Home Porch & Patio Kits Inc.™

Porch Screening Kits

For existing roof-lines

Installation Guidelines

Disclaimer: *Not all parts you receive may be exactly as shown / drawn in these guidelines. However all parts that you do receive will accomplish the assembly according to your quotation. These are to be considered as general installation instructions only. You may need to make adjustments necessary to your particular circumstances.*

Best practices according to your own DIY skill level should be used.

Your DIY Patio Cover Kit comes with all materials, including hardware and brackets, "internal" to the kit. You will need to supply the hardware to secure the U-channels to cement patio's, wood decking, house walls and existing posts. You probably have all the tools you will need to accomplish the installation. A list (not to be considered comprehensive) is given below. Anything else that you might need is available at any big box store.

- 4 ft. Carpenter's level
- Chalk line (to mark level installations)
- Cordless drill/nut driver
- Caulking gun
- Chop saw with metal cutting blade (required to make accurate and precision cuts)
- Stud Finder
- Plumb Bob
- Masonry bits for drilling into concrete; masonry fasteners (if necessary)
- Safety eye-wear
- Ladder
- Metal file (to smooth cut edges)
- Hammer, Screwdrivers, Drill, tape measure
- Box knife
- Gloves

If you find that the materials quoted for your application are not in your order please call Home Porch & Patio Kits Inc. **first!** We will work with the manufacturer to make sure you get what you paid for as quickly as possible.

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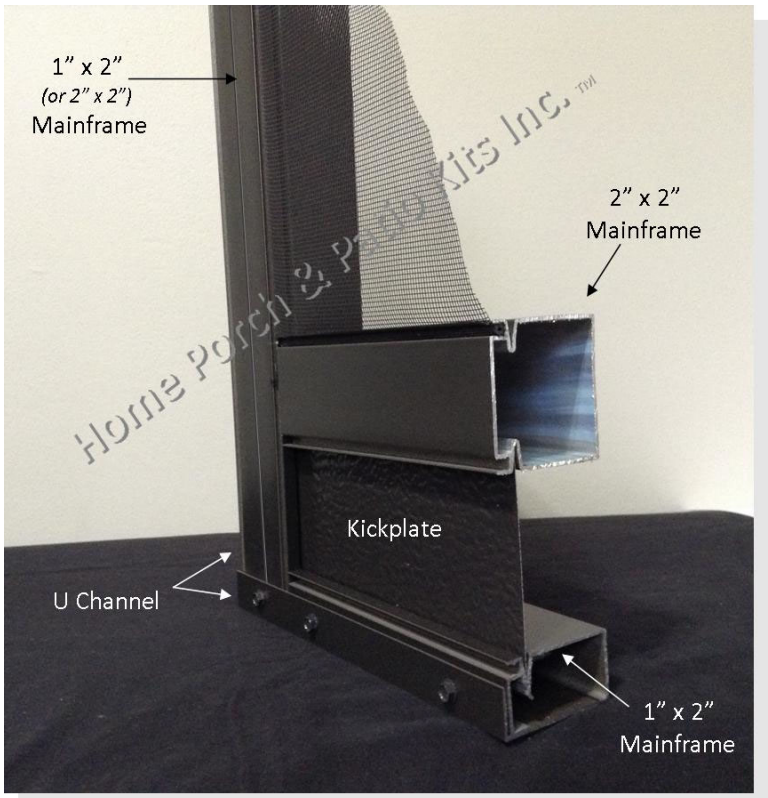
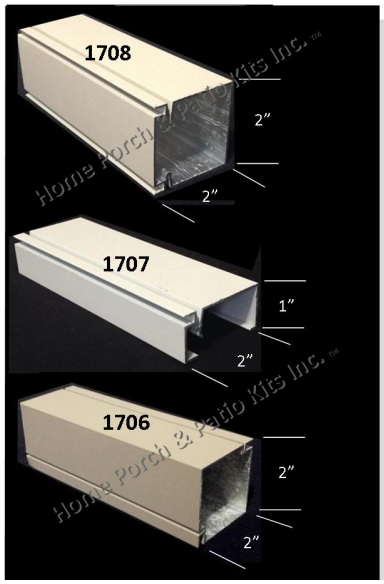
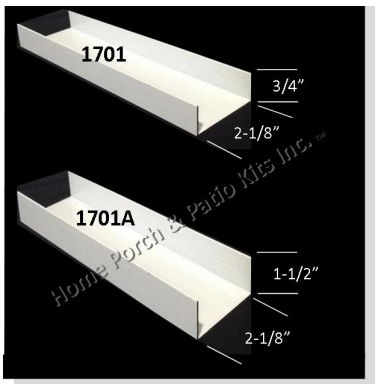
Installation Guidelines





Get familiar with your project! The extrusions don't have labels on them so these pictures will help you identify what you have...



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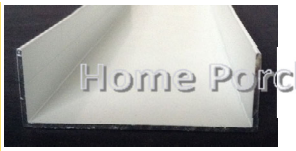
In addition to these guidelines…

1. Print a copy of the drawing that was given to you with your quotation
2. Print a copy of your quotation which was the basis of your purchase. It may contain notations specific to your project.

BEFORE you begin cutting, organize your materials…

Depending on the size and complexity of your project you might have up to 5 different profiles each in 16’ and or 20’ lengths. Separate them out each into their unique profile piles.

