INSTRUCTIONS:
1) KNOWING THE REQUIRED DESIGN PRESSURE OF THE OPENING, THE ANCHOR REQUIREMENTS FOR THE SLIDING GLASS DOORS MAY BE DETERMINED FROM DESIGN PRESSURE TABLES 1 OR 2, DEPENDING ON THE GLASS/REINFORCEMENT.
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 TABLES (TABLES 1 OR 2), VERIFY THAT THE OPENING'S REQUIRED DESIGN PRESSURE 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 9.

GENERAL NOTES:
1) GLAZING TYPE OPTIONS: SEE GLAZING DETAILS ON SHEET 10.
2) DESIGN PRESSURES:
   A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS PER ASTM E1300.
   B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS PER ASTM E1300.
3) ANCHORAGE: THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. ANCHORS SHALL BE COATED OR CORROSION RESISTANT AS SPECIFIED IN THE 2006 TEXAS REVISIONS TO THE 2006 INTERNATIONAL BUILDING CODE.
4) SHUTTERS ARE NOT REQUIRED PER IBC REQUIREMENTS, AS APPLICABLE.
5) INSTALLATION SCREWS & FRAME SPLICES TO BE SEALED WITH NARROW JOINT SEALANT.
6) REFERENCES (NOA'S): ELCO ULTRACON, CRETEFLEX & AGGREGATOR ANCHOR NOA'S, VISION EXTRUSION, LTD.
   WHITE RIGID PVC NOA, VE 1000 1/2" REDUCED SHADES (NON-WHITE) RIGID PVC NOA AND BROWN COATED (PAINTED OR LAMINATED) WHITE RIGID PVC NOA

REFERENCES (TEST REPORTS):
FTL-6367, 6368, 6370, 6371, 6376-6380, 8539-8545; EXOVA-10-002-792(A) & 10-006-10231; CAMBRIDGE 535753-09;

7) DOOR SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS OF THE IBC, AS APPLICABLE.
8) DRAWINGS DEPICT EXTERIOR-GLAZING, HOWEVER INTERIOR-GLAZING MAY BE SUBSTITUTED.
9) THE 5570 SERIES SLIDING GLASS DOOR MAY ALSO BE KNOWN AS THE 570/2770 SERIES.

ANCHOR NOTES:
1) FOR CONCRETE/CMU SUBSTRATE, SEE TABLE A ON THIS SHEET FOR EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS.
2) FOR OTHER SUBSTRATE APPLICATIONS SEE TABLE A ON THIS SHEET.
3) 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 WOOD 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.
4) IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MAX. 1/4" THICK & 3400 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.

STANDARDS USED:
2006 INTERNATIONAL BUILDING CODE (IBC)
ASTM E1300-09
ANSIAFAPA NDS-2012 FOR WOOD CONSTRUCTION ALUMINUM DESIGN MANUAL, ADM-2010

IMPACT RATING
RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE
SEE TABLES 1, 2 & B1, B2 ON SHEETS 7 & 8

DIGITALLY SIGNED BY
ANTHONY LYNN MILLER, P.E.
Date: 2017.07.27
10:23:52.04/00’

VINYL SLIDING GLASS DOOR TDI (LM)
EXAMPLE CONFIGURATIONS

1-PANEL CONFIGURATIONS

2-PANEL CONFIGURATIONS

3-PANEL CONFIGURATIONS

4-PANEL CONFIGURATIONS

5-PANEL CONFIGURATIONS

6-PANEL CONFIGURATIONS

7-PANEL CONFIGURATIONS

8-PANEL CONFIGURATIONS

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 pXXXXp, pXXXX OR XXXXp. OXXX IN POCKET CONFIGURATION CAN BE OXXXp.

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.

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

SGD-5570
3/24/16 VINYL SLIDING GLASS DOOR TDI (LM)

A. LYNN MILLER, P.E.
P.E.# 106954

7/27/2017
FOR INTERLOCKS ONLY
FOR ALL LOCKSTILES, ASTRAGALS, FIXED STILES AND HORIZONTAL RAILS

NOTES
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.
4) PANEL WIDTH DOES NOT INCLUDE INTERLOCK OR ASTRAGAL ADD-ON.
5) PANEL WIDTH DOES NOT INCLUDE INTERLOCK OR ASTRAGAL ADD-ON.
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.
7) SEE SHEET 20 FOR SCREEN DETAILS.
NOTES
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) SEE SHEETS 14 & 15 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 & 2.
3) CORNER ASTRAGAL MAY BE EITHER TO THE INTERIOR OR EXTERIOR, DEPENDING ON CONFIGURATION.
INTERIOR POCKETS MUST INCLUDE A NON-STRUCTURAL, FRAME JAMB TO REDUCE THE POSSIBILITY OF WATER INFILTRATION.

