



# WHY DUBUIS' RAIL BOND ?

CONNEXION AU RAIL/RAIL CONNECTION



Plaque prête à souder  
équipée de 3 inserts courts  
3 short rail bonds on plate ready to be welded

Thanks to its setting in blind access, all operations (drilling, setting, locking) are carried out to the same side of the rail. The connection is possible in almost every case: blind hole, double connection, side rail, expansion device...

High and permanent mechanical stresses onto electrical contact areas allow setting up of rail bond whatever the **climatic conditions**. In this same principle, we have developed a rail bond, for Off-shore application, which is set up at 500m bellow sea level by remotely-operated vehicules.

The traction effort during the setting leads to radial expanding of the ring and then **perfect contact between dowel/bush and rail**. This contact remains permanent thanks to wedging of tapers and contributes in this way to the connection reliability over time.

As parts are **pre-assembled** in factory, it is impossible to transpose or omit them during setting, and so secures the correct setting.

Easy installation, and thus easily **automatable**, allows equipment in workshop of point crossing type glued insulated block joints, expansion joints, switches...

Fixing function of rail bond: threaded dowel and nut are entirely **in stainless-steel**, with an anti-seizing protection on the nut. It remains possible to disassemble the connection over time.

The electrical function is guaranted by a **tin-plated copper bush**, which malleability and conductivity permit an optimum electrical connection between lug and rail.

Installation is possible **without interrupting traffic**, using the different types of rail bonds setting tools.

During rail bond setting, **no impacts** on the rail nor on the rail bond are given.

Thanks to the rail bond advantages, Dubuis has provided solutions for the reliability of connections, so that the regularity of traffic on all rail networks equipped with this concept is considerably improved.



Appareil de dilatation  
Expansion device