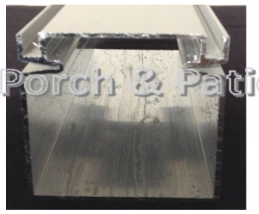
Step 1



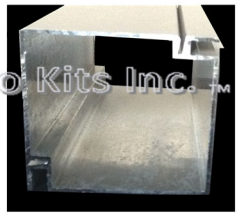
[1701]
3/4” x 2-1/8”
U channel

[1701A]
1-1/2” x 2-1/8”
U channel

[1707]
1” x 2”
Main-Frame



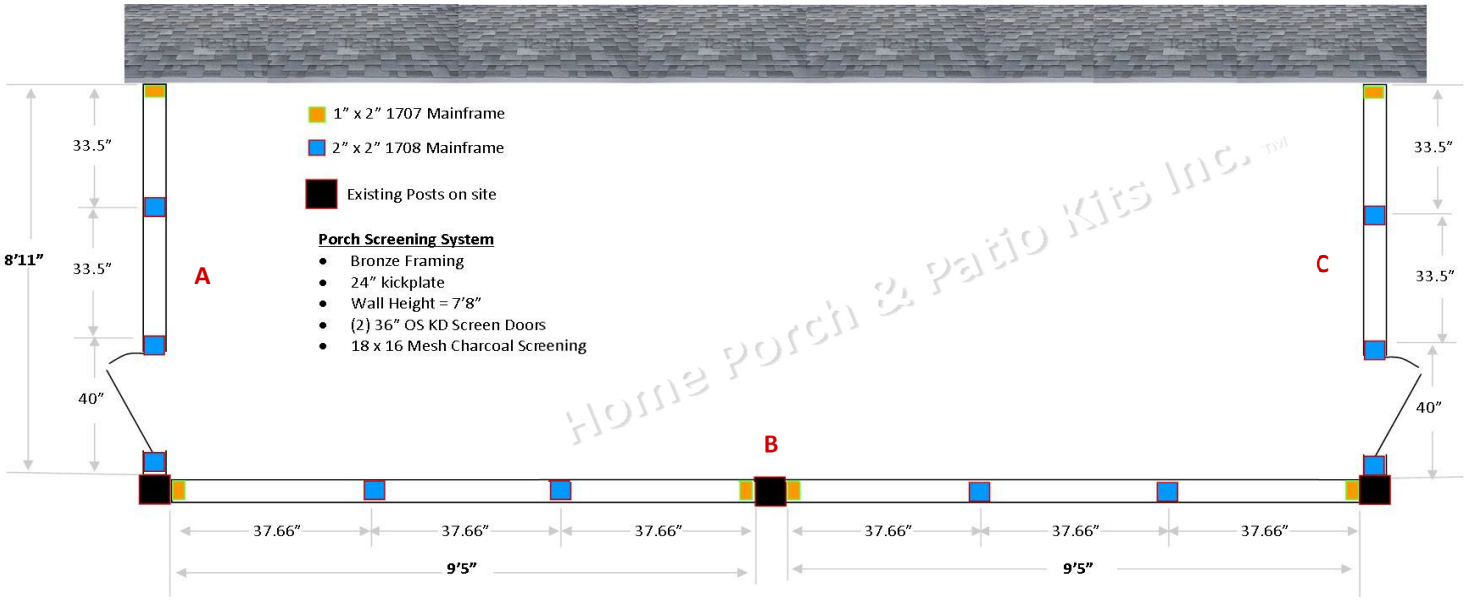
[1708]
2” x 2”
Main-Frame



[1706]
2” x 2”
Corner Post

Most projects will have 1701 U channels, 1707 1” x 2” main-frames and 1708 2” x 2” main-frames. After separating them into their respective profiles you will need to understand how you will be using the lengths of each profile to ensure you have enough to accomplish installation.

Using the example given below (***illustration only***) you would have received 4 x 16’ plus 4 x 20’ lengths of **1701 U-channel**. (1) x 20’ length each would be used for the top and bottom horizontal sections on Sides A and C , (2) x 20’ lengths would be used for the top and bottom horizontal sections on Side B. The 16’ lengths would be applied on the vertical walls and posts, (1) each in sides A and C and (1) in each of the two sections on side B respectively to apply on the vertical walls and posts.



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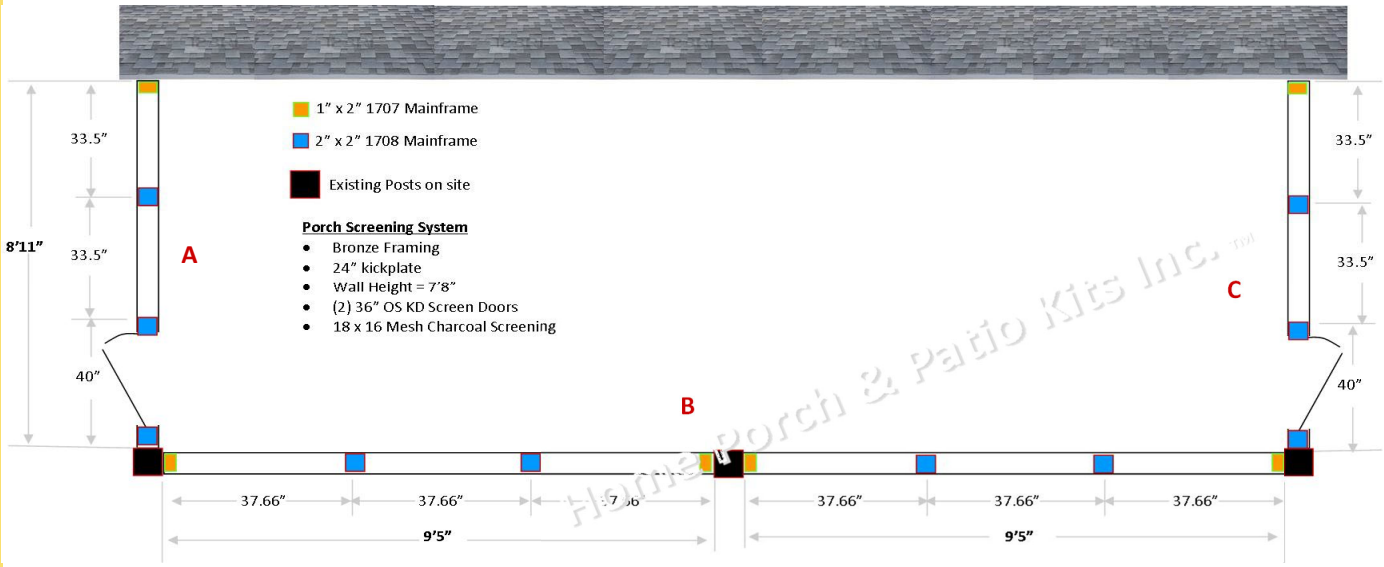
Installation Guidelines

