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The National BIM Library

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



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The National BIM LibraryBIM Object Guide: Delta Membranes



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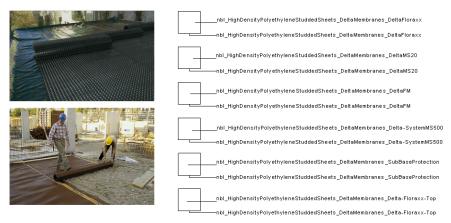
1.0 Introduction

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

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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

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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.

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.

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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

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).

Acoustic Rating 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.

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

fire safety classification.

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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].

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].

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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.

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

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characteristic dimension.

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

horizontal dimension.

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.

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3.0 Abbreviations

Den Density

H High

nbl national BIM library

Mbrn Membranes

Polyth Polyethylene

Stud Studded

Shts Sheets