

# NBS Create & NBS Plug-in for Autodesk® Revit®

nbs

**ICIS**  
INTEGRATING CONSTRUCTION

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ICIS Delegates' Assembly 2014  
Tallinn, Estonia

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# NBS Create and the NBS Plug-in for Autodesk® Revit®

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## Overview:

1. NBS Create specification
2. The NBS resource panel in Autodesk® Revit®
3. Linking the specification and the model
4. Viewing the specification from the model
5. Coordinating linked project information
6. Working with Office Masters
7. Generating specifications from the model





Contents

Title	Suffix	Classification
Battened timber bo...	-	20-55-05
External multiple lea...	-	25-10-55
Doorset system	type A	25-50-20
Doorset system	type B	25-50-20
Low temperature ho...	-	60-45-40

Battened timber board floating floor system

Doorset system type A

System performance

25-50-20/220 Fire performance

- Standards: To BS EN 14600.
- Fire resistance:
  - Standard: To BS EN 1634-1; classification to BS EN 13501-2.
  - Integrity: 120 minutes.
  - Insulation: 120 minutes.
  - Radiation: To BS EN 13501-2, 30 minutes.
- Smoke control:
  - Ambient temperature smoke: To BS EN 13501-2, Class S<sub>a</sub>.
  - Medium temperature smoke: To BS EN 13501-2, Class S<sub>m</sub>.
- Surface spread of flame: As given in Building Regulations (E&W) Approved Document B2, Class 0 and to BS 476-7, Class 1.
- Conformity: Certification by accredited third party certification body.

25-50-20/240 Acoustic performance

- Sound insulation rating: To BS EN ISO 717-1, dB(A).
- Conformity: Certification by accredited third party certification body.

Execution

NBS Guidance

Search NBS Guidance

25 - 50 - 20

220 Fire performance

Preview clause | Used by | Add Note | Add to job

See [general guidance 1](#).

Use this clause to specify the fire performance of door leaf, door assembly or doorset systems.

Guidance on the fire performance of door assemblies in relation to Building Regulations is as follows:

- E&W: Approved Document B1, [Appendix B](#), and

although this is not a typical requirement when addressing Building Regulations; it may be needed to meet egress or fire fighting strategies or insurer's requirements. Essential hardware is considered under [BS EN 1634-2](#). Cross

NBS Guidance NBS Plus

An example system performance specification clause within NBS Create

NBS is the de-facto standard specification system for the UK. Using NBS allows specification of systems, performance, products, execution and completion requirements.

are

ed,

Cross

NBS signed in



File Home Insert Review Office Master Update View Manage

New Job Job Wizard Open Job Performance Full Job Details Outline Cut Copy Paste B I U Park Delete

Job Job Stage Open Clipboard Format Remove

## Contents

Title	Suffix	Classification
Battened timber bo...	-	20-55-05
External multiple lea...	-	25-10-55
Doorset system	type A	25-50-20
Doorset system	type B	25-50-20
Low temperature ho...	-	60-45-40

Job details Contents

## Resources

All resources

05 Districts, facilities and buildings

Each selection in NBS is a link to a clause object, so the information can be interrogated, reported on, scheduled and exported etc.

## Battened timber board floating floor system

## System outline

## nbs 20-55-05/110 Battened timber board floating floor system

- **Description:** Floor system to main building.
- **System performance:** Design submittals and Design of wood flooring systems.
- **System manufacturer:** Submit proposals.
- **Subfloor preparation layer:** Cementitious levelling screed mix.
- **Secondary supports or spacers:** Contractor's design.
- **Thermal insulation between battens:** Extruded polystyrene (XPS) board
- **Floating subfloor:** Fibre-reinforced gypsum floor board.  
Timber floor boards.  
Contractor's design.
- **Joining adhesive:** Contractor's design.
- **Installation:** Installing timber board flooring.  
Removal of samples and Moisture content certification – subfloors, wood and wood based components.

Joining adhesive:

Installation:

05 Design submittals

Detailed design:

## NBS Guidance

Search NBS Guidance

## Thermal insulation between battens

A resilient layer provided for sound insulation may be insufficient where thermal insulation is also required.

