

# **NS**5

## **The National BIM Library**

BIM Object Guide: Walkable/Drivable Roof Decks



Version 1.0

6<sup>th</sup> November 2013

**The National BIM Library**BIM Object Guide: Delta Membranes



## www.nationalBIMlibrary.com

#### **Contents**

1.0 Introduction	3
1.1 Naming	4
2.0 Parameters	5
2.1 National BIM Library Parameters	5
2.2 NBS Parameters	6
2.3 Manufacturers Parameters	6
2.4 IFC Parameters	7
2.5 COBie Parameters	9
3.0 Abbreviations	11

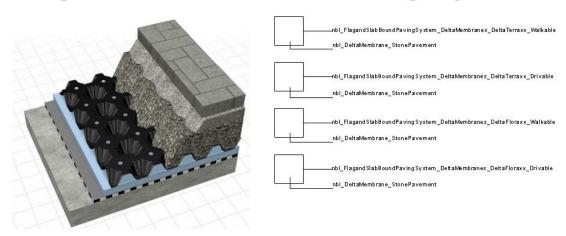


#### 1.0 Introduction

This guide covers the use of Walkable/Drivable Roof Decks included within the National BIM Library.

Walkable/Drivable Roof Decks

## Flag and Slab Bound Paving Systems



All systems listed below are included in the following file:

nbl\_FlgSlBndPvgSym\_DeltaMembranes

nbl\_FlagandSlabBoundPavingSystem\_DeltaMembranes\_DeltaTerraxx\_Walkable nbl\_FlagandSlabBoundPavingSystem\_DeltaMembranes\_DeltaTerraxx\_Drivable nbl\_FlagandSlabBoundPavingSystem\_DeltaMembranes\_DeltaFloraxx\_Walkable nbl\_FlagandSlabBoundPavingSystem\_DeltaMembranes\_DeltaFloraxx\_Drivable

BIM Object Guide: Delta Membranes



#### 1.1 Naming

National BIM Library objects are named to identify their type and configuration. Fields are segregated using an under bar (\_) and information within each field is segregated using hyphens (-). Fields are abbreviated to reduce characters and capitals used at the start of each abbreviation to aid readability.

File name and objects are named as below:

#### File name

Field1 Author\_Field2 Category\_Field3 Manufacturer\_Field4 Product Range

#### **Object**

Field1 Author\_ Field2 Category Field3 Manufacturer\_Field4 Product\_Field5 Differentiator

BIM Object Guide: Delta Membranes



#### 2.0 Parameters

Parameters included in the Private packaged pumping stations BIM object are as follows:

#### 2.1 National BIM Library Parameters

**Author** The name of the BIM object's author.

BIMObjectName Name of the BIM object as it will appear in software. Using

NBL naming procedure.

**Description** The full description of a product or system.

**Help** URL of a website where additional help notes are available.

**IssueDate** The issue date of this BIM object.

ManufacturerURL URL of the product or system manufacturer.

**NBSDescription** NBS Uniclass title.

**NBSNote** Where a second system which is related to the BIM object can

be described.

NBS Uniclass section/clause number.

**NBSTypeID** A reference to the object for the user if one or more is used

within the project.

Uniclass2 code.

**Version** The version number of the BIM object.

BIM Object Guide: Delta Membranes



#### 2.2 NBS Parameters

**AppliedSurfaceFeatures** List of features which can be applied to the surface

finish.

**BaseCourse** Material used for the base course.

**GeotextileBelowGranularSub-base** Material used for the geotextile layer.

**GranularSub-base** Material used for the sub-base course.

**Jointing** Type of joints used in system.

**LayingCourse** Material used for the laying course.

**MovementJoints** Type of movement joints used in system.

**PavingUnit** Material of the Paving unit used.

**PreparationProducts** Preparation required for the system.

**SubgradeImprovement** Improvements which can be applied to the sub-

grade

#### 2.3 Manufacturers Parameters

**GeotextileSubBaseThickness** Thickness of sub base geotextile. Measured in [mm].

**Insulation** Type of insulation used stated here.

**InsulationThickness** Thickness of insulation. Measured in [mm].

**LayingCourseThickness** Thickness of laying course. Measured in [mm].

**MoistureManagement** Type of moisture management used stated here.

in [mm].

**PavingUnitThickness** Thickness of Paving unit. Measured in [mm].

**Sub-base** Type of sub-base used stated here.

**Sub-baseThickness** Thickness of sub-base. Measured in [mm].

**Substrate** Type of substrate used stated here.

**SubstrateThickness** Thickness of substrate. Measured in [mm].

**Waterproofing** Type of waterproofing used stated here.

**WaterproofingThickness** Thickness of waterproofing. Measured in [mm].



#### 2.4 IFC Parameters

Note: IFC definitions have been obtained from BuildingSmart IFC2x3 website (http://buildingsmart-tech.org).

