

### **Influence of Impact Load at Rail Joint on Fatigue of Steel Deck Girder**

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In order to identify the vibration mode excited by the impact load at the rail joint, a running test was conducted at the deck girder. The purpose of the test also includes the clarification of the effect of vibration mode on the stress properties of the upper and lower ends of the vertical stiffener. As a result, we find that the impact load at the rail joint generates the bending vibration of the main girder and out-of-plane vibration of the web or flange panel. The rail joint type and the step at the joint affect the stress at the stiffener.