Case Study
Hastings River Flats
Fishing Pier
Hastings, Minnesota

Here is an example of utilizing structural connectors that do not use your typical "nuts and bolts".

Innovative steel girder fix

We used Lindapter girder clamps and its corresponding parts, for a friction connection to support structural steel angle kicker loads at a 50 year old petroleum pumping pier on the Mississippi River in Hastings, MN. The former petroleum pumping pier has been renovated into a public fishing pier near a bike trail and nature area as part of the Hastings River Flats Park expansion project. The kicker loads are generated by high snow melt river debris and ice flows during the Minnesota spring season.

During the design development phase of the project, we noticed some of the existing steel girder beams had been pushed out of plumb from the debris and ice flow loads. To help resist these loads, we specified field welding steel angle kickers to the girders and beams. But because the pier extends over the Mississippi River, and the existing steel members were painted with lead based paints, stripping paint and field welding posed an environmental hazard and higher cost. The best solution for our specific problem was to use Lindapter connectors.