Step 1 (cont'd)

Continuing with our example, you would have also received 3 x 16' plus 4 x 20' lengths of **1707 1" x 2" main-frame**. (1) x 20' length each would be used for the top and bottom horizontal sections (between verticals) on Sides A and C, (2) x 20' lengths would be used for the top and bottom horizontal sections (between verticals) on Side B. The 16' lengths would be applied on the vertical walls and posts, (1) in sides A and C for the walls only and (1) in each of the two sections on side B respectively to apply on the vertical posts. *[**Hint**: This is why your drawing is color coded!]*



Finally, again with the same example, you would have received 5 x 16' plus 2 x 20' lengths of **1708 2" x 2" main-frame**. (5) x 16' lengths would be used to cut out all the verticals heights and (2) x 20' lengths would be used to cut out all the horizontal sections between verticals to cap the top of the kickplate. *[**Hint**: If there was no kickplate, the same material would be used as the chair rail!]*

Install the 1701 3/4" x 2-1/8" U Channel

Step 2

1. You will need to cut a piece of U channel to attach to each of your vertical (walls and posts) and horizontal (floor/deck and underside of roof/ beam) surfaces. ***Mounting Hardware NOT included!***
2. We include an appropriate number of rolls of weather stripping to go on the backside of the vertical U channel installations onto house walls and existing posts. Though not 'necessary' it is an option to use on rough or uneven surfaces such as brick face or step siding.
3. We suggest using Red Head hammer set nails or Tapcon screws for securing the U channel to cement or brick surfaces. If mounting to wood surfaces, punch or drill a starter hole and use quality deck screws to secure the U channel. ***18" to 24" spacing is recommended***

*[**Hint**: High quality acrylic latex caulking can be applied to the back of the U channel prior to securing in place for water-proofing purposes]*

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Installation Guidelines

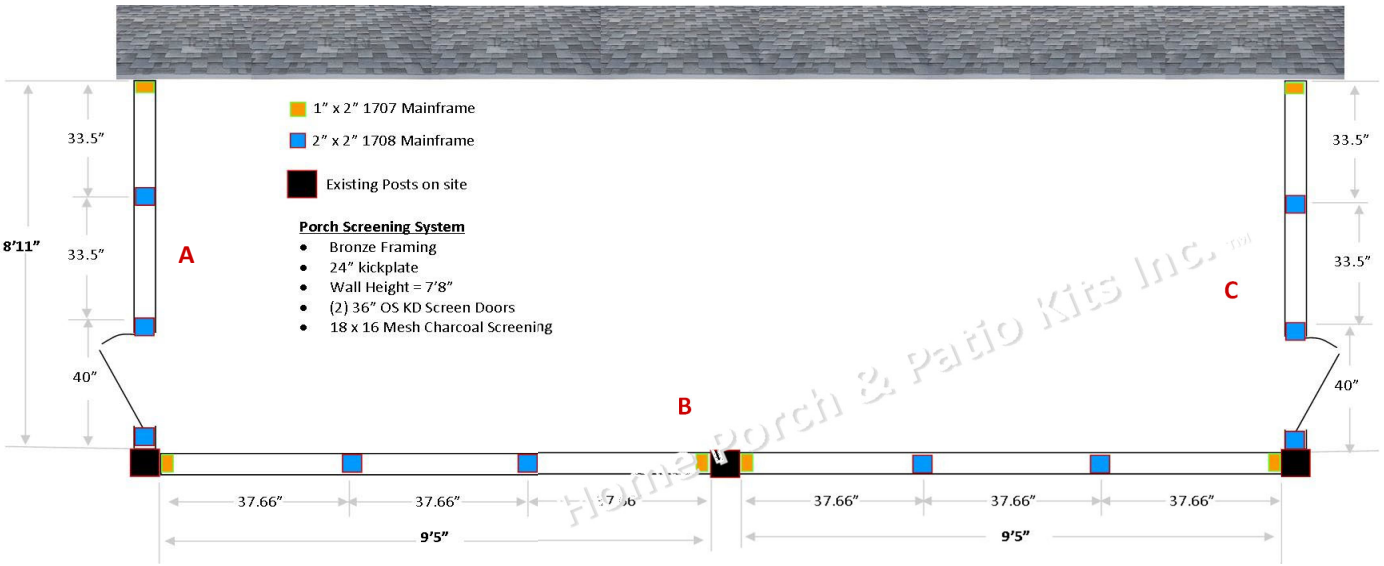
Install the 1701 3/4” x 2-1/8” U Channel (cont’d)