## NBS values

- Expanded polystyrene (EPS) board
- Extruded polystyrene (XPS) board
- Mineral wool insulation
- Mineral wool slab insulation
- Polyisocyanurate (PIR) foam board

## Floating subfloor

This is only required for sound resisting floors where the subfloor is timber boards, wood based board or timber joists – see the Building Regulation references above.

## NBS values

- Fibre-reinforced gypsum floor board
- Sound insulation gypsum plasterboard - type D

## Flooring

No NBS Guidance available. Add your own [Note](#).

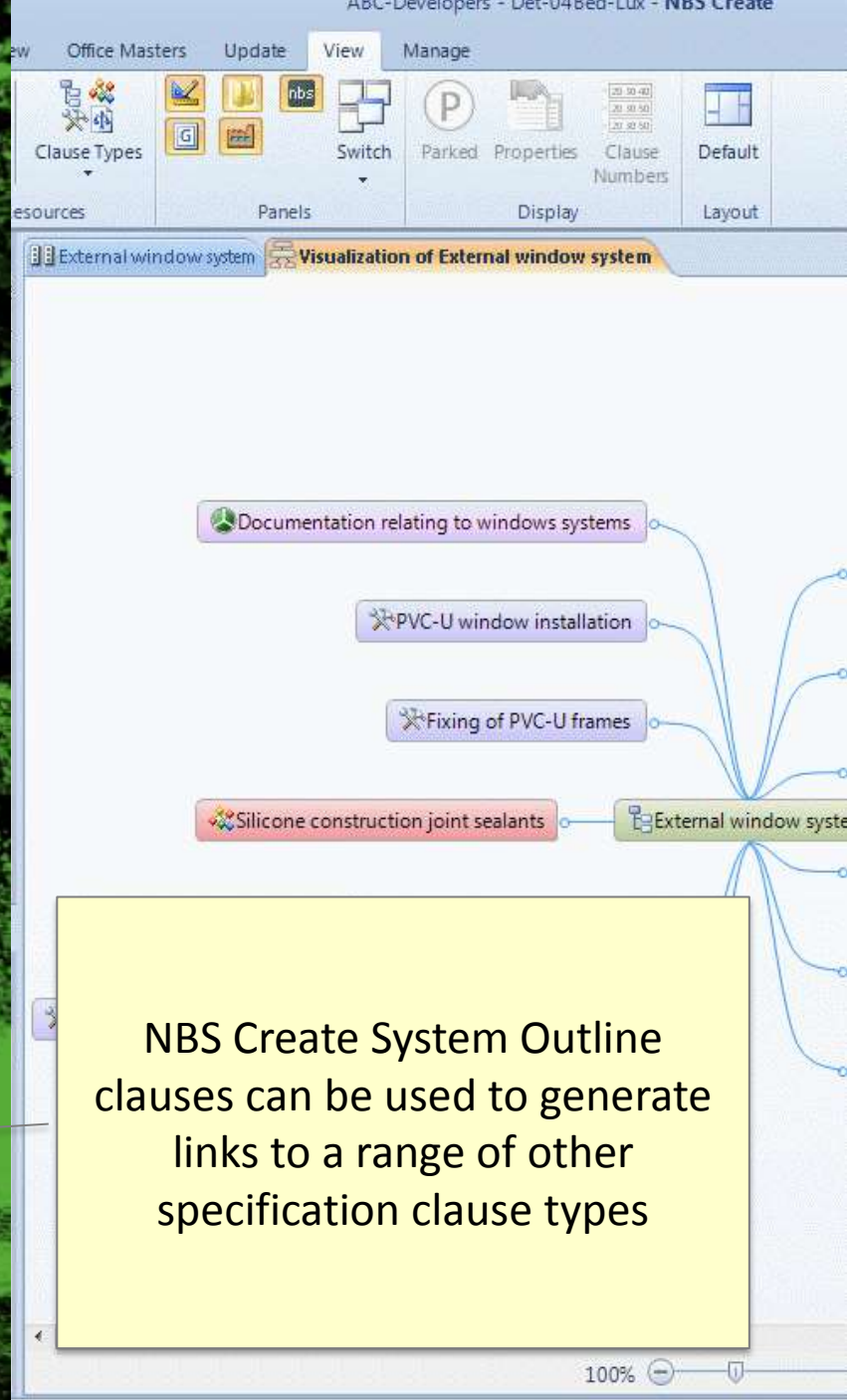
## NBS values

NBS Guidance NBS Plus





NBS Create organic specification





File Home Insert Review Office Masters Update View Manage

New Job Job Wizard Open Job Job Details Outline Performance Full Cut Copy Paste B I U abc x<sub>2</sub> x<sub>2</sub> P X Park Delete