OPTIONAL NON-STRUCTURAL ANCHORS FOR INTERIOR POCKET JAMB

POCKET BY OTHERS, SEE NOTE 6 BELOW.

CONCRETE/CMU PER ANCHOR REQUIREMENT

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

OPT. ANCHOR

EDGE DISTANCE

EMBEDMENT

METAL TYP., ANCHOR LENGTH TO BE A MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE

DETAIL 11

INTO MASONRY

DETAIL 12

INTO MASONRY

DETAIL 13

INTO METAL

DETAIL 14

INTO WOOD

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 & 2.

4) SEE TABLES 1 & 2 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.

VINYL SLIDING GLASS DOOR TDI (LM) SGD-5570

T. BILL TALIAFERRO, P.E.

ANNE T. BILL TALIAFERRO, LTD.

P. O. BOX 1337

VENICE, FL 34285

(941) 480-1600

T. 941.480.1600

R. 941.480.1658

www.tdipg.com

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(941) 480-1600

P. E. # 106954

L. A. MILLER, P. E.
TABLE 1:

<table>
<thead>
<tr>
<th>Glass Types 1, 3 or 9</th>
<th>80°</th>
<th>90°</th>
<th>96°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astragal Reinforcement #29</td>
<td>68-15/16&quot; DLO Height</td>
<td>72-15/16&quot; DLO Height</td>
<td>84-15/16&quot; DLO Height</td>
</tr>
<tr>
<td>Lockstite Reinforcement #25 or #26</td>
<td>68-15/16&quot; DLO Height</td>
<td>72-15/16&quot; DLO Height</td>
<td>84-15/16&quot; DLO Height</td>
</tr>
<tr>
<td>Std. Interlock Reinforcement #27</td>
<td>68-15/16&quot; DLO Height</td>
<td>72-15/16&quot; DLO Height</td>
<td>84-15/16&quot; DLO Height</td>
</tr>
</tbody>
</table>

**Design Pressure (DP) and Anchor Quantities Required**

<table>
<thead>
<tr>
<th>Normal Panel Width</th>
<th>Design Pressure</th>
<th>+50/-50 psf</th>
<th>+60/-50 psf</th>
<th>+90/-50 psf</th>
</tr>
</thead>
<tbody>
<tr>
<td>19-1/8&quot; DLO Width</td>
<td>Head/Sill</td>
<td>C3+1</td>
<td>C3+1</td>
<td>C3+1</td>
</tr>
<tr>
<td></td>
<td>Jamb</td>
<td>C3+1</td>
<td>C3+1</td>
<td>C3+1</td>
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<tr>
<td></td>
<td>P-hook</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>25-1/8&quot; DLO Width</td>
<td>Head/Sill</td>
<td>C3+1</td>
<td>C3+1</td>
<td>C3+1</td>
</tr>
<tr>
<td></td>
<td>Jamb</td>
<td>C3+1</td>
<td>C3+1</td>
<td>C3+1</td>
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<tr>
<td></td>
<td>P-hook</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>31-1/8&quot; DLO Width</td>
<td>Head/Sill</td>
<td>C3+1</td>
<td>C3+1</td>
<td>C3+1</td>
</tr>
<tr>
<td></td>
<td>Jamb</td>
<td>C3+1</td>
<td>C3+1</td>
<td>C3+1</td>
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<td></td>
<td>P-hook</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>37-1/8&quot; DLO Width</td>
<td>Head/Sill</td>
<td>C3+1</td>
<td>C3+1</td>
<td>C3+1</td>
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<tr>
<td></td>
<td>Jamb</td>
<td>C3+1</td>
<td>C3+1</td>
<td>C3+1</td>
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<td></td>
<td>P-hook</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>43-1/8&quot; DLO Width</td>
<td>Head/Sill</td>
<td>C3+1</td>
<td>C3+1</td>
<td>C3+1</td>
</tr>
<tr>
<td></td>
<td>Jamb</td>
<td>C3+1</td>
<td>C3+1</td>
<td>C3+1</td>
</tr>
<tr>
<td></td>
<td>P-hook</td>
<td>7</td>
<td>7</td>
<td>7</td>
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</tbody>
</table>

**TABLE B1:**

<table>
<thead>
<tr>
<th>Minimum Sill Riser Height</th>
<th>Sill Riser Height</th>
<th>Nom. Sill Height</th>
<th>Max. (+) DP Allowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
<td>3-1/2&quot;</td>
<td>+600.0 psf</td>
<td></td>
</tr>
</tbody>
</table>

**Design Pressure (DP) and Anchor Quantities Required**

For all approved configurations on Sheet 2.