Step 2 (cont’d)

Your U channel installations are going to meet in all four corners of each of your **existing** openings. You may choose either to the above scenarios for your installation. The first picture runs the bottom (and top) U channel from wall to post or wall to wall. The second picture runs the vertical installation from floor to ceiling on your existing wall or post. *[**Hint**: You may miter a 45 degree connection for the corners however it would add to the ‘error’ potential built into making cuts in a limited material supply.]*

Install the 1707 & 1708 Vertical Mainframes

Step 3



In your quotation drawing the orange markers are the 1707 1” x 2” vertical installations and the blue markers are the 1708 2” x 2” vertical installations. *[**Hint**: This is why your drawing is color coded!]* Continuing with our example above you would start by installing the two (within section **A**) vertical installations on the wall & post, using the material indicated in your drawing. On the left side in the example above, this would be a piece of 1707 1” x 2” mainframe placed in the U channel going up the house wall and a piece of the 1708 2” x 2” mainframe placed in the U channel going up the existing post.

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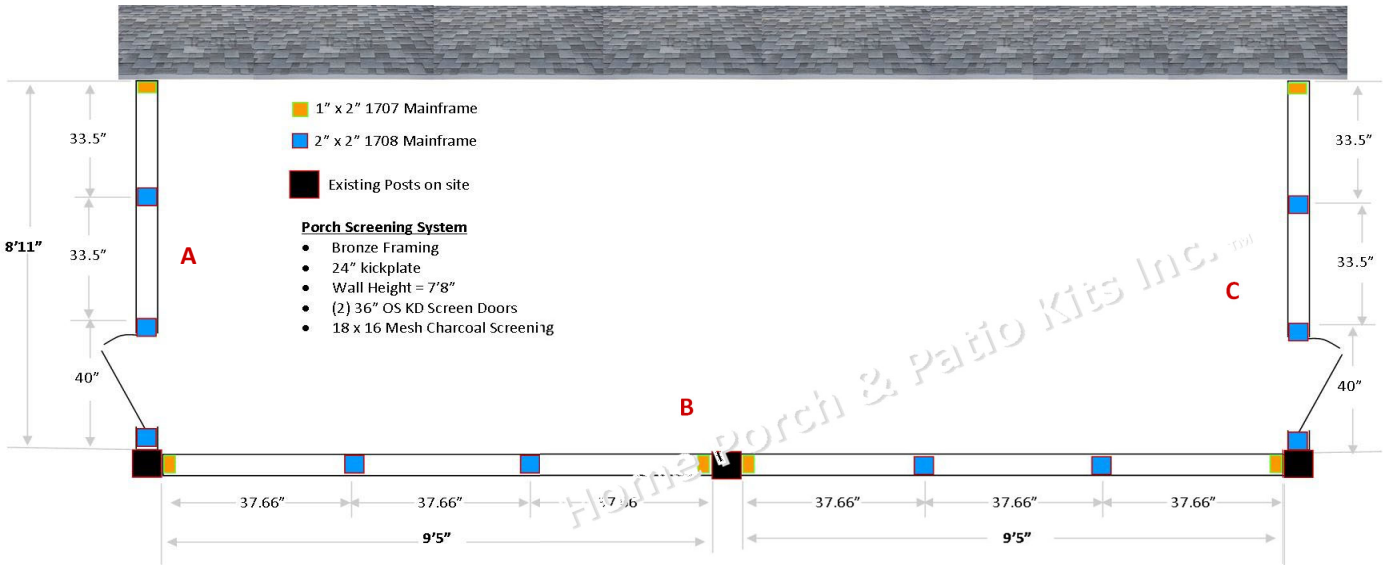
Installation Guidelines

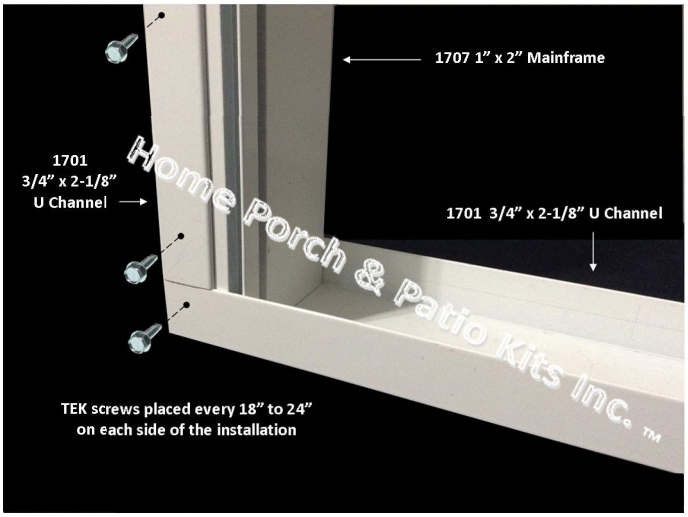
Install the 1707 & 1708 Vertical Mainframes (cont'd)

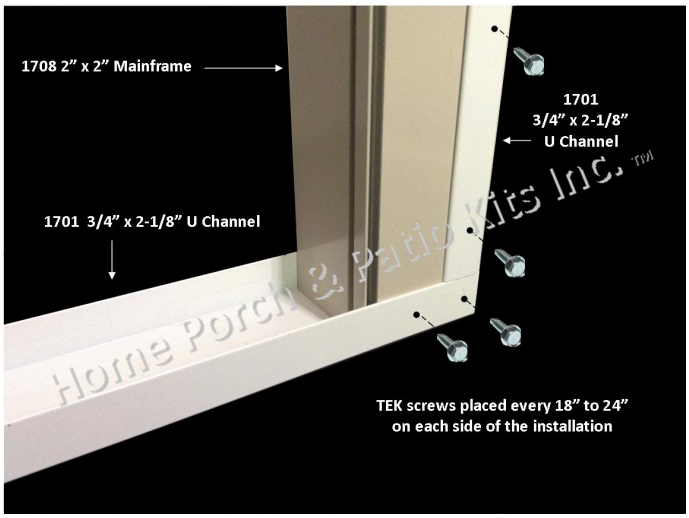
Step 3 *(cont'd)*



Using **your** quotation drawing, install the remaining appropriate (within each section) mainframe verticals up the remaining posts and / or walls.

