



## CAROLINA VINYL PRODUCTS

PRODUCT OFFERINGS:

VINYL S-PAN RAILING SYSTEM  
VINYL CAP/BASE

SEPTEMBER 2012

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## S-PAN RAIL SYSTEM / SCREEN MATERIALS

### PRODUCT CATEGORIES:

- S-Pan Porch Rail System
- Screen Tight Cap/Base
- Screen Door

### DESCRIPTION:

- Vinyl Porch Rail System designed to work specifically w/ screened in porches
- Rails create framework to attach cap/base & screen
- Screen door produced of vinyl to match quality of rails & screen materials

### QUALITY ASSURANCE:

#### Vinyl Railing:

- Virgin PVC Compound—13343—ASTM D-1784
- Tensile Strength—6,591 psi—ASTM D-138
- Izod Impact Strength—3.24 at 73.4°F; 2.41 at 32°F—ASTM D-256
- Tensile Modulus 374,528 psi—ASTM D-638
- Deflection Temperature—157.5°F—ASTM D-648
- Thermal Expansion— $3.20 \times 10^{-5}$  in/in °F

#### Screen Materials:

- Cap/Base – manufactured from weatherproof, ultraviolet (UV) resistant window grade vinyl

### SUBMITTALS:

- Manufacturer's technical literature w/ railing installation instructions
- Manufacturer's technical literature w/ screen material installation instructions
- Material samples upon request

## MANUFACTURER'S SPECIFICATIONS

### GENERAL:

#### Railing

- Rails are routed to receive pickets (balusters)
- Vinyl brackets attach sections to post
- Aluminum reinforcement on sections 8' & over

#### Screen Materials

- Pre-punched holes in base
- Cap snaps into base

#### Warranty

- See manufacturer's warranty

### MATERIALS:

Railing constructed w/ materials made of rigid polyvinyl chloride (PVC) formulated to resist impact & ultraviolet (UV) stabilization. Screen materials manufactured from weatherproof, ultraviolet (UV) window grade vinyl.

### DIMENSIONS:

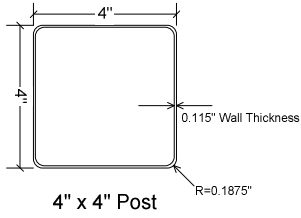
<b>Cross Section</b>	<b>Wall Thickness</b>	<b>Corner Radius</b>
<b>Post</b>		
4" x 4"	0.115"	0.1875"
<b>Rails</b>		
2" x 3-1/2" Rail	0.095"	0.125"
<b>Pickets/Balusters</b>		
7/8" x 1-1/2"	0.070"	0.125"
1-1/2" x 1-1/2"	0.070"	0.125"
1-1/4" x 1-1/4"	0.070"	0.125"

### INSTALLATION:

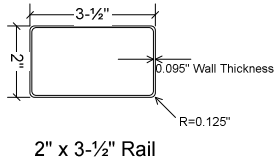
Rail System installs by attaching brackets to post & header rails attached to header to create framework to install cap & base. Base attached w/ screws, screen attached to base by way of rolled spline & cap snaps onto base to complete installation.

# PRODUCT SPECIFICATIONS - MATERIALS

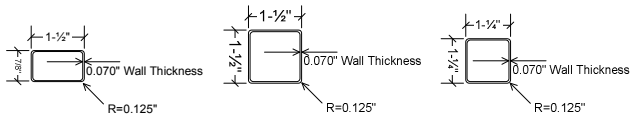
## POST



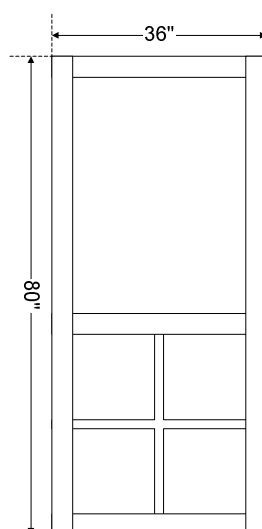
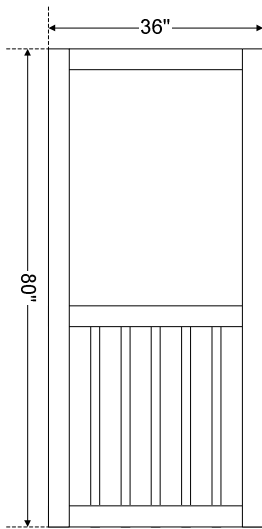
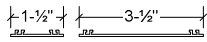
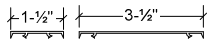
## RAILS



