3911 Dayton Street, McHenry IL 60050 | (815) 344-3100 | (815) 344-5086 (fax) | www.omnirail.com

Improved-Concrete Crossing (IC)
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:

Panel Length	*Timber Tie*	*Concrete Tie*
9-foot	18"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

Begin at the center of the crossing and place the rubber RailGuard field and gauge panels against the rail.

STEP #3

Lubricate the rubber RailGuard with soapy water or pipe slick prior to installing concrete panels.

STEP #4

Install the first concrete gauge panel at the center of the crossing. Concrete gauge panels should be centered on the ties and fit tight against the rubber. Continue to lubricate the rubber panels and apply top-down pressure to push the concrete in place. Do not hammer or beat upon the concrete panel.

Improved-Concrete Crossing (IC)
Installation Instructions (page 2)

STEP #5

Install remaining gauge panels.

STEP #6

During placement of concrete panels, it may be necessary to apply pressure to RailGuard panels to keep joints tight and ends on ties. Jack or push panels with boom tip or backhoe.

STEP #7

Follow the same steps to install concrete field panels. Push concrete panels against RailGuard panels for a tight fit against the rail. Make sure panel ends are centered on ties.

STEP #8

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

STEP #9

If ordered, install deflectors.

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