Meadow Valley

1-800-657-4666

LOG AND TIMBER RAILING SYSTEMS

- White Cedar Log
- Exterior or Interior Use
- Hand Peeled Appearance (diameters vary)
- Square Cut or Tenoned Ends
- Available for decks, lofts and stairs
- Posts 6”, Rails 4”, Spindles 3” (Round)

- White Pine Timber
- **Interior Use Only**
- Smooth Square with Hewn Edges
- Square Cut Ends
- Use for lofts and stairs
- Posts 6” x 6”, Rails 3”W x 4”H and Spindles 2.25” x 2.25” (Square)

Cedar and pine naturally develop checks and cracks, which is unavoidable and enhances its rustic appeal.

Your rails will arrive unfinished. For exterior applications we recommend a good quality exterior stain. Do not use a polyurethane or varnish on exterior railings as the elements may cause peeling and blistering to occur. Interior railing can be finished with polyurethane, stain or varnish. Always check and follow manufacturers recommendations on the container before proceeding.

LOG AND TIMBER RAIL SECTIONS

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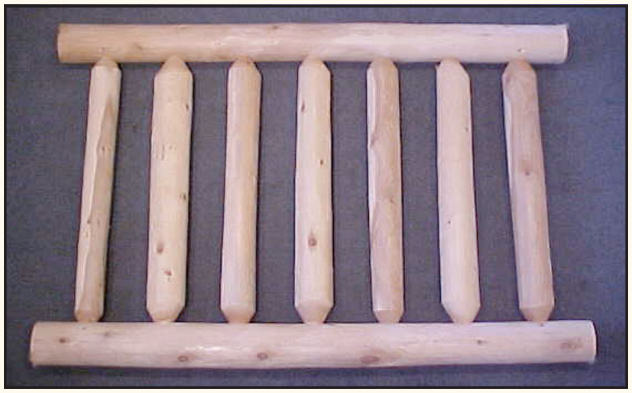
WHITE CEDAR SQUARE CUT LOG RAIL SECTIONS
(Trimmable)



Cedar and pine will naturally develop cracks and checks which enhances its rustic appeal. Rail sections come pre-assembled as shown. They do not include support posts or fasteners. With posts, railing will have a finished height of approximately 36”-38”. Spindles have a 4”, or less, gap between them to meet code.

WHITE CEDAR TENONED LOG RAIL SECTIONS
(Installed length is 4” shorter)

WHITE PINE SQUARE CUT TIMBER RAIL SECTIONS
(Trimmable)
Interior Use Only

Available Lengths: 2’, 3’, 4’, 5’, 6’, 7’, 8’, 9’, 10’
Length is measured end of rail to end of rail.

DESCRIPTION	VENDOR PART NUMBER
Square Cut Log Rail Sections	6000000201, 0301, 0401, 0501, 0601, 0701, 0801, 0901, 1001
Tenoned Log Rail Sections	6100000201, 0301, 0401, 0501, 0601, 0701, 0801, 0901, 1001
Square Cut Timber Rail Sections	6400001602, 03, 04, 05, 06, 07, 08, 09, 10

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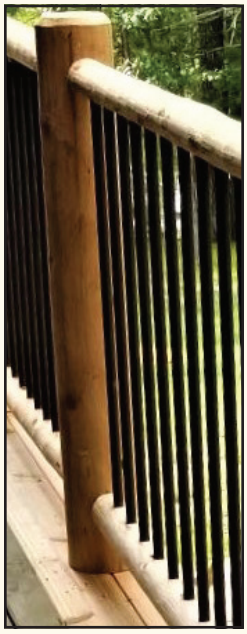
LOG AND TIMBER RAIL SECTIONS

WITH ALUMINUM SPINDLES

INCLUDES TEXTURED BLACK SPINDLES

Other colors available special order.

Cedar and pine will naturally develop cracks and checks which enhances its rustic appeal.
Rail sections come pre-assembled as shown. They do not include support posts or fasteners.
Railing will have an installed height of approximately 36”-38”.
Spindles have a 4” or less gap between them to meet code.



WHITE CEDAR SQUARE CUT LOG RAIL SECTIONS

(Trimmable)

WHITE PINE SQUARE CUT TIMBER RAIL SECTIONS

(Trimmable)
Interior Use Only

WHITE CEDAR TENONED LOG RAIL SECTIONS

(Installed length is 4” shorter)

Not Trimmable. See custom page for other lengths.

Available Lengths: 2’, 3’, 4’, 5’, 6’, 7’, 8’, 9’, 10’
Length is measured end of rail to end of rail.