**Table Notes:**

1. See Sill Riser Types on Sheet 4.
2. Sheet applies to 2, 3, and 4 track configurations.
3. Refer to Anchor Notes, Sheet 1.
4. See sheets 11-16 for anchor location & spacing.

**Anchor Notes:**

- The maximum DP at these anchor quantities.
- # of anchors through the head & sill. (Ex: for C3+1, 3 anchors clustered at panel meeting point and 1 anchor required at midspan of panel).
- Total # of anchors required through the jamb.
- The # of anchors required through the p-hook, perpendicular to the glass.

**Finishes:**

- SGD-5570
- TDI-SGD5570.2
- 3/24/16

**Sill Riser Height:**

- 3-1/2" +600.0 psf

**Vinyl sliding glass door TDI (LM):**

<table>
<thead>
<tr>
<th>DLO Width</th>
<th>= Nom. Panel Width - 8-9/16&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>DLO Height</td>
<td>= Door Height - 11-1/16&quot;</td>
</tr>
<tr>
<td>Panel Height</td>
<td>= Door Height - 2-1/2&quot;</td>
</tr>
</tbody>
</table>

**References:**

- P.E. A. LYNN MILLER, P.E.
- 7/27/2017
- 1070 TECHNOLOGY DRIVE
- N. VENICE, FL 34275
- (941)-480-1600
<table>
<thead>
<tr>
<th>Design Pressure (DP) and Anchor Quantities Required</th>
</tr>
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<tbody>
<tr>
<td><strong>Table 2:</strong></td>
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<tr>
<td><strong>NTS 8 OF 25</strong></td>
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<tr>
<td><strong>Table Notes:</strong></td>
</tr>
<tr>
<td>1) SEE SILL RISER TYPES ON SHEET 4.</td>
</tr>
<tr>
<td>2) SHEET APPLIES TO 2, 3 AND 4 TRACK CONFIGURATIONS.</td>
</tr>
<tr>
<td>3) REFER TO ANCHOR NOTES, SHEET 1.</td>
</tr>
<tr>
<td>4) SEE SHEETS 11-16 FOR ANCHOR LOCATION &amp; SPACING</td>
</tr>
</tbody>
</table>

**DP & ANCHOR QUANTITY TABLE**

**TABLE B2:**

<table>
<thead>
<tr>
<th>Minimum Sill Riser Height</th>
<th>Sill Riser</th>
<th>Nom. Sill Height</th>
<th>Mat. (*+) DP Altered</th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
<td>3-1/2&quot;</td>
<td>±100.0 psf</td>
<td>±100.0 psf</td>
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<tr>
<td>44</td>
<td>4-1/16&quot;</td>
<td>±100.0 psf</td>
<td>±100.0 psf</td>
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<tr>
<td>45</td>
<td>4-5/8&quot;</td>
<td>±100.0 psf</td>
<td>±100.0 psf</td>
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</tbody>
</table>

**DLO WIDTH = NOM. PANEL WIDTH - 8-9/16"**

**DLO HEIGHT = DOOR HEIGHT - 11-1/16"**

**PANEL HEIGHT = DOOR HEIGHT - 2-1/2"**

**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.**

**# OF ANCHORS THROUGH THE HEAD & SILL. (EX: FOR C3+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 2:**

<table>
<thead>
<tr>
<th>Design Pressure +100/-100 psf</th>
<th>+100/-100 psf</th>
<th>+100/-100 psf</th>
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<th>+100/-100 psf</th>
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<tbody>
<tr>
<td>Head/Sill</td>
<td>C3+1</td>
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**NOTE:**

- Table 2 provides design pressure and anchor quantities required for various door configurations.
- The table includes different DLO widths and panel heights, with corresponding anchor pressures and quantities.
- Table notes provide additional instructions and references for further details.
EXAMPLE:

3-PANEL 3 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: +48.2/-58.6 PSF

1) KNOWING THE PRODUCT'S REQUIREMENTS, SCAN THROUGH TABLES 1 & 2 FOR A DESIGN PRESSURE THAT MEETS OR EXCEEDS THE REQUIREMENT OF +48.2/-58.6 AT A NOM. PANEL SIZE OF 48" X 84". FROM TABLE 1, SHEET 7, THE DESIGN PRESSURE IS +60/-60 WHICH EXCEEDS THE PROJECT DESIGN PRESSURE REQUIREMENTS.

