

## GENERAL NOTES – MATERIAL SPECIFICATIONS

### STRENGTH OF MATERIALS

1. CONCRETE (STANDARD STONE AGGREGATE)  
FOUNDATION AND SLAB ON GRADE –  $f'c = 3,000$ -PSI AT 28-DAYS.
2. REINFORCED STEEL DEFORMED BAR ASTM A615 GRADE 60
3. ALUMINUM COMPONENTS
  - COMPOSITE PANELS ALUMINUM ALLOY 3105 H14/H25
  - ROOF PANEL MINIMUM CORE MATERIAL 1.0# DENSITY EXPANDED POLY-STRENE
  - ALL FASTENERS MUST BE SUITABLY COATED, TREATED OR STAINLESS STEEL
  - MINIMUM SPACING OF FASTENERS SHALL BE FOUR TIMES THE NOMINAL FASTENER DIAMETER AND FASTENERS SHALL NOT BE PLACED WITHIN FOUR FASTENER DIAMETERS OF ANY EDGE.

### THERMAL BARRIER REQUIREMENTS

1. FOAM CORE COMPOSITE PANELS WHEN USED IN THE CONSTRUCTION OF A DWELLING OR AN ADDITION WHICH IS OPEN TO AN EXISTING DWELLING (NO DOORS), SHALL BE SEPARATED FROM THE INTERIOR OF THE DWELLING BY AN APPROVED THERMAL BARRIER OF 1/2" GYPSUM WALL BOARD OR EQUIVALENT.

### GLASS ROOMS

1. REFER TO SUPPLIED DESIGN INFORMATION ON EXTRUSIONS, PANEL CHARTS, CONNECTIONS AND FOUNDATIONS FOR SPECIFIC APPLICATIONS AS REQUIRED.
2. THE INFORMATION CONTAINED ON THE ENCLOSED SHEETS IS INTENDED AS A MINIMUM GENERAL GUIDLINE AND DOES NOT EXCLUDE THE USE OF ALTERNATE DETAILS WHERE ACCEPTED BY THE ENFORCING AGENCY AND OR DESIGNED BY A PROFESSIONAL ENGINEER.
3. WALL MEMBERS AND COLUMNS SHALL BE CONSIDERED AS BOTH VERTICAL LOAD BEARING ELEMENTS AND AS MEMBERS SPANNING VERTICALLY TO RESIST THE SOLID WALL LOADS.
4. ROOF PANELS FOR THESE STRUCTURES SHALL BE DESIGNED FOR AN ENCLOSED OR PARTIALLY ENCLOSED STRUCTURE PER IRC REQUIREMENTS.

### SCREEN ROOMS

1. REFER TO SUPPLIED DESIGN INFORMATION ON EXTRUSIONS, PANEL CHARTS, CONNECTIONS AND FOUNDATIONS FOR THE SPECIFIC APPLICATIONS AS REQUIRED.
2. THE INFORMATION CONTAINED ON THE ENCLOSED SHEETS IS INTENDED AS A MINIMUM GENERAL GUIDLINE AND DOES NOT EXCLUDE THE USE OF ALTERNATE DETAILS WHERE ACCEPTED BY THE ENFORCING AGENCY AND OR DESIGNED BY A PROFESSIONAL ENGINEER.
3. POSTS AND COLUMNS SHALL BE CONSIDERED AS BOTH VERTICAL LOAD BEARING ELEMENTS AND AS MEMBERS SPANNING VERTICALLY TO RESIST LATERAL LOADS.
4. ROOF PANELS FOR THESE STRUCTURES SHALL BE DESIGNED FOR A "SCREEN ROOM" STRUCTURE PER IRC REQUIREMENTS.