DESCRIPTION	VENDOR PART NUMBER
Square Cut Log Rail Sections	6000003400-2, -3, -4, -5, -6, -7, -8, -9, -10
Tenoned Log Rail Sections	6000003600-2, -3, -4, -5, -6, -7, -8, -9, -10
Square Cut Timber Rail Sections	6400001620-2, -3, -4, -5, -6, -7, -8, -9, -10

LOG AND TIMBER POSTS
NOT DRILLED

Meadow Valley
1-800-657-4666

Flush Post | Notched Post | Outside Corner | Inside Corner

Wood will naturally develop cracks and checks which enhances its rustic appeal. Post tops have a slight bevel and have a finished height of 40".

Flush Mount Posts sit on the surface of your deck or loft. All Notched Posts are designed to lag into the deck joist. See Railing Installation Sheets for more information. Posts are not predrilled.

All posts come undrilled unless white cedar custom log railing is ordered.

Pine Posts for Interior Use Only.

DESCRIPTION	6" LOG	6"X6" TIMBER SMOOTH	6"X6" TIMBER HEWN
40" Flush Mount Post	6000004001	6400003901	6400003902
48.5" Shoulder Notched Post	6000006401	6400003954	6400003955
48.5" Outside Corner Shoulder Notched Post	60000016401	6400003956	6400003957
48.5" Inside Corner Shoulder Notched Post	6000016402	6400003958	6400003959
40" Half Post	6000004003	6400003950	6400003951
48.5" Half Post	6000004004	6400003952	6400003953

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LOG AND TIMBER RAILING COMPONENTS

CEDAR LOG (ROUND)

SIZES	VENDOR PART NUMBER
6” x 48.5”	6000004002
6” x 8’	6000006801
6” x 10’	6000006101
8” x 40”	6000038070
8” x 48.5”	6000038072
8” x 8’	6000038081
2” x 8’	6000003800
3” x 8’	6000003801
3” x 10’	6000003810
4” x 4’	6100004401
4” x 8’	6000004801
4” x 10’	6000004101
4” x 12’	6000004121

PINE TIMBER (SQUARE)

SMOOTH	VENDOR PART NUMBER
6”x6”x48.5”	6400003911
6”x6”x8’	6400003917
6”x6”x10’	6400003921
6”x6”x12’	6400003923
6”x6”x14’	6400003925
6”x6”x16”	6400003927

HEWN EDGES	VENDOR PART NUMBER
3”x4”x8’	6400003408
3”x4”x12’	6400003412
3”x4”x16’	6400003416
6”x6”x48.5”	6400003912
6”x6”x8’	6400003918
6”x6”x10’	6400003922
6”x6”x12’	6400003924
6”x6”x14’	6400003926
6”x6”x16”	6400003928

Pine Components for Interior Use Only


Log


Timber

SPINDLES

29” The tenoned ends of the spindle have a diameter of 1 ½” and are 1 ½” long.

26” Stair spindles have a diameter of 1 ½” and are 2 ½” long.

ITEM DESCRIPTION	VENDOR PART NUMBER
3” x 26” Tenoned Log	6000002602
3” x 29” Tenoned Log	6000002802
3” x 29” Untenoned Log	6000002801
2-1/4” x 26” Tenoned Timber	6400002612
2-1/4” x 29” Tenoned Timber	6400002812


Log


Log


Timber

Commercial Height Railing & Posts also available upon request.
For commercial applications installed height would be 42” to 44”.

CUSTOM LOG AND TIMBER RAILING

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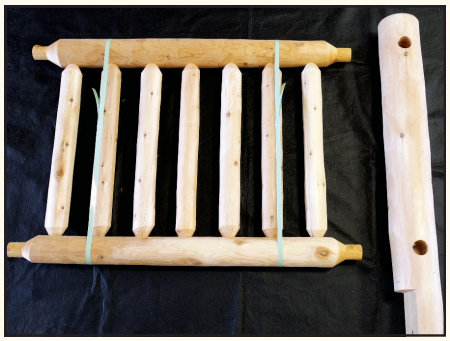
1-800-657-4666

IMPORTANT: The measurements for custom railing systems (horizontal or stair) are provided by the contractor or homeowner using the measurement sheets included in this book as a guide. Custom railing systems may not be returned for refund.

CUSTOM-LENGTH WHITE CEDAR LOG HORIZONTAL RAILING SYSTEM



Top and bottom rails are tenoned to fit into pre-drilled posts, based on diagram and measurements provided by the customer or contractor. Posts will be evenly spaced unless specified differently on diagram. Sections and posts will be labeled for assembly and include rails, spindles, and posts. Fasteners not included.
Quote required prior to order.

DESCRIPTION	VENDOR PART NUMBER
With Log Spindles	6000000001
With Aluminum Spindles	6000000005

CUSTOM-LENGTH WHITE CEDAR LOG STAIR RAILING SYSTEM

Sold Per Foot. Built Per Inch.