Job Open Job Stage Clipboard Format Remove

Contents

Start Page PVC-U window units

Office Master

Save as draft Publish to cloud

– Colour and texture:

• Glazing or infill:

– Standard: Relevant parts of BS EN 1279.

• Hardware:

– Securing devices: Manufacturer's standard.

• Execution: Window installation generally and Fixing of plastics frames.

Job details Contents

Resources

window

Title

- Aluminium frame roof wi..
- Aluminium window units
- Boxed sash window han..
- Composite window units
- Door and window locks ..
- Door and window weat...
- Double window sight gl..
- External window system
- Internal window system
- Multi window sight glas..
- PVC-U window units
- Rigid polyurethane fram..
- Sash window pulls
- Sash window spiral bala..
- Single axis window hinge
- Single window sight gla..
- Steel frame roof window..
- Steel window units
- Window casement faste...

Execution

Window installation generally

• Clause tag:

• Gap between frame edge and surrounding construction:

– Minimum: 10 mm

– Maximum: 6 mm.

Fixing of plastics frames

• Clause tag:

• Fasteners:

– Type: Framin

– Spacings: When t otherwise, position fasteners 150-250 mm from ends of each jamb, head and sill, adjacent to each hanging point of opening lights, but no closer than 150 mm to a transom or mullion centre line, and at maximum 600 mm centres.

End of system | Top ^

NBS Guidance

Search NBS Guidance

- Expanding anchors
- Framing anchors
- Wood screws

Spacings

For windows under 1200 mm wide, frame fixings are generally only required up the length of the jambs.

For wider openings it may be necessary to specify head and sill fixings.

drilled or specified  
ition fasteners 150-250 mm  
each jamb, adjacent to each  
of opening lights, but no  
0 mm to a transom or  
line, and at maximum 600

drilled or specified  
ition fasteners 150-250 mm  
each jamb, head and sill,  
ch hanging point of opening  
closer than 150 mm to a  
transom or mullion centre line, and at  
maximum 600 mm centres

End of page

NBS Guidance NBS Plus

OM Clauses: 296

Stephen signed in

Users of NBS can add clauses to an Office Masters library of clauses reusable on future projects. These can be updated.

File Home Insert Review Office Master Update View Manage

New Job Job Wizard Open Job Performance Full Job Details Outline Open Clipboard Format Remove

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Job details Contents

Resources

All resources

floating floor system Doorset system type A Doorset system type B

**Products**

**45-25-18/420 Padlocks**

- Manufacturer: Häfele UK Ltd
- Product reference: High Security Padlock.
- Type: 911.60.072.

**45-25-28/344 Metal doorsets**

- Manufacturer: Blyweert Beaufort Aluminium Ltd
- Product reference: Krios Commercial Door System (Double Leaf)
- Size: As drawing.
- Type: As drawing.
- Finish: Anodized.
- Outer frames: GT252.
- Door leaf: GT304.
- Threshold/ Sill: GT215.
- Direct fix frame: Not required.
- Execution: Installing hardware.

**45-25-38/370 Trickle vents**

- Manufacturer: Renson Fabrications Ltd.
- Product reference: Window Trickle Ventilator THK60.
- Equivalent glazing thickness: As drawing.
- Aperture width: As drawing.
- Control: Electric, control from

**NBS Plus**


Search NBS Plus

## High Security Padlock

from Häfele UK Ltd

A range of high security padlocks.

The clause



**PADLOCKS:**

- Product reference: High Security Padlock.
- Type: 911.60.070. CEN 6.  
911.60.071. CEN 5.  
911.60.072. CEN 4.  
911.60.073. CEN 3.  
911.60.077.  
As schedule ???.

show 3 options only.