*[**Hint**: We strongly suggest measuring the height of **EACH** vertical installation. Heights may vary with the slope of the roof line or the slope of the deck or patio. Nothing is ever perfectly square.*





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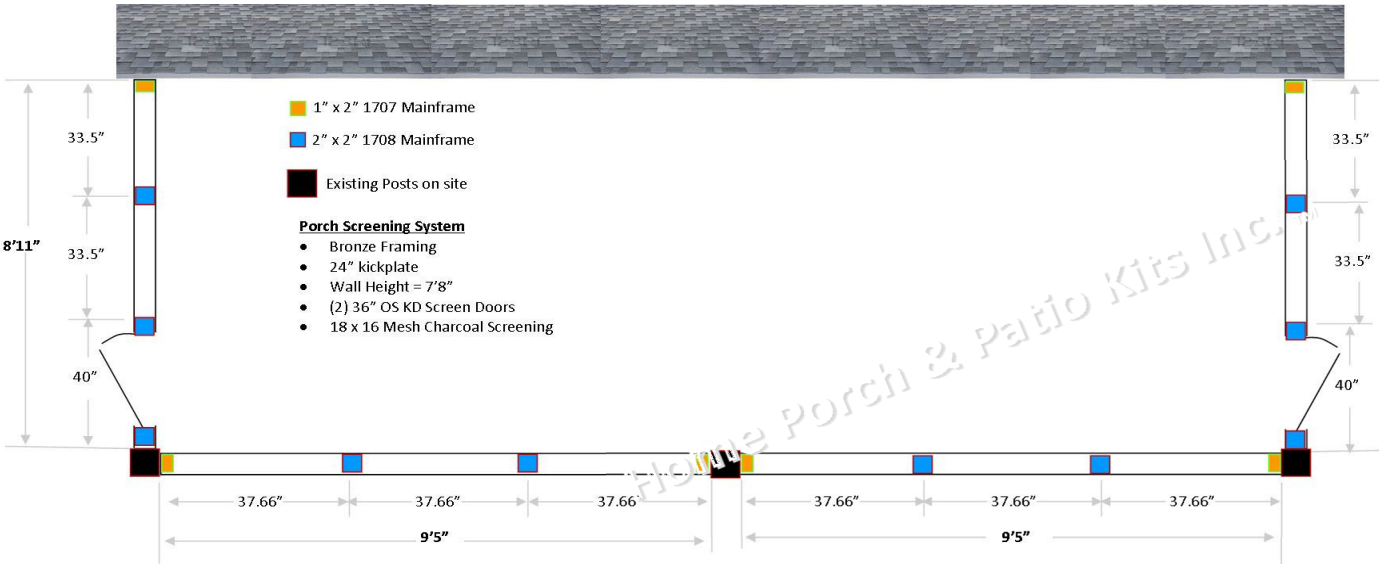
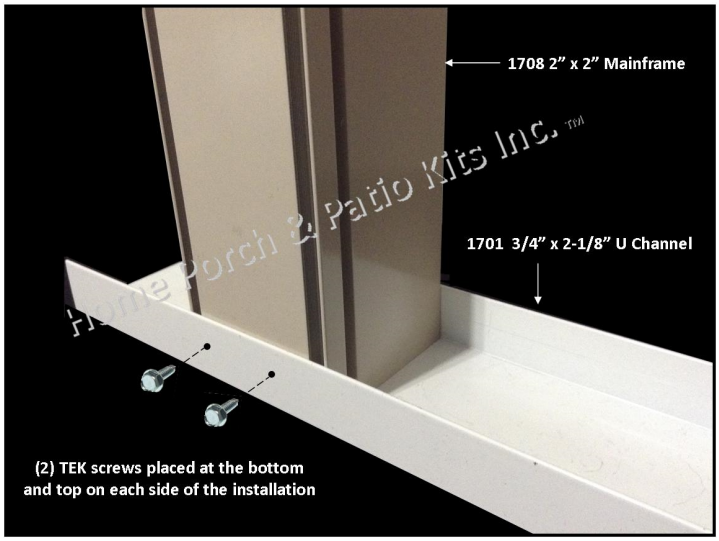
Installation Guidelines

Install the 1707 & 1708 Vertical Mainframes (cont'd)

Step 3 *(cont'd)*



Again using **your** quotation drawing, install all remaining verticals, within each section). These will be the 2" x 2" 1708 mainframes, denoted by the blue markers. Use the spacing suggested in your drawing as a layout guideline. For example you will note, in the example above in the two front wall sections (**B**), that the spacing between verticals within each section, works out to about 37.66". Additionally the spacing between verticals is flexible (1/2" to 1") as long as you do not exceed the width (minus 1") of the screening provided. Your quotation drawing will have door placements indicated. As in the example above, they indicate a 40" spacing. That 40" includes both vertical framing members. *See 'Notes on Door Installations' on page 8.*



*[**Hint**: All spacing given in your drawing can change slightly during installation. Should you decide to change something significant-ly MAKE SURE to not exceed the width of the screening supplied.*

We suggest using (2) two self tapping hex head TEK screws at the bottom and top, **of each side**, of each vertical 2" x 2" installation

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Installation Guidelines

A note about Door Installations

First, your doors are sent to you as “Knock Down” (KD) kits. In other words you will be assembling your door on site. (https://www.homeporchandpatiokits.com/pdfs/ScreenDoorF827.pdf)

Second, There is no U channel installation in the door section!