DESCRIPTION	VENDOR PART NUMBER
With Log Spindles	6000000032-2, -3, -4, -5, -6, -7, -8, -9, -10
With Aluminum Spindles	6000003300-2, -3, -4, -5, -6, -7, -8, -9, -10

Top and bottom rails left long for on-site cutting or tenoning. Stair posts need to be sanded or drilled on site for proper fit. **To order: a stair railing measurement sheet must be filled out by the installer.** Install staircase prior to measuring for railing to avoid errors. Fasteners not included.

Commercial railing also available.

DESCRIPTION	VENDOR PART NUMBER
Custom Commercial Horizontal Log	6200000001
Custom Commercial Stair Log	6200000002

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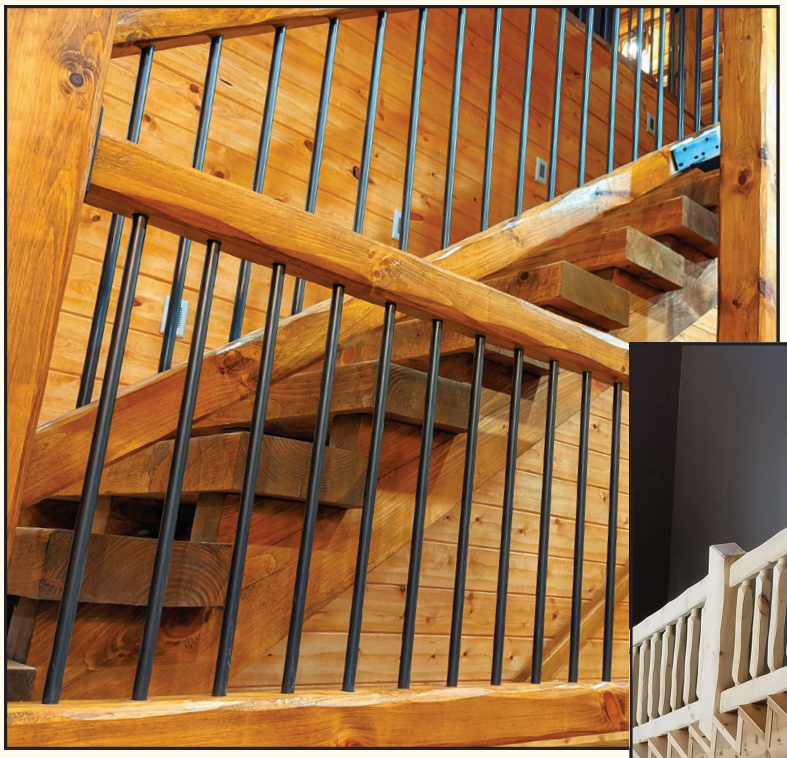
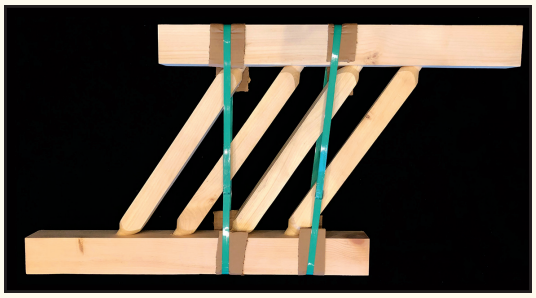
CUSTOM LOG AND TIMBER RAILING





CUSTOM-LENGTH TIMBER STAIR RAILING SYSTEM

Sold Per Foot. Built Per Inch.

For interior use only. Top and bottom rails left long for on-site cutting.
To order: a stair measurement sheet must be filled out by the installer.
Install staircase prior to measuring for railing to avoid errors. Fasteners not included.

WHITE PINE TIMBER

SPINDLES	VENDOR PART NUMBER
Timber	6400001612-2, -3, -4, -5, -6, -7, -8, -9, -10
Aluminum	6400001620-2, -3, -4, -5, -6, -7, -8, -9, -10

Cedar Rails, Posts, and Spindles have a hand peeled appearance, so diameters will vary slightly. Cedar may be used interior or exterior. Pine sections will be smooth with hewn edges and are for interior use only. Pine posts are available in smooth or with hewn edges. Both will naturally develop cracks or checks which enhances its rustic appeal.