Add Product

NBS Guidance NBS Plus

Systems: 5 Sections: 0 Up to date

NBS signed in

An example manufacturer product specification clause within NBS Create



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## 2. The NBS resource panel

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## Our Products

Find out more about our product range

[NBS Create](#)[NBS National BIM Library](#)[NBS Building](#)[NBS Landscape](#)[NBS Scheduler](#)[NBS Domestic Specification](#)[NBS Plug-ins](#)[NBS Contract Administrator](#)[RIBA Agreements](#)[NBS Building Regulations](#)[RIBA Product Selector](#)[The Construction Information Service](#)

# nbs Plug-ins

[Home](#) > [Products](#) > [NBS Plug-ins](#)

## NBS Plug-ins

Coordinating the information between your specification model and your CAD model is key to robust, coordinated project documentation. There are a range of NBS Plug-ins and tools to help.

[NBS Plug-in for Autodesk® Revit®](#)[ArchiCAD Plug-in](#)[Annotator](#)[Keynotes](#)

### The benefits

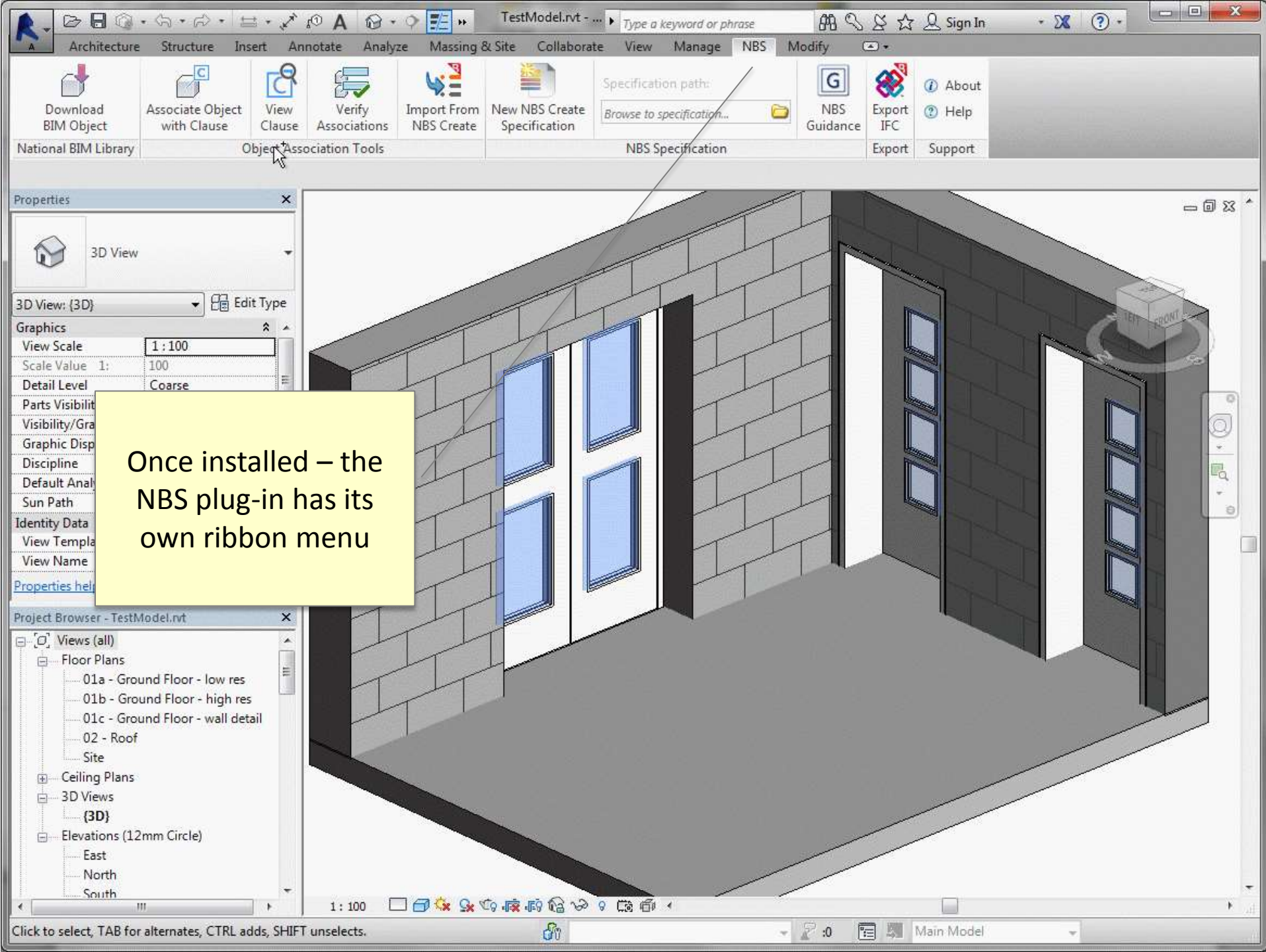
Compatible with Revit® 2012, Revit® 2013 and Revit® 2014\*, the fantastic NBS Plug-in for Autodesk® Revit® has been developed by NBS and Autodesk and allows direct linkage between NBS and Revit® at an object-to-object level. It makes the task of putting together a coordinated set of drawings even easier.