## THESE DRAWINGS SUPPLEMENT OTHER INFORMATION PROVIDED BY SOUTHERN EXPOSURE SUNROOMS OF WILMINGTON, NC 910-793-2762

### WINDOWS AND DOORS

1. STRUCTURAL ALUMINUM SUPPORT AND FRAMING MEMBERS USED IN NEW CONSTRUCTION OR RETROFIT OF GLASS PANE WINDOWS AND/OR DOORS UNDER NEW OR EXISTING ALUMINUM PANEL ROOFS SHALL COMPLY WITH THE DESIGN REQUIREMENTS OF IRC.
2. GLASS PANE WINDOW AND/OR ALUMINUM DOOR ROOM ENCLOSURES SHALL COMPLY WITH THE ELECTRICAL REQUIREMENTS OF THE N.E.C.
3. ALUMINUM PRIME WINDOWS AND SLIDING GLASS DOORS SHALL COMPLY WITH A.N.S.I./A.A.M.A. VOLUNTARY SPECIFICATIONS 101-88.
4. POLY-VINYL CHLORIDE PRIME WINDOWS AND SLIDING GLASS DOORS SHALL COMPLY WITH A.N.S.I./A.A.M.A. VOLUNTARY SPECIFICATIONS 101V086.
5. GLASS PANE WINDOW AND/OR DOOR ROOM ENCLOSURES CONSTRUCTED UNDER NEW OR EXISTING PITCHED COMPOSITE PANEL ROOFS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7'-0".
6. ALL EXIT/ENTRY DOORS IN GLASS PANE WINDOW ENCLOSURES SHALL BE A MINIMUM OF ONE AND ONE-HALF INCH (1.5") THICK PRIME ALUMINUM DOORS. DOOR GLASS SHALL COMPLY WITH THE REQUIREMENTS OF IRC.
7. ALL WINDOWS AND DOORS SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS FOR WOOD FRAME CONSTRUCTION EXCEPT THAT #10 SHEET METAL SCREW SHALL BE SUBSTITUTED FOR WOOD FASTENERS.
8. WINDOWS AND DOORS WITH IMPACT GLASS MAY BE USED IN LIEU OF STORM PANELS IN WIND-BORNE DEBRIS AREAS.

## GENERAL NOTES - RESIDENTIAL

1. ALL WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE, 2015 INTERNATIONAL RESIDENTIAL CODE WITH NORTH CAROLINA AMENDMENTS, 2018 EDITION, PLUS LOCAL CODES AND REGULATIONS (NCR). WORK NOT DETAILED SHALL COMPLY WITH THE REQUIREMENTS OF THE NCR.
2. SECTIONS AND DETAILS SHOWN SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.
3. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD AND TAKE ALL NECESSARY FIELD MEASUREMENTS.
4. THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACING TO STABILIZE THE BUILDING DURING CONSTRUCTION.

## DESIGN LOADS - RESIDENTIAL

1. DESIGN CRITERIA IS THE NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE, 2015 INTERNATIONAL RESIDENTIAL CODE WITH NORTH CAROLINA AMENDMENTS, 2018 EDITION.
2. WIND LOAD – NCR AND ASCE 7-05, 115 MPH, EXPOSURE B
3. VERTICAL LOADS SHALL INCLUDE THE FOLLOWING:

| LOCATION        | LIVE LOAD | DEAD LOAD | SNOW LOAD |
|-----------------|-----------|-----------|-----------|
| FLOOR AND DECKS | 40 PSF    | 20 PSF    |           |
| ROOF            | 20 PSF    | 10 PSF    | 10 PSF    |