FOR WOOD 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/ASTRAGAL.

HEAD (INTERMEDIATE ANCHORS): SHEET 12 FOR THE "+2" ANCHORS AT THE MIDSPAN OF EACH PANEL.

SILL (CLUSTER ANCHORS): SHEET 11 FOR THE "C3" CLUSTER ANCHORS AT THE INTERLOCK/ASTRAGAL.

SILL (INTERMEDIATE ANCHORS): SHEET 11 FOR THE "+2" ANCHORS AT THE MIDSPAN OF EACH PANEL.

JAMB: 5 ANCHORS, SHEET 13 FOR GENERAL LAYOUT.

P-HOOK: 7 ANCHORS, SHEET 13 FOR GENERAL LAYOUT.

3) INSTALLATION DETAILS INTO WOOD CAN BE FOUND ON:

HEAD & SILL, SHEET 4

JAMB: SHEET 3

P-HOOK: SHEET 6

FOR PRODUCT REFERENCES, ALSO SEE:

A) SHEET 2 FOR ALLOWABLE CONFIGURATIONS AND EXACT LOCATIONS OF CROSS-SECTION DRAWINGS.

B) SHEET 10 FOR SPECIFIC GLAZING TYPES.

C) SHEET 17 FOR ALLOWABLE PANEL TYPES AND CALL NAMES.

D) SHEETS 4 & 19 FOR EXTRUSION CROSS-SECTION DRAWINGS.

E) SHEET 19 FOR INSTALLATION OF ADDITIONAL ACCESSORIES.

F) SHEET 21 FOR A BILL OF MATERIALS.
NOTES:
1) BACKBEDDING SURFACES SHALL NOT BE PAINTED OR LAMINATED.
2) PRODUCT MAY BE EITHER INTERIOR OR EXTERIOR GLAZED, PROVIDED THAT THE "HS" SURFACE OF A LAMINATED GLAZING UNIT IS ADHERED TO THE GLAZING LEG.

"ANN" = ANNEALED
"HS" = HEAT STRENGTHENED
"T" = TEMPERED
"PVB" = .090" BUTACITE® PVB INTERLAYER BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.
HEAD CLUSTER ANCHORS LAYOUT:

- 2-TRACK CLUSTER "C3" ANCHOR LOCATIONS
- 3-TRACK CLUSTER "C3" ANCHOR LOCATIONS
- 4-TRACK CLUSTER "C3" ANCHOR LOCATIONS

- 2-TRACK CLUSTER "C5" ANCHOR LOCATIONS
- 3-TRACK CLUSTER "C5" ANCHOR LOCATIONS
- 4-TRACK CLUSTER "C5" ANCHOR LOCATIONS

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS.

HEAD "4+" INTERMEDIATE ANCHORS LAYOUT:

- 2-TRACK INTERMEDIATE "+1" ANCHOR LOCATIONS
- 2-TRACK INTERMEDIATE "+2" ANCHOR LOCATIONS
- 2-TRACK INTERMEDIATE "+3" ANCHOR LOCATIONS

- 3-TRACK INTERMEDIATE "+1" ANCHOR LOCATION
- 3-TRACK INTERMEDIATE "+2" ANCHOR LOCATIONS
- 3-TRACK INTERMEDIATE "+3" ANCHOR LOCATIONS

- 4-TRACK INTERMEDIATE "+1" ANCHOR LOCATION
- 4-TRACK INTERMEDIATE "+2" ANCHOR LOCATIONS
- 4-TRACK INTERMEDIATE "+3" ANCHOR LOCATIONS

- ASTRAGAL OR INTERLOCK CENTERLINE

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS.