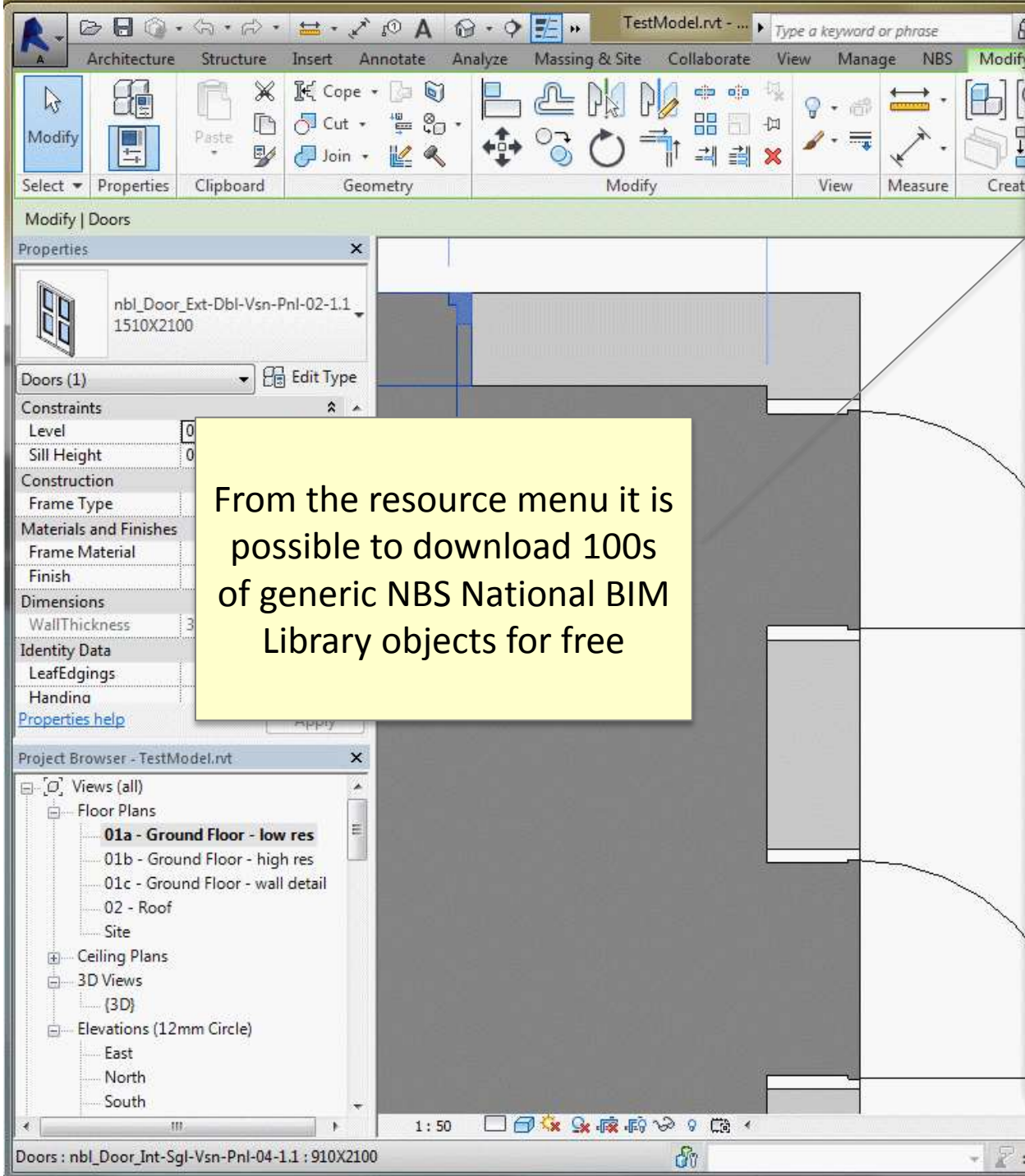
*\* NBS Plug-in for Autodesk® Revit® will be compatible with Revit® 2015® following its next release due before end of June 2014.*