## PICKETS/BALUSTERS

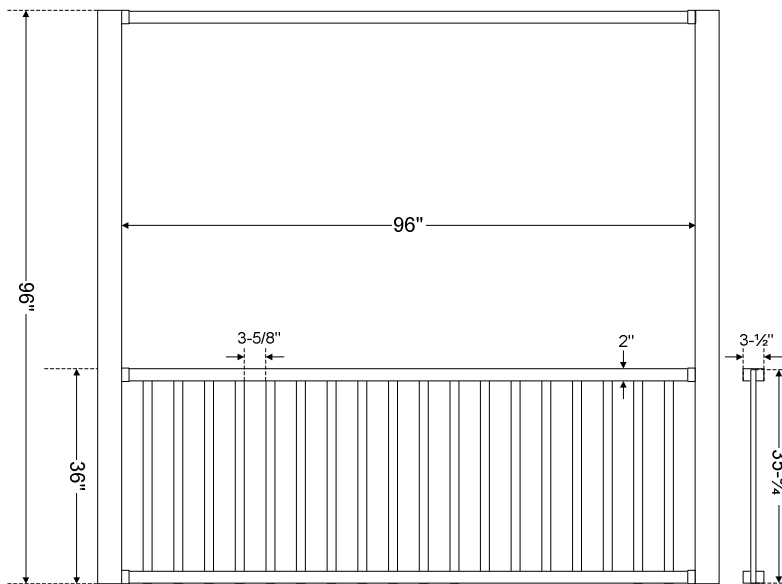
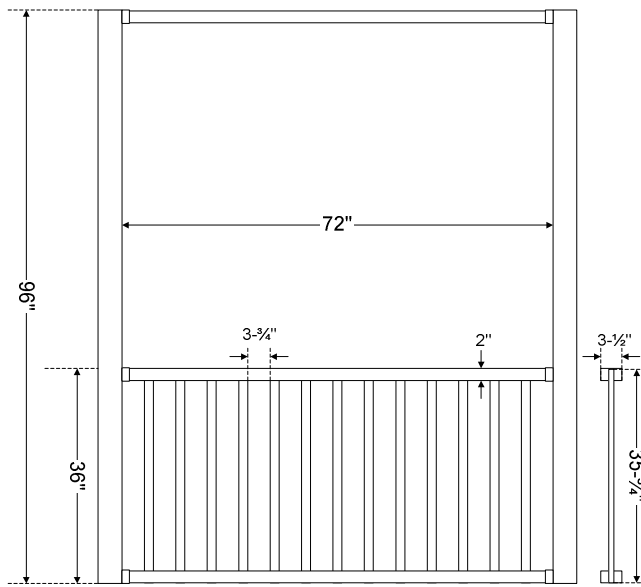


## SCREEN MATERIALS



PRODUCT SPECIFICATIONS – RAIL SYSTEM

	<b>Picket Size</b>	<b>Picket Spacing</b>	<b>Section Width</b>	<b>Rails Top &amp; Bottom</b>	<b>Aluminum Reinforcement</b>
<b>S-Pan</b>	7/8" x 1-1/2" 1-1/2" x 1-1/2" 1-1/4" x 1-1/4"	~3-1/2"	72" & 96" 120"	2" x 3-1/2"	Top in sections 8' & over
<b>Cap</b>		<b>Width</b> 1-1/2 3-1/2"	<b>Length</b> 8' or 12' 8' or 10'		
<b>Base</b>		1-1/2" 3-1/2"	8' 8'		



ADVERTISEMENT



# S-PAN RAIL

Vinyl Screen Rail & Porch System

Vinyl S-Pan Porch Rail is an Excellent Alternative to Wood or Metal  
Vinyl Construction makes it both Easy to Clean & Long Lasting



**S-PAN BOXED SECTION INCLUDES:**

- 2" x 3-1/2" Top & Bottom Rails
- Standard 7/8" x 1-1/2" Pickets
- 2" x 3-1/2" Rail Mount Brackets