FIGURES PERTAIN TO THE FOLLOWING HEAD CLUSTER ANCHOR LOCATIONS:

- 2-TRACK CLUSTER "C3"
- 3-TRACK CLUSTER "C3"
- 4-TRACK CLUSTER "C3"

- 2-TRACK CLUSTER "C5"
- 3-TRACK CLUSTER "C5"
- 4-TRACK CLUSTER "C5"

- 2-TRACK INTERMEDIATE
- 3-TRACK INTERMEDIATE
- 4-TRACK INTERMEDIATE

- P-hook
- Jamb
- Head/Slit
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):

NOTES:
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)
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:
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.
HEX SPsparse ANCHORS LAYOUT @ INTERLOCK OR ASTRAAGAL:

SILL SPARSE ANCHORS LAYOUT @ INTERLOCK OR ASTRAAGAL:

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
2) ABOVE FIGURES ARE FOR SPLICES OCCURRING AT THE ASTRAAGAL OR INTERLOCK.
3) TRACK-TO-TRACK DISTANCE IS 2.375" 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.
<table>
<thead>
<tr>
<th>PANEL TYPES</th>
<th>SINGLE INTERLOCK OUT</th>
<th>SINGLE INTERLOCK IN</th>
<th>FIXED STILE</th>
<th>LOCKSTILE W/ PANELS</th>
<th>ASTRAGAL BOX OUT</th>
<th>ASTRAGAL BOX IN</th>
<th>OUTSIDE 90° ASTRAGAL RECEIVER</th>
<th>INSIDE 90° ASTRAGAL RECEIVER</th>
<th>OUTSIDE 135° ASTRAGAL RECEIVER</th>
<th>INSIDE 135° ASTRAGAL RECEIVER</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>F</td>
<td>PP</td>
<td>K</td>
<td>L</td>
<td>(box out)</td>
<td>(box in)</td>
<td>L</td>
<td>TC</td>
<td>TA</td>
<td>TV</td>
</tr>
<tr>
<td>B</td>
<td>H</td>
<td>P</td>
<td>A</td>
<td>C</td>
<td>(box out)</td>
<td>(box in)</td>
<td>S</td>
<td>S</td>
<td>FC</td>
<td>FD</td>
</tr>
<tr>
<td>RR</td>
<td>R</td>
<td></td>
<td>D</td>
<td>M</td>
<td>(box out)</td>
<td>(box in)</td>
<td>J</td>
<td>J</td>
<td></td>
<td></td>
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**PANEL'S RIGHT STILE TYPE**

**SCREEN PANEL TYPES**

<table>
<thead>
<tr>
<th>C</th>
<th>DOUBLE INTERLOCK</th>
<th>ASTRAGAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>LOCKSTILE</td>
<td>DOUBLE INTERLOCK</td>
</tr>
<tr>
<td>J</td>
<td>LOCKSTILE</td>
<td>ASTRAGAL</td>
</tr>
<tr>
<td>SD</td>
<td>DOUBLE INTERLOCK</td>
<td>SINGLE INTERLOCK</td>
</tr>
<tr>
<td>A</td>
<td>LOCKSTILE</td>
<td>LOCKSTILE</td>
</tr>
<tr>
<td>U</td>
<td>ASTRAGAL</td>
<td>LOCKSTILE</td>
</tr>
<tr>
<td>DS</td>
<td>DOUBLE INTERLOCK</td>
<td>SINGLE INTERLOCK</td>
</tr>
</tbody>
</table>

**PANEL NOTES:**

1) SEE DP/ANCHOR TABLES 1 & 2, SHEETS 7-8 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".

4) PANEL TYPE MAY BE EITHER EXTERIOR (STANDARD) OR INTERIOR GLAZED, BOTH TYPES QUALIFIED BY THIS APPROVAL, SEE DETAILS SHEET 10.
1. INSTALL CLIP INTO PANEL STILE.
2. INSTALL CLIP INTO FRAME JAMB & SUBSTRATE, SEE TABLE 1.

**Fixed Panel Clip**

Install one clip at the midspan of each fixed panel-to-frame jamb location.

**Header Block to Head Attachment**

Install one block at each interlock. At astragal, install one block that spans both panels.

**Panel Assembly**

All panel corners welded, no assembly fasteners.

**Notes**

1. Details apply to 2, 3 and 4 track configurations.
2. See sheets 11-16 for anchor location & spacing.
3. See tables 1 & 2 for reinforcement requirements.
4. Continuous anchor plate, item #8, is required at all frame anchor locations.
BOX SCREEN DETAILS:

STANDARD SCREEN DETAILS:

NOTES:
1) ALL DIMENSIONS IN INCHES.

