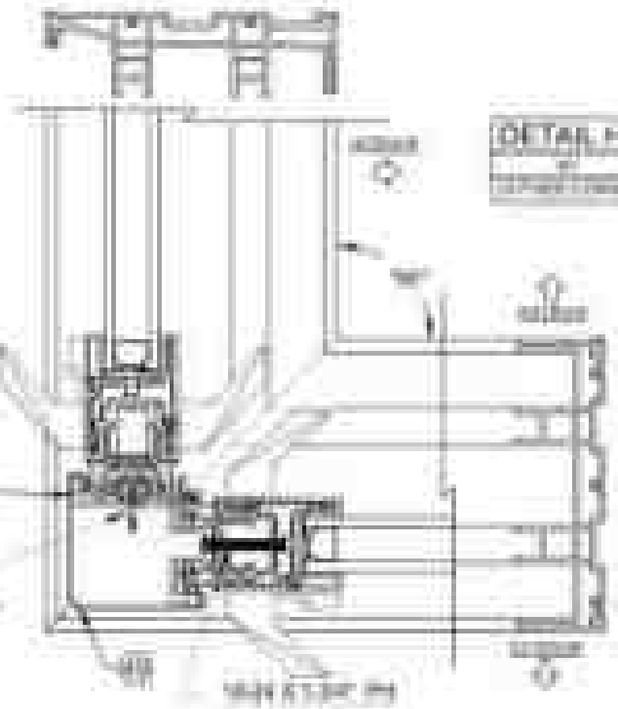
NOTES:
1) DETAILS MARKED "F1/2, 2, 3 AND 4" MATCH CONFIGURATIONS.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) SEE SHEETS 10, 11, 12, 13 AND 14 FOR ANCHOR LOCATION & SPACING FOR ANCHOR QUANTITIES, SEE TABLES 1 - 3.
4) CONTINUOUS ANCHOR PLATE ITEM #6 IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.
5) SEE SHEET 16 FOR SCREEN DETAILS.
6) HEADER/SILL BLOCK TO HEADER ATTACHMENT PROVIDES ANY EXPANSION OR MOVABLE PANEL RACKING TO THE EXTERIOR.

IGT

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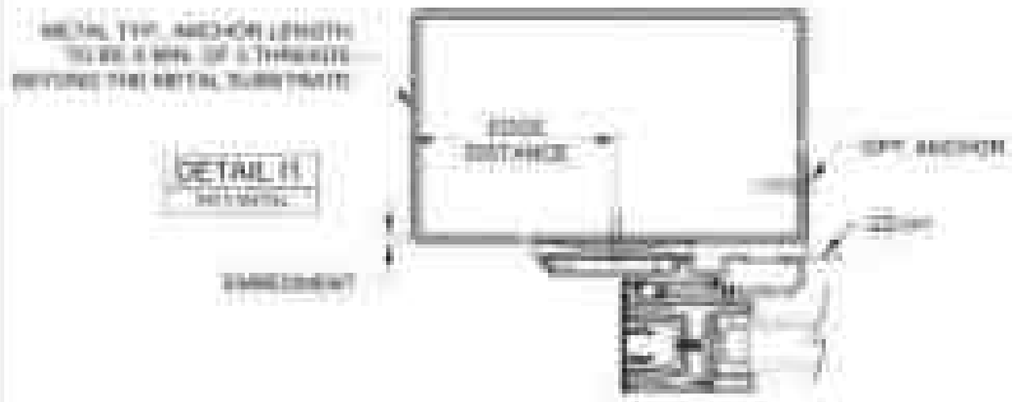




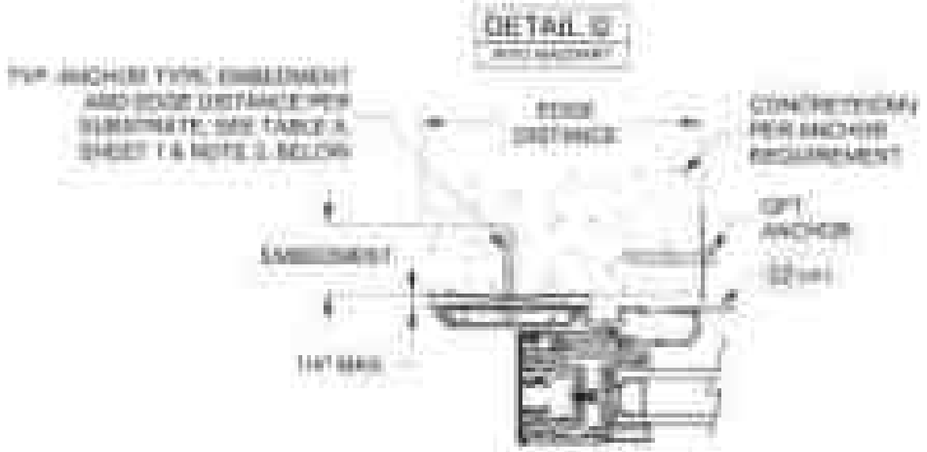
NOTES:
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) SEE SHEETS TS-14 & TS-15 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 - 2.
3) CORNER RETAINER MAY BE EITHER TO THE INTERIOR OR EXTERIOR DEPENDING ON CONFIGURATION.

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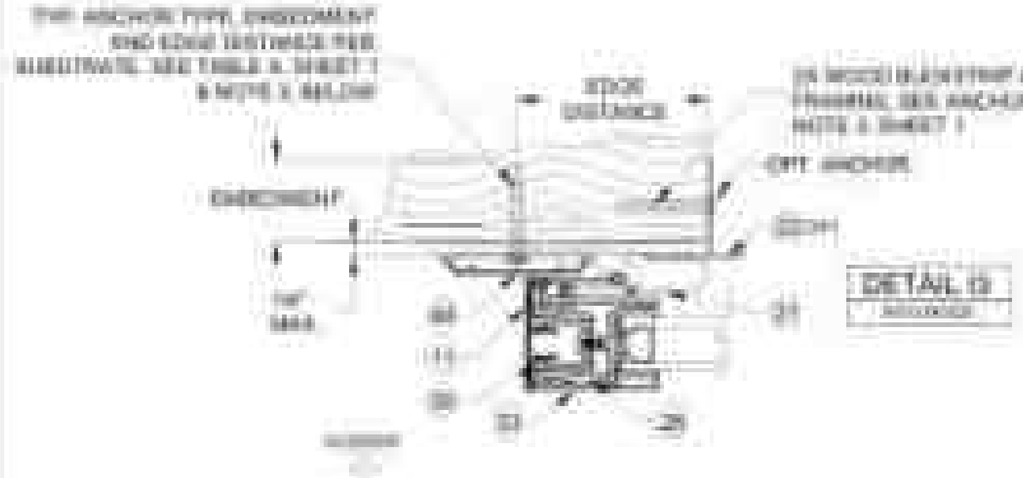
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EXTERIOR POCKET



EXTERIOR POCKET



EXTERIOR POCKET

NOTES:
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) SEE SHEET 13 FOR ANCHOR LOCATION & SPACING. FOR ANCHOR QUANTITIES, SEE TABLES 1-
4) SEE TABLES 1 - 2 FOR REINFORCEMENT REQUIREMENTS.
5) EXTERIOR POCKET IS 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.

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TABLE 1:

Design Pressure (DP) and Anchor Quantities Required (for all approved configurations on Sheet 3)

[illegible]		Door Unit Height							
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Design Pressure	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Head/Sill	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Jamb	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

USED IN EXAMPLE ON SHEET [illegible]

TABLE NOTES:
1) IF WATER INFILTRATION RESISTANCE IS REQUIRED THE LESSER VALUES OF EITHER TABLE 1 AND TABLE B) DETERMINE THE WATER LIMITED (+) DP.
2) IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1 A SILL RISER IS NOT REQUIRED. IF SO, +DP'S SHOWN IN TABLE 1 MAY BE USED.
3) SEE SILL RISER TYPES ON SHEET 5.
4) SHEET APPLIES TO 2, 3 AND 4 TRACK CONFIGURATIONS.
5) REFER TO ANCHOR NOTES, SHEET 1.
6) SEE SHEETS 11-14 FOR ANCHOR LOCATION & SPACING.

TABLE NOTES:

1) IF WATER INFILTRATION RESISTANCE IS REQUIRED THE LESSER VALUES OF EITHER TABLE 1 AND TABLE B) 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 5. SEE SHEETS 11-14 FOR ANCHOR LOCATION & SPACING.

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

5) REFER TO ANCHOR NOTES, SHEET 1

DLO WIDTH = NOMINAL PANEL WIDTH - [illegible]
GLASS WIDTH = DLO WIDTH + [illegible]
DLO HEIGHT = DOOR UNIT HEIGHT - [illegible]
GLASS HEIGHT = DLO HEIGHT + [illegible]
PANEL HEIGHT = DOOR UNIT HEIGHT - [illegible]

TABLE B:

Water Limited (+) Design Pressure		
Sill Riser	Nom. Sill Height	Max. (+) DP Allowed
None	[illegible]	See Note 2
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

FIG. 1



WHEN USED IN PASS-THROUGH WINDOW APPLICATION, A MIN. 5 FT OVERHANG IS REQUIRED PER THE CURRENT BUILDING CODE. FOR STANDARD WINDOW APPLICATION, A SILL RISER WILL BE REQUIRED TO MEET THE WATER INFILTRATION REQUIREMENT.