FOR  
SOUTHERN EXPOSURE SUNROOMS  
PO BOX 12007  
WILMINGTON, NC 28405  
910-763-2762

**SOUTHERN  
EXPOSURE  
SUNROOMS  
WILMINGTON, NC**

GENERIC INSTALLATION

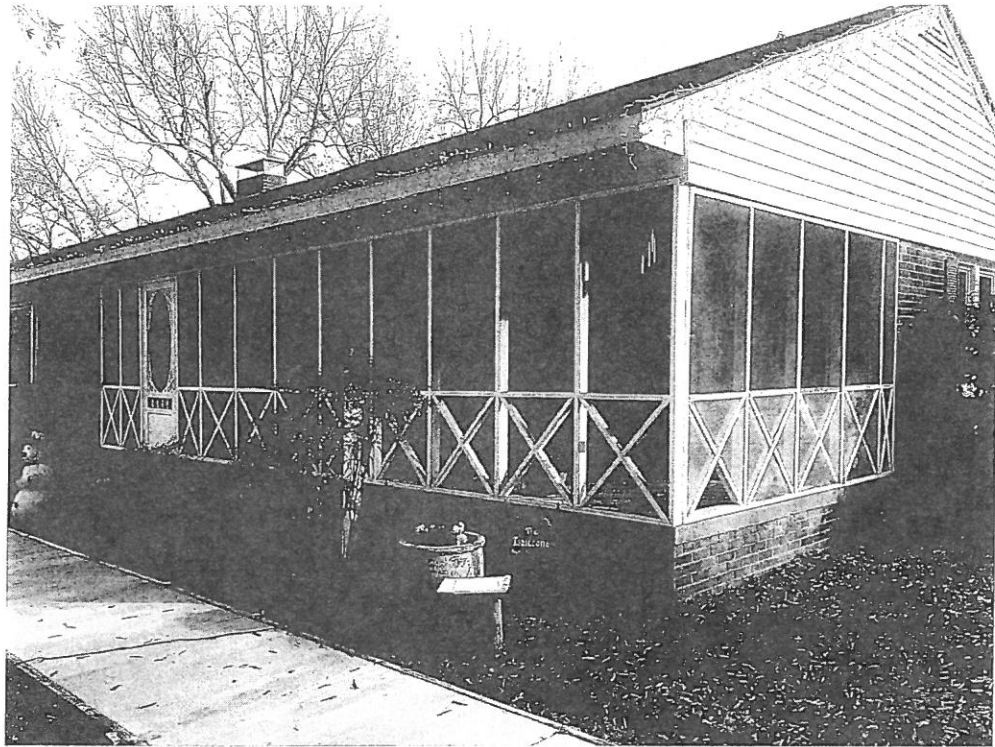
NOTES

BY:  
DATE:

CHK:  
ORDER:

**S-1**

## SCOPE OF WORK



- Room Color: White
- Room Style: Convert existing screen porch to glass sunroom.
- Demo: Tear out existing screen and applicable framing. Remove ceiling in porch area.
- Foundation & Roof: Existing.
- Walls: Install double pane, low e, argon insulated horizontal slider windows.
- Transom/knee wall: Install double pane, low e, insulated glass below all windows.
- Ceiling: Install sheetrock on porch ceiling, no painting included.
- Electric: Install (3) wall outlets, remove and relocate (1) wall outlet.

**SOUTHERN  
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SUNROOMS**  
WILMINGTON, NC

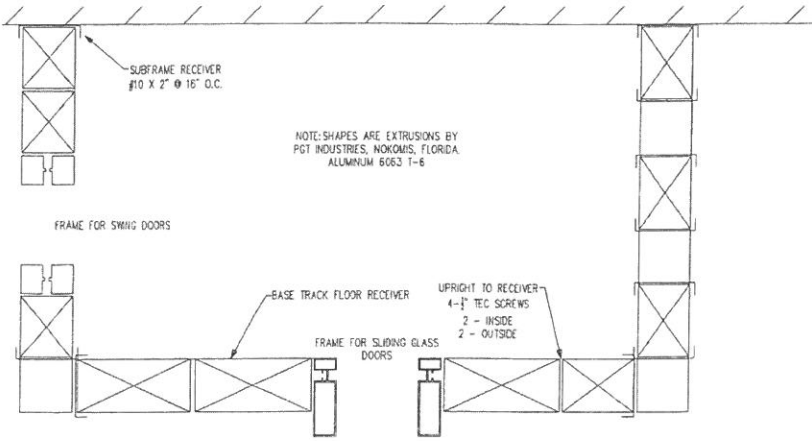
Jeff & Rebecca Isaacson  
649 Pendergraft  
Bunn Level, NC 28323  
910-242-9378