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

SCREEN DETAILSGD-5570
J ROSOWSKI

SGD-5570
NTS
20 OF 25
TDI-SGD5570.2.2

A. LYNN MILLER, P.E.
P.E. # 106954

7/27/2017

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LICENSED
\"THE STATE OF FLORIDA, LICENSED\"
### Table C:

<table>
<thead>
<tr>
<th>#</th>
<th>Part #</th>
<th>Description</th>
<th>Material</th>
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<tbody>
<tr>
<td>1</td>
<td>19001</td>
<td>2-Track Head/Lamb</td>
<td>Rigid PVC</td>
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<tr>
<td>2</td>
<td>19002</td>
<td>2-Track Sill</td>
<td>Rigid PVC</td>
</tr>
<tr>
<td>3</td>
<td>19025</td>
<td>3-Track Head/Lamb</td>
<td>Rigid PVC</td>
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<tr>
<td>4</td>
<td>19026</td>
<td>3-Track Sill</td>
<td>Rigid PVC</td>
</tr>
<tr>
<td>5</td>
<td>19027</td>
<td>4-Track Head/Lamb</td>
<td>Rigid PVC</td>
</tr>
<tr>
<td>6</td>
<td>19028</td>
<td>4-Track Sill</td>
<td>Rigid PVC</td>
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<tr>
<td>7</td>
<td>19099</td>
<td>Frame Screw Cover</td>
<td>Rigid PVC</td>
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<tr>
<td>8</td>
<td>19031</td>
<td>Anchor Plate</td>
<td>6063-T6 Alum.</td>
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<td>9</td>
<td>19007</td>
<td>Track Insert</td>
<td>Rigid PVC</td>
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<tr>
<td>10</td>
<td>19036</td>
<td>Interlock Cap - Extended Pocket</td>
<td>Rigid PVC</td>
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<tr>
<td>11</td>
<td>19036</td>
<td>Bottom Rail Support</td>
<td>Rigid PVC</td>
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<tr>
<td>12</td>
<td>19006A</td>
<td>Outer Sill Cover</td>
<td>Rigid PVC</td>
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<tr>
<td>13</td>
<td>19011</td>
<td>Sill Track Cover</td>
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<tr>
<td>14</td>
<td>19032</td>
<td>P-Hook Adapter</td>
<td>Rigid PVC</td>
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<tr>
<td>15</td>
<td>19023</td>
<td>P-Boom</td>
<td>Rigid PVC</td>
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<tr>
<td>16</td>
<td>19047M</td>
<td>Extended Keeper</td>
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<td>17</td>
<td>19029M</td>
<td>Keeper</td>
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<td>18</td>
<td>19028</td>
<td>Reinforcement Bar Cover</td>
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<td>19</td>
<td>19030</td>
<td>Reinforcement Bar</td>
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<td>20</td>
<td>19037M</td>
<td>Fixed Panel Clip</td>
<td>Rigid PVC</td>
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<td>21</td>
<td>19035M</td>
<td>Reinforcement Plate</td>
<td>Rigid PVC</td>
</tr>
<tr>
<td>22</td>
<td>19017M</td>
<td>Top Rail - Bottom Rail and Lockside Reinforcement</td>
<td>Composite</td>
</tr>
<tr>
<td>23</td>
<td>19046</td>
<td>Interlock Cap 300 Reinforcement - Std.</td>
<td>Rigid PVC</td>
</tr>
<tr>
<td>24</td>
<td>19013M</td>
<td>Interlock Cap 400 Reinforcement - HD</td>
<td>Rigid PVC</td>
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<tr>
<td>25</td>
<td>19019M</td>
<td>Armadillo Reinforcement</td>
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<td>26</td>
<td>19063</td>
<td>Extended Pocket Interlock Adapter</td>
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<tr>
<td>27</td>
<td>19006</td>
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<td>28</td>
<td>19008</td>
<td>Astragal Act-on</td>
<td>Rigid PVC</td>
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<tr>
<td>29</td>
<td>19004</td>
<td>Panel Silie, Top/Bottom Rail</td>
<td>Rigid PVC</td>
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<tr>
<td>30</td>
<td>19048</td>
<td>Interior Jamo Cover</td>
<td>6063-T6 Alum.</td>
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<tr>
<td>31</td>
<td>19076</td>
<td>135° Corner Astragal</td>
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<tr>
<td>32</td>
<td>19077</td>
<td>135° Corner Astragal, Passiv Mount</td>
<td>Rigid PVC</td>
</tr>
<tr>
<td>33</td>
<td>19079</td>
<td>135° Corner Astragal - Ext</td>
<td>Rigid PVC</td>
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<tr>
<td>34</td>
<td>19080</td>
<td>135° Corner Astragal - Int.</td>
<td>Rigid PVC</td>
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<td>35</td>
<td>19082</td>
<td>90° Corner Astragal - Ext.</td>
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<tr>
<td>36</td>
<td>19083</td>
<td>90° Corner Astragal - Int.</td>
<td>Rigid PVC</td>
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<tr>
<td>37</td>
<td>876514PPX</td>
<td>#1 x 1/2&quot; x 1/4&quot; Anchor Plug</td>
<td>PVC</td>
</tr>
<tr>
<td>38</td>
<td>619696K</td>
<td>1-1/2&quot; x 1 x 3/4&quot; Blind Flange</td>
<td>PVC</td>
</tr>
<tr>
<td>39</td>
<td>619696</td>
<td>1/2&quot; x 1 x 3/4&quot; Blind Flange</td>
<td>PVC</td>
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</table>

