

Double coiled spring washers for railway applications

Deutsche Bahn has recently approved the Delta-Protekt® KL100 coating on Growermetal's patented double coiled spring washers, produced according to UIC 864-3.

Made possible by the cooperation between Growermetal Srl and Dörken®, these washers are widely used for railway applications – to fix the rail to the railroad ties. The partial serrations on the bearing surfaces of the washer prevent the loosening of the bolt and the risk of breakage.

Railway washers are frequently exposed to challenging weather conditions and it's for this reason washers are coated with the high performing Dörken coating system Delta-Protekt® KL100. This coating is able to reach outstanding anticorrosion performances with over 720 hours in neutral salt spray testing, according to ISO 9227, without adhesion issues during operational stress or a reduction in anti-loosening performance. +



Springs at the centre of safety

European Springs & Pressings Ltd, part of Lesjöfors AB, has delivered springs – with critical functions – to one of the world's leading suppliers of applications for stabilising buildings in earthquake areas in the south-west of England.

Vexcolt Ltd, one of the world's leading producers of expansion joints and movement control joints, designs and manufactures joint systems that enable buildings to absorb up to 1 metre of movement, when an earthquake strikes. These buildings cover every continent across the globe, including iconic buildings such as Jeddah airport in Saudi Arabia, Jewel Changi airport in Singapore, as well as the UK's O₂ arena.

"The UK is often misrepresented for its manufacturing capabilities, let alone Devon and Cornwall. However, here we are with two SMEs working together, making a product that significantly contributes to the safety of infrastructures around the world. We have technical sales offices in the UK, Europe, India, China, and south-east Asia, but we manufacture in south-west England," commented Arun Kingwell, technical specialist at Vexcolt.

He continued: "It's great to work with European Springs & Pressings as it enables us to not only deliver a high-end quality message but also a 'Made in Britain' status that we're very proud of."

Michael Gibbs, managing director of European Springs & Pressings, concludes: "It always surprises people how much a spring is depended on for multiple functionalities across so many diverse industries. Vexcolt's global influence in construction management, delivering solutions to complex building movement problems across all building types, is an



engineering feat to behold. It's an honour working with them and it puts a huge smile on the team's faces, knowing their spring production is at the centre of safety for so many buildings across the world." +

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