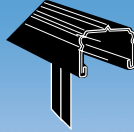


Step 1: Select Your Rail System

METROPOLITAN™ 1 1/4" RAILS

- Rails: 1 1/4" wide x 7/8" deep
- Pickets: 1/2" x 1/2" vertical pickets
- Spacing: 4" on center vertical
- Installed Height: 36" - Full Panel



CLASSIC® 1 1/4" RAILS

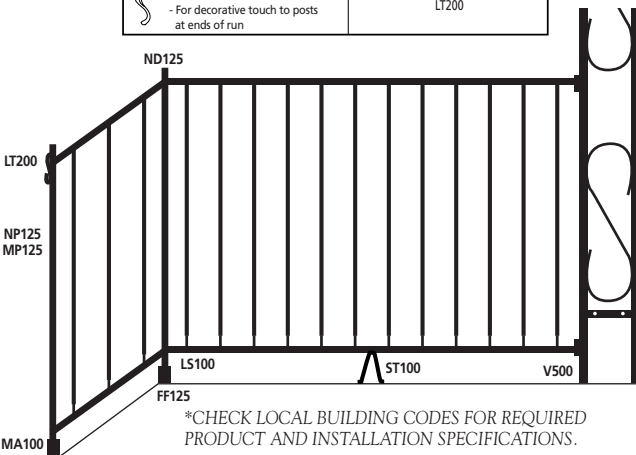
- Rails: 1 1/4" wide x 7/8" deep
- Pickets: Heavy-duty twisted vertical spindles
- Spacing: 6" on center vertical
- Installed Height: 32"



Easy-Do-It-Yourself Installation

With the Village Ironsmith™ railing and column systems, it's easy to plan, select the right products and create a complete and coordinated installation.

Description	METROPOLITAN™ 1 1/4"	CLASSIC™ 1 1/4"
CONNECTORS - To mount Rails to post - 1 Pkg. per rail section	ND125	
NEWEL POSTS 1 per rail plus 1	MP125	NP125
FLOOR FLANGES - To mount post to surface - 1 per post	FF125	
LAG SCREWS - To secure flanges to wood surface - 1 pkg. per flange	LS100	
MASONRY ANCHORS - To secure flanges to concrete surface - 1 pkg. per flange	MA100	
STUB SUPPORT - To add support to rails 1 per rail	ST100	
LAMBS TONGUES - For decorative touch to posts at ends of run	LT200	



*CHECK LOCAL BUILDING CODES FOR REQUIRED PRODUCT AND INSTALLATION SPECIFICATIONS.

Step 2: Plan Your Project

On the grid, sketch the lines of your new railings and columns. Mark the location of all posts and columns. Count the number of rail sections for each length, columns and posts and enter on Shopping Worksheet.

- Add one Floor Flange for each post needed to complete the job.
- If mounting on Wood, use Lag Screws (LS100).
- If Concrete, use Masonry Anchors (MA100). One package of each per post.
- Add the connectors (one package of connectors per rail section).

Note: FOR ALL RAIL SECTIONS

All Rails are sold in 4' and 6' sections and can be cut to length.