The plug-in addresses the issues of risk around information currency associated with the traditional import

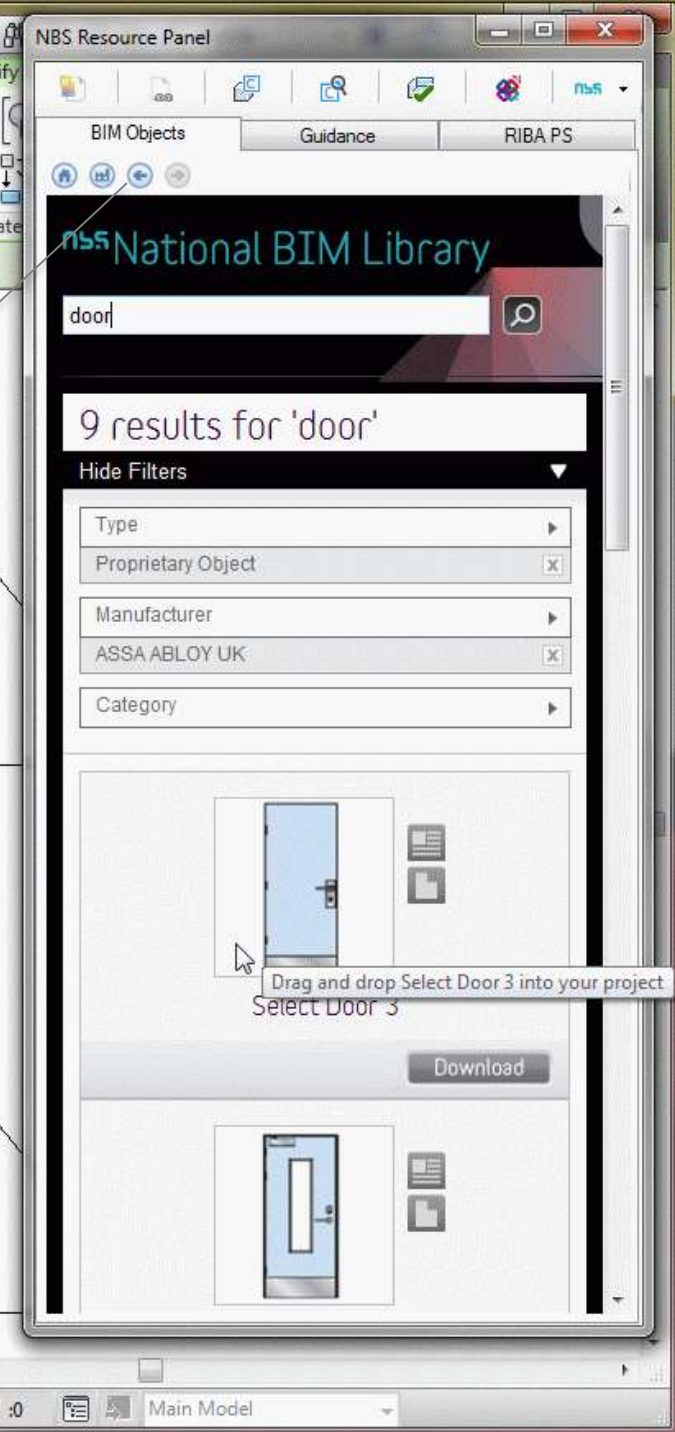
The NBS Plug-in for Autodesk® Revit® can be downloaded from theNBS.com