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TABLE 1

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

Glass Type / Leaf or Panel Arrangement / Size			Test Unit Result									
			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
			Positive Design	Positive Design	Positive Design	Positive Design	Positive Design	Positive Design	Positive Design	Positive Design	Positive Design	Positive Design
			P	+	P	+	P	+	P	+	P	+
24"	[illegible]	Design Pressure	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Result(lbf)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Anchors	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Pockets	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30"	[illegible]	Design Pressure	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Result(lbf)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Anchors	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Pockets	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
36"	[illegible]	Design Pressure	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Result(lbf)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Anchors	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Pockets	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
42"	[illegible]	Design Pressure	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Result(lbf)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Anchors	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Pockets	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
48"	[illegible]	Design Pressure	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Result(lbf)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Anchors	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Pockets	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60"	[illegible]	Design Pressure	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Result(lbf)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Anchors	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Pockets	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TABLE NOTES

1) IF WATER INFILTRATION RESISTANCE IS REQUIRED THE LESSER VALUES OF EITHER TABLE 3 AND TABLE 5U DETERMINES THE WATER LIMITED (+) DP. WATER TEST PRESSURE IS 15% OF THAT VALUE.

2) IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERRIDE IS PER FIG. 1 A SILL RISER IS NOT REQUIRED. IN THAT CASE, HIPS SHOWN IN TABLE 3 MAY BE USED.

3) SEE SILL RISER TYPES ON SHEET 5. SEE SHEETS [illegible] FOR ANCHOR LOCATION & SPACING.

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

5) REFER TO [illegible] SHEET 1

GLU WIDTH = NOMINAL PANEL WIDTH - 4-7/8"
GLASS WIDTH = GLU WIDTH + 1.8"
GLU HEIGHT = DOOR UNIT HEIGHT - 7-1/16"
GLASS HEIGHT = GLU HEIGHT + 1.3"
PANEL HEIGHT = DOOR UNIT HEIGHT - [illegible]

TABLE 5U

Water Limited (+) Design Pressure		
Sill Riser	Nom. DP Height	Max. (+) DP Allowed
None	[illegible]	See Note 2
42	3'-1/2"	+30.7 psf
43	5'-1/2"	+65.0 psf
44	8'-1/16"	+80.0 psf
45	4-3/8"	+80.0 psf

FIG 1

[illegible]

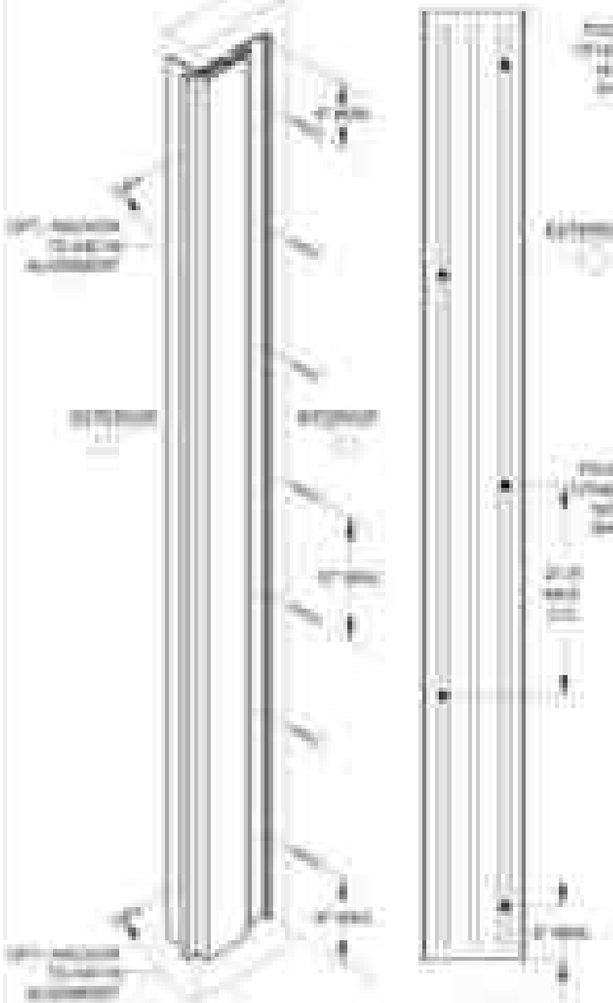
WHEN USED IN PASS-THROUGH WINDOW APPLICATION, A MIN. 5.5" CUSHWAN IS REQUIRED PER THE CURRENT BUILDING CODE FOR STANDARD WINDOW APPLICATION. A SILL RISER WILL BE REQUIRED TO MEET THE WATER INFILTRATION REQUIREMENT.

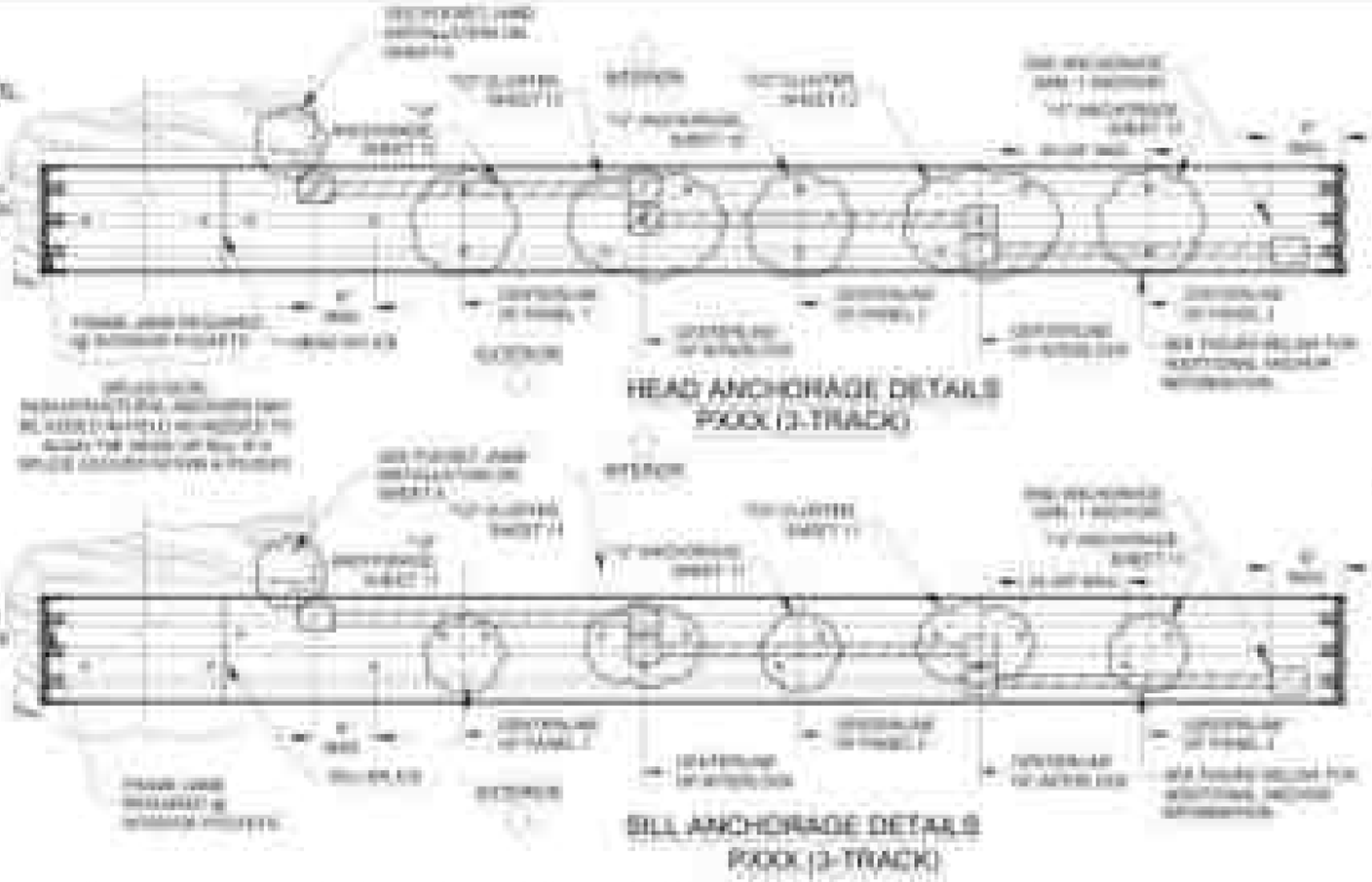
[illegible]

IGT

[illegible]

EXAMPLE:
3-PANEL, 2-TRACK, STRAIGHT CONFIGURATION, PXXX
INTERIOR MOUNT POCKET, 48" X 84" NOM. PANELS,
LAMINATED, IG GLAZING, ANCHOR GROUP A IN WOOD SUBSTRATE,
PROJECT DESIGN PRESSURE REQUIRED: +40.0 / -44.0 PSF





HEAD ANCHORAGE DETAILS
PXXX (2-TRACK)

SILL ANCHORAGE DETAILS
PXXX (2-TRACK)

1.) KNOWING THE PRODUCTS REQUIREMENTS, SCAN THROUGH TABLES 1 FOR A DESIGN PRESSURE THAT MEETS OR EXCEEDS THE REQUIREMENT OF +40.0 / -44.0 AT A NOM. PANEL SIZE OF 48" X 84". FROM TABLE 1, SHEET 7, THE DESIGN PRESSURE IS +50.0/-50.0 WHICH EXCEEDS THE PROJECT DESIGN PRESSURE REQUIREMENTS.