Note: FOR COLUMNS

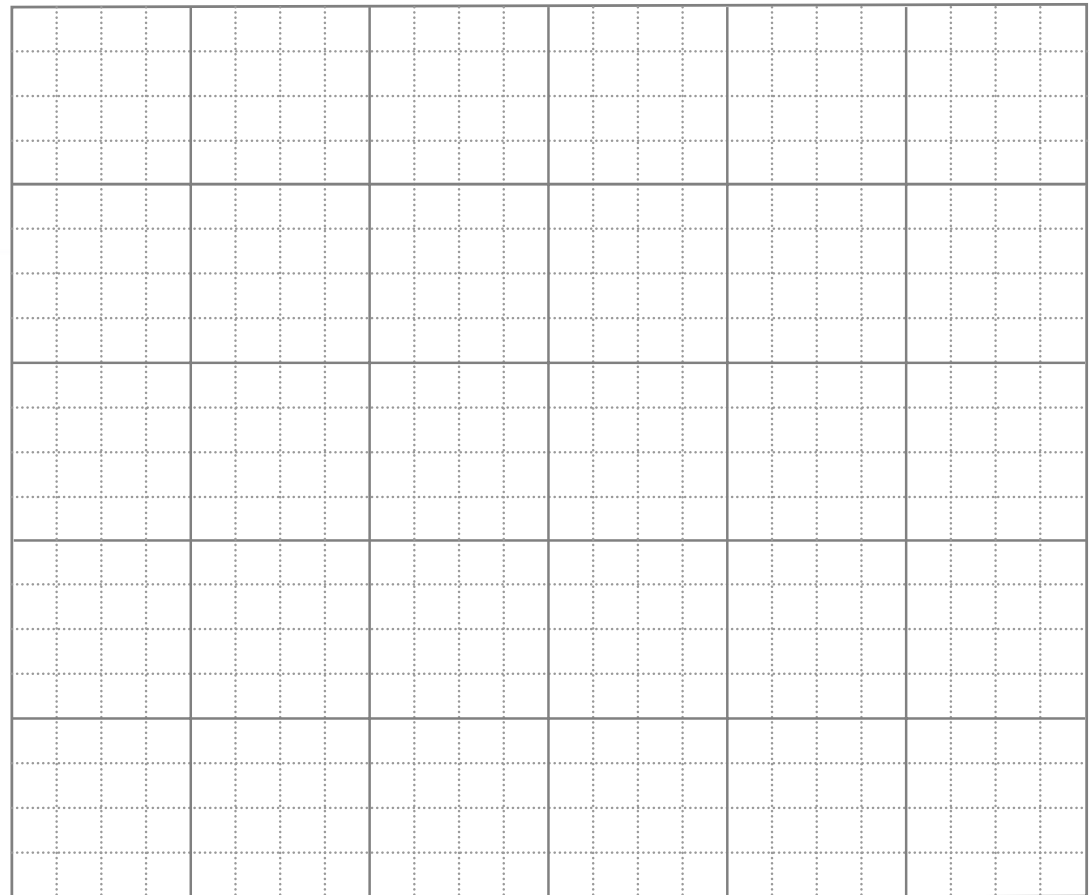
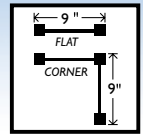
If columns are part of your installation, enter the appropriate number of flat and/or corner columns and sockets on the worksheet.

Column Sockets needed: Flat Columns = 1 package.
Corner columns = 2 packages.

ON-CENTER SPACING FOR POSTS









	Classic® Rails using NP125 posts	Metropolitan™ Rails using MP125 posts
4 ft. Rails	4 ft. 1 1/4 in.	4 ft. 1 1/4 in.
6 ft. Rails	6 ft. 1 1/4 in.	6 ft. 1 1/4 in.

Widths of columns are 9 inches



SHOPPING WORKSHEET & INSTALLATION INSTRUCTIONS

Step 3: Make Your Shopping List

DESCRIPTION/SHOPPING WORKSHEET	METROPOLITAN™ 1 1/4"	CLASSIC® 1 1/4"	QUANTITY
RAIL SECTIONS 4 ft. Section 6 ft. Section	MR450 MR650	CR425 CR625	
 CONNECTORS To mount Rails to post - 1 Pkg. per rail section	ND125		
 NEWEL POSTS 1 per rail plus 1	MP125	NP125	
 FLOOR FLANGES To mount post to surface - 1 per post	FF125		
 LAG SCREWS To secure flanges to wood surface - 1 pkq. per flange	LS100		
 MASONRY ANCHORS To secure flanges to concrete surface - 1 pkq. per flange	MA100		
 STUB SUPPORT To add support to rails - 1 per rail	ST100		
 LAMBS TONGUES For decorative touch to posts at ends of run	LT200		
COLUMNS: Flat & Corner Compliments All Rail Styles (Not for Structural Support)	FLAT: 3S100	CORNER: 3S200	
 COLUMN SOCKET Used for Column Installation - 2 per package	V500		

TOOLS AND SUPPLIES:

- Flat head screwdriver
- Hammer
- Socket or Adjustable Wrench
- Hack Saw
(if rails need to be cut or pitched)
- Power drill & bits
(for drilling into wood or concrete)
- Touch up paint.