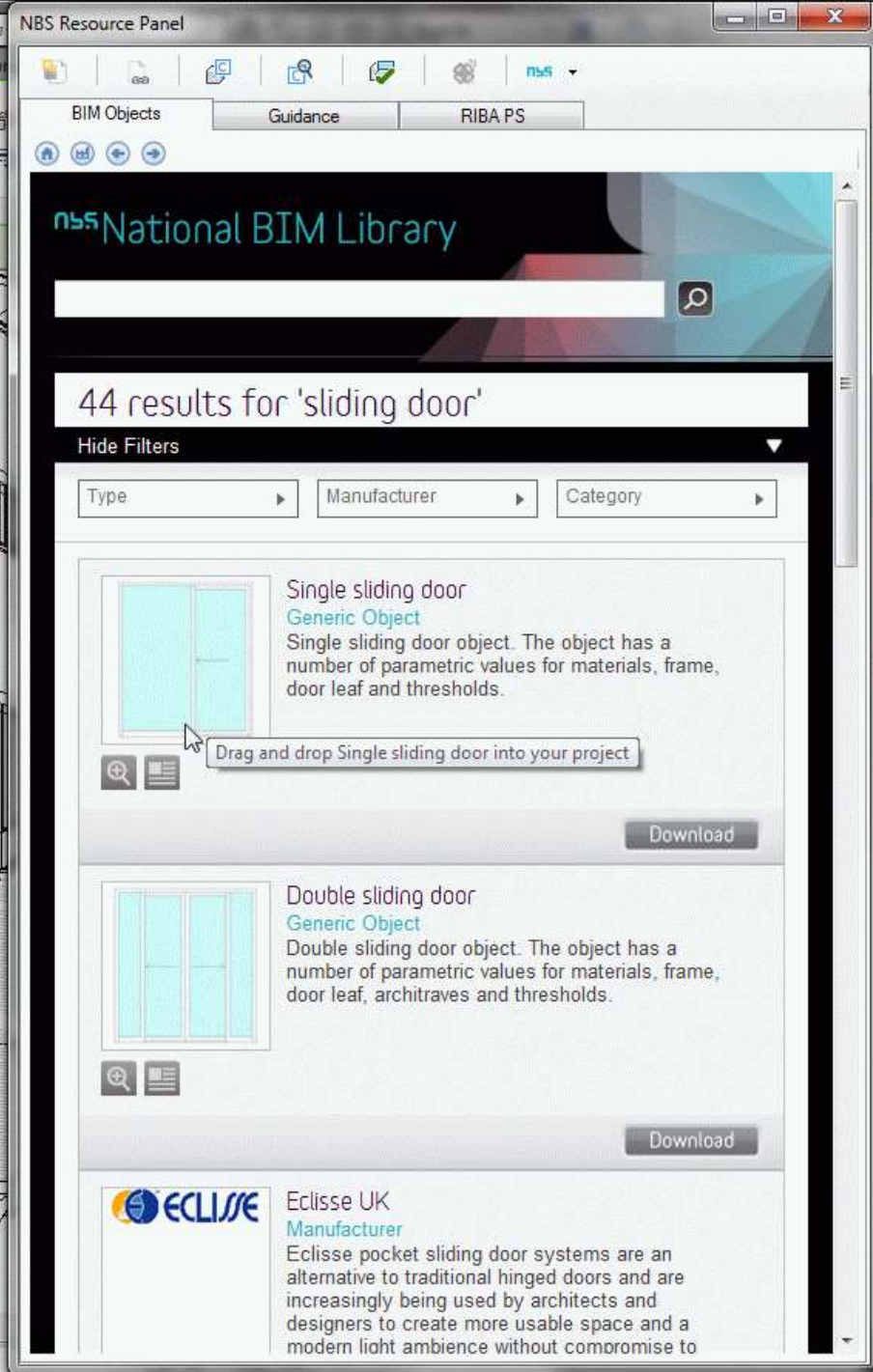