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LOG SIDING

REQUIRED STAIR RAILING INFORMATION

CHOOSE ONE FOR EACH OF THE FOLLOWING

RAILING		POST		RAILING SECTION REQUIRED	
CEDAR ROUND LOG	_____	FLUSH MOUNT	_____	FOR ONE SIDE	_____
OR		OR		OR	
* PINE SQUARE HEWN	_____	SHOULDER NOTCHED	_____	FOR BOTH SIDES	_____

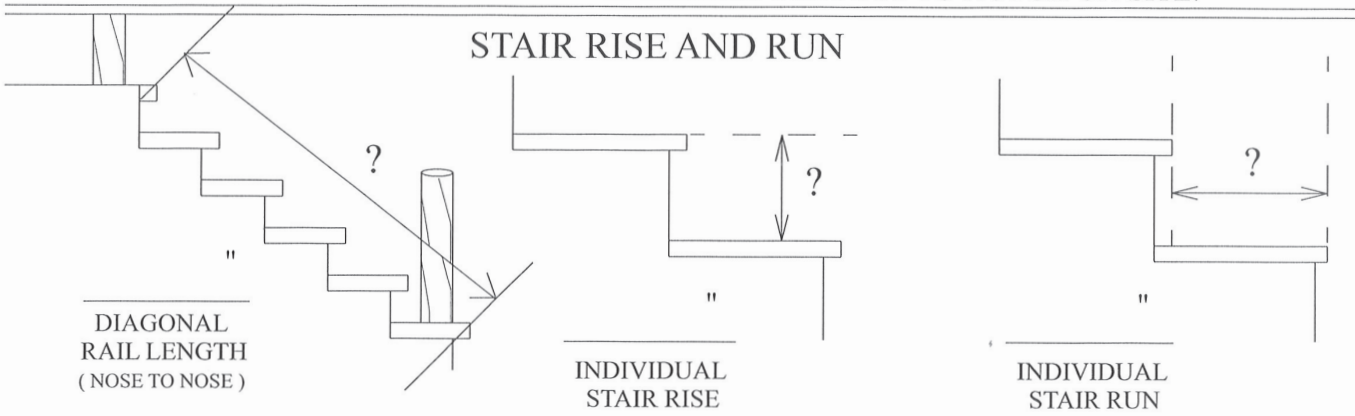
* PINE RAILING FOR INTERIOR USE ONLY .

STAIR RAIL SECTIONS WILL NOT HAVE TENONED ENDS.

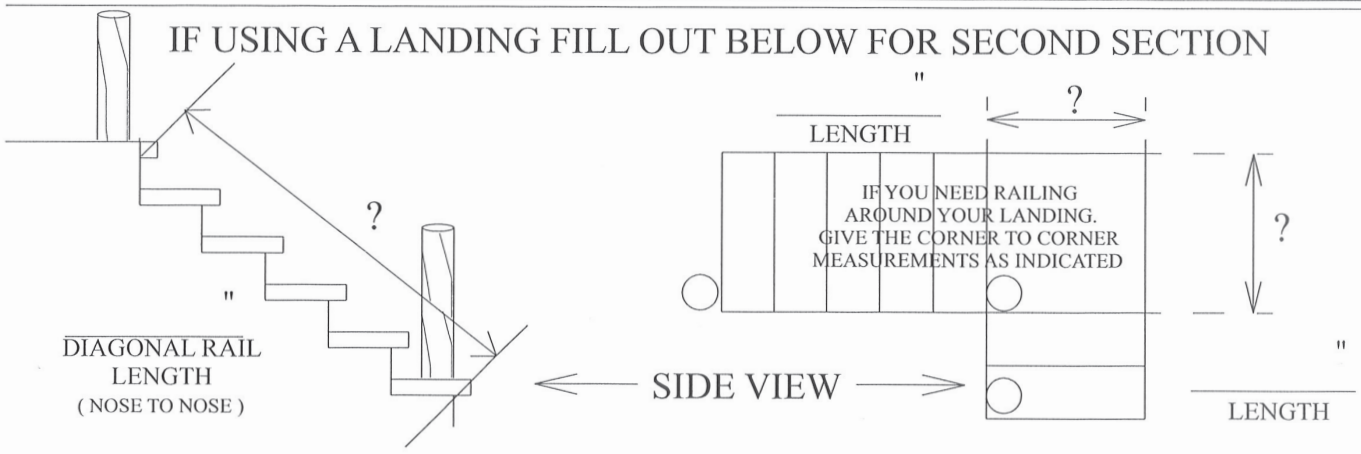
DIAGONAL RAIL LENGTH GREATER THAN 10'-0" REQUIRES AN INTERMEDIATE POST.

IF USING A SKIRT BOARD ORDER FULL POST TO NOTCH ON SITE.