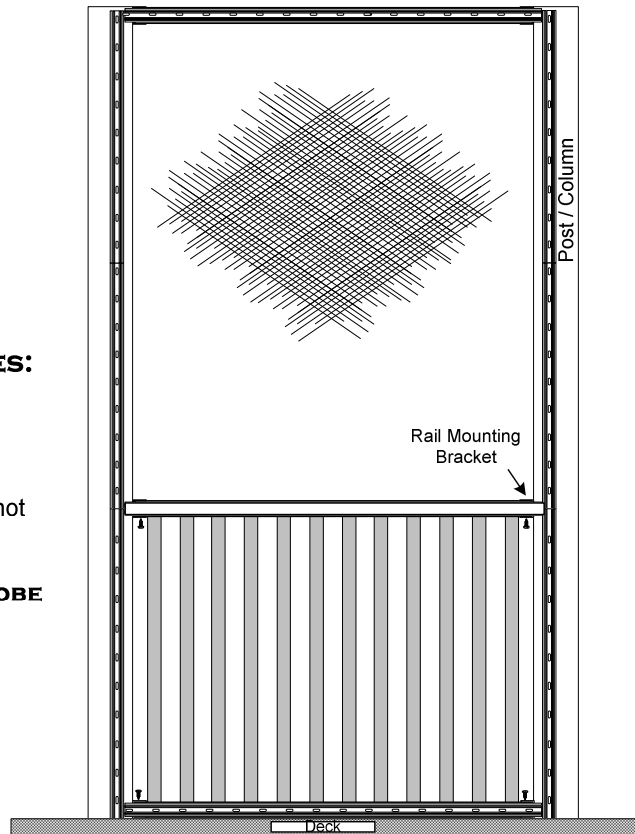
Single 2" x 3-1/2" Rails Available if Pickets not Preferred

**AVAILABLE COLORS: WHITE, TAN, ADOBE**



**FEATURES & BENEFITS:**

- Easy to Install & Repair
- Low Maintenance UV Protected Vinyl
- No Painting & No Mitering
- Screen Large Openings, up to 40 Sq Ft



**SCREEN SYSTEM:**

- Weather-Proof, UV-Resistant Window Grade Vinyl
- 1-1/2" & 3-1/2" Wide Cap & Base; 8' stock lengths
- Special Order Lengths - 1-1/2" x 12' & 3-1/2" x 10'
- Pre-Punched Fastener Slots on Base are on 8" Center
- Available Cap Colors - White, Tan, Brown
- Box of (4) Rolls 3' W or 4' W x 25' Charcoal Screen
- 6' W or 8' W x 100' Roll Charcoal Screen
- .175" x 300' Screen Spline in Easy Dispenser Bucket

# INSTALLATION INSTRUCTIONS

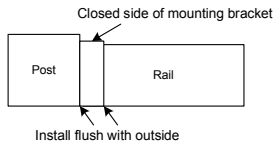
## Screen Porch Rail Installation Instructions

**CAROLINA  
VINYL**  
608 Queen Street  
PO Box 1137  
Grifton, NC 28530  
www.carolinavp.com

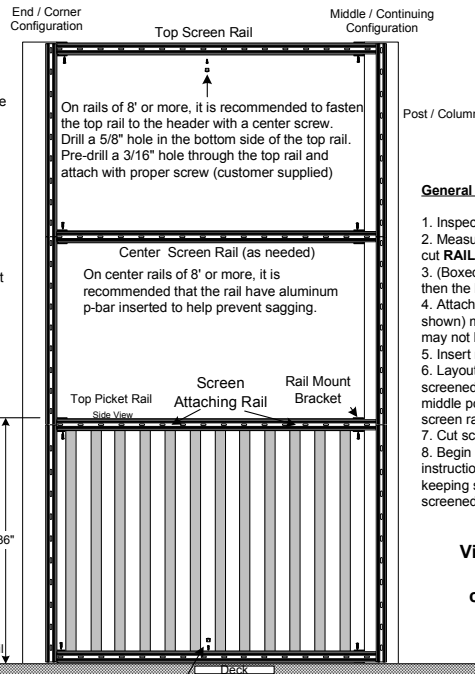
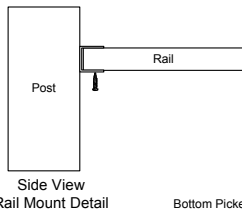
### Tools Needed

Tape measure  
Pencil  
Power saw with fine tooth, carbide tipped blade  
Phillips head screw driver