FOR INSTALLATION USING ANY ANCHOR IN GROUP A (SEE TABLE A) TABLE 1 SHOWS ANCHOR REQUIREMENTS OF:

2.) ANCHOR LOCATION DETAILS CAN BE FOUND ON:
HEAD (CLUSTER ANCHORS): SHEET 12 FOR THE "C3" CLUSTER ANCHORS AT THE INTERLOCK.
HEAD (INTERMEDIATE ANCHORS): SHEET 12 FOR THE "I-1" ANCHORS AT THE MIDSPAN OF EACH PANEL.
SILL (CLUSTER ANCHORS): SHEET 11 FOR THE "S3" CLUSTER ANCHORS AT THE INTERLOCK.
SILL (INTERMEDIATE ANCHORS): SHEET 11 FOR THE "I-1" ANCHORS AT THE MIDSPAN OF EACH PANEL.
JAMB: 5 ANCHORS, SHEET 13 FOR GEN. LAYOUT.
P-HOOK: 7 ANCHORS, SHEET 12 FOR GENERAL LAYOUT.

3.) INSTALLATION DETAILS INTO WOOD CAN BE FOUND ON:
HEAD & SILL: SHEET 9
JAMB: SHEET 8
P-HOOK: SHEET 7

END PANEL ANCHOR EXCEPTION

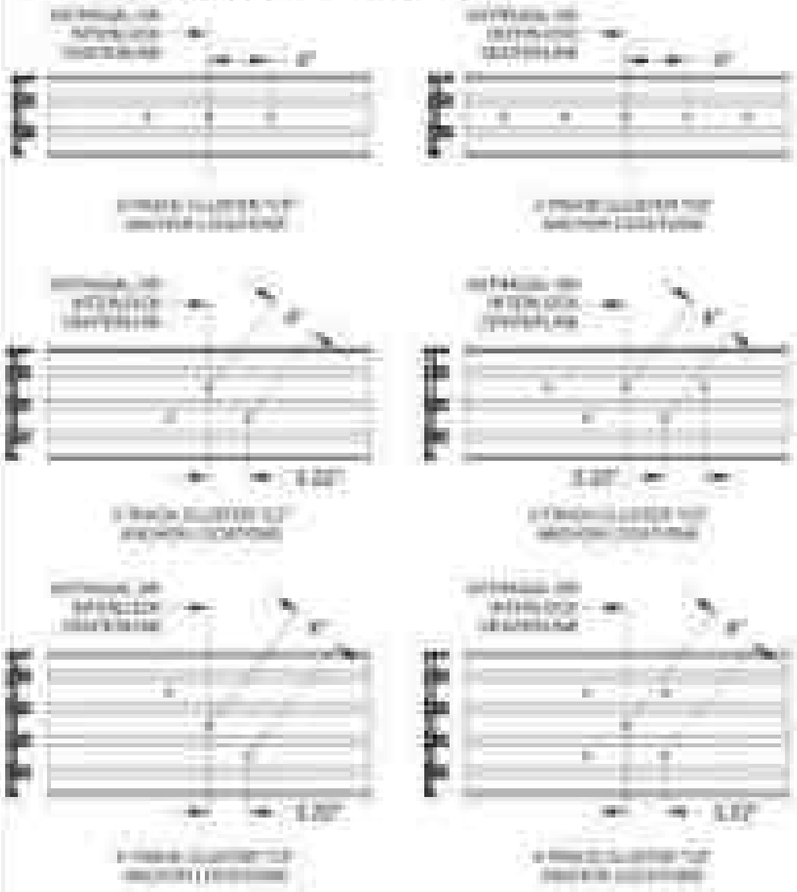


FOR SILL (SHOWN) AND HEAD, ANCHORS AT THE MIDPOINT OF END PANELS ARE ONLY REQUIRED IF THE O.C. DISTANCE TO THE NEXT ANCHOR CLUSTER IS OVER 25-3/8", OTHERWISE ANCHORS ARE NOT REQUIRED AS PER THE FIGURE ABOVE.

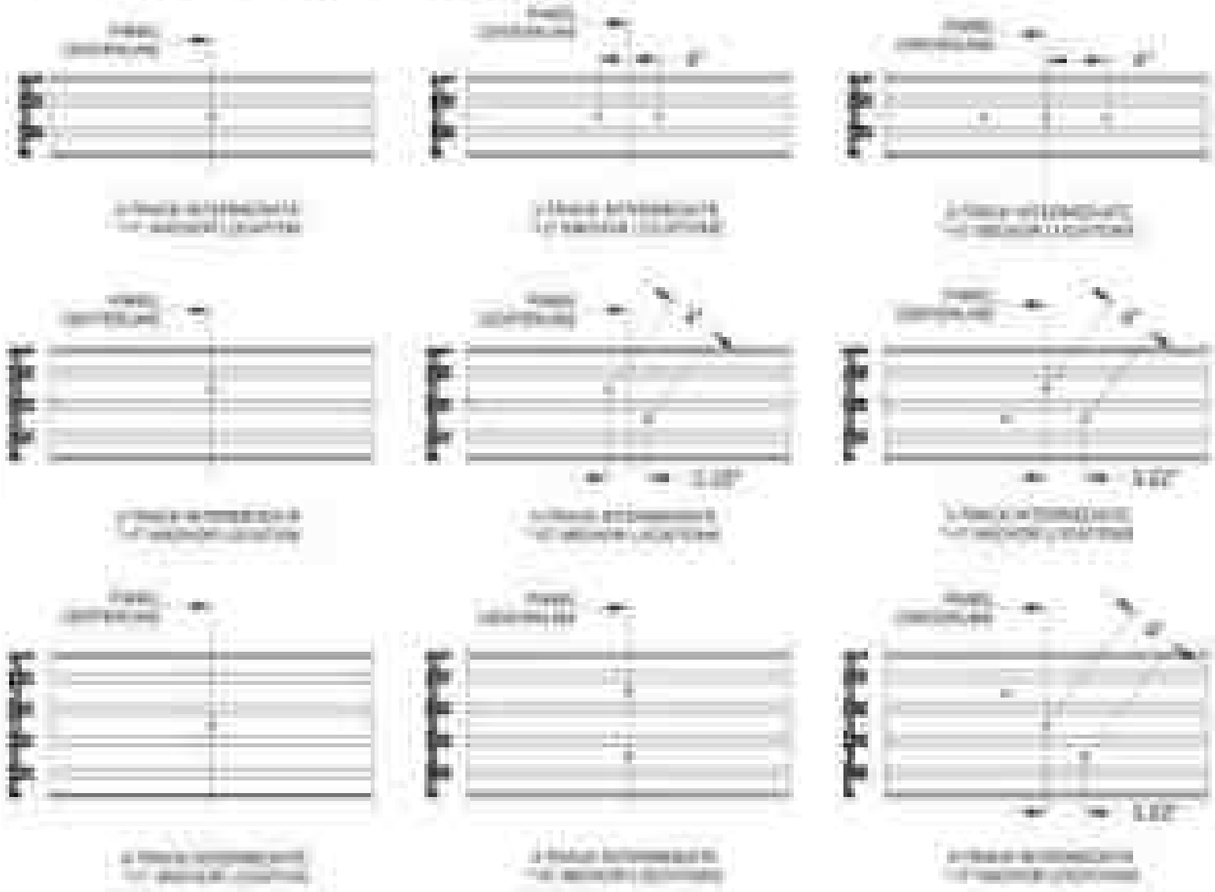
FOR PRODUCT REFERENCES ALSO SEE:
A) SHEET 2 FOR ALL DOUBLE CONFIGURATIONS AND EXACT LOCATIONS OF CROSS SECTION DRAWINGS.
B) SHEET 3 FOR SPECIFIC GLAZING TYPES.
C) SHEETS 17 FOR ALL USABLE PANEL TYPES AND CALL NUMBERS.
D) SHEETS 18 FOR EXTRUSION DRAWINGS.
E) SHEET 19 FOR A BILL OF MATERIALS.

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SILL CLUSTER ANCHORS LAYOUT

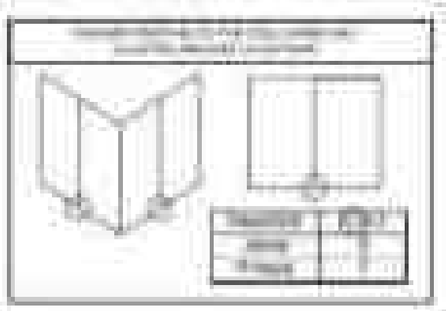


SILL "V" INTERMEDIATE ANCHORS LAYOUT



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

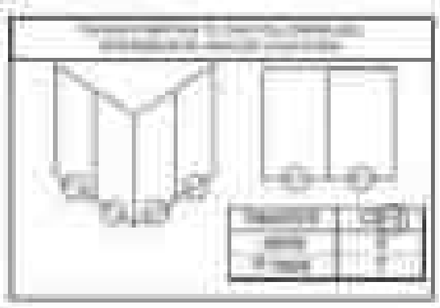
2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL SILLS.