**Acoustic Rating** Acoustic rating for this object. It is provided according to the

national building code. It indicates the sound transmission resistance of this object by an index ratio (instead of providing

full sound absorption values).

**Combustible** Indication whether the object is made from combustible

material (TRUE) or not (FALSE).

**Fire Rating** Fire rating for this object. It is given according to the national

fire safety classification.

**Finish** Finish selection for this object. Here specification of the

surface finish for informational purposes.

FlammabilityRating Flammability Rating for this object. It is given according to the

national building code that governs the rating of flammability

for materials.

**FragilityRating** Indication on the fragility of the covering (e.g., under fire

conditions). It is given according to the national building code

that might provide a classification for fragility.

**Indication** Indication whether the element is designed for use in the

exterior (TRUE) or not (FALSE). If (TRUE) it is an external

element and faces the outside of the building.

**LoadBearing** Indicates whether the object is intended to carry loads (TRUE)

or not (FALSE).

**Material** Main material of the covering.

**Reference** Reference ID for this specified type in this project (e.g. type A-

1), provided, if there is no classification reference to a

recognized classification system used.

PitchAngle Angle of the slab to the horizontal when used as a component

for the roof (specified as 0 degrees or not asserted for cases where the slab is not used as a roof component). The shape information is provided in addition to the shape representation and the geometric parameters used within. In cases of inconsistency between the geometric parameters and the shape properties, provided in the attached property, the geometric parameters take precedence. For geometry editing

applications, like CAD: this value should be write-only.

BIM Object Guide: Delta Membranes



**SurfaceSpreadofFlame** Indication on how the flames spread around the surface, It is

given according to the national building code that governs the

fire behaviour for materials.

**ThermalTransmittance** Thermal transmittance coefficient (U-Value) of a material.

Here the total thermal transmittance coefficient through the

roof surface (including all materials).

BIM Object Guide: Delta Membranes



#### 2.5 COBie Parameters

The following COBie parameters have been included within the Walkable/Drivable Roof Decks BIM object and can be used to prepare COBie data schedules:

**AccessibilityPerformance** Accessibility issue(s) which the product satisfies.

**AssetIdentifier** The asset identifier assigned to an occurrence of a product

(prior to handover).

BarCode The identity of the bar code (or rfid) given to an occurrence of

the product.

**Code Performance** Code Compliance requirement(s) which the product satisfies.

**Colour** Characteristic or primary colour of product.

**Constituents** Optional constituent features, parts or finishes.

**Cost** Cost impact of replacement process.

**Documentation** Location (Uniform Resource Information) for further product

information.

**DocumentReference** Location (Uniform Resource Information) for the source or

updates to this product information.

**Features** Features or other important characteristics relevant to product

specification.

**Grade** Standard grading(s) to which the product corresponds.

**InstallationDate** The date that the manufactured item was installed.

**Life Cycle Phase** Life Cycle Phase as defined in ISO 15978.

**Manufacturer** The organization that manufactured or assembled the item.

**MethodOfMeasurement** Method of measurement.

**ModelLabel** The model number assigned by manufacturer.

**ModelReference** The name used by the manufacturer.

Nominal Height Nominal height of product, typically the vertical or secondary

characteristic dimension.

BIM Object Guide: Delta Membranes



**Nominal Length** Nominal length of product, typically the larger or primary

horizontal dimension.

**NominalWidth** Nominal width of product, typically the characteristic or

secondary horizontal or characteristic dimension.

**Process** Specification of process.

**ProductionYear** The year of production for the manufactured item.

**ReferenceStandard** Reference standard(s) to which the product is compliant.

**ReplacementCost** An indicative cost for unit replacement.

**SerialNumber** The serial number assigned to an occurrence of a product by

the manufacturer.

**ServiceLifeDuration** The length or duration of a service life.

**ServiceLifeType** The typical service life that is quoted for an artefact under

reference operating conditions.

**Shape** Characteristic shape of product.

**Size** Characteristic size of product.

**SustainabilityPerformance** Sustainability issue(s) which the product satisfies.

**TagNumber** The tag number assigned to an occurrence of a product.

**WarrantyDescription** Description of the warranty.

**WarrantyDurationLabour** Duration of labour warranty (years).

**WarrantyDurationParts** Duration of parts warranty (years).

WarrantyGuarantorLabour Organization acting as guarantor of labour warranty.

**WarrantyGuarantorParts** Organization acting as guarantor of parts warranty.

**WarrantyStartDate** The date on which the warranty commences.

BIM Object Guide: Delta Membranes



### 3.0 Abbreviations

**Bnd** Bound

Flg Flag

**nbl** national BIM library

Pvg Paving

SI Slab

Sym System