

# RailGuard™ VRA 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 must be placed center to center as follows:

<i>Panel Length</i>	<i>Timber Tie</i>	<i>Concrete Tie</i>
9-foot	18" C-C	18" C-C

- Rails should be welded. Grind welds smooth to avoid interfering with the panels.
- Sweep the ties and rail to remove ballast and debris which may interfere with seating of the panels.

## Installation Steps

### STEP #1

Begin the installation at the center of the crossing. Start by placing 2-3 lengths of gauge and field panels along the rails. Add additional panels as needed.

### STEP #2

For timber ties, set spikes 3/4" back from RailGuard™ panels and drive them into the ties until each spike head is 3" + above the tie. Do not drive the spike against the RailGuard™ panel yet.

### STEP #3

Use a track jack or lining bar to squeeze against the end of the third RailGuard™ panel until the end of the panel is centered on the tie. Hold the pressure, and while forcing the RailGuard™ panels tight against the rail, drive the spike heads sideways into the rubber panel. For concrete ties, while forcing the RailGuard™ panels tight against the rail, install one spring clip (if ordered) near each end of the panel.

### STEP #4

Repeat the process. Make certain each joint is centered on the tie.

### STEP #5

After all panels are in place, drive metal staples into the ends of the panels to hold the panels tightly together.

### STEP #6

Lay three lifts of asphalt.