Third, you will note in the example we have been working with, and as it is in your drawing, that the doors are always ‘framed’ by our 1708 2” x 2” vertical mainframes.

INCLUDING the (2) two mainframes the total width, outside edge to outside edge, of a 36” wide door assembly is 40”.

If you purchased a 32” KD door then the total width of the door assembly including the (2) 2” x 2” vertical mainframes would be 36”.

Install the 1707 Horizontal Mainframes

Step 4

Once you have all your vertical mainframes in place you will start with the horizontal mainframe installation. You will now be cutting lengths of the 1”x 2” mainframe to fit **inside** the U channel **between** each of the verticals.

If your corners are 90 degrees and your floor/ceiling is level, then the 1707 mainframe will sit right down in the bottom of the U channel. Alternatively you can shim/lift the mainframe in the U channel so as to level the installation and screw it in place.

Typically 3 screws through the lip of the 1701 U channel, on each side of the 1707 - 1”x2” mainframe installation (18”- 24” spacing) is enough to secure it in place in the U channel. You may need 1 or 2 more on each side depending on the length of your installation.

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Installation Guidelines

Install the Chair Rail *(Skip to Step 6 for kickplate)*

Step 5

Important starting note: Whether you have a kickplate to install or simply a 'chair rail' both installations use the 1708 - 2"x2" mainframe material. Note that with a kickplate installation the mullion clips are installed on top of the chair rail. If there is no kickplate you can install the mullion clips on the underside of the chair rail.

Chair Rail: The chair rail can be installed at what ever height off the floor you desire. We suggest sitting in you favorite chair and choosing a height that does not interfere with your sight-lines into the backyard!

You will want to cut your length and then hold it in place, using a level to make sure it is square against both verticals. Using a pencil, draw a line under the mainframe piece on each of the verticals. You will use these lines as a reference to secure the chair rail in place.

You will find a way that is easiest for you, but to start, we suggest taking your piece of chair rail and securing the mullion clip to each outer edge as shown to the right. Be sure that when you turn it over to put it in place the two spline grooves on the outer face are toward the outside!

*[**Hint**: The mullion clips are generally supplied 'unpainted' and not predrilled. Hit them with a shot of the touch up paint we have supplied with your order. If you wish you can drill starter holes in the mullion clips but the TEK screws are self tapping and easy start without any starter holes.)*

You can now finish off the chair rail installation by using the pencil line on each of your verticals to make sure you keep everything level as you secure the mullion clip to the vertical mainframe.

Home Porch & Patio Kits Inc.™

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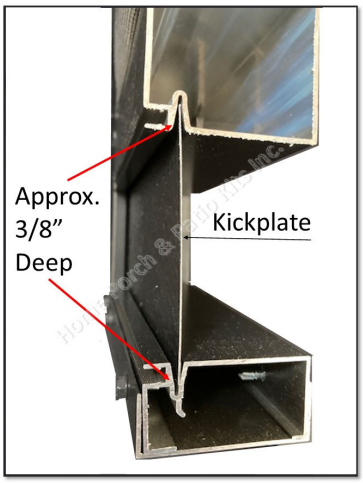
Installation Guidelines

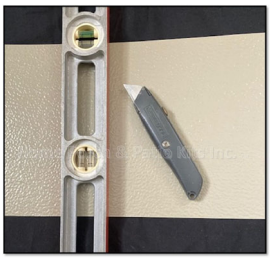
Install the Kickplate

Step 6

Important starting note: Whether you have a kickplate to install or simply a 'chair rail' both installations use the 1708 - 2"x2" mainframe material. Additionally, in both cases the mullion clips are used on the underside of the mainframe to secure it in place.

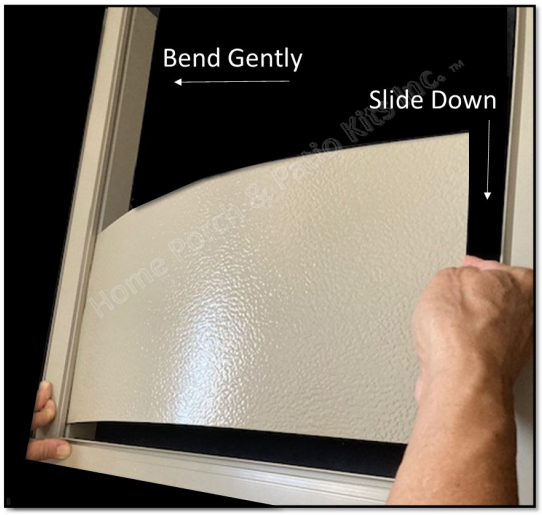
Measuring: In order to cut the right size of kickplate for your opening you will need to consider the width of your opening as well as the depth of the channels that holds the kickplate in each of the verticals. For example… if your opening is 42" between inside faces of your verticals you will want to cut your kickplate section between 42.5" to 42.75" to ensure a 'snug' fit. Do not cut it too big otherwise your kickplate will bow.