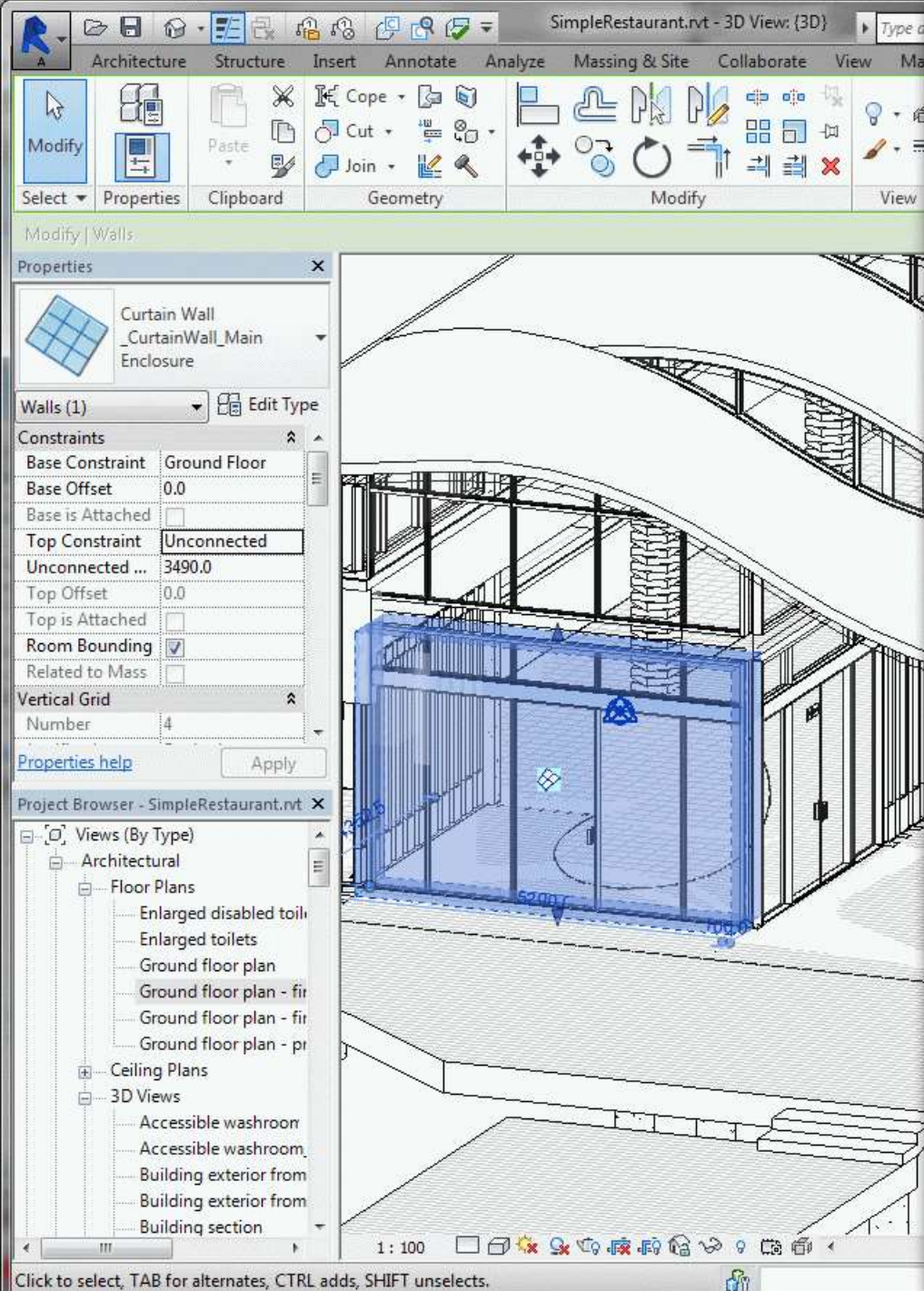