PAINTING & MAINTENANCE:

Due to the nature of steel, exposed, scratched or scraped areas will rust. Tough up all scraped or scratched areas immediately after installation. Annual repainting is recommended.

WARNING:

Village Ironsmith products must be installed in compliance with local building codes and/or specifications. These products are for decorative use only. **DO NOT** use Railings for above grade structures such as balconies, decks, porches, etc. Railings are **NOT** designed to support body weight or prevent a person from falling.

NOTES

Step 4: Install & Maintain

FOR FLAT SURFACE

- Location of Posts**
Draw a line 3 1/2" from edge of floor. Where lines intersect, mark for corner posts.



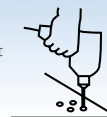
- Space In-Line Posts**

For best appearance, space posts at uniform distances. Use ST100 Stub Support for more sturdy installation.

Tip: If cutting is necessary and for balanced picket spacing, cut an equal amount from each end.

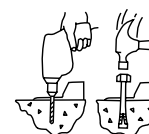
- Install Floor Flanges**

a. On wood surface (Use LS100)
Mark location and drill 1/8" pilot holes and install.



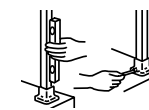
b. On Masonry (Use MA100)

Mark location and drill 1/4" holes into masonry surface 1 5/8" deep. Seat anchor properly and install.



- Install Posts**

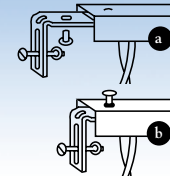
Insert Post into Floor Flange and tighten set screws. Using a level, make sure posts are plumb.



- Attach Connectors to Rails and Mount to Posts**

a. No drill

Slide connectors deep into grooves inside top and bottom rails. Tighten fastener until top surface of rail is slightly dimpled. Position rail and mount to pre-drilled posts with bolts provided. For "in-line" rails, one bolt is used for adjoining rail sections.



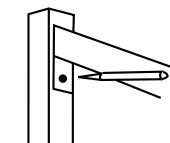
b. Drill

For more secure installation, determine exact location of screw by dimpling rail section as shown above. Then drill 9/32" hole from bottom of rail and insert screw from top of rail through the connector.

Then attach rails. Install LT200 Lambs Tongue for a decorative touch.

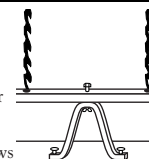
IF MOUNTING RAIL TO A WALL, SURFACE, OR COLUMN:

Mount connector/rail assembly using MA100 Masonry Anchors or LS100 Lag Screws. For columns, mark and drill a 9/32" hole and mount with bolts provided with the connector kits.



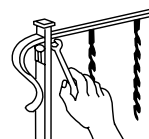
RECOMMENDED FOR ADDITIONAL RAIL SUPPORT. INSTALL ST100 STUB SUPPORTS

1. Locate center of rail, and drill 3/16" hole in bottom of rail.
2. Hand tighten stub support in place.
3. Adjust support higher or lower to match your rail height.
4. Mark location of support leg holes and install with lag screws or masonry anchors.



FOR A DECORATIVE TOUCH, INSTALL LT200 LAMBS TONGUES

1. Remove top connector bolt from post.
2. Re-insert bolt through slot in tab of Lambs Tongue, post and connector.
3. Position on post and tighten.



COLUMNS & COLUMN SOCKETS

For mounting Columns to surface.

1. Measure distance from surface to overhang. If less than 8 feet, cut off excess length from bottom of column.
2. Mark location of column sockets on surface. Secure using Lag Screws or Masonry Anchors.
3. Insert column into sockets, then fasten top of column to overhang using LS100 Lag Screws.

This product is covered by a LIMITED WARRANTY ONLY, which can be obtained from the manufacturer of this product by writing directly to

LL BUILDING PRODUCTS INC.
295 McKoy Road, Burgaw, NC 28425
www.llbp.com