STAIR RISE AND RUN



IF USING A LANDING FILL OUT BELOW FOR SECOND SECTION



RETURN INFO: STORE#_____ EMAIL _____ EMAIL SHEET TO:
CONTACT NAME _____ PHONE# _____ info@log-siding.com

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Meadow Valley
Deck Railing Measurement Instructions

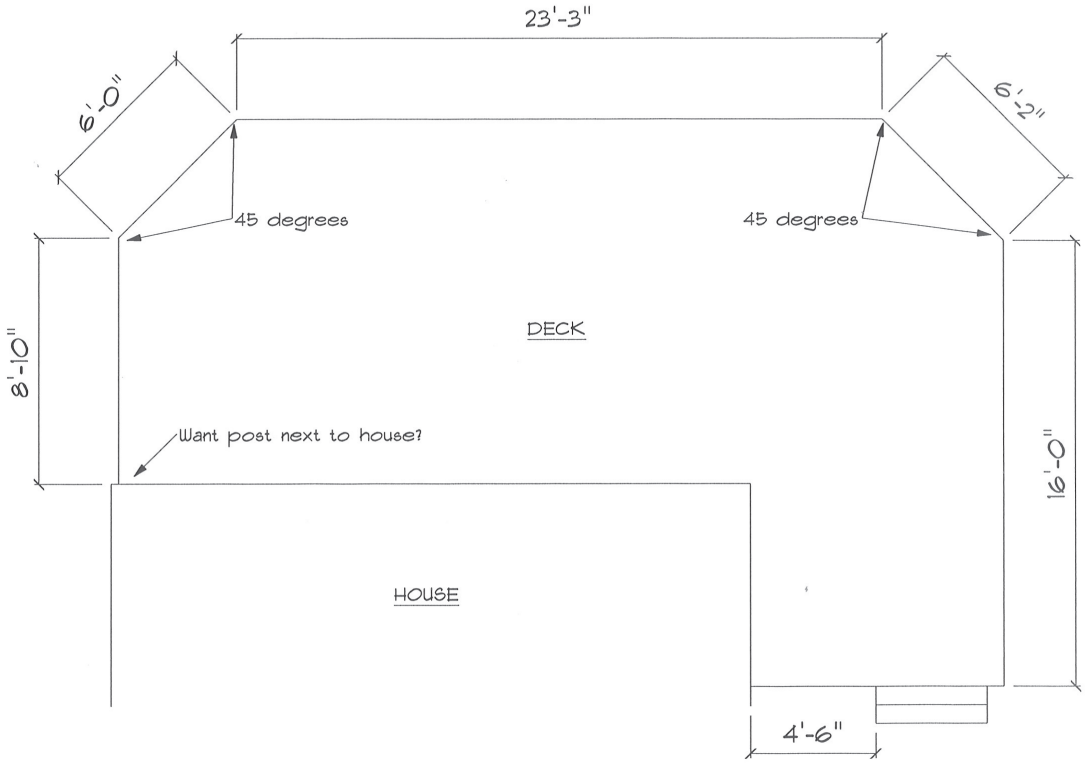
Contact Name: _____

Number: _____

Return Email: _____

Job Name: _____

Store Location: _____



1.	Draw your deck, porch, or loft as a birds eye view from above with measurements clearly indicated on the drawing.
2.	Measure from corner to corner if we are providing support posts. NOTE: If there are existing posts please indicate their position on your drawing with this symbol ⊕ and provide exact measurement between all existing posts.
3.	All angles other than 90 degrees must be written on your drawing.
4.	If your railing meets a wall, please indicate if you want a post near the wall, or if you will be attaching your railing into the wall.
5.	Choose your support post base (either flush mount or shoulder cut) and write your choice on your sketch.
6.	Return your sketch to your lumberyard so your order can be faxed. Make sure your name, address, and phone number are on your sketch and the name of the lumberyard.

Email sheet to: info@mvloghomes.com.

Please call 800-657-4666 for additional information.

POST & RAIL ASSEMBLY INSTRUCTIONS

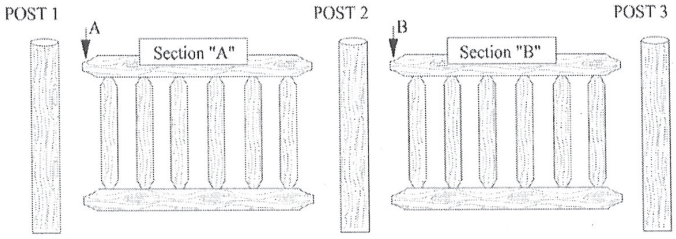
Read all instructions before assembly

Tools and hardware needed: tape measure, 4' level, drill and bits of desired fasteners, fasteners depend on application, utility knife, ratchet set

Do Not Remove Bands from Rails until All Assembly is complete.
Whenever possible dry fit post and rail sections from corner to corner. Plumb all posts before marking for any drilling or notching. Be sure all adjustments are made before bolting post to the joist.

Horizontal Rail Sections

1. If "Custom Railing" to fit your deck was ordered, match rail sections with corresponding post.



Example: "A" insert into post "1", "B" insert into post "2" etc.

