ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L21321 - BASEPLATE

Learning Legacy Document

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7.0	25-Apr-2017	[redacted]	[redacted]	[redacted]	LRS Codes Updated

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1 Introduction

1.1 Asset Details

Class Code:	L21321
Class Name:	Baseplate
Class Lineage:	Construction Products>Complete construction entities and components>Civil engineering works products>Railway products>Rail Support>Baseplate

1.2 Description

The baseplate connects the rail to the track bed or sleeper. A baseplate is fixed to the track bed or sleeper using a fixing mechanism (e.g. bolts) and provides a seat in which the rail will sit. The baseplate also provides the housings for the chosen rail fastening (e.g. fast clips) and the rail pad. The rail fastenings secure the rail to the baseplate applying a specified load and the rail pads provide a damping mechanism reducing the impact loads between the rail the baseplate and the track bed.

1.3 Related Functions

All information on the configuration of asset classes (L-Class) to functions is contained within the latest revision of the Asset Data Dictionary Master Configuration document (eB ref: CRL1-XRL-Z3-ADDSD-CR001-50186)

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2 Asset Tag Identification Rules

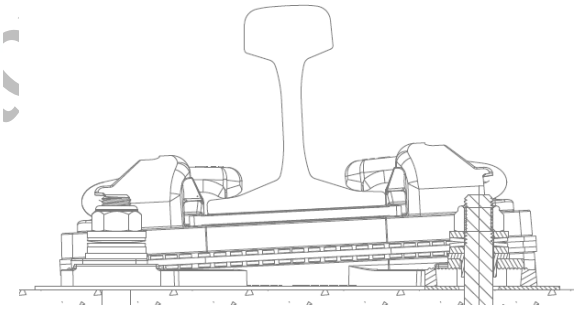
Assets will be identified as required by the Asset Identification Standard (CRL1-XRL-O6-STD-CR001-00031) in the following format:

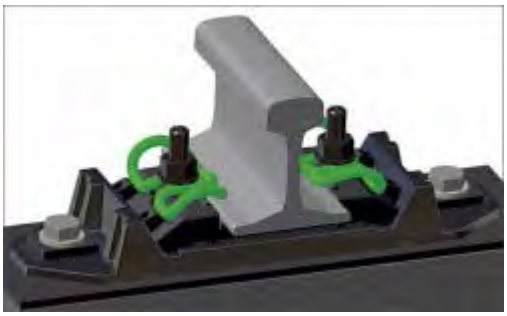
<LCS Code>-<Function Code>-<Incremental number to ensure uniqueness>

e.g. CR076-BAF-12345

Information and guidance on the standard naming convention for all asset classes is contained within the latest revision of the Asset Naming Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

2.1 Example Images





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3 Attributes

3.1 Generic Attributes

All Classes of assets will have a set of Generic Attributes for which data is collected without exception. Full details relating to these assets can be found at:

AD4 – Generic Attributes CRL1-XRL-Z3-ADDSD-CR001-50069

3.2 Class Specific Attributes

Below is a table of the further specific attributes which are associated with this asset class.

Attribute Name	**Base Unit or Formula**	**Value Type** (See Below)	**Decimal Places** (nu Only)	**Defined Values List** (pd only)	**Description**
Baseplate Type		CH			The type of baseplate
Clip Toe Load (Kilograms/Metre)	Kilograms/Metre	NU	2		The maximum clip loading
Clip Type		PD		Pandrol Heyback PVT Schwihag Unknown	Description of the clip type
Dynamic Stiffness (Kilonewtons/Millimetre)	Kilonewtons/Millimetre	NU	2		The elasticity of the baseplate
Fixing Bolt Diameter (Millimetres)	Millimetres	NU	2		Diameter of fixing bolt between baseplate and track support
Fixing Bolt Material		PD		Steel Brass	Material of fixing bolt between baseplate and track support

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
Fixing Bolt Shear Strength (Mega Pascals)	Mega Pascals	NU	2		Shear Strength of fixing bolt between baseplate and track support
Fixing Bolt Tensile Strength (Mega Pascals)	Mega Pascals	NU	2		Tensile Strength of fixing bolt between baseplate and track support
From Meterage (Metres)	Metres	NU	2		The location of the start of the asset based on overall meterage. (For points asset this will be the same as the “To” Meterage)
Pad Material		CH			What material is the pad made of
Pad Thickness (Millimetres)	Millimetres	NU	0		What is the pad thickness
Pad Type		CH			Description of the pad type
Rail Side		PD		L/H R/H	The side of rail the baseplate is locate based on the normal direction of traffic, e.g. left hand rail or right hand rail
Baseplate Spacing (Metres)	Metres	NU	2		Spacing Between Baseplates
To Meterage (Metres)	Metres	NU	2		The location of the end of the asset based on overall meterage (For points asset this will be the same as the “From” Meterage)

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
LRS Code		PD		C.EB C.EB.CRW5 C.EB.CR1 C.EB.CR7 C.EB.TBC C.WB C.WB.CRW9 C.WB.CRW6 C.WB.CR2 C.WB.CR5 C.WB.TBA C.WB.TBB CNE.EB CNE.WB CSE.EB CSE.EB.CR11 CSE.WB CSE.EB.CR13 CSE.WB.CR15 Non Track	The Crossrail Linear Referencing Standard code (CRL1-XRL-O6-STD-CR001-00026) where the asset is located. When the asset is not located on track then non track should be selected. The LRS codes are as follows: C.EB - Central Section Eastbound C.EB.CRW5 - Crossover between W5 and W4 Points C.EB.CR1 - Crossover between C1 and C4 Points C.EB.CR7 - Crossover between C7 and C8 Points C.EB.TBC - Turnback C C.WB - Central Section Westbound C.WB.CRW9 - Crossover between W9 and W8 Points C.WB.CRW6 - Crossover between W6 and W3 Points C.WB.CR2 - Crossover between C2 and C3 Points C.WB.CR5 - Crossover between C5 and C6 Points C.WB.TBA - Turnback A C.WB.TBB - Turnback B CNE.EB - Central Section North East Spur Eastbound CNE.WB - Central Section North East Spur Westbound CSE.EB - Central Section South East Spur Eastbound CSE.EB.CR11 - Crossover between C11 and C12 Points CSE.WB - Central Section South East Spur Westbound CSE.EB.CR13 - Crossover between C13 and C14 Points CSE.WB.CR15 - Crossover between C15 and C16 Points Non Track - Non Track Assets

pd = Predefined List (Listed Values Only)
nu = Numeric (dp and number format can be stipulated)
ch = Free text (Max 255 Characters)
da = Date (dd-mm-yyyy)
me = Memo (Free text 1GB Limit)

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4 Performance Data

This section is to be used to specify the performance data gathered from this Class of asset when in operation. This section will be populated once performance measures have been agreed with Infrastructure Managers.

5 Labelling

Information and guidance on the standard labelling convention for all asset classes is contained within the latest revision of the Asset Naming and Labelling Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

6 Other Information

Not Applicable

7 Reference Material

- Asset Data Dictionary Master Configuration - CRL1-XRL-Z3-ADDSD-CR001-50186
- Asset Identification Standard - CRL1-XRL-O6-STD-CR001-00031
- AD4 – Generic Attributes - CRL1-XRL-Z3-ADDSD-CR001-50069
- Asset Naming Convention Document - CRL1-XR1-Z3-ADDSD-CR001-50413

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8 Crossrail Technical Approvals

Name	Role	Date
Mark Maher	Track	19-Sep-2014

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