All you will need to cut your section of kickplate off the coil is a level and a box knife. Use the box knife to score the kickplate and then snap your piece off the roll.

Installation: Since your piece of kickplate is slightly over-sized, simply put the kickplate in the groove on the left vertical and bow or bend the kickplate slightly so that you can release it into the groove on the right vertical. Then simply slide it down into the groove on the bottom mainframe you have already screwed into place.



You will now want to cut your length of 1708 - 2"x2" mainframe to go on top of your kickplate assembly. Place it on top of the kickplate and use a level to make sure it is square against both verticals. Using a pencil, draw a line under the mainframe piece on each of the verticals. You will use these lines as a reference to finally secure the top piece.

You will find a way that is easiest for you, but to start, we suggest taking your piece of 1708 mainframe and secure the mullion clip to each outer edge as shown to the right. Be sure that the two spline grooves on the outer face of the 2"x2" mainframe are toward the outside! Remember your mullion clips are installed on the top of the 2"x2" mainframe.

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Installation Guide-

Install the Kickplate *(cont'd)*

Step 6 (cont'd)

*[**Hint**: The mullion clips are generally supplied 'unpainted' and not predrilled. Hit them with a shot of the touch up paint we have supplied with your order. If you wish you can drill starter holes in the mullion clips but the TEK screws are self tapping and easy start without any starter holes.)*

You can now finish off the kickplate installation by using the pencil line on each of your verticals to make sure you keep everything level as you secure the mullion clips to the vertical mainframe.

Install the Door Header

Step 7

We have supplied enough 1708 - 2"x2" mainframe to put a header up on your door section. This should be installed exactly 80" from the ground.

*[**Hint**: Since no installation is perfectly square, you may want to consider assembling the screen door kit supplied with your materials prior to installing the header (https://www.homeporchandpatiokits.com/pdfs/ScreenDoorF827.pdf). Once this is assembled you can hold it in place to make sure the bottom sweep operates properly across the full width of the installation. With a pencil mark the spot on the vertical framing where the **bottom** of the header should sit. It should be very close to 80".*

Secure the header using the mullion clips supplied except the mullion clips are secured on top of the header so as not to interfere with the door frame assembly as it attaches to the 2"x2" verticals

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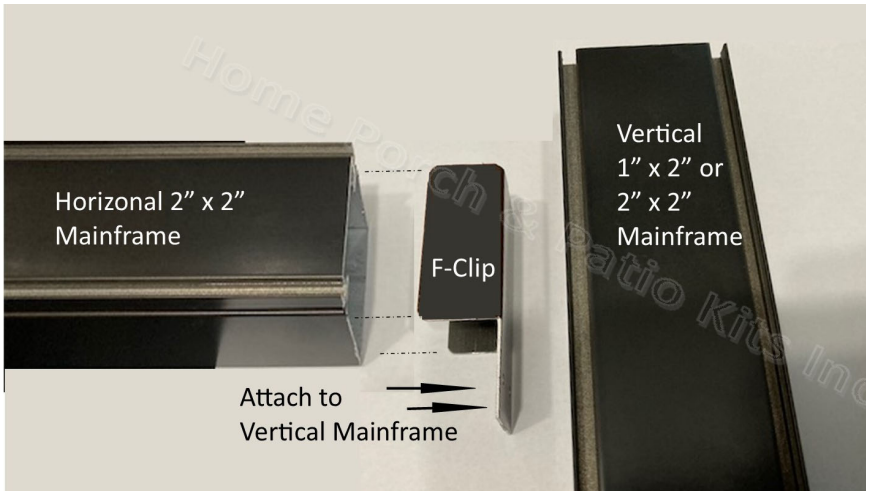
Installation Guidelines

ADDENDUM

ADDENDUM

Horizontal Chair Rail, Top Of Kickplate and Door Header Connections

Some customers may not receive the mullion clips described above. Depending on availability, you will receive our "F - Clips". It is a simple two flange clip where the two flanges fit snugly into each end of the 1708 2" x 2" horizontal mainframe (as depicted on the right). Don't be afraid to use a rubber mallet to get the F-Clip fully into the opening.



Be sure to have the 'tail' pointing toward the floor for attachment to the vertical mainframes with the self tapping 1/2" TEK screws supplied. Additionally with the tail pointing toward the floor, be sure the **ALL** spline grooves are facing toward the outside!

***Hard Top Screen Room | Bottom Bracket Work-Around**

Most people prefer to have the bottom post brackets placed so they run the same direction as the front wall. The bottom U channel can be run up to the horizontal and vertical flanges of the bracket and simply continue the 1" x 2" mainframe over top of each of the flanges meeting at the bottom corner. *Pictured on the right >>>>>>>*

Alternatively you may choose to trim the bottom off the U Channels, the length of the bracket flange, so that the sides of the U Channel runs all the way to the corner.

<<<<<<<<< Pictured on the left

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Installation Guidelines

Installation Considerations

Step 8

Slopes: Often cement pads will slope 'away' from the house wall by as much as 2". You will need to make a decision as you begin to install your bottom horizontal 1707 - 1"x2" mainframes between your verticals.