**SCOPE OF WORK**

BY:  
DATE:

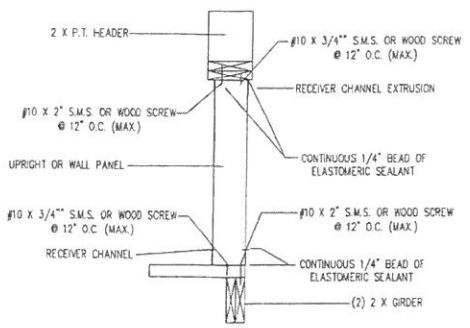
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ORDER:

**S-2**

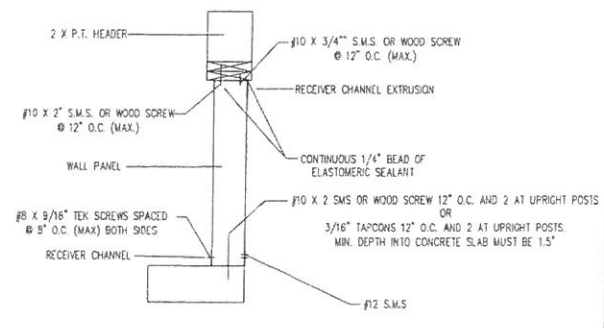


NOTE: SHAPES ARE EXTRUSIONS BY PGT INDUSTRIES, NOKOMIS, FLORIDA ALUMINUM 6063 T-6

3" ROOM WALL PLAN

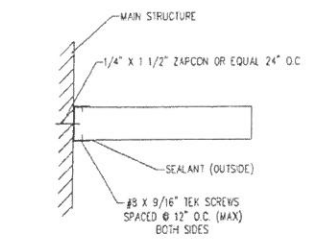


VERTICAL SECTION THRU WALL WOOD FRAMING CONNECTION

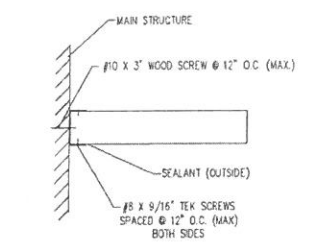


VERTICAL SECTION THRU WALL CONCRETE FOUNDATION CONNECTION

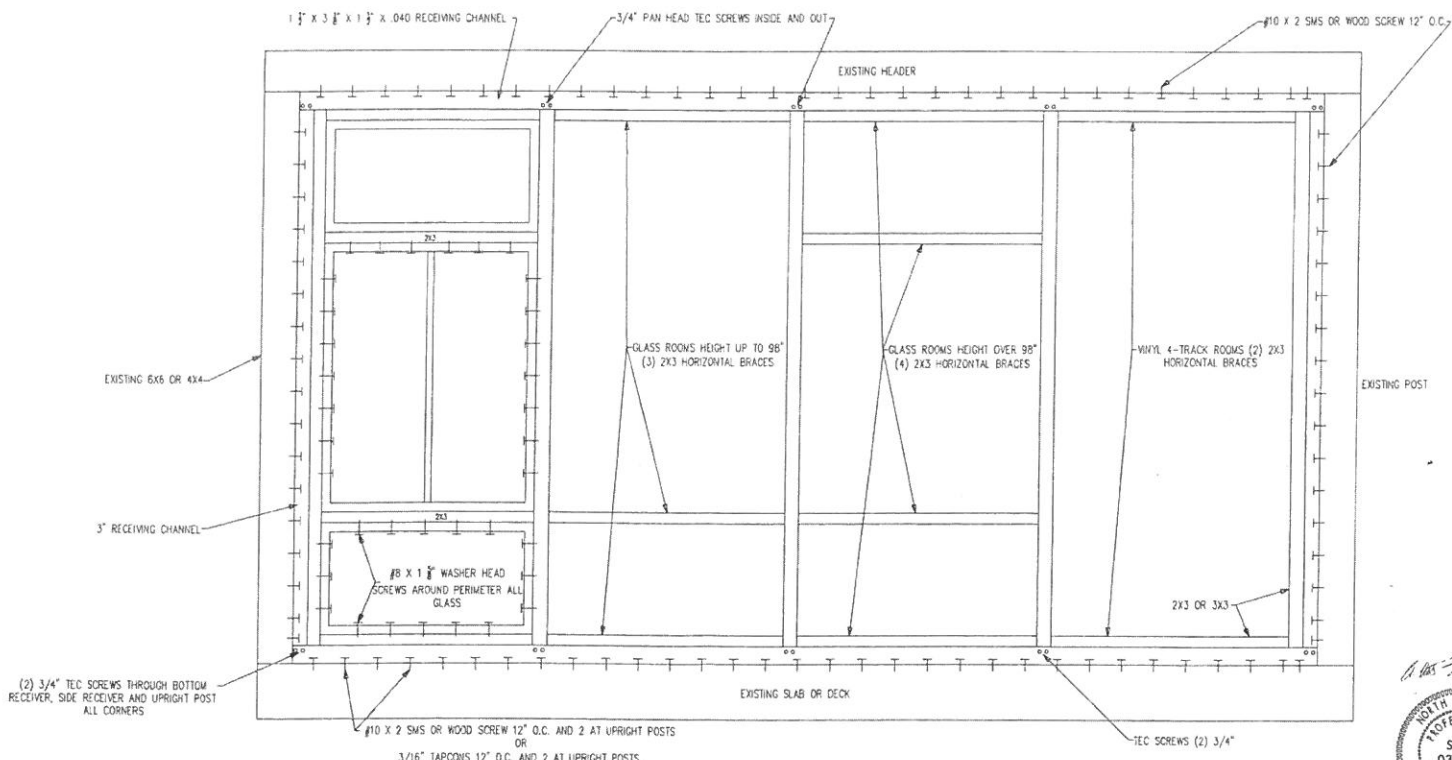
RATED FOR 130MPH WIND ZONE



PANEL TO HOST WALL (MASONRY)



PANEL TO HOST WALL (WOOD FRAME)



1 WALL/2 WALL/3 WALL SYSTEMS EXISTING ROOF AND FOUNDATIONS

2017.05.15  
08:12:02-04'00"

PROJECT: N/A  
 DATE: 25 April 2017  
 DRAWN BY: AMT  
 CHECKED BY: JVV  
 SCALE: N/A

PROJECT NAME: 3" SUNROOM GENERIC DETAILS

THIGPEN ENGINEERING & CONSULTING, PLLC  
 3612 GRIFFICE MILL ROAD  
 RALEIGH, NC 27610  
 NC LICENSE NO. P-1116

SUBMITTAL: Southern Exposure Sunrooms Wilmington, NC

REVISIONS: DATE REMARKS

DETAILS: S-3

|  |  |  |
|--|--|--|
| <b>STRUCTURE</b><br>PO BOX 12007<br>WILMINGTON, NC 28405<br>Ph: 910 793-2762 | <b>STRUCTURE</b><br>CLAYTON NC<br>63-105B Anna Dr<br>Clayton, NC 27320 | Ship Date: 1/22/2018<br>Route: CAR-<br>Job Name: email<br>Cust No. SOU225-P720 |
|--|--|--|