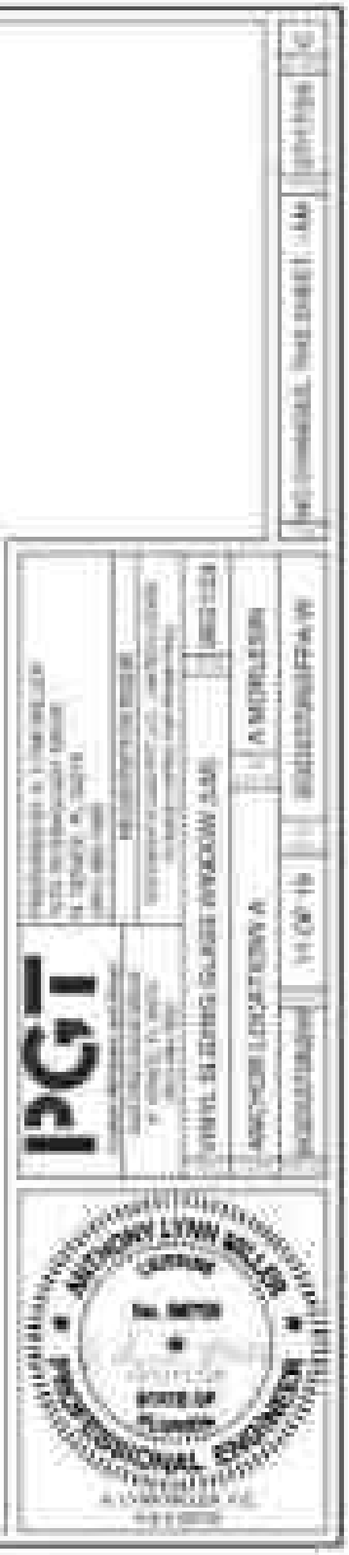


NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

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



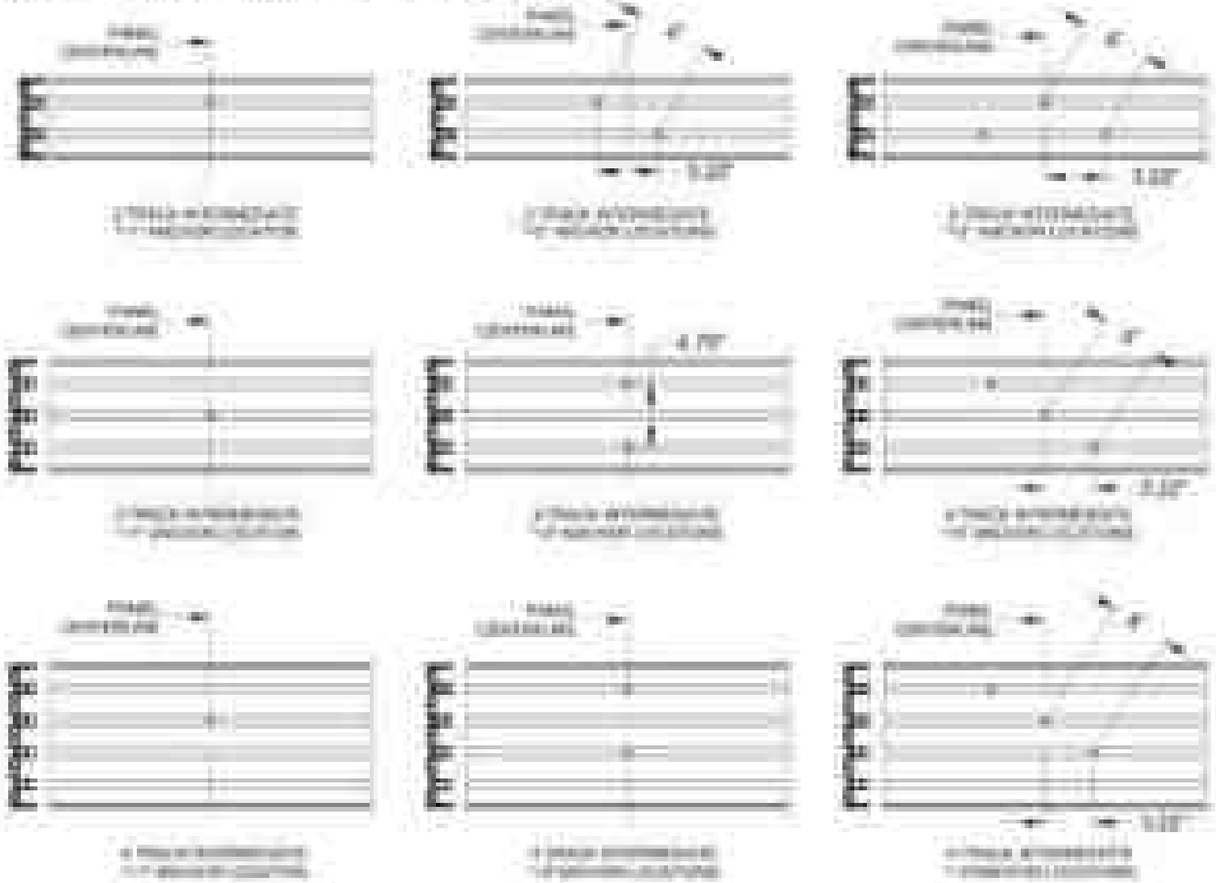




HEAD CLUSTER ANCHORS LAYOUT



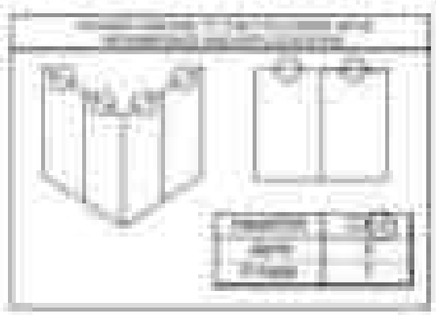
HEAD "+" INTERMEDIATE ANCHORS LAYOUT



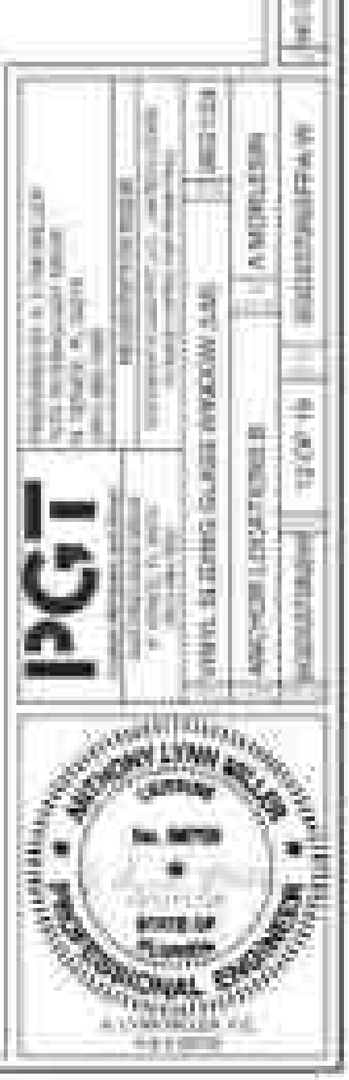
NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
2) TRACK TO TRACK DISTANCE IS 3.375" FOR ALL HEADS.



NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
2) TRACK TO TRACK DISTANCE IS 3.375" FOR ALL HEADS.



