



Vibration damping in Trestle Bridges

TRACKELAST

Specialist Rail Solutions
the high performance solution provider



Tiflex

VIBRATION DAMPING IN TRESTLE BRIDGES

Tiflex provides a range of highly engineered vibration dampening components that can be selected and incorporated into the bridge structure to provide the optimal dampening system for each bridge type and the various traffic conditions. Optimization means the most effective solution at the lowest possible cost.

Engineered reduction of train induced bridge vibration will result in less bridge component wear, less structural fatigue, and less premature bridge failure. This will result in lower annual maintenance costs and longer bridge life and safer operating conditions.

Identifying and isolating train generated vibration will reduce the transmission of vibration to the bridge structure resulting in longer bridge component life and lower annual maintenance costs.

Solution

Impact forces and vibration can be isolated and reduced by using resilient elements throughout the track and bridge structure. Resilient rail pads, and baseplate pads can be used between the rail and the tie. Tie pads can be inserted between the tie and the bridge deck. It is also possible to take advantage of the resilient properties of Elastomeric structural bearings throughout the bridge structure including at the base of the piles.

Key Features

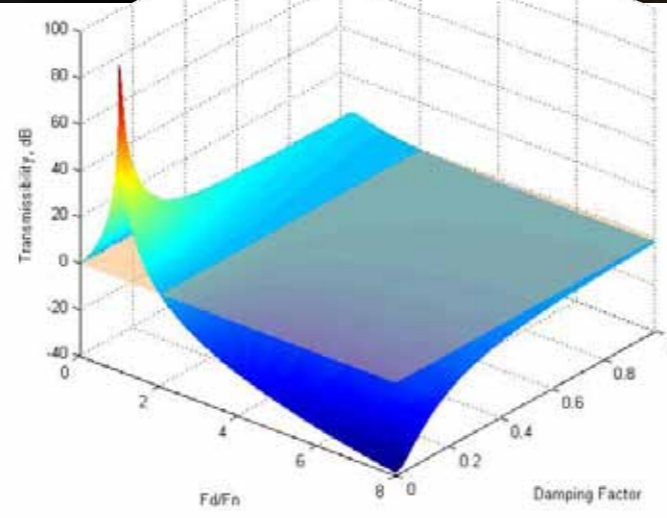
- Continuous elastic rail support
- Minimised Life-Cycle Costs
- Virtually no maintenance
- Maximum protection for bridge
- Easy to install


Test certificates, data sheets and approvals are available upon request, send your enquiry to trackelast@tiflex.co.uk



The Problem

Trestle bridges require constant repair or replacement. Ties used in trestles are more susceptible to wear and deterioration under these heavier loads than ties in regular track. The track is directly fastened to the bridge making it a rigid structure. Impact forces and vibration pass through the structure causing degradation and wear.



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- o Cost effective, high-integrity elastomer engineering
 - o High performance vibration attenuation
 - o Standard and custom-designed products
 - o Researched, developed, tested and proven
 - o Backed by surety of global supply

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