The rail sections are marked on the tenon ends of the rails (A,B,etc.). Posts are marked with a number on the bottom (1,2, etc.). It is important to follow the numbered posts with corresponding rail sections to ensure proper fit as the posts and sections vary in diameter and have been designated for the corresponding rail sections only.

2. If Preassembled Horizontal Tenoned Sections (4', 6', 8' or 10') were ordered, posts will need to be drilled (2" saw tooth Forstner bit works well).
    a. Layout sections and posts on deck/loft where they will be installed.
    b. Measure center to center of tenoned rails to determine post hole locations. Add 5" to that distance and mark post measuring from the top down; this will be the center of the bottom hole. Also mark post 5" from the top for the first hole; be sure these are inline. Before drilling ensure the holes are marked in the correct locations. (Every measurement varies.)
    c. Dry fit the tenoned rails into posts making sure posts are plumb.

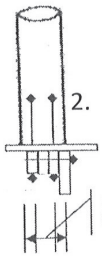
3. If Square Cut Rails
    a. When attaching rails in between posts
        i. Install posts making sure they are plumb.
        ii. Use two short pieces of 2x4 boards as a spacer at the bottom of the rail to give you a 3-1/2" gap between the deck and bottom rail.
        iii. Cut to length if necessary by trimming the same distance from each end so spindle spacing between posts are similar. (Note: Over 4" spacing between spindle and post does not meet Building Code.)
        iv. Use (1) 10" or 12" LogHog Timber Screws (or similar with ESR 1078 1-05 rating) to penetrate through the post and into the end of each rail (at its center) at least 4" and slightly countersink into post. (Ensure post and rail connection is tight without over tightening.)
    b. When attaching rails to side of post the rails must be fastened to the deck or loft side of the post.
        i. Trimming of the ends may be needed so rail location extends to at least the center of post (4" max spacing between spindle and post).
        ii. Use (2) LogHog Timber Screws and penetrate at least 4" into the post with a maximum of 1" countersink into rail. (Ensure post and rail connection is tight without over tightening.) If connecting two sections to one post a minimum of (4) Timber Screws is needed.

Post-to-Deck Connection:

With the rail sections in place attach posts to joist - Stainless or galvanized fasteners are recommended for exterior applications.

1. Shoulder Notched Posts
   a. Option 1
      i. Drill two holes for ½" bolts through post and joists.
      ii. Attach ½" bolt through post and rim boards using 2" washers each side and ½" nut.
   b. Option 2
      i. Attach (3) Fasten Master ThruLOK w/ washer and nut as directed by hardware manufacturer.
      ii. Attach (1) SPAX 3/8" x 8" Exterior PowerLag T-Star washer head on the inside of the joists up at an angle into post.
   c. Other attachment options on www.log-siding.com/links/

When a post lands on a joist a single hold down anchor is needed to strengthen the rim connection to the joist. If the post does not land on a joist then two hold down anchors are needed, one on each joist on both sides of the post above. Use ½" galvanized bolts with nuts and washers. Lengths vary per application.



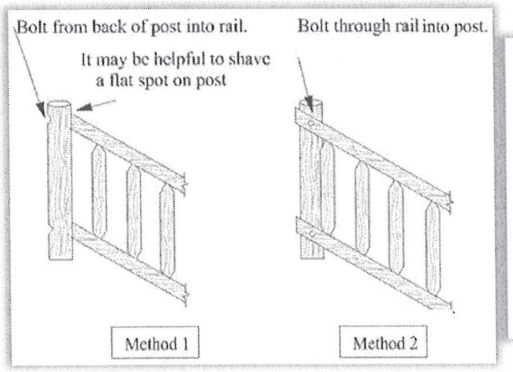
2. Flush Mount Posts
   a. Reinforce underside of deck by bolting a triple block beam of pressure treated 2x4 to the joist using ½" dia. bolts with washers each side. Using a 5/16" drill bit make two holes up through block beam and decking, into post as shown in drawing. Use 12" Lag Bolt with washer to firmly attach post without over tightening.
   b. Newel post connectors can also be used if they meet code in your area.

4. Remove strapping from rail section.
5. Toenail 3 ½" exterior screws at the base of each tenon at an angle into the inside of the post hole countersinking ¼" to the hide screw.

