

Balise Mounts for ETCS / ERTMS Project

As the progress toward the interoperability of the signalling systems across Europe gathers pace so has the development of new mounting arms suitable for each network operators' different sleeper and fastening combinations.



In addition to the different requirements of each railway network the UNISIG regulations themselves include criteria that directly affect the design of the mounting beam. The Vortok system ensures full compliance with these regulations.

Minimum clearances from the top of the rail.

- Rail wear allowances.
- Maximum surface area of metalwork required to mount the Balise.
- Free metal area requirement
- Vibration resistant, even upon the highest speed lines.
- TPWS Mounts with Aerial Panel



UK e-clip variant with Siemens Balise

Since 2001 over 120,000 of the original mounts have been put in track in the UK, Ireland and Australia with a zero failure rate to date.

Subsequent to the TPWS project both Siemens and Alstom Balise have been fitted in the UK. These units were for both signal control upon the new high speed line between London and the Channel tunnel and for the control of tilting trains.



Pictured is a beam developed for Siemens, (C25236-A40-D32), having passed all the laboratory and field testing this beam is suitable for all high speed lines using Pandrol e-clip variants with anti-vandal shoulders

Vortok have a Balise mount to suit any sleeper and fixation combination and all Balise types can be mounted upon the arm.

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