The National BIM Library

BIM Object Guide: Kalzip 0.18 w/m²K Acoustic Deck Roof System

Version 1.0

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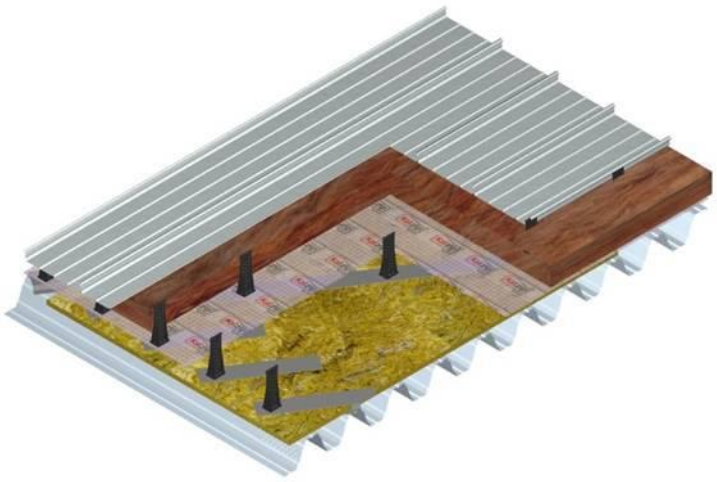
www.nationalBIMlibrary.com

Contents

1.0 Introduction

This guide covers the use of Kalzip 0.18 w/m²K Acoustic Deck Roof System included within the National BIM Library.

Kalzip 0.18 w/m²K Acoustic Deck Roof System



All products listed below are included in the following file:
nbl_Kalzip_AcousticDeckRoofSystem-UValue-0-18

Kalzip 0.18 w/m²K Acoustic Deck Roof System

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** *Manufacture**r***_**Field4** *Product Range*

Object

Field1 *Author*_**Field2** *Manufacture**r***_**Field3** *Product*

2.0 Parameters

Parameters included in the National BIM Library Kalzip 0.18 w/m²K Acoustic Deck Roof System are as follows:

2.1 National BIM Library Parameters

Author	The name of the BIM objects 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.
FlammibilityRating	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.
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.
NBSReference	NBS Uniclass section/clause number.
Version	The version number of the BIM object.

2.2 NBS Parameters

AcousticInsulation	Acoustic insulation to provide additional sound reduction performance.
AcousticPerformanceInternalSoundAbsorption	Sound absorption class to BS EN ISO 11654.
AcousticPerformanceSoundTransmittance	Sound reduction index (Rw) to BS EN ISO 717-1.
ExternalFireExposure	Resistance to external fire exposure to BS 476-3 & BS EN 13501-5.

ExternalSheets	External standing seam profiled sheet.
Humidity	Internal humidity load class to BS EN ISO 13788.
LinerSheets	Internal trapezoidal profiled liner sheet.
SnowLoading	Maximum snow loadings to profiled sheets based upon clip frequency.
ThermalInsulation	Insulation to provide thermal resistance.
VapourControlLayer	Vapour control layer to reduce the risk of condensation.
WindActions	Maximum wind suction loadings to profiled sheets based upon clip frequency.

2.3 Manufacturers Parameters

BBACertificateProductSheet	British Board of Agreement Certificate location for the roof system.
Clip	Type of clip used to secure profiled sheets to the substructure of the roof.
LippedChannel	Lipped channel support rail.
MaximumSnowLoad-1.000mClipCentres	Maximum snow loadings to profiled sheets based upon clip frequency.
MaximumSnowLoad-2.000mClipCentres	Maximum snow loadings to profiled sheets based upon clip frequency.
MaximumWindSuctionLoad-1.000mClipCentres	Maximum wind suction loadings to profiled sheets based upon clip frequency.
MaximumWindSuctionLoad-2.000mClipCentres	Maximum wind suction loadings to profiled sheets based upon frequency.
RigidInsulation	Rigid insulation to provide additional thermal resistance.
TopHat	Sub-purlins fixed directly to liner/deck.
UKSystemsBrochure	Kalzip systems product and applications resource.
U-Value-1.000mClipCentres	Thermal bridging effect based upon clip frequency penetrating the insulation layer.
U-Value-2.000mClipCentres	Thermal bridging effect based upon clip frequency penetrating the insulation layer.

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 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).
Compartmentation	Indication whether the object is designed to serve as a fire compartmentation (TRUE) or not (FALSE).
FireRating	Fire rating for this object. It is given according to the national fire safety classification.
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.
LoadBearing	Indicates whether the object is intended to carry loads (TRUE) or not (FALSE).
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.
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.
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).

2.5 COBie Parameters

The following COBie parameters have been included within the Kalzip 0.18 w/m²K Acoustic Deck Roof System 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.
Finish	Characteristic or primary finish of product.
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.
Material	Characteristic or primary material of product.
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

nbl	National BIM Library