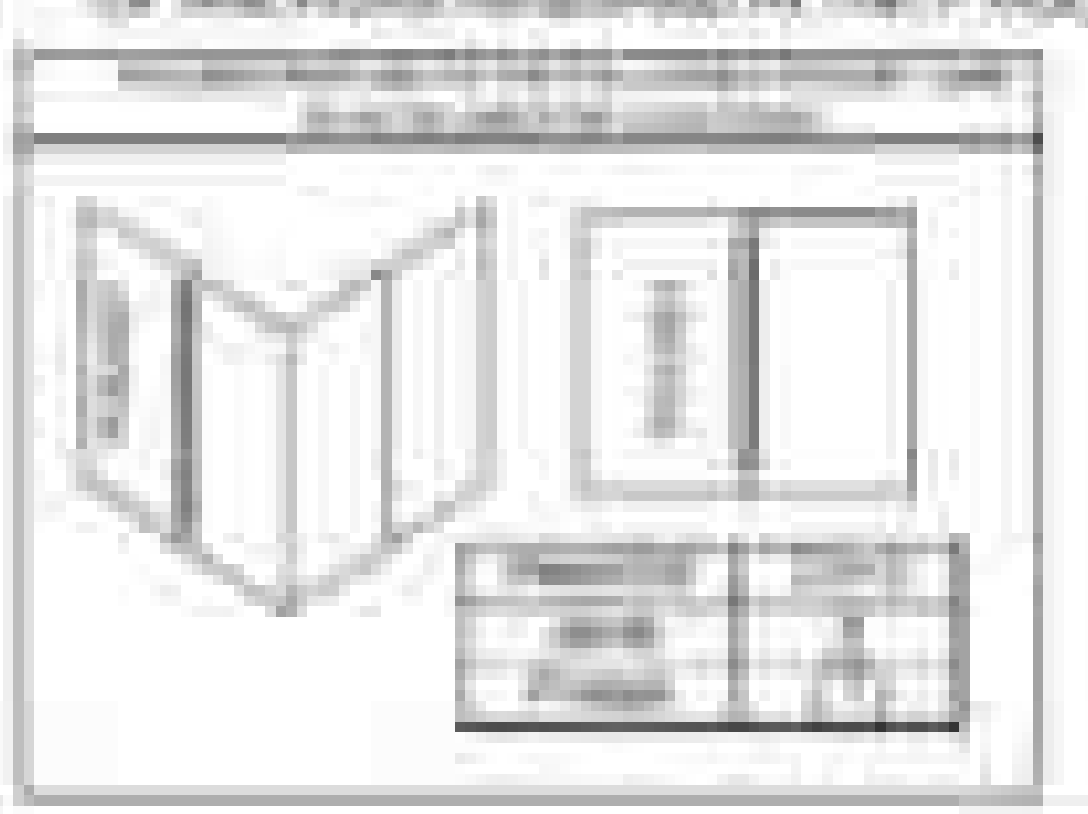




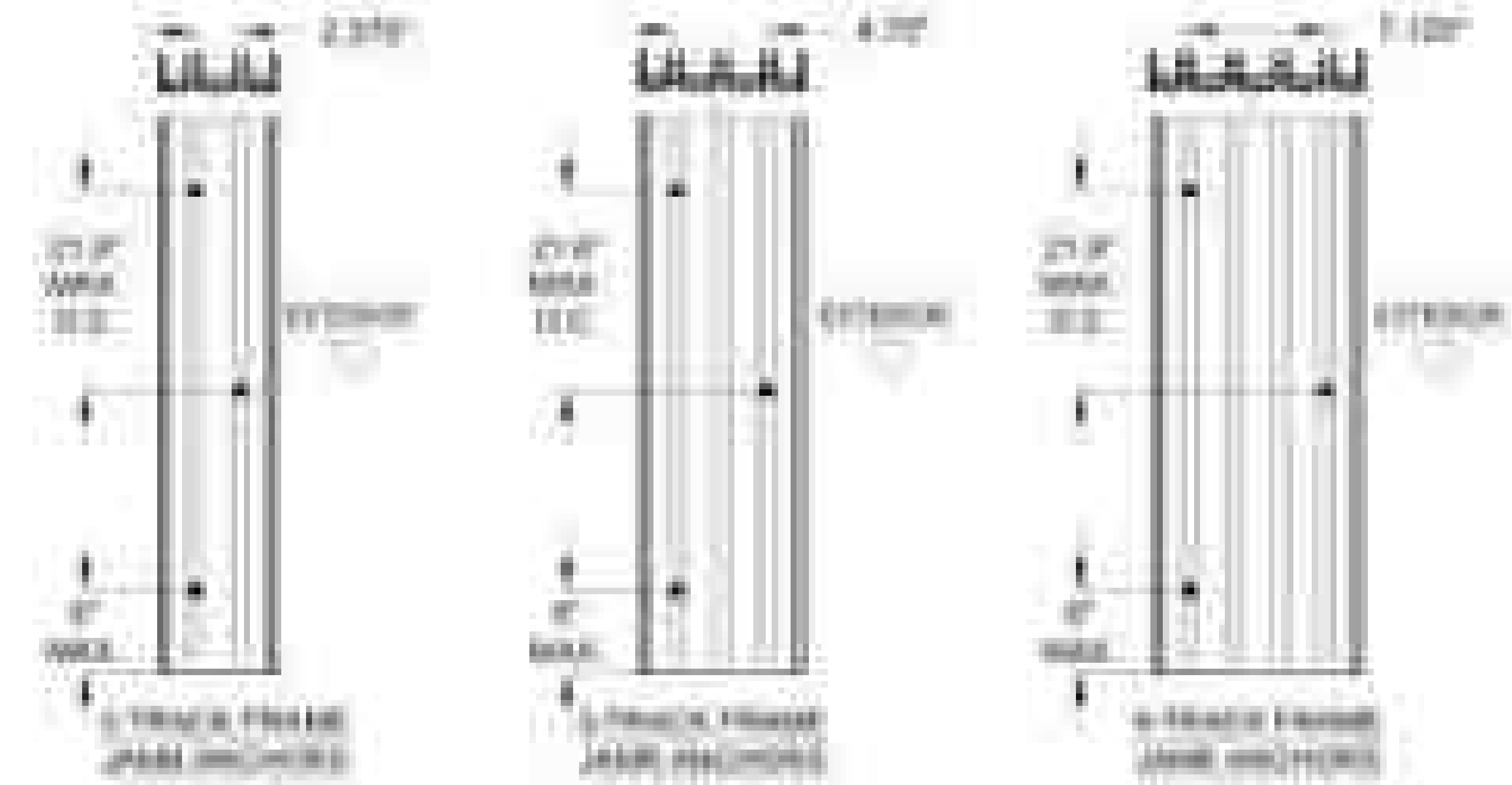
P-HOOK ANCHORS LAYOUT

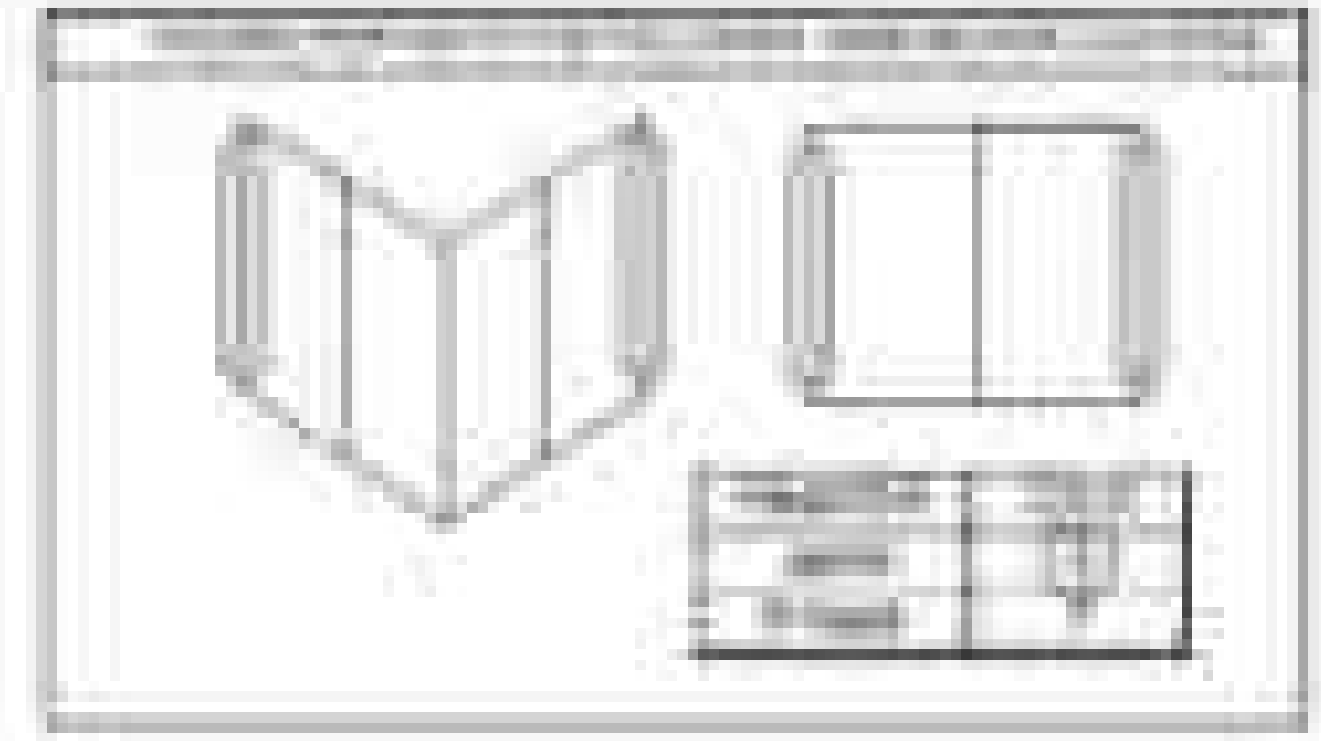


NOTES:
1) SEE TABLES 1 - 2 FOR EXACT QUANTITY OF ANCHORS REQUIRED IN THE P-HOOK.