| Item No.   | Qty    | Price | Total |
|--|--------|-------|-------|
| Item No. 1   | Qty: 1 | Price | Total |
| <b>Model: 8200-XO Color: WHITE</b><br>Desc: 8200 Series Horizontal Slider - XO DP:+46.70/-51.80, [FLANGE], WHITE FRAME, 18 x16 Screen<br>LOW E 270, Insulated<br>TEMP SASH<br>SCREEN<br>AAMA Std. Gold Labeling<br>WHITE, FPA #4092.2<br>TEMP SASH<br>Clr. Opng. MEETS EGRESS. |        |       |       |
| <b>Dimensions</b><br>DLO: 49 x 66<br>TIP: 50 1/4 x 67 1/4<br>SCREEN: 18 X 16   |        |       |       |
|  |        |       |       |
| 8200-XO-NFRC Rating: CWS-K-12-00188-00002 / U-Factor=0.32, Solar SHGC=0.26, V-Transmit=0.48  |        |       |       |

|  |        |       |       |
|--|--------|-------|-------|
| Item No. 2   | Qty: 2 | Price | Total |
| <b>Model: 8200-XO Color: WHITE</b><br>Desc: 8200 Series Horizontal Slider - XO DP:+46.70/-51.80, [FLANGE], WHITE FRAME, 18 x16 Screen<br>LOW E 270, Insulated<br>SCREEN<br>AAMA Std. Gold Labeling<br>WHITE, FPA #4092.2<br>Clr. Opng. MEETS EGRESS. |        |       |       |
| <b>Dimensions</b><br>DLO: 49 x 66<br>TIP: 50 1/4 x 67 1/4<br>SCREEN: 18 X 16   |        |       |       |
|  |        |       |       |
| 8200-XO-NFRC Rating: CWS-K-12-00188-00002 / U-Factor=0.32, Solar SHGC=0.26, V-Transmit=0.48  |        |       |       |

|  |        |       |       |
|--|--------|-------|-------|
| Item No. 3   | Qty: 2 | Price | Total |
| <b>Model: 8200-XO Color: WHITE</b><br>Desc: 8200 Series Horizontal Slider - XO DP:+46.70/-47.40, [FLANGE], WHITE FRAME, 18 x16 Screen<br>LOW E 270, Insulated<br>SCREEN<br>AAMA Std. Gold Labeling<br>WHITE, FPA #4092.2<br>Clr. Opng. MEETS EGRESS. |        |       |       |
| <b>Dimensions</b><br>DLO: 61 3/4 x 66<br>TIP: 63 x 67 1/4<br>SCREEN: 18 X 16   |        |       |       |
|  |        |       |       |
| 8200-XO-NFRC Rating: CWS-K-12-00188-00002 / U-Factor=0.32, Solar SHGC=0.26, V-Transmit=0.48  |        |       |       |

|   |        |       |       |
|---|--------|-------|-------|
| Item No. 7  | Qty: 1 | Price | Total |
| <b>Model: 8150-PW Color: WHITE</b><br>Desc: 8150 - Picture Window with Standard Frame DP:+60/-60, [FLANGE], WHITE FRAME<br>LOW E 270, Insulated<br>AAMA Std. Gold Labeling<br>FPA #4093.2, WHITE<br>Tempered. |        |       |       |
| <b>Dimensions</b><br>DLO: 49 x 12<br>TIP: 50 1/4 x 13 1/4   |        |       |       |
|   |        |       |       |
| 8150-PW-NFRC Rating: CWS-K-23-00139-00001 / U-Factor=0.28, Solar SHGC=0.26, V-Transmit=0.52   |        |       |       |

|   |        |       |       |
|---|--------|-------|-------|
| Item No. 8  | Qty: 2 | Price | Total |
| <b>Model: 8150-PW Color: WHITE</b><br>Desc: 8150 - Picture Window with Standard Frame DP:+60/-60, [FLANGE], WHITE FRAME<br>LOW E 270, Insulated<br>AAMA Std. Gold Labeling<br>FPA #4093.2, WHITE. |        |       |       |
| <b>Dimensions</b><br>DLO: 49 x 12<br>TIP: 50 1/4 x 13 1/4   |        |       |       |
|   |        |       |       |
| 8150-PW-NFRC Rating: CWS-K-23-00139-00001 / U-Factor=0.28, Solar SHGC=0.26, V-Transmit=0.52   |        |       |       |

