



**InnoTrans 2018**  
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**INNOVATIONS  
AND TRENDS**

## Hybrid Polymer Sleepers for city and industry



KLP® Hybrid Polymer Sleepers, City of Amsterdam



KLP® Hybrid Polymer Sleepers for Corus-Tata Steel IJmuiden

KLP® Hybrid Polymer Sleepers offer beneficial damping properties as well as optimum stiffness that mean improvements in track during its long expected lifetime of 50 years. The German Federal Railway Authority (EBA) has already approved the use of different types for operational testing. All specially engineered for their own application, and are also attractive for use in the city or industry. Additional advantages over conventional concrete and wooden sleepers are noise & vibration reduction, low lifecycle costs and weight reduction. They have high chemical resistance to moisture, acids and salts, compensate for the reduction in elasticity of the ballast in case of ballast contamination, will not break in case of derailment and have high lateral resistance making them ideal for sharp curves. In addition, the use of KLP® Hybrid Polymer Sleepers will result in a lower maintenance frequency.

### **Lankhorst Engineered Products**

**Netherlands - Sneek**

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Subject to further change