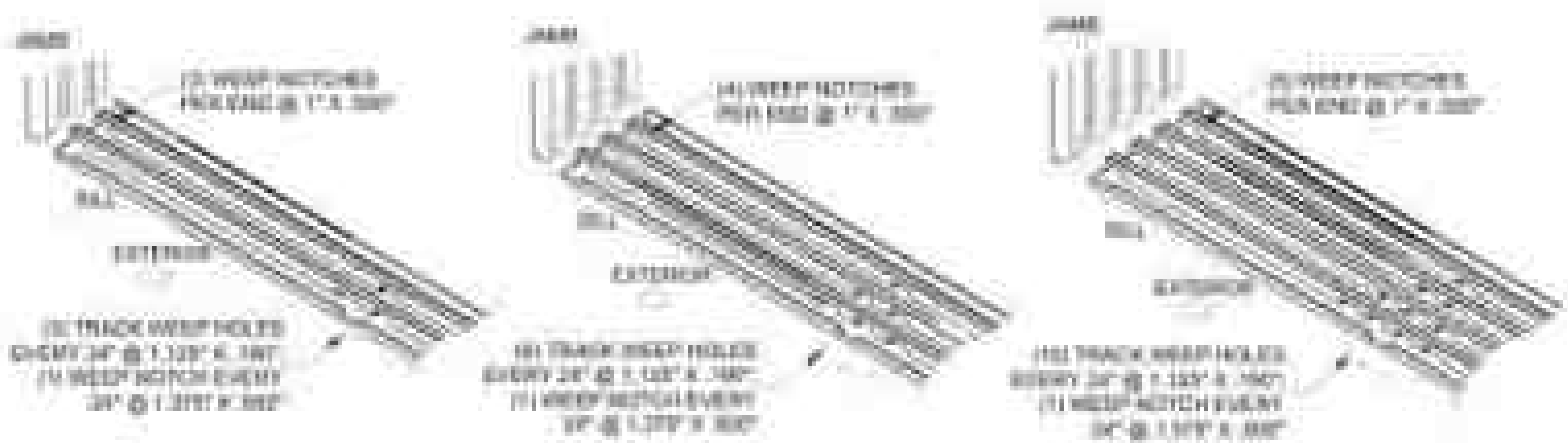


JAMB ANCHORS LAYOUT, (PARTIAL VIEW)





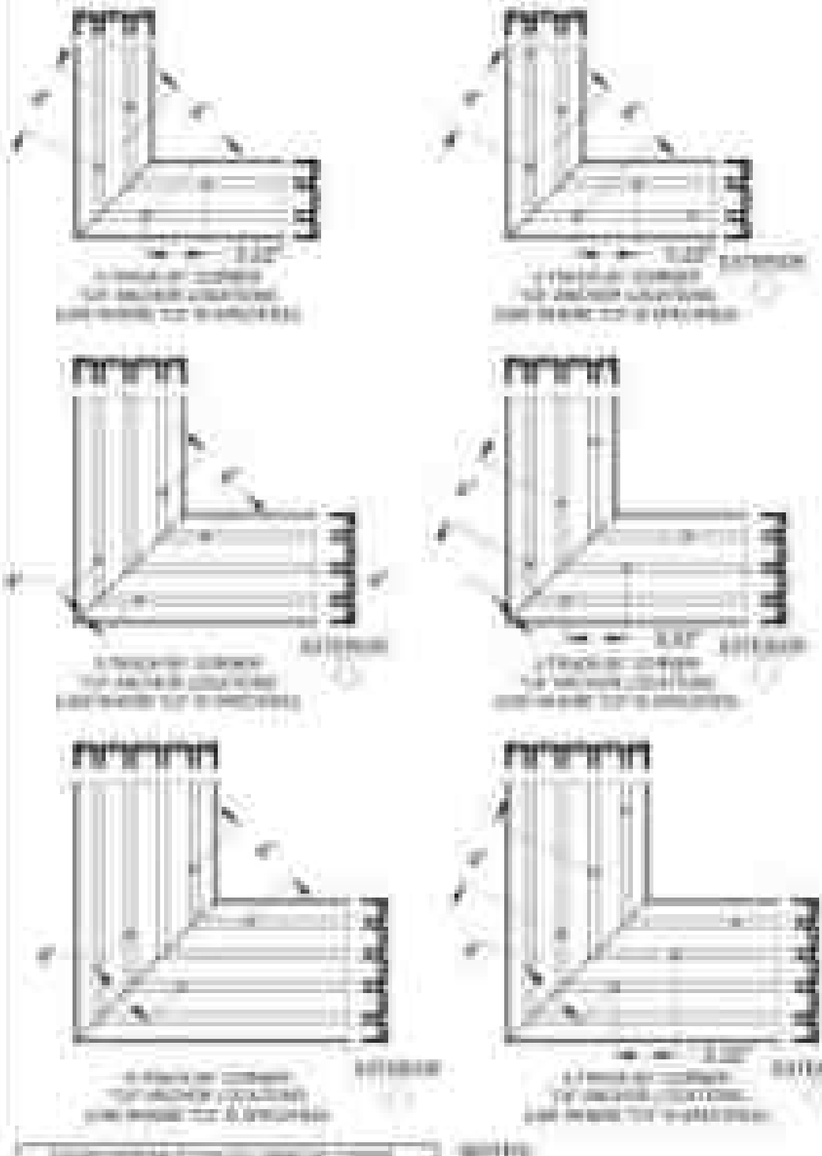
NOTE:
1) STANDARD ANCHOR LOCATIONS SHOWN FOR 3 AND 4 TRACK JAMBS. ANCHORS MAY BE LOCATED IN ADJACENT TRACKS (SIMILAR TO THE 2-TRACK JAMB) AS REQUIRED TO MEET MIN. EDGE DISTANCE CONSTRAINTS.



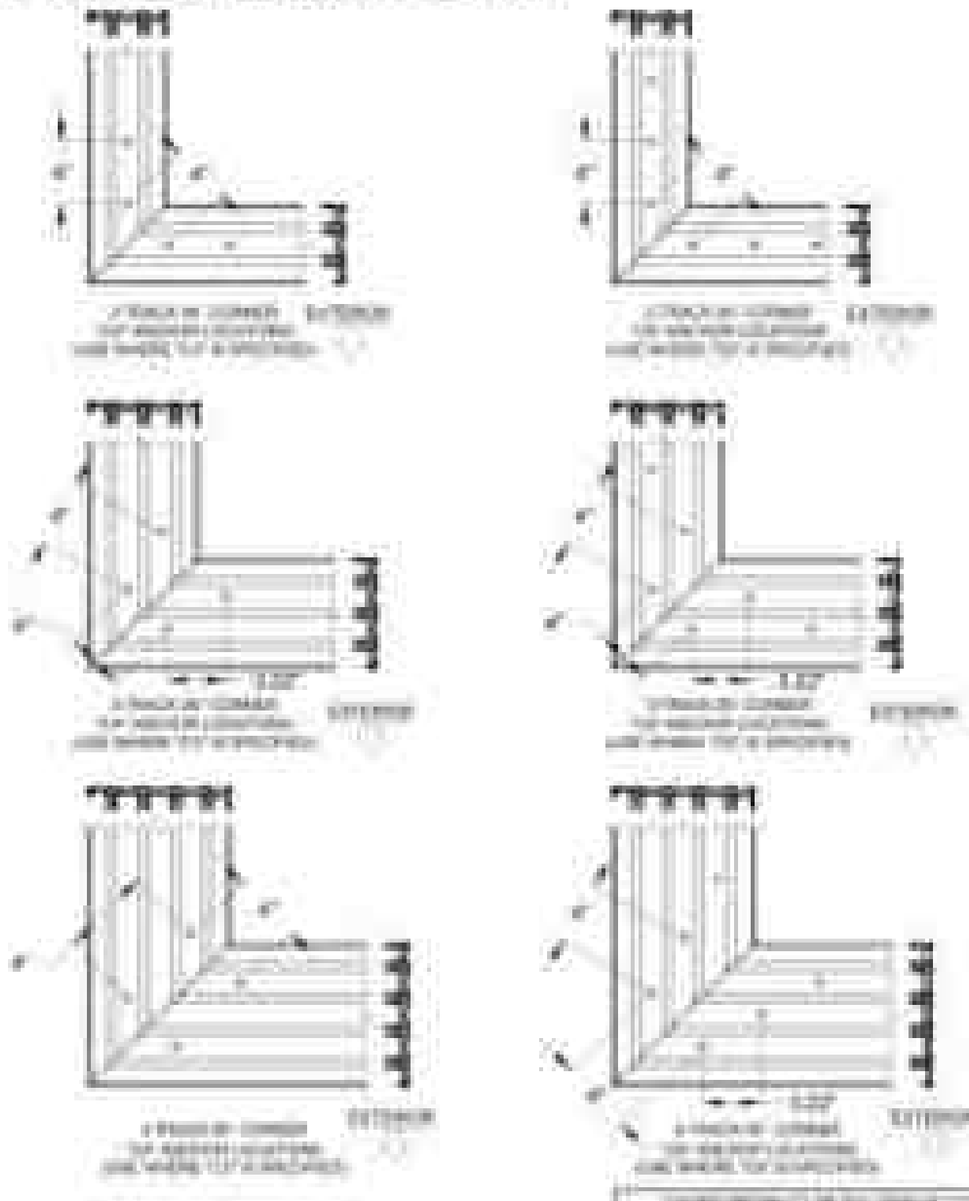
SILL WEEPHOLE LAYOUT (2, 3 & 4 TRACKS)



HEAD 90° CORNER CLUSTER ANCHORS LAYOUT



SILL 90° CORNER CLUSTER ANCHORS LAYOUT



NOTES:

1) ALL DIMENSIONS SHOWN ARE BASED ON MAXIMUM ALLOWED.

2) DETAILS EXPECT WHICH QUANTITY AND SPACING ARE WOULD BE SIMILAR FOR OUTSIDE (SHOWN) AND INSIDE CORNER CONFIGURATIONS.

3) TRACK TO TRACK DISTANCE +0.3.375" FOR ALL HEADS AND SILLS.