|   |   |  |
|---|---|--|
| <b>Model: 8150-PW Color: WHITE</b><br>Desc: 8150 - Picture Window with Standard Frame DP:+60/-60, [FLANGE], WHITE FRAME<br>LOW E 270, Insulated<br>AAMA Std. Gold Labeling<br>FPA #4093.2, WHITE<br>Tempered. | <b>Dimensions</b><br>DLO: 61 3/4 x 12<br>TIP: 63 x 13 1/4 |  |
| 8150-PW-NFRC Rating: CWS-K-23-00139-00001 / U-Factor=0.28, Solar SHGC=0.26, V-Transmit=0.52   |   |  |

|   |        |       |       |
|---|--------|-------|-------|
| Item No. 4  | Qty: 1 | Price | Total |
| <b>Model: 8150-PW Color: WHITE</b><br>Desc: 8150 - Picture Window with Standard Frame DP:+60/-60, [FLANGE], WHITE FRAME<br>LOW E 270, Insulated<br>AAMA Std. Gold Labeling<br>FPA #4093.2, WHITE<br>Tempered. |        |       |       |
| <b>Dimensions</b><br>DLO: 16 1/2 x 66<br>TIP: 17 3/4 x 67 1/4   |        |       |       |
|   |        |       |       |
| 8150-PW-NFRC Rating: CWS-K-23-00139-00001 / U-Factor=0.28, Solar SHGC=0.26, V-Transmit=0.52   |        |       |       |

|   |        |       |       |
|---|--------|-------|-------|
| Item No. 5  | Qty: 1 | Price | Total |
| <b>Model: 8150-PW Color: WHITE</b><br>Desc: 8150 - Picture Window with Standard Frame DP:+60/-60, [FLANGE], WHITE FRAME<br>LOW E 270, Insulated<br>AAMA Std. Gold Labeling<br>FPA #4093.2, WHITE. |        |       |       |
| <b>Dimensions</b><br>DLO: 16 1/2 x 12<br>TIP: 17 3/4 x 13 1/4   |        |       |       |
|   |        |       |       |
| 8150-PW-NFRC Rating: CWS-K-23-00139-00001 / U-Factor=0.28, Solar SHGC=0.26, V-Transmit=0.52   |        |       |       |

|   |        |       |       |
|---|--------|-------|-------|
| Item No. 6  | Qty: 1 | Price | Total |
| <b>Model: 8150-PW Color: WHITE</b><br>Desc: 8150 - Picture Window with Standard Frame DP:+60/-60, [FLANGE], WHITE FRAME<br>LOW E 270, Insulated<br>AAMA Std. Gold Labeling<br>FPA #4093.2, WHITE<br>Tempered. |        |       |       |
| <b>Dimensions</b><br>DLO: 37 3/8 x 12<br>TIP: 38 5/8 x 13 1/4   |        |       |       |
|   |        |       |       |
| 8150-PW-NFRC Rating: CWS-K-23-00139-00001 / U-Factor=0.28, Solar SHGC=0.26, V-Transmit=0.52   |        |       |       |

8150-PW-NFRC Rating: CWS-K-23-00139-00001 / U-Factor=0.28, Solar SHGC=0.26, V-Transmit=0.52

Similar window specs

**SOUTHERN EXPOSURE SUNROOMS**  
WILMINGTON, NC

Jeff & Rebecca Isaacson  
649 Pendergraft  
Bunn Level, NC 28323  
910-242-9378

**WINDOW SPECIFICATIONS**

|           |             |            |
|-----------|-------------|------------|
| BY: DATE: | CHK: ORDER: | <b>S-4</b> |
|-----------|-------------|------------|