

Embedded Concrete-Rubber (ECR) 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 9' or 10' and must be placed center-to-center as follows:

<i>Panel Length</i>	<i>Timber Tie</i>	<i>Concrete Tie</i>
8 foot	19 3/16" c-c	24" c-c
8-foot 1-1/2 inch	19 1/2" c-c	
9-foot	18" c-c	
10-foot	20" c-c	24" c-c

- Rails 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

If ordered, gauge abrasion pads should be centered on the ties, field abrasion pads should be placed even with the outer edge of the ties. For timber ties, fasten the abrasion pads to the ties with the nails provided with the order.

STEP #2

Lubricate the underside of the rubber flangeway and the top of the adjoining rail with soapy water or pipe slick.

STEP #3

Install the first gauge panel, starting at the center of the crossing. Make sure the ends of the panels are centered on ties. Install the gauge panel by tipping the panel enough to place a flangeway beneath the rail head. Slowly lower panel until the opposing flangeway rests on the rail head.

STEP #4

Force the opposing flangeway beneath the rail head with the use of a spike maul or lining bar. Do not hit the concrete panel.

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STEP #5

Install the remaining gauge panels.

STEP #6

Begin installing field panels at the center of the crossing. Place the rubber nose of the panels against the rail. Make sure that the panel ends are centered on ties.

STEP #7

Install the remaining field panels.

STEP #8

For lagged installation, predrill the wood ties with a 1/2" drill bit and install 3/4" timber screws using the OMNI installation socket and air impact wrench. Apply pressure to hold the field panels tight against the rail while drilling and fastening. For welded installation, tack weld the gauge panels with four 3-inch skip welds and the field panels with three 3-inch skip welds.

STEP #9

If ordered, install deflectors. Do not span the gap of the gauge panel frame.