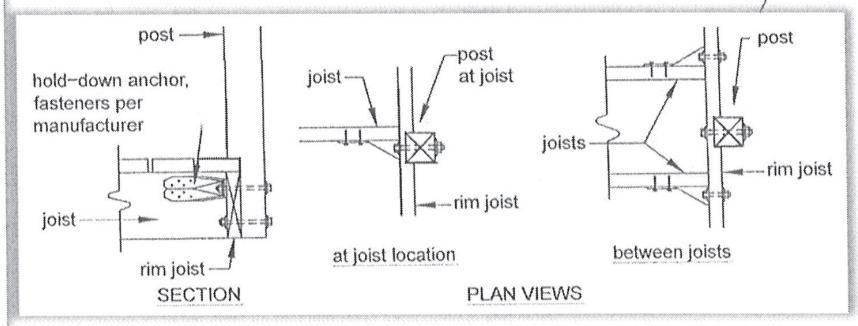
Stair and Ramp instructions-(Refer to Horizontal Square Cut Rails)

Start with the upper section first to best hide fasteners. Because the bands are snug tight the stair rail angle may be compressed giving you the wrong angle. It may be necessary to remove bands prior to assembly to position the spindles at the proper angle. In this case use rope or bungee cords to hold the rails together while marking rail ends for trimming.

Commonly used methods for attaching rail sections to posts.



Commonly used methods for hold down anchors on or near posts.



Each situation is unique and on-site modifications may be needed. Due to this and ever changing building codes, the above installation suggestions should serve only as a guide.

For further assistance call 1-800-657-4666 Mon. - Fri. 7:30 am - 4:30 pm.

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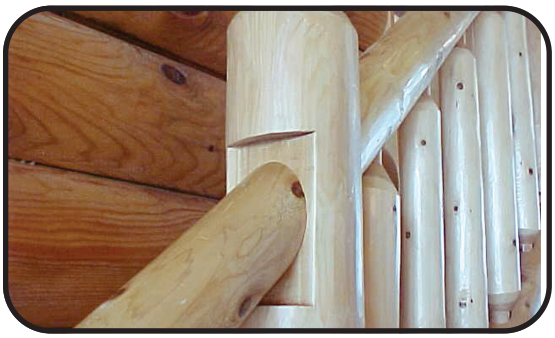
LOG SIDING

SQUARE CUT RAILING ATTACHMENT OPTIONS

There are many methods used to attach square cut railing to support posts. Most methods involve modifying the post, or the top and bottom rail for attachment.

Cope Support Post Shave the support post down with a planer or sander. Attach rails.



Router then chissel out a small area on the support post where the top and bottom rails will meet. Use a belt or finish sander to sand the area flat.

Cope Top and Bottom Rail Use a coping saw, sawzall, or jigsaw to cope the top and bottom rails. Attach to support posts.

Square Cut This is the easiest method for attaching square cut railing. Top and bottom rails butt up directly to the post.

Bevel Cut A bevel cut is made on both sides of the top and bottom rail before attaching to the posts.

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LOG STAIRCASES

- White Pine - Rustic Hewn
- Two 10” Notched Log Stringers
- 11” Half Log Stair Treads - 4’ Long
- Other Tread Lengths Available
- Railing Ordered Separately
- Need the Total Rise and Run to Order
- Check Local Codes Before Ordering
- This is a raw log product and may require sanding prior to finishing.
- Logs may develop cracks or checks which are an unavoidable natural process.
- Includes 8” Timber Screws

DESCRIPTION	VENDOR PART NUMBER
Log Staircase	3010401001

TIMBER STAIRCASES

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1-800-657-4666

- White Pine Smooth
- Two 4”x11.5” Notched Timber Stringers
- 4”x11.5” Timber Stair Treads 42” Long
- Other Tread Lengths Available
- Railing Ordered Separately
- Need the Total Rise and Run to Order
- Check Local Codes Before Ordering
- This is a raw log product and may require sanding prior to finishing.
- Logs may develop cracks or checks which are an unavoidable natural process.
- Includes hardware

DESCRIPTION	VENDOR PART NUMBER
Timber Staircases	3010401012

LOG SIDING

Staircase Tread Worksheet

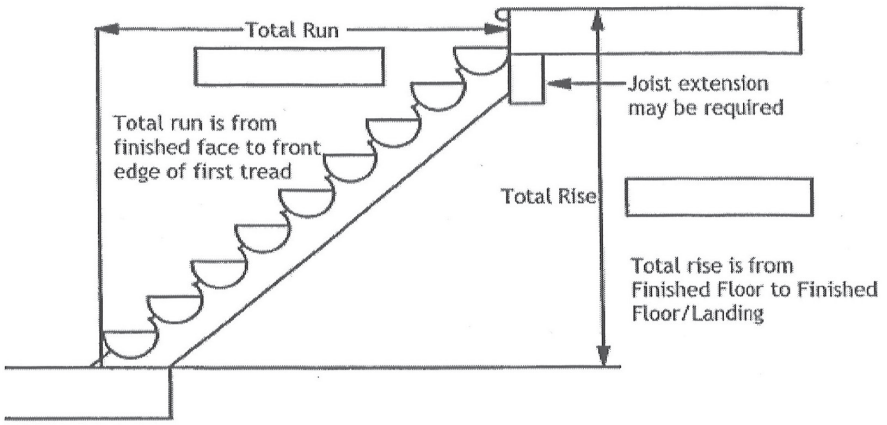
	Total Run			Total Rise	
TREADS	Minimum	Maximum	RISERS	Minimum	Maximum
2 Tread	19	21	3 Riser	18	24
3 Tread	28	31.5	4 Riser	24.25	31.75
4 Tread	37	42	5 Riser	32.25	39.5
5 Tread	46	52.5	6 Riser	40.25	47.25
6 Tread	55	63	7 Riser	48.25	55
7 Tread	64	73.5	8 Riser	56.25	62.75
8 Tread	73	84	9 Riser	63	70.5
9 Tread	82	94.5	10 Riser	70	78.25
10 Tread	91	105	11 Riser	77	86
11 Tread	100	115.5	12 Riser	84	93.75
12 Tread	109	126	13 Riser	91	101.5
13 Tread	118	136.5	14 Riser	98	109.25
14 Tread	127	147	15 Riser	105	117
15 Tread	136	157.5	16 Riser	112	124.75

