ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L21333 - CHECK RAIL

Learning Legacy Document

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1 Introduction

1.1 Asset Details

Class Code:	L21333
Class Name:	Check Rail
Class Lineage:	Construction Products>Complete construction entities and components> Civil engineering works products>Railway products>Rails>Check Rail

1.2 Description

The check rail is an addition rail that is mounted parallel to the inside rail of a curve. Its purpose is to guide the flange of the inside wheel around the curve, stopping the outside wheel from potentially climbing the outside rail and derailing the vehicle.

The check rail is typically mounted on the sleeper with additional blocks between the check rail and the running rail to manage the width of the gap between the two rails.

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		PD		Bolted Clamped	Description of the type of base plate. There are differing types of check rail baseplates which have different fastening and adjustment mechanisms
Check Rail Support Type		PD		Rail mounted Sleeper mounted	Type of check rail support, e.g. rail mounted or sleeper mounted etc.
Check Rail Type		PD		UIC33	Description of the type of check rail
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
Fixing Bolt Shear Strength (Mega Pascals)	Mega Pascals	NU	2		Shear Strength 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 Tensile Strength (Mega Pascals)	Mega Pascals	NU	2		Tensile Strength of fixing bolt between baseplate and track support
Flangeway End Gap (Millimetres)	Millimetres	NU	0		At the ends of the check rail it may be flared, this is to capture the maximum gap at the end of the flare.
Flangeway Gap (Millimetres)	Millimetres	NU	0		Gap between the check rail and the rail
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)
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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