

# Steel Reinforced (SR) Installation Instructions

## Track Preparation

- The track structure should be constructed per the surface data sheet.
- For best results, use new ballast, ties, and rail.
- Ties should be of good quality and in the same plane. Ties that are twisted or not set flat must be adzed or replaced.
- Ties should measure 8'6" or 9' and must be placed center-to-center as follows:

<i>Panel Length</i>	<i>Timber Tie</i>	<i>Concrete Tie</i>
3-foot	18" c-c	

- Rail should be welded. Grind welds smooth to avoid interfering with panels.
- Make certain that track gauge is 56 1/2".
- Sweep the ties and rail to remove ballast and debris which may interfere with seating of the panels.

## Installation Steps

### STEP #1

Beginning at the end of the crossing, start the shims on the center of the first tie.

### STEP #2

Place the gauge wood shims centered between the rails and nail in place with the 7" x 5/16" nails provided.

### STEP #3

Place the field shims even with the end of the tie and nail in place with the 7" x 5/16" nails provided.

### STEP #4

Place the first rubber gauge panel at the center of the crossing with one flangeway under the ball of one rail. Using track bars, pry up the center of the panel, while forcing the opposite flangeway under the ball of the opposite rail.

### STEP #5

Using a 5/8" auger bit, pre-drill holes through the shims only. Blow out debris from the drilled holes.

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## STEP #6

Using a OMNI installation socket, drive the timber screws so that the screw head is tight against the bottom of the counterbore holes. A slight deflection in the OMNI panel will indicate that the timber screw is fastened tight enough. Do not over or under tighten the screws.

## STEP #7

Place a rubber plug over each screw head and drive it flush with the panel surface with a sledge hammer.

## STEP #8

As the remaining panels are installed, make sure that the tread pattern is running in the same direction. Be certain all panels are squeezed tightly together when drilling and fastening, to obtain a tight seal between the panels.

## STEP #9

Next, install the field panels beginning at the center of the crossing. Keep the panels pressed tightly against the rail while pre-drilling lag-holes and installing the timber screws.

## STEP #10

Install end deflectors if ordered.