### Table D: Box Screen

<table>
<thead>
<tr>
<th>#</th>
<th>Part #</th>
<th>Description</th>
<th>Material</th>
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<tbody>
<tr>
<td>101</td>
<td>12256</td>
<td>Box Screen Top Rail</td>
<td>6063-T5 Al</td>
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<tr>
<td>102</td>
<td>12557</td>
<td>Box Screen Bottom Rail</td>
<td>6063-T5 Al</td>
</tr>
<tr>
<td>103</td>
<td>12258</td>
<td>Box Screen Side Rail</td>
<td>6063-T5 Al</td>
</tr>
<tr>
<td>104</td>
<td>64428</td>
<td>Box Screen Interlock</td>
<td>6063-T5 Al</td>
</tr>
<tr>
<td>105</td>
<td>17347A</td>
<td>Box Screen Snap-on Bug Flap</td>
<td>6063-T5 Al</td>
</tr>
<tr>
<td>106</td>
<td>64345</td>
<td>Box Screen OXO Aastragal Adapter</td>
<td>6063-T5 Al</td>
</tr>
<tr>
<td>107</td>
<td>17349</td>
<td>Box Screen Astragal Adapter</td>
<td>6063-T5 Al</td>
</tr>
<tr>
<td>108</td>
<td>19039</td>
<td>Box Screen Frame Sill Add-on</td>
<td>6063-T5 Al</td>
</tr>
<tr>
<td>109</td>
<td>19038</td>
<td>Box Screen Head/Lamb Add-on</td>
<td>6063-T5 Al</td>
</tr>
<tr>
<td>110</td>
<td>720X1121</td>
<td>#14-20 x 1-1/2&quot; SS @ Top Rail</td>
<td>6063-T5 Al</td>
</tr>
<tr>
<td>111</td>
<td>720X1122</td>
<td>#14-20 x 1-1/2&quot; SS @ Bottom Rail</td>
<td>6063-T5 Al</td>
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<tr>
<td>112</td>
<td>71793G</td>
<td>Weld, 270° x 150° - Fin Seal</td>
<td>6063-T5 Al</td>
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<tr>
<td>113</td>
<td>61805K</td>
<td>Weld, 180° x 500° - Bug Flap</td>
<td>6063-T5 Al</td>
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</table>

### Table E: Standard Screen

<table>
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<tr>
<th>#</th>
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</thead>
<tbody>
<tr>
<td>114</td>
<td>79RAZ</td>
<td>Standard Roller</td>
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<tr>
<td>115</td>
<td>79RAZ</td>
<td>HD Roller</td>
<td>Nylon</td>
</tr>
</tbody>
</table>

### Notes:

- Items #14-16, 46-49, 53-59, 73, 74 & 87-89, 98 & 99 are not used and are not part of this Approval.
ANCHORAGE DETAILS FOR SLIDING GLASS DOORS WHEN INSTALLED WITH FRAME FIN ADDON @ HEAD AND JAMB (SHEETS 22-25)

TO ACHIEVE PROPER ANCHOR EDGE DISTANCE, THE FOLLOWING SHEETS (22-25) SHOW ANCHOR PATTERNS THAT MUST BE USED WHEN USING THE FRAME FIN ADDON.

NOTES:
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) REFER TO TABLE A FOR ANCHOR CONSTRAINTS.
3) SILL ANCHORAGE WITH FIN ADDON IS UNCHANGED FROM THE BOX FRAME ANCHORAGE.