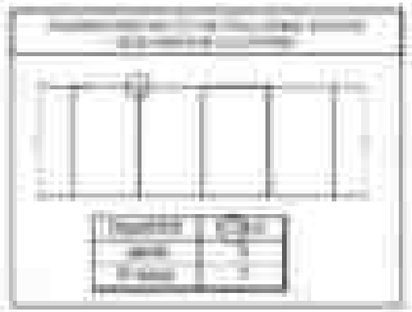
PGT

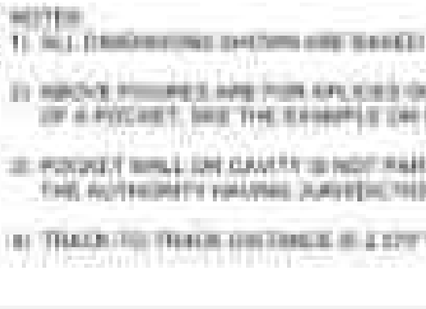
HEAD SPLICE ANCHORS @ INTERLOCK



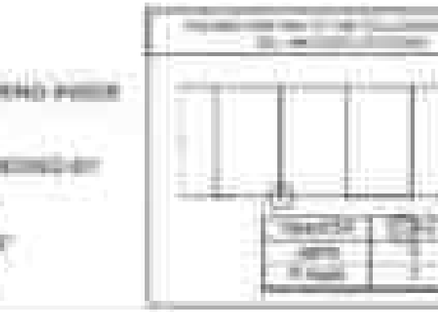
SILL SPLICE ANCHORS @ INTERLOCK











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

2) ABOVE FIGURES ARE FOR SPLICES OCCURRING AT THE INTERFACE OR INTERLOCK. FOR SPLICES OCCURRING INSIDE OF A POCKET, SEE THE EXAMPLE ON SHEET 10

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





PANEL STILE TYPES			
EF			
F			
PP			
K			
L			
SM			

PANEL STILE TYPES			
B			
E			
P			
A			
CO			
C			

PANEL STILE TYPES			
RR			
R			
SO			
SI			

PANEL STILE TYPES			
D			
M			
JO			
JI			

PANEL STILE TYPES			
LR			
TO			
UO			

PANEL STILE TYPES			
N			
TI			
UI			
V			

PANEL STILE TYPES			
AT			
TA			
CS			
SC			
AS			
SA			
CF			
FC			
CS			
TC			

SCREEN PANEL TYPES			
C			
M			
J			
SD			
A			
U			
DS			



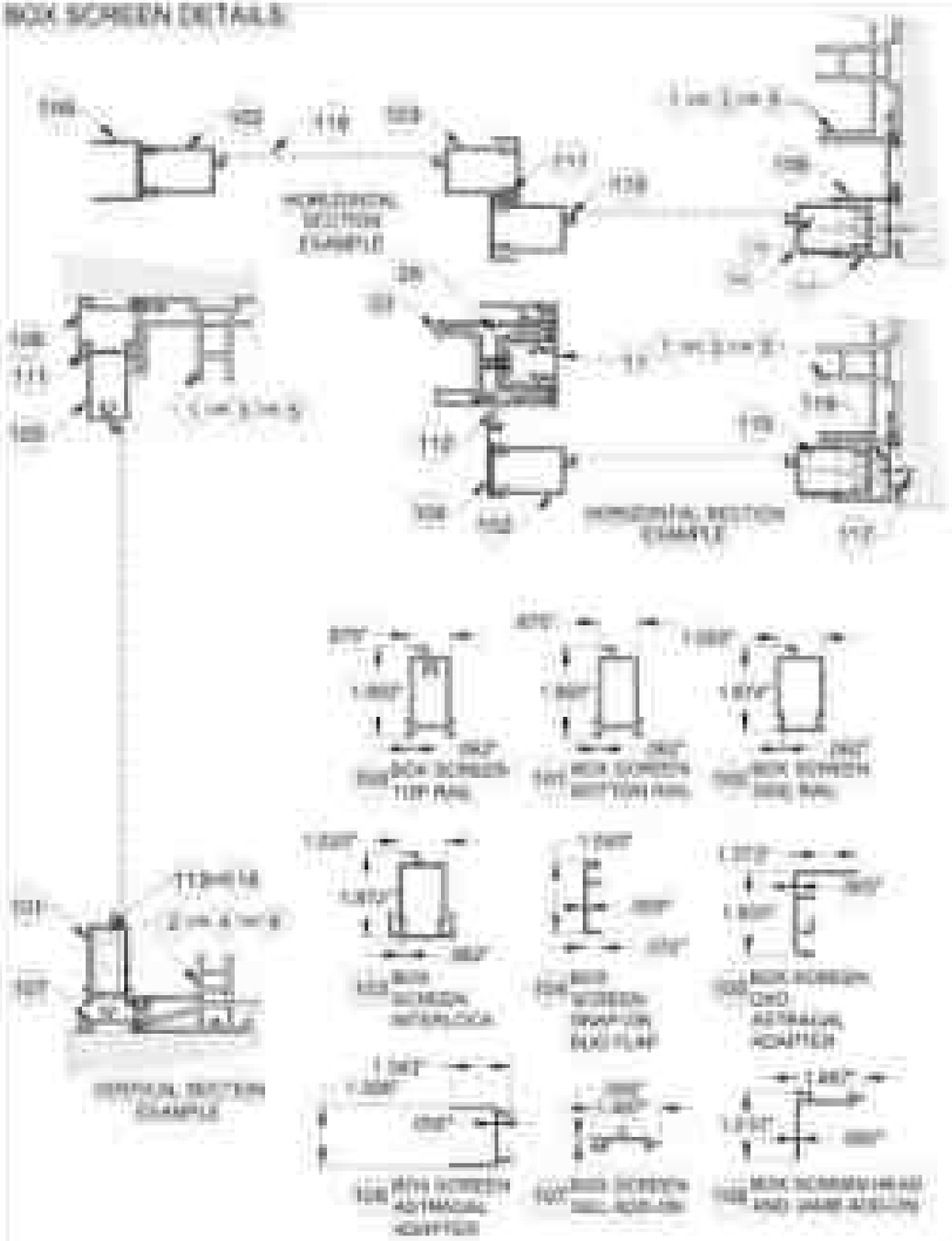
PANEL NOTES:

1) SEE EXPANSION TABLE 1 - 2, SHEETS 6 & 7 FOR PANEL SIZES & DESIGN PRESSURE.
2) PANEL TYPES NOT SHOWN ARE NOT REQUIRED FOR ANY CONFIGURATIONS AND ARE NOT AVAILABLE.
3) MAXIMUM NOMINAL PANEL WIDTH FOR ALL PANEL CONFIGURATIONS IS 60".

