The National BIM Library

BIM Object Guide: High density polyethylene (PE-HD) studded sheets

DELTA membrane systems

Version 1.0

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www.nationalBIMlibrary.com

Contents

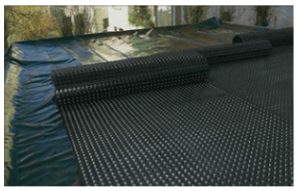
1.0 Introduction

This guide covers the use of High density polyethylene (PE-HD) studded sheets included within the National BIM Library.

High density polyethylene (PE-HD) studded sheets

All systems listed below are included in the following file:

Delta Membrane Systems Ltd HDPE Studded Sheets



nbl_HDenPolythStudShts_DeltaMembranes

nbl_HighDensityPolyethyleneStuddedSheets_DeltaMembranes_DeltaFloraxx
nbl_HighDensityPolyethyleneStuddedSheets_DeltaMembranes_DeltaMS20
nbl_HighDensityPolyethyleneStuddedSheets_DeltaMembranes_DeltaFM
nbl_HighDensityPolyethyleneStuddedSheets_DeltaMembranes_Delta-SystemMS500
nbl_HighDensityPolyethyleneStuddedSheets_DeltaMembranes_SubBaseProtection
nbl_HighDensityPolyethyleneStuddedSheets_DeltaMembranes_Delta-Floraxx-Top

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 High density polyethylene (PE-HD) studded 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

IntegralPlasterKey	Studded sheets are available with a textured surface or a bonded mesh backing to provide a key for direct plastering to wall membranes. If the membrane is to be plastered or rendered insert, e.g. Required.
SheetThickness	Total thickness of product. Measured in [mm]
StudHeight	The products stud height. 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/m²].

2.3 Manufacturers Parameters

AirGap	Air gaps in the products expressed in [l/m²].
CompressiveStrength	Compressive Strength in accordance with (EN ISO 604).
LateralWaterPermeability	Lateral water permeability in accordance with (EN ISO 12958).
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].
SofteningTemperature	Temperature or range of temperatures at which a substance softens. Measured in [°C]
VerticalWaterPermeability	The vertical flow of water through the product. Expressed in [L/m² per second].
WaterStorageCapacity	The maximum amount of water the object can store at one given time. Measured in units of [L/m².]

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/m³].
Material	Main material of the covering.
Reference	Reference ID for this specified type in this project (e.g. type A-1).
ShearModulus	A measure of the shear modulus of elasticity of the material.
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).
TotalThickness	Total thickness of the product expressed in [mm].

2.5 COBie Parameters

The following COBie parameters have been included within the High density polyethylene (PE-HD) 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

Den	Density
H	High
nbl	national BIM library
Mbrn	Membranes
Polyth	Polyethylene
Stud	Studded
Shts	Sheets