JAMB ANCHORS LAYOUT (USING FRAME FIN ADDON):

NOTES:
1) STANDARD ANCHOR LOCATIONS SHOWN. FOR 3 AND 4-TRACK JAMBS, ANCHORS IN THE INTERIOR TRACK MAY BE LOCATED IN THE ADJACENT TRACK AS REQUIRED TO MEET MIN. EDGE DISTANCE CONSTRAINTS FROM THE INTERIOR.

2-TRACK FRAME JAMB ANCHORAGE DETAIL

3-TRACK FRAME JAMB ANCHORAGE DETAIL

4-TRACK FRAME JAMB ANCHORAGE DETAIL

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

FIGURES PERTAIN TO THE FOLLOWING JAMB ANCHOR LOCATIONS:

1/4" MAX.

EMBEDMENT

EDGE DISTANCE

SUBSTRATE

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

2.375"

4.75"

SILL ANCHORAGE DETAIL

2-TRACK FRAME SILL ANCHORAGE DETAIL

HEAD ANCHORAGE DETAIL

2-TRACK FRAME HEAD ANCHORAGE DETAIL

FIGURES PERTAIN TO THE FOLLOWING JAMB ANCHOR LOCATIONS:

2-TRACK FRAME JAMB ANCHOR LOCATIONS A

3/24/16

22 OF 25
HEAD CLUSTER ANCHORS LAYOUT (USING FRAME FIN ADDON):

- ASTRAGAL OR INTERLOCK CENTERLINE
- EXTERIOR

- 2-TRACK CLUSTER "C3" ANCHOR LOCATIONS
  - 4"

- 3-TRACK CLUSTER "C3" ANCHOR LOCATIONS
  - 3.22"

- 4-TRACK CLUSTER "C3" ANCHOR LOCATIONS
  - 3.22"

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
2) TRACK-TO-TRACK DISTANCE IS 2.375".

FIGURES PERTAIN TO THE FOLLOWING HEAD CLUSTER ANCHOR LOCATIONS:

- 2-TRACK CLUSTER "C3" ANCHOR LOCATIONS
  - 4"

- 3-TRACK CLUSTER "C3" ANCHOR LOCATIONS
  - 3.22"

- 4-TRACK CLUSTER "C3" ANCHOR LOCATIONS
  - 3.22"

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS.

FIGURES PERTAIN TO THE FOLLOWING HEAD INTERMEDIATE ANCHOR LOCATIONS:

- 2-TRACK INTERMEDIATE ANCHOR LOCATIONS
  - +1" ANCHOR LOCATION

- 2-TRACK INTERMEDIATE "+2" ANCHOR LOCATIONS

- 2-TRACK INTERMEDIATE "+3" ANCHOR LOCATIONS

- 3-TRACK INTERMEDIATE "+2" ANCHOR LOCATIONS

- 3-TRACK INTERMEDIATE "+3" ANCHOR LOCATIONS

- 4-TRACK INTERMEDIATE "+2" ANCHOR LOCATIONS

- 4-TRACK INTERMEDIATE "+3" ANCHOR LOCATIONS

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS.

VINYL SLIDING GLASS DOOR TDI

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(941)-480-1600

J ROSOWSKI

P E. 106954
7/27/2017

A. LYNN MILLER, P.E.
HEAD SPLICE ANCHORS LAYOUT @ INTERLOCK OR ASTRAGAL (USING FRAME FIN ADDON):

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 DISTANCE IS 2.375".

*FIGURES PERTAIN TO THE FOLLOWING SPLICED ANCHOR LOCATIONS:
*2-TRACK SPLICE "C4" ANCHOR LOCATIONS (USE WHERE "C3" IS SPECIFIED)
*3-TRACK SPLICE "C4" ANCHOR LOCATIONS (USE WHERE "C3" IS SPECIFIED)
*4-TRACK SPLICE "C4" ANCHOR LOCATIONS (USE WHERE "C3" IS SPECIFIED)

HEAD ANCHOR LOCATIONS D:

- 4.75" SPLICE LOCATION
- 3.22" SPLICE LOCATION
- 4" SPLICE LOCATION
- 2" SPLICE LOCATION

ANCHOR LOCATIONS D:

- 1.625" HEAD SPLICE ANCHOR LOCATIONS
- 0.875" HEAD SPLICE ANCHOR LOCATIONS
- 0.125" HEAD SPLICE ANCHOR LOCATIONS

NOTES:

- HEAD SPLICE ANCHORS LAYOUT @ INTERLOCK OR ASTRAGAL (USING FRAME FIN ADDON)
- TRACK-TO-TRACK DISTANCE IS 2.375"