### Top View Rail Mount Detail



### Side View Rail Mount Detail



**READ AND UNDERSTAND  
INSTALLATION INSTRUCTIONS  
BEFORE INSTALLING RAILING**

### General Installation Instructions

1. Inspect parts. Lay out porch rail.
2. Measure space between posts/columns for length of rails and cut **RAILS** to fit (see Drawing)
3. (Boxed Rail) Assemble rail, inserting all pickets in top rail & then the bottom rail.
4. Attach mounting bracket on post with screws provided (as shown) making sure the screen side is even. (Center rail may or may not be needed, depending on your application)
5. Insert rails into brackets on post. Fasten with screw
6. Layout screen rails & cut to fit. NOTE: Ends or corners of screened area can be at the edge of the post or column while middle post should have screen rail in the center. Horizontal screen rail should splice in the center of the vertical screen rail.
7. Cut screen 1" larger than screen rail layout
8. Begin inserting screen on the top right hand corner. Follow instructions on screen package. Work your way across the top, keeping screen tight. Continue around the entire block to be screened

**Vinyl, aluminum insert and screen rail  
is easily cut with wood cutting,  
carbide tipped, fine tooth saw blade  
Wear Safety Glasses**



## INSTALLATION INSTRUCTION – CONTINUED



# Porch Screening System



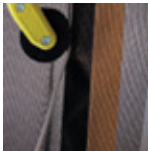
### **Materials Needed**

Screen Spline  
Screen Tight Cap & Base  
Rubber Mallet  
Pruning Shears, Tin Snips or Vinyl Cutting Shears  
Screening Tool - Recommend Roller Knife  
Screw Gun, Drill or Screw Driver



### **Step 1: Attach Base to Wood/Vinyl Sleeve**

Cut base to fit over framing; base strips are butted together & do not require any mitering or notching. Attach base strip to framing using 1" screws; make sure to insert a screw into each slot. Fasteners should be snug, but not so tight base strip bends. Insert a screw no more than 2" from end of each base strip; do not leave base strips exposed to direct sunlight.



### **Step 2: Roll Screen Into Base**

Roll screen into base strip w/ appropriate spline & screening tool; for fiberglass screen, use 0.175" diameter spline; for aluminum screen, use 0.160" diameter spline. Start by rolling screen into top horizontal piece of base; after top is rolled in, then roll two sides & then bottom horizontal piece of base. When screening bottom, create screen tension by pulling down on screen slightly; this will insure a "tight screen"; screening tool w/ a plastic wheel works best. Trim all excess screen w/ razor knife or roller knife; this will insure that no screen will interfere w/ cap snapping onto base.



### **Step 3: Snap Cap Onto Base**

Cap snaps onto base strip & serves as trim piece. Force from a mallet, hand or small block of wood will snap cap into place. When attaching 3-1/2" cap, inside leg of cap should be fitted under base leg before applying pressure. Always attach cap from one end to the other. To remove cap, start at one end & using a screwdriver, gently pry cap from base. After getting cap started, it's easily removed by hand.

## INSTALLATION INSTRUCTION – CONTINUED

# Solid Vinyl Screen Door

**READ AND UNDERSTAND  
INSTALLATION INSTRUCTIONS BEFORE  
INSTALLING DOOR**

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### Tools You May Need:



### **Step 1: Determine Size of Existing Opening**

Measure width & height of existing opening (inside the door) to determine if correct door size has been chosen. Allow 1/8" on each side & up to 1/2" for height.

\*\*See Step 3 if door needs trimming



### **Step 2: Hardware Options**

Most standard screen door hardware will work w/ the solid vinyl screen door; door can be cut & drilled similar to a wood door & surface mounted hinges can be screwed into the frame of door. Most hinges can be accommodated by simply routing or mounting w/ screws. Latches & bar bolts can be added, as well. Always use 3 hinges.



### **Step 3: Trimming Screen Door**

If you have ever trimmed a wood screen door, then you will have no trouble trimming a solid vinyl screen door. Traditional tools, such as a circular saw, will do the job. Simply determine desired amount to trim.

**\*\*Make sure not to trim more than 3/8" from any side & no more than 1" from the bottom.**

**CAUTION: if more than the specified amounts are cut, the integrity of the door will be compromised & void any warranty.**

### **Frequently Asked Questions:**

#### **Will material hold a fastener or screw:**

- Yes, better than wood. The Solid cellular structure of the vinyl will not split or crack when attaching hinges & other hardware.

#### **Can I paint the door?**

- PVC materials are paintable; however, the nature & application of this product is not favorable for painting & will adversely effect it weatherability & void the warranty.

#### **Is the material resistant to sun & weathering?**

- the door is made of exterior grade vinyl. There will be no yellowing or other damage from UV rays that is detectable to the human eye. There is an equivalent amount of UV inhibitors in the material to what would be in vinyl windows & upper end vinyl siding.