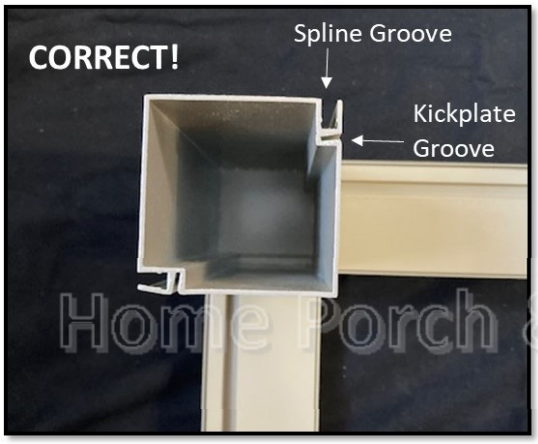
1. You can follow your natural slope along the bottom installation and with your chair rail / kickplate installation.

OR

2. You can start to 'float your bottom horizontal 1707 - 1"x2" mainframes between your verticals by lifting them slightly to 'level' as you move away from the house wall to the front of your installation.

The advantage of #2 is if you want the 1708 - 2"x2" on top of the kickplate to be level you will not have to trim the kickplate in each section to accomplish it.

Corners: Most applications will be using existing posts to 'turn the corner' from the front wall to the sidewalls. For the times where you are screening outside the support structure we have the 1706 - 2"x2" corner post to screen around the corner. WARNING - it can be installed upside-down! The pictures below shows you the correct and incorrect installation of the corner post.



Accessories: Everything 'internal' to your installation is supplied by Home Porch & Patio Kits. All hardware to attach the U channels to your house wall, cement pad, deck, posts & under the roof line is supplied by you the customer and should be sourced locally.

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Installation Guidelines

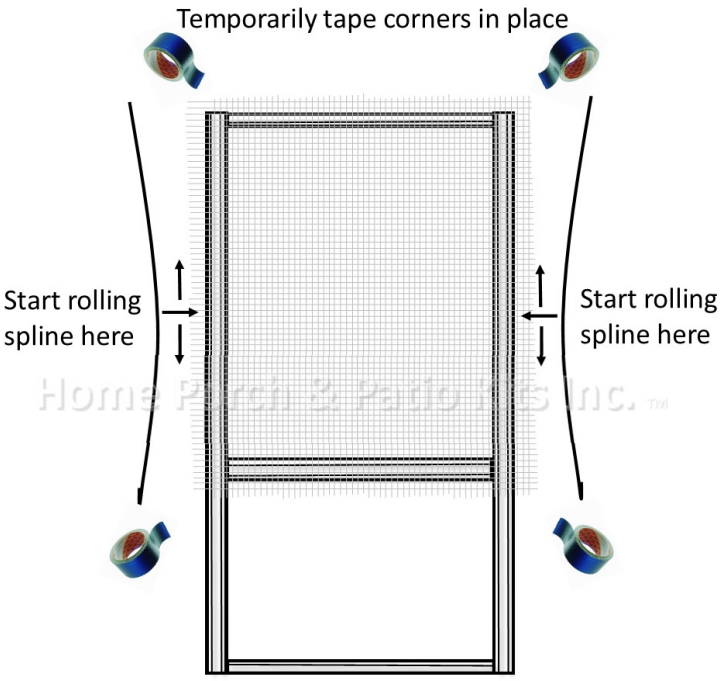
Screening Your Installation

Step 9

Unless you have requested otherwise, we have supplied you with screening to finish off your installation. Typically it will be a 100' roll at a width based on your largest opening. We have also supplied a roll of spline and a screen roller tool to roll the spline into the 'spline groove' locking your screening in place.

Unless you have a kickplate, you will be screening both above and below the 1708 - 2"x2" mainframe horizontal. Obviously with a kickplate you will only be screening above the horizontal 2"x2" mainframe.

Start by cutting the length of screening you need for you first section, making it about two inches longer than the total height. You will also need 4 pieces of spline - two about 4" longer and two about 4" wider than your opening.



Temporarily tape (not supplied) the four corners of your section of screen in place. Take hold of 'the center' of the length of spline and roll about 12" of the screen and spline into the first spline groove on both sides of the opening. This will be where the most tension on the screen will be and where you set the horizontal level of the mesh in your opening.

Once you have both sides started you can have someone apply a light inward pressure with their hand on the screen as your roll the spline in, going up and down in 12" increments on alternating sides. You can also try dragging the tip of your fore finger on the screening out in front of your spline as you roll to prevent the spline from pulling the material too tight. Effectively, you are screening from side to side first, pulling the screen taught but not overly so. Then finish off the section by rolling the spline and screen into the horizontal spline grooves. You will use 4 pieces of spline per section rather than one continuous piece of spline. Trim off excess screening & spline by running a sharp blade (razor or box knife) along the back edge of the spline.

As with other parts of this project, after working through your first section *(Hint: Start with a small lower section, if possible, for practice)*, you will likely develop your own method for screening in your installation. **It will take practice!**

There are a few screening resources on our YouTube page for your review… https://www.youtube.com/channel/UCcrSkeavhUdgj9GgSds1xsQ

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Installation Guidelines

Take your time, measure twice, cut once and above all…

Enjoy the process!

Don't forget to send pictures bragging about your DIY skills!

Finally: These pages are intended as a 'guide' only. It is assumed you have entered into this process with an appropriate level of DIY skills and are capable of problem solving along the way. The beauty of this 'materials supplied' kit is its built in adaptability. These guidelines are not given to address every situation you may run into within your particular application.

You will need to know how you will be using the lengths of each profile, prior to cutting, to ensure you have enough to accomplish installation. If you believe there is a problem with the amount of material you have, give Home Porch & Patio Kits a call, toll free, and we will go over it with you! Obviously, if wrong cuts lead to a material shortage, you will need to purchase additional material.

We will always work to get the material to you in the cheapest and fastest manner possible.