

Bridge Explorer Results for 3D FEM Analysis with Linked Girders

Applies to the following products:

- BrR – 7.8.0

Description

3D FEM analysis from the Bridge Explorer of a superstructure definition containing linked girders does not consider the results from linked girders, even if one of them is a controlling girder. While running a 3D FEM analysis all girders (linked and unlinked) are individually spec checked with their respective actions. The Bridge Rating Results window, however, does not consider the linked girders while determining the controlling rating factors among all the girders. The result shown in the window may be unconservative if one of the linked girders is a controlling girder. The Member Rating Results window also does not show the rating results of any of the linked girders.

Workaround

The controlling rating factors can be captured by:

1. Unlinking the girder
2. Copying the Member Alternative to the unlinked girder (Should be marked as “E”)
3. Updating the Member Loads and the Supports (3D General and 3D Elastic) windows to match the girder it was previously linked to.

Resolution

The issue will be corrected in version 7.9