



The **Asset International BaFix** is used and approved by **Network Rail (PA05/06325)**. Authorised for use by 'LU' (Reg No. 3082) and is currently being used at trial sites by Irish Rail. It provides an innovative track ballast shoulder retention system for the rail industry. The key benefit to installing the system is in retaining the loss of ballast over time, whilst creating a long term stable border for the ballast.

Ballast prevention saves money, eliminates damage to cable troughs or ducts, maintains acceptable levels of safety and line speed.

In addition, the **Asset BaFix** offers future improvements such as raising the track level if required. It can also be used in the National Electrification programme **OLE** in conjunction with retaining ballast around cantilever masts.

The Asset BaFix has a design life of up to 120 years taking into account whole life costs. Some of the key benefits of the systems may include: savings in reducing loss of ballast, labour costs savings and in supporting the ballast shoulder whilst maintaining track speed used on a national basis.

The advantages of the Asset BaFix Ballast Retention System

Authorised for use by
London Underground
Reg No: 3082

NetworkRail
PA05/06325

FULLY USED AND APPROVED BY NETWORK RAIL AND TRANSPORT FOR LONDON

TRIAL SITES WITH IRISH RAIL

LIGHT WEIGHT BALLAST RETENTION UNITS IN 6M LENGTHS

REDUCED WHOLE LIFE COSTS

CREATES A STABLE LEVEL ADJACENT TO THE TRACK

QUICK AND EASY REDUCING INSTALLATION TIME WHILST BACKFILLING COMPARED TO GABION BASKETS

CAN BE FILLED USING AUTOMATIC CONVEYOR SYSTEMS

ALLOW CABLE TROUGH OR DUCTS TO BE INSTALLED AND MAINTAINED WITHIN THE SYSTEM

PALISADE FENCING POST OR KEY CLAMP SYSTEM ANCHORED WITHIN THE SUPPORTED BaFix STRUCTURES



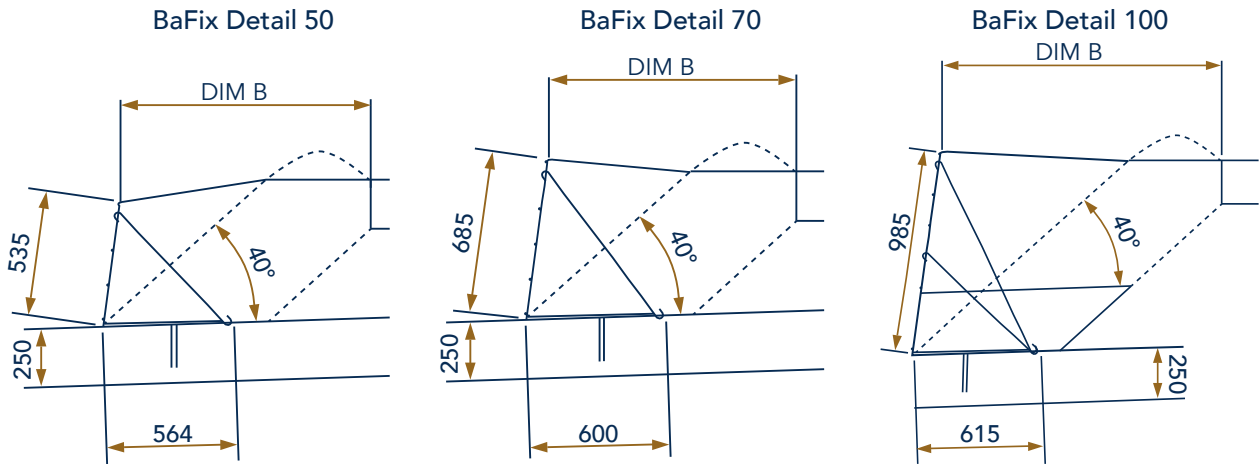
**DESIGNED
FOR UP TO
120 YEARS
DESIGN LIFE**

Securing the Ballast

Installing **Asset BaFix** provides a robust solution to long-term railway maintenance issues. The product is available in three heights including **500mm, 700mm or 1000mm**. The front panel is made of high quality aluminium - zinc alloy coated mesh formed with an inclination of **80°**.

Asset BaFix Rail Track Ballast Shoulder Details

Please note that all dimensions are quoted in mm



The **Asset BaFix** has been placed outside the load transfer zone from underside of sleeper taking into account the stakeholders comments.

The front face of the **Asset BaFix** mesh retains fill outside the minimum shoulder width and does not compromise the track design.

The system creates a stable level permanent way for operatives to work within. In the event of an evacuation of a train the level permanent way could add additional safety.

Why use Asset BaFix?

The **Asset BaFix** system could reduce the levels of maintenance caused by the loss of the ballast shoulder overtime. It may assist in the following situations by reducing:

- **Lateral stability caused by ballast tamping**
- **Loss of ballast during flooding or on soft ground issues**
- **Loss of ballast at the intersection of the rail overbridge with a road underbridge**



The installation of the **Asset BaFix ballast retention system** must adhere to the minimum dimensions contained with the product technical drawings.

Please contact Asset for further information.

The performance benefits of using a light weight containment unit in 6m lengths is that it is more economical, it maintains a long design life it's fast installation method is a benefit against most conventional rail retaining methods.



asset INTERNATIONAL STRUCTURES

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