



The National BIM Library

BIM Object Guide: AnconST1 Wall Tie



Version 2.0

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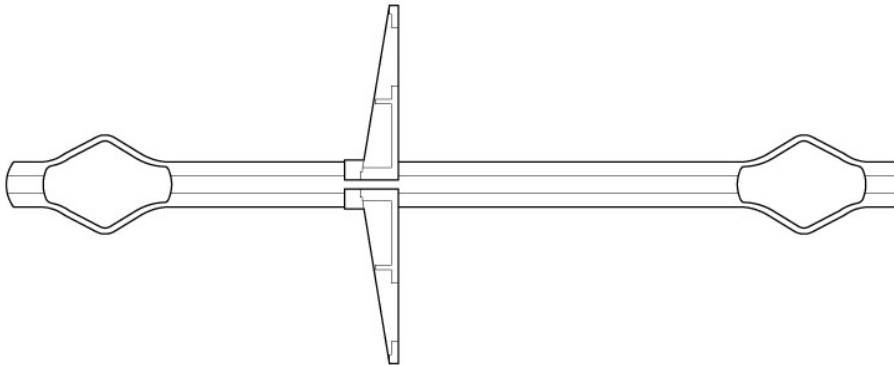
Contents

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	6
2.4 IFC Parameters	7
2.5 COBie Parameters	8
3.0 Abbreviations	9

1.0 Introduction

This guide covers the use of AnconST1WallTie included within the National BIM Library.

AnconST1 Wall Tie



All products listed below are included in the following file:

nbl_CavWallTiesToBSEN845-1_AnconBuildingProducts_AnconST1WallTie

AnconST1 Wall Tie

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 **AnconST1 Wall Tie BIM object** 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.
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 BIMobject 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

CavityWaterCrossingResistance	Indication whether the cavity tie is intended to be resistant to water crossing the cavity.
CompressiveLoadCapacity	Minimum declared compressive load capacity for tie types using design embedment length measured in [N].
DesignEmbedmentLength	Tie embedment depth measured in [mm].

DynamicStiffness	Sound attenuation performance in separating and associated flanking cavity masonry walls in accordance with England and Wales Approved Document E and Scottish Technical Standard 5.1
EndTypes	Tie configuration to both ends.
InsulationRetainingClips	Visibility setting to indicate the requirement for compatible retaining clips, discs or other devices for use with wall ties to secure cavity insulation.
MortarJointThickness	Minimum mortar joint thickness for which the tie is required to be suitable.
Movement	Indication whether ties are movement tolerant.
SlopeTolerance	Indication whether the cavity tie is slope tolerant, and if it is, the difference in level from the outer leaf down to the inner leaf over which the tie is required to operate.
TieType	Classification of wall ties by end use in accordance with PD 6697.

2.3 Manufacturers Parameters

CompatibleInsulationRetainingClip	Compatible retaining clips, discs or other devices for use with wall ties to secure cavity insulation.
OptionalFixings	Available options associated to the product.
RecommendedEmbedmentLength	Tie embedment depth recommendations measured in [mm].
StandardLengthOptions	Available wall tie length(s) measured in [mm].

2.4 IFC Parameters

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

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).
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.
ThermalTransmittance	Thermal transmittance coefficient (U-Value) of a material. Here the total thermal transmittance coefficient through the member within the direction of the thermal flow (including all materials).

2.5 COBie Parameters

The following COBie parameters have been included within the Ancon SDB BIM object and can be used to prepare COBie data schedules:

Colour	Characteristic or primary colour of product.
Constituents	Optional constituent features, parts or finishes.
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.
Manufacturer	The organization that manufactured or assembled the item.
Material	Characteristic or primary material of product.
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.
ReferenceStandard	Reference standard(s) to which the product is compliant.
Shape	Characteristic shape of product.
Size	Characteristic size of product.

3.0 Abbreviations

Cav	Cavity
nbl	national BIM library