ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L21365 - FLOATING TRACK SLAB (SPRUNG)

Learning Legacy Document

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2.0	03-Jun-2014	[redacted]	[redacted]	[redacted]	Corrected Attribute Names Asset Tag Identification Section Updated
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9.0	25-Apr-2017	[redacted]	[redacted]	[redacted]	LRS Codes Updated

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1 Introduction

1.1 Asset Details

Class Code:	L21365
Class Name:	Floating Track Slab (Sprung)
Class Lineage:	Construction Products>Complete construction entities and components>Civil engineering works products>Railway products>Track Bed>Floating Track Slab (Sprung)

1.2 Description

Floating track slab (Sprung) is a 2nd stage concrete slab that supports the track through the use of direct fastening systems (baseplates) rather than embedded sleepers The floating track slab (Sprung) sits on springs on top of the 1st Stage tunnel slab. The springs allow for greater absorption of the impact loads created by passing rail vehicles reducing the noise and vibration transmitted to the surrounding environment. The Floating Track Slab (Sprung) also facilitates drainage and contains catch pits to allow water to flow down into the 1st Stage drainage system

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

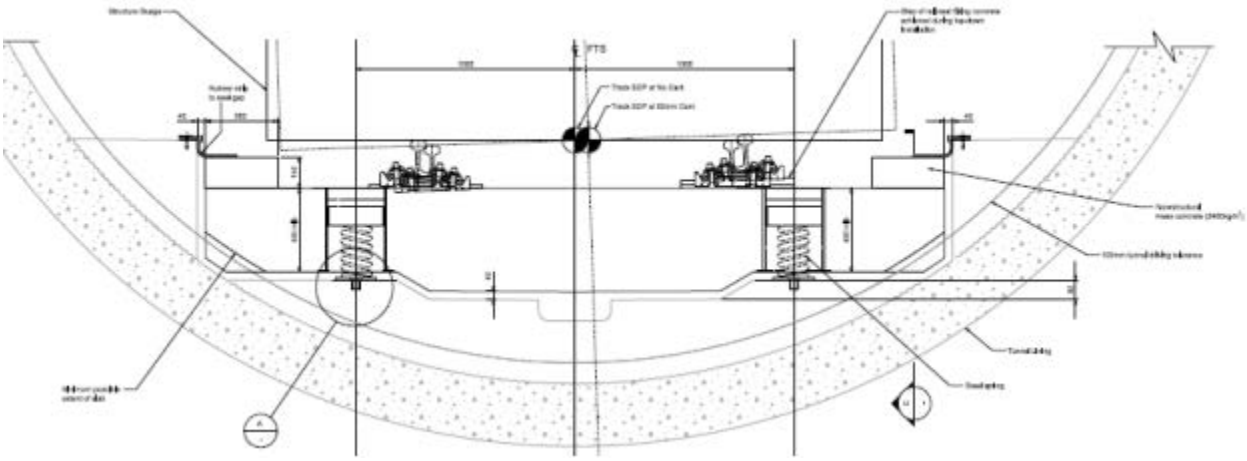
Assets will be identified as required by the Asset Identification Standard (CRL1-XRL-O6-STD-CR001-00031) in the following format:

<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
Compressive Strength (MPa)	MPa	NU	2		The designed strength of the concrete used to form the slab
Drainage Gulley Location		PD		Four Foot Single Cess Both Cess Six Foot	Location of the drainage gulley
From Meterage (Metres)	Metres	NU	2		The location of the start of the asset based on overall meterage
FTSS Spring Frequency (Number/Metre)	Number/Metre	NU	0		Number of springs per meter
FTSS Spring Diameter (Millimetres)	Millimetres	NU	0		Diameter of spring
FTSS Spring Height (Millimetres)	Millimetres	NU	0		The height of the springs under normal loading
FTSS Spring Material		PD		Polymer Steel	The Spring type based on the material

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
FTSS Spring Poissons Ratio (v)	v	NU	2		The elasticity of the springs
Length (Metres)	Metres	NU	2		The length of the slab as measured along the track/tunnel
Number of Catch Pits (#)	#	NU	0		The number of catch pits in this section of Slab
Number of Sleepers/Baseplates (#)	#	NU	0		The number of sleepers or if there are no sleepers then baseplates in this section of Slab
Sealing Strip Material		CH			A description of the material used in the sealing strip that keeps dirt ingress into the bearings
Sleeper/Baseplate Spacing (Metres)	Metres	NU	2		The spacing between sleepers or if there are no sleepers then baseplates
Thickness (Millimetres)	Millimetres	NU	0		Nominal thickness of slab
To Meterage (Metres)	Metres	NU	2		The location of the start of the asset based on overall meterage
Track Slab Reinforcement Type		PD		Steel Glass Fibre Stranded	Material used to reinforce the slab
Transition Zone Length (Metres)	Metres	NU	2		Length of the transition zone between at each end of the track bed

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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
Width (Metres)	Metres	NU	2		The width of the slab at 90 degrees to the length.
Bearing Compressive Strength (MPa)	MPa	NU	2		The designed strength of the bearing
FTS Vertical Bearing Type		CH			A description of the type of pad that is installed between the base of the FTS and the second stage concrete
FTS Vertical Bearing Thickness (Millimetres)	Millimetres	NU	0		Thickness of pad

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Attribute Name	**Base Unit or Formula**	**Value Type** (See Below)	**Decimal Places** (nu Only)	**Defined Values List** (pd only)	**Description**
FTS Vertical Bearing Frequency (Number/Metre)	Number/Metre	NU	0		The number of pads installed per metre length
FTS Horizontal Bearing Type		CH			A description of the type of pad that is installed between the side of the FTS and the second stage concrete
FTS Horizontal Bearing Thickness (Millimetres)	Millimetres	NU	0		Thickness of pad
FTS Horizontal Bearing Frequency (Number/Metre)	Number/Metre	NU	0		Number of pads per metre

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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