The National BIM Library

BIM Object Guide: Geocomposite drainage sheet

DELTA membrane systems

Version 1.0

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www.nationalBIMlibrary.com

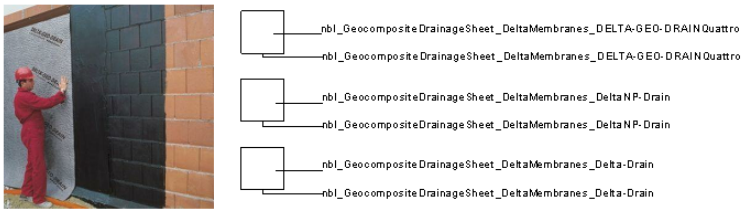
Contents

1.0 Introduction

This guide covers the use of Geocomposite drainage sheet included within the National BIM Library.

Geocomposite drainage sheet

Delta Membrane Systems Ltd Geocomposite Drainage Sheets



All systems listed below are included in the following file:

nbl_GeocompositeDrainageSheet_DeltaMembranes

nbl_GeocompositeDrainageSheet_DeltaMembranes_DELTA-GEO-DRAINQuattro
nbl_GeocompositeDrainageSheet_DeltaMembranes_DeltaNP-Drain
nbl_GeocompositeDrainageSheet_DeltaMembranes_DeltaDrain

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*

2.0 Parameters

Parameters included in the Geocomposite drainage sheet 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.
NBSReference	NBS Uniclass section/clause number.
NBSTypeID	A reference to the object for the user if one or more is used within the project.
Uniclass2	Uniclass2 code.
Version	The version number of the BIM object.

2.2 NBS Parameters

RecycledContent	Percentage of the product which is recycled. Relates to a British standard.

2.3 Manufacturers Parameters

AirGaps	Size of the air gaps between dimples.
CompressiveStrength	Where there is no rigid overlay to the insulation, its compressive strength must be suitable for the roof coating. The minimum value will depend on the degree of roof access.
DimpleHeight	The height of the dimple. Measured in [mm].
WaterDrainageCapacity	The maximum amount of water the object can effectively drain. Measured in units of [L/m per second.]
DrainageRate	The rate which water from the object can effectively drain. Measured in units of [L/m per meter.]
RollSize	Length and width of the roll which the product is available in.
ServiceTemperature	The service temperature is a material characteristic which provides information about the thermal stability of a material. Expressed in [°C].
TensileStrength	The resistance of a material to breaking under tension. Measure in [N/mm²]
ThermalResistance	Thermal resistance of the product. Expressed in [mm² K/W]
Weight	The relative mass or the quantity of matter contained by it, giving rise to a downward force; the heaviness of an object. Measured in units of [kg].

2.4 IFC Parameters

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

AcousticRating	Acoustic rating for this object. It is giving according to the national building code. It indicates the sound transmission resistance of this object by an index ration (instead of providing full sound absorption values).
Combustible	Indication whether the object is made from combustible material (TRUE) or not (FALSE).

Finish	Finish selection for this object. Here specification of the surface finish for informational purposes.
FireRating	Fire rating for this object. It is given according to the national fire safety classification.
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.
IsExternal	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.
Material	Main material of the covering.
Reference	Reference ID for this specified type in this project (e.g. type A-1).
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 an element. Here the total thermal transmittance coefficient through the covering (including all materials).

2.5 COBie Parameters

The following COBie parameters have been included within the Geocomposite drainage sheet 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.
CodePerformance	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.
LifeCyclePhase	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.
NominalHeight	Nominal height of product, typically the vertical or secondary characteristic dimension.

NominalLength	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.

3.0 Abbreviations

Drainage	Drainage
Geocmp	Geocomposite
nbl	national BIM library
Sht	Sheets