Example:
If your total rise is 95" then you would fall into this row.

12 Tread	109	126	13 Riser	91	101.5

Which means you will have 12 treads and the end of your staircase will have to land between 109" - 126" in order to meet code.

Total Rise =
Total Run =
Tread Length =



Note: Any Staircase over 12 treads we recommend supporting the stringers in the center.

RETURN INFO: STORE _____ EMAIL _____ EMAIL SHEET TO:
CONTACT NAME _____ PHONE# _____ info@log-siding.com

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LOG AND TIMBER STAIR INSTALLATION

IMPORTANT NOTES: The installation of log or timber stringers and treads is very similar to installing any conventional staircase. Each situation is unique and on-site modifications may be needed. Therefore the following suggestions should serve as a guide. Your log stairs are a raw log product and may require sanding to remove manufacturing marks and cuts before finishing. All full log products are air dried and naturally develop cracks or checks, which are unavoidable and enhance their rustic appeal. Log staircases may not meet code in all areas or may need extra boards so please verify with your local building inspector prior to installation.

The log or timber stringers come with all the notches for the treads to sit in, but **will need the top and bottom angles of the stringers cut onsite.** The ends are not cut to prevent damage while shipping.

We mark where to cut the log stringers and send a jig with each log staircase to ease the process. Please verify markings are correct before any cutting is done. The log stringer jig should be screwed in place before cutting to ensure the angle on stringer doesn't change. This safeguards the notches will be flat when treads are put in place.

In order to meet building codes, you want the first step down onto the tread to be the same height as all other treads including the last tread to the floor, usually around 7 ¼ to 8 inches. Make sure to account for any finished flooring being added to the height of both floors. Once you verify the first and last steps are even in height, mark and cut the angle on the top and bottom end of the stringers. Add joist extensions if they are needed before continuing to ensure a stable connection.

Position the stringers in the staircase opening (it will be helpful to screw a 2x6 board to the floor to prevent the stringer from sliding down once in position).

Log Staircase: Make sure the stringers are spaced correctly in the opening to allow for the log treads to overhang each stringer. Overhangs of 3 – 10 inches are common and should match. Use two timber screws per stringer on the top end of the stringers. Measure the distance between the stringers at the top of the staircase and measure out the same distance at the bottom. Double check that the stringers are centered in the opening and fasten the stringers through the floor and into the floor joists using two timber screws for each stringer.

Position and center each log stair tread on the stringers ensuring they are level. Either timber screw from the top down into each stringer from the center of the tread or timber screw from the underside of the stringer into the tread. Countersink the head into the tread or stringer. Plug the hole if desired.

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LOG SIDING

Timber Staircase: Make sure the stringers are spaced correctly in the opening and slide the first couple treads into the grooves on the stringers. With the tread tight into both sides, go under each tread and toenail three 3" screws (each side) up through the tread into the stringers countersinking ¼". A pipe clamp or ratchet strap may be needed to confirm the stringers stay tight against the treads.

Slide the top tread into place and confirm the riser heights are all the same (finished floor heights may be different than subfloor). Use two timber screws per stringer on the top end of the stringers to attach them in place. Double check that the stringers are centered in the opening and fasten the stringers up through the floor joists, subfloor and into the bottom of the stringers using two timber screws for each. You may have to add addition framing if you are unable to go through floor joists. Continue installing the remainder of the treads working up the staircase as directed above. Wood filler may be used to hide screws holes under the treads.

Finishing: Sanding may be needed once install is complete. Staircase can be finished with your choice of high quality interior stain or polyurethane. To avoid making the staircase too slippery it is not recommended to go with a high gloss polyurethane.

For further assistance call 1-800-657-4666 Mon. – Fri. 7:30 am – 4:30 pm