ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L151 – SHEET PILES

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1 Introduction

1.1 Asset Details

Class Code:	L151
Class Name:	Sheet Piles
Class Lineage:	Construction Products>Ground treatment and retention>Land/Water retention>Sheet Piles

1.2 Description

Sheet pile retaining walls are usually used to retain earthworks where space precludes the formation of a sloped embankment. Sheet pile walls are made out of steel sections which are driven into the ground. The length of steel pile driven into the ground is usually of the order of twice the exposed length of pile supporting the earthworks: the exact proportions need to be confirmed by a competent engineer. Taller sheet pile walls will need a tie-back anchor, or "dead-man" placed in the soil a distance behind the face of the wall, that is tied to the wall, usually by a rod.

Sheet pile walls are constructed of a number of interlocked or overlapped sheet piles. Each individual pile does not constitute an individual asset. The Asset will constitute a continuous run of individual piles. The asset would be deemed to have finished at the last sheet pile or where the wall meets a corner (with another wall).

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
Depth (Metres)	Metres	NU	2		The depth below ground level (where Depth varies use average depth)
Height (Metres)	Metres	NU	2		The total vertical height of the sheet pile asset (where height varies use average height)
Length (Metres)	Metres	NU	2		The total horizontal length of the sheet piling asset
Structurally Critical		PD		Yes No	The component is integral to the overall asset's structural integrity

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 to be gathered from this Class of asset when in operation. To be populated once the performance measures have been agreed with the 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
[redacted]	Head of Civil Structures	19-Sep-2014

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