



The National BIM Library

BIM Object Guide: Polyethylene composite gas retardant sheets



DELTA
membrane systems

Version 1.0

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Contents

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

1.0 Introduction

This guide covers the use of Polyethylene composite gas retardant sheets included within the National BIM Library.

Polyethylene composite gas retardant sheets

Delta Membrane Systems Ltd Gas Barrier System



nbl_PolyethyleneCompositeGasRetardantSheets_DeltaMembranes_DELTAGasBarrierSystem
nbl_PolyethyleneCompositeGasRetardantSheets_DeltaMembranes_DELTAGasBarrierSystem

All systems listed below are included in the following file:

nbl_PolythCompGasRetrdShts_DeltaMembranes

nbl_PolyethyleneCompositeGasRetardantSheets_DeltaMembranes_DELTAGasBarrierSystem

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 Polyethylene composite gas retardant sheets 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

PerformanceCriteria	Types of performance criteria which the product meets. E.g. Gas proof - CO2. Gas proof - Liquid gas. Gas proof - methane. Gas proof - radon.
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TearResistance	Measurement of how well a material can withstand the effects of tearing. Measured in units of [N].
TensileStrength	The resistance of a material to breaking under tension. Measure in [N/mm ²]
Thickness	Total thickness of product. Measured in [mm]
ThirdPartyCertification	Link provided which related to and Third Party Certificates related to the product.
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 [g/m ²].

2.3 Manufacturers Parameters

RollWidth	Total width of the product roll. Measured in [mm].
RollSize	Total side of the roll [Length x Width]. Measured in [mm].

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.
MassDensity	Material mass density, usually measured in [kg/m ³].
Material	Main material of the covering.
Reference	Reference ID for this specified type in this project (e.g. type A-1).

SpecificHeatCapacity	Specific heat of the products of combustion: heat energy absorbed per temperature unit. Usually measured in [J/kg K].
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.
ThermalConductivity	Thermal transmittance coefficient (U-Value) of an element. Here the total thermal transmittance coefficient through the covering (including all materials).
ThermalTransmittance	Thermal transmittance coefficient (U-Value) of an element. Here the total thermal transmittance coefficient through the covering (including all materials).
ThermalEmissivityBack	Thermal IR emissivity: back side. Defines the fraction of thermal energy emitted per unit area to "blackbody" at the same temperature, through the "back" side of the material.
ThermalEmissivityFront	Thermal IR emissivity: front side. Defines the fraction of thermal energy emitted per unit area to "blackbody" at the same temperature, through the "front" side of the material.

2.5 COBie Parameters

The following COBie parameters have been included within the Polyethylene composite gas retardant sheets 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

Geocmp	Geocomposite
nbl	national BIM library
Stud	Studded
Shts	Sheets