The Codiuun Rail Clamp

Description
Conventional Railway Clamping Systems face many challenges which the Codiuun Rail Clamp addresses. The clamp design is radically different to the legacy design and guarantees a positive pre-torque angle so that the tighter the bolt is the better the bolt holes are aligned thus eliminating the risk of bent bolts. In tests it has been shown that bolts remain straight even at twice the recommended torque.

To reduce the friction between the clamp and the rail foot the contact points are moved further apart. This reduces the force on the rail and the stress within the edge of the rail foot. The key features of the Codiuun clamp are:

- Reduced friction through wider contact points
- Reduced rail stress through wider contact points
- Positive pre-torque angle to eliminate bolt bending

Codiuun Innovation on the Move....
Codiu Rail Clamp

Material Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>BS EN 10210-2:5355</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model type</td>
<td>Linear Elastic Isotropic</td>
</tr>
<tr>
<td>Default failure</td>
<td>Unknown</td>
</tr>
<tr>
<td>Yield strength</td>
<td>355 N/mm²</td>
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<tr>
<td>Tensile strength</td>
<td>410 N/mm²</td>
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<tr>
<td>Compressive strength</td>
<td>410 N/mm²</td>
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<tr>
<td>Elastic modulus</td>
<td>210000 N/mm²²</td>
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<tr>
<td>Poisson’s ratio</td>
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<tr>
<td>Mass density</td>
<td>7800 g/cm³</td>
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<tr>
<td>Shear modulus</td>
<td>7800 N/mm²</td>
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<tr>
<td>Thermal expansion</td>
<td>1.2 x 10⁻⁶ /K Kelvin</td>
</tr>
</tbody>
</table>

Fish Plate Compatibility

Codiu Rail Clamps are used to clamp standard fish plates to rails and a wide variety of rail and fish plate combinations are suitable for fixing by the rail clamp. These include but are not limited to:

Technical Specification

- Clamp Thickness: 60mm
- Shipping Weight: 10.4 kg
- Shipping Dimensions: 312 x 153 x 60mm
- Bolt (std): 1” V-Grade Square
- Bolt Head (std): 1.5” Square
- Bolt (optional): M27 Grade 10.9
- Bolt Head (optional): 32 mm Hexagonal

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