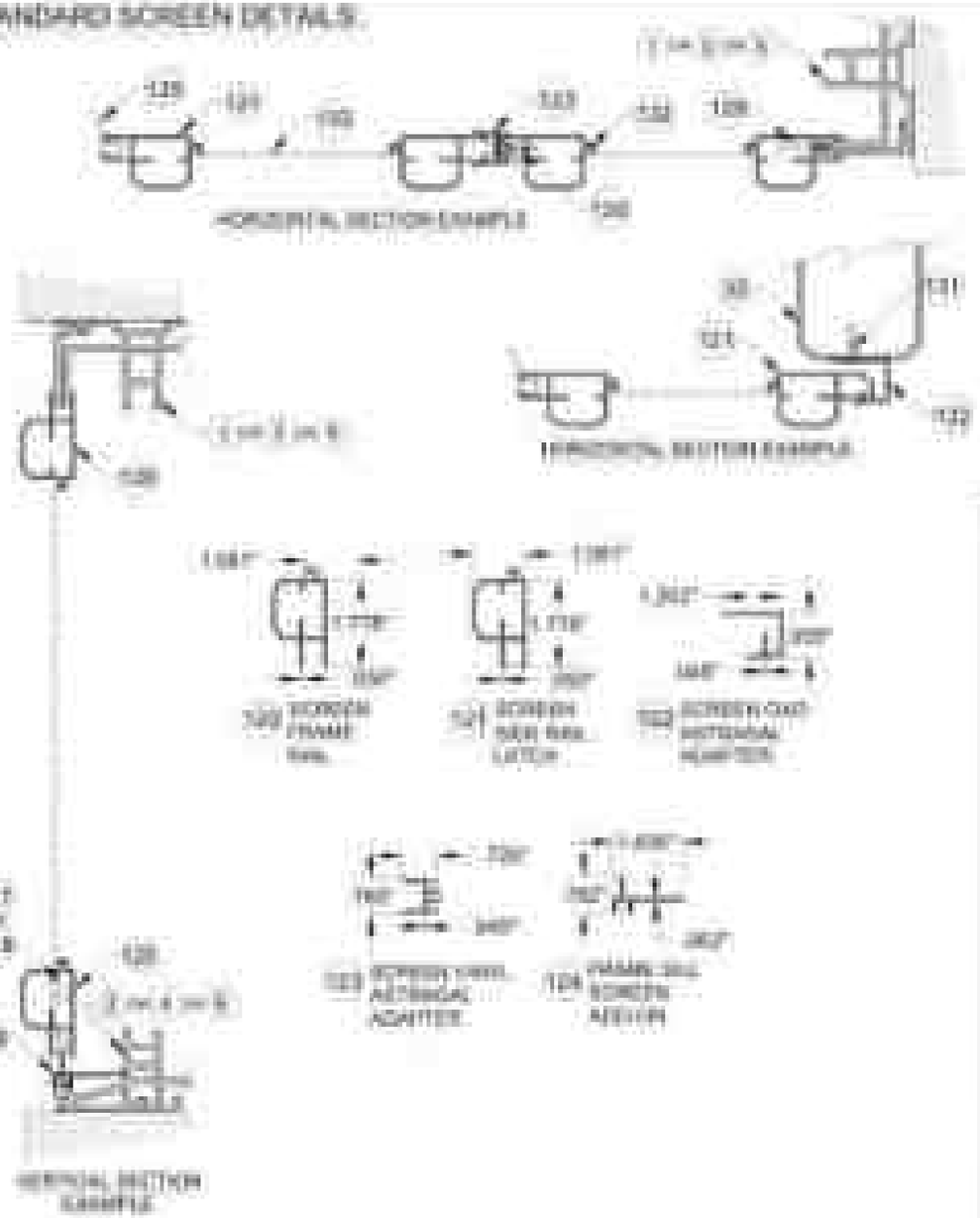
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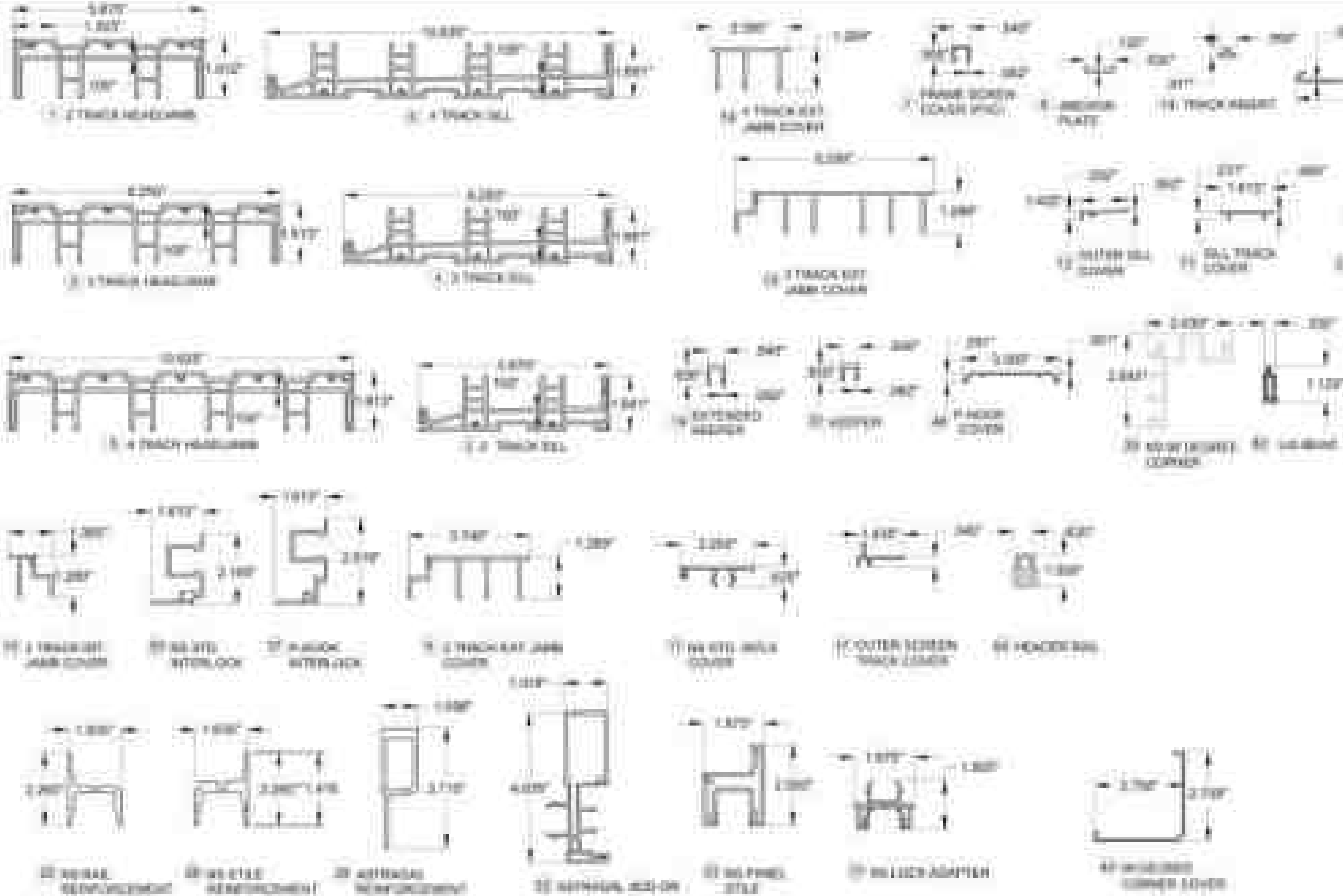
BOX SCREEN DETAILS



STANDARD SCREEN DETAILS



PCI



NOTES:
1) SEE SHEET 4 FOR SILL RISERS.
2) SEE SHEET 10 FOR SCREEN PARTS.

TABLE C1.

#	Part #	Description	Material
1	[illegible]	2 Panel Head/Jamb	Rigid PVC
2	[illegible]	2 Panel Sill	Rigid PVC
3	[illegible]	3 Panel Head/Jamb	Rigid PVC
4	[illegible]	3 Panel Sill	Rigid PVC
5	[illegible]	4 Panel Head/Jamb	Rigid PVC
6	[illegible]	4 Panel Sill	Rigid PVC
7	[illegible]	Panel Screw Cover	Rigid PVC
8	[illegible]	Anchor Plate	6063-T6 Alum.
9	[illegible]	2 Panel Jamb Cover	Rigid PVC
10	[illegible]	Jamb Filler	Rigid PVC
11	[illegible]	[illegible]	Rigid PVC
12	[illegible]	[illegible] Cover	6063-T6 Alum.
13	[illegible]	[illegible] Cover	Rigid PVC / Alum.
[illegible]	[illegible]	[illegible]	6063-T6 Alum.
17	[illegible]	[illegible] Cover	6063-T6 Alum.
18	[illegible]	3 Panel Jamb Cover	Rigid PVC
19	[illegible]	4 Panel Jamb Cover	Rigid PVC
20	[illegible]	[illegible]	6063-T6 Alum.
21	[illegible]	[illegible]	6063-T6 Alum.
22	[illegible]	[illegible] Adapter	6063-T6 Alum.
23	[illegible]	Top/Bottom Rail Reinforcement	6063-T6 Alum.
[illegible]	[illegible]	[illegible] Reinforcement	6063-T6 Alum.
[illegible]	[illegible]	Interlock Reinforcement	6063-T6 Alum.
[illegible]	[illegible]	[illegible]	6063-T6 Alum.
[illegible]	[illegible]	[illegible] Support	Rigid PVC
[illegible]	[illegible]	Interlock [illegible]	Rigid PVC
[illegible]	[illegible]	[illegible]	Rigid PVC
[illegible]	[illegible]	[illegible] Interlock	6063-T6 Alum.
[illegible]	[illegible]	[illegible] Interlock Cap	6063-T6 Alum.
[illegible]	[illegible]	Foam Block [illegible]	Foam
[illegible]	[illegible]	[illegible]	6063-T6 Alum.
[illegible]	[illegible]	[illegible]	6063-T6 Alum.
[illegible]	[illegible]	[illegible]	6063-T6 Alum.
[illegible]	[illegible]	[illegible]	6063-T6 Alum.
[illegible]	[illegible]	[illegible] Cover	Rigid PVC

TABLE C2.

#	Part #	Description	Material
[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]
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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]	Rigid PVC
[illegible]	[illegible]	Setting Block [illegible]	[illegible]
[illegible]	[illegible]	Setting Block [illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	

TABLE E: STANDARD SCREEN

#	Part #	Description	Material
[illegible]	[illegible]	Screen Frame [illegible]	6063-T6 Al.
[illegible]	[illegible]	Screen Frame [illegible]	6063-T6 Al.
[illegible]	[illegible]	Screen [illegible]	6063-T6 Al.
[illegible]	[illegible]	Screen [illegible]	Rigid PVC
[illegible]	[illegible]	[illegible]	6063-T6 Al.
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	Screen Locking [illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	Screen Spline [illegible]	[illegible]
[illegible]	[illegible]	Screen Cloth	Fiberglass

TABLE D: [illegible] SCREEN

#	Part #	Description	Material
[illegible]	[illegible]	[illegible] Screen Top Rail	6063-T6 Al.
[illegible]	[illegible]	[illegible] Screen Bottom Rail	6063-T6 Al.
[illegible]	[illegible]	[illegible] Screen Side Rail	6063-T6 Al.
[illegible]	[illegible]	[illegible] Screen Interlock	6063-T6 Al.
[illegible]	[illegible]	[illegible]	6063-T6 Al.
[illegible]	[illegible]	[illegible]	6063-T6 Al.
[illegible]	[illegible]	[illegible]	6063-T6 Al.
[illegible]	[illegible]	[illegible]	6063-T6 Al.
[illegible]	[illegible]	[illegible]	6063-T6 Al.
[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]
[illegible]	[illegible]	Screen Cloth	Fiberglass

PGT

BILL OF MATERIALS

ANTHONY LYNN MILLER

PROFESSIONAL ENGINEER

STATE OF FLORIDA