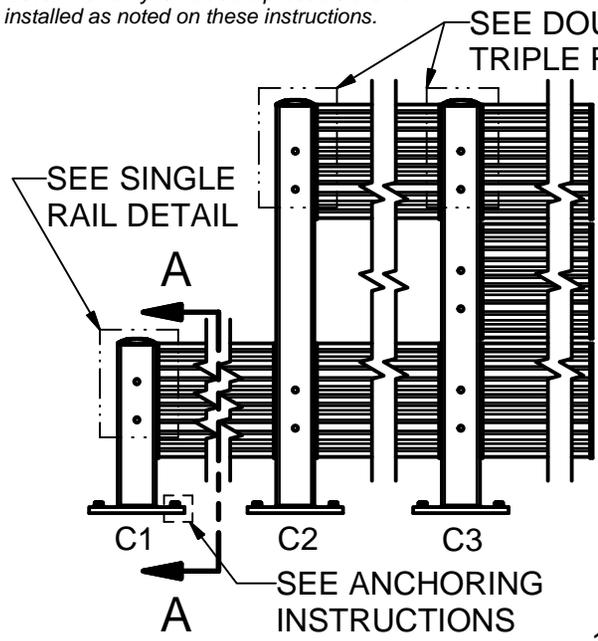


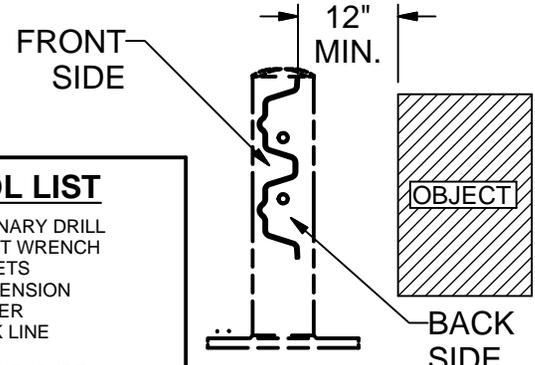
INSTRUCTIONS

- 1) Please read these instructions and review the details thoroughly to familiarize yourself with all the components. Heartland EP will assume no responsibility if not installed according to the stated instructions and specifications.
- 2) All parts can be identified by the description on the packaging. These markings will be referenced throughout the instructions and details.
- 3) Clean the surface upon which the product will be installed.
- 4) Lay out parts in their general configuration of assembly.
- 5) Using a chalk line strike a line where the back of the column's base pad will be. NOTE: Heartland EP suggests a minimum 12" clearance between the rail and the object being protected.
- 6) Next, use a tape measure to mark the centerline of each column on the chalk line. Use the rail chart and the rail size between columns to help place the columns. DO NOT ANCHOR COLUMNS AT THIS TIME.
- 7) Orientate columns so mounting holes in post match the adjacent columns where rail will be installed.
- 8) Assemble rail to columns. Use 1/2" x 1 1/2" bolts for single rail systems and 1/2" x 5 1/2" bolts for double and triple rail systems. Tighten nuts on bolts until snug. See rail details.
- 9) Install rail so the back side is facing the object being protected. See SECTION A-A.
- 10) After rails have been assembled to the columns, anchor columns to the floor using four 1/2" x 5" long anchors per column. See Anchoring Instructions.
- 11) Finish by inserting the 4" post cap into the top of the column and the 9/16" hole plugs in any vacant holes in the columns.

Note: Warranty is voided if products are not installed as noted on these instructions.



STANDARD RAIL



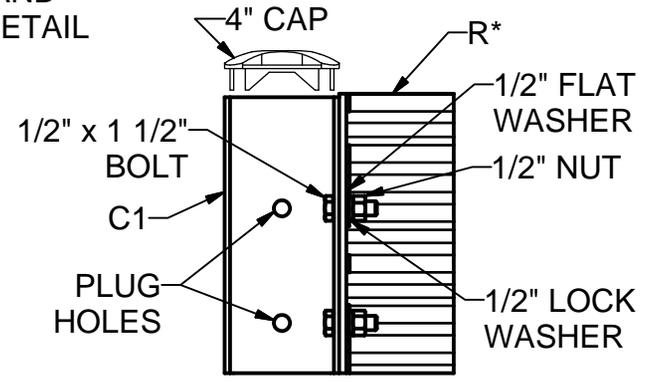
TOOL LIST

- MASONRY DRILL
- IMPACT WRENCH
- SOCKETS
- 6" EXTENSION
- HAMMER
- CHALK LINE
- LEVEL
- TAPE MEASURE
- 3/4" WRENCH
- 7/8" WRENCH
- MASONRY BITS
- SPUD BAR

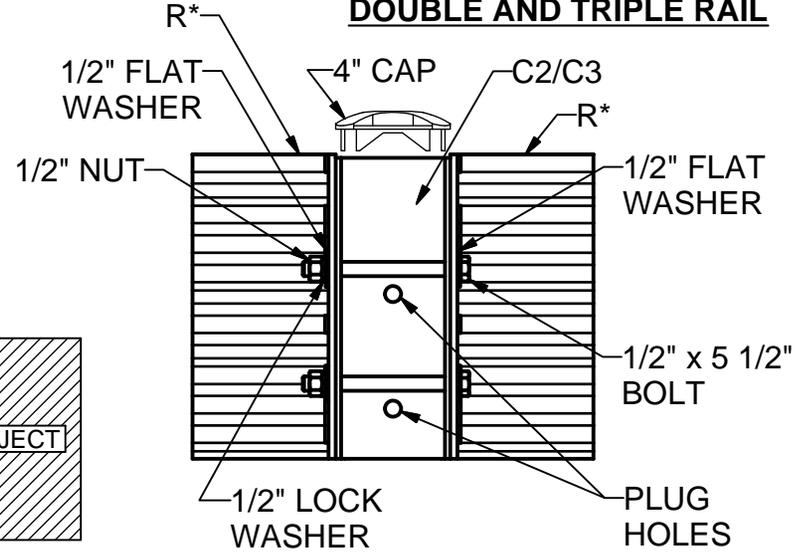
STD. RAIL CHART

RAIL LENGTH	COLUMN C/C
R-3	36"
R-4	48"
R-5	60"
R-6	72"
R-7	84"
R-8	96"
R-9	108"
R-10	120"

SINGLE RAIL



DOUBLE AND TRIPLE RAIL



ANCHORING INSTRUCTIONS

- 1) Drill hole to proper depth and blow clean.
- 2) Drive anchor into hole to desired embedment using socket wrench or powered impact wrench.
- 3) Tighten until hex washer head uniformly contacts column baseplate.

ANCHOR SPECIFICATIONS

- + DRILL BIT SIZE / LENGTH: 1/2" x 5 1/2"
- + MIN. ANCHOR EMBEDMENT: 4 3/8"
- + ANCHOR HOLE DEPTH: 4 7/8"

HEARTLAND ENGINEERED PRODUCTS

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DRAWN BY: DOB	DATE: 9/17/2007	TITLE INSTALLATION INSTRUCTIONS	
CHECKED BY: DOB	DATE: 9/18/2007	SIZE A	PART NO STD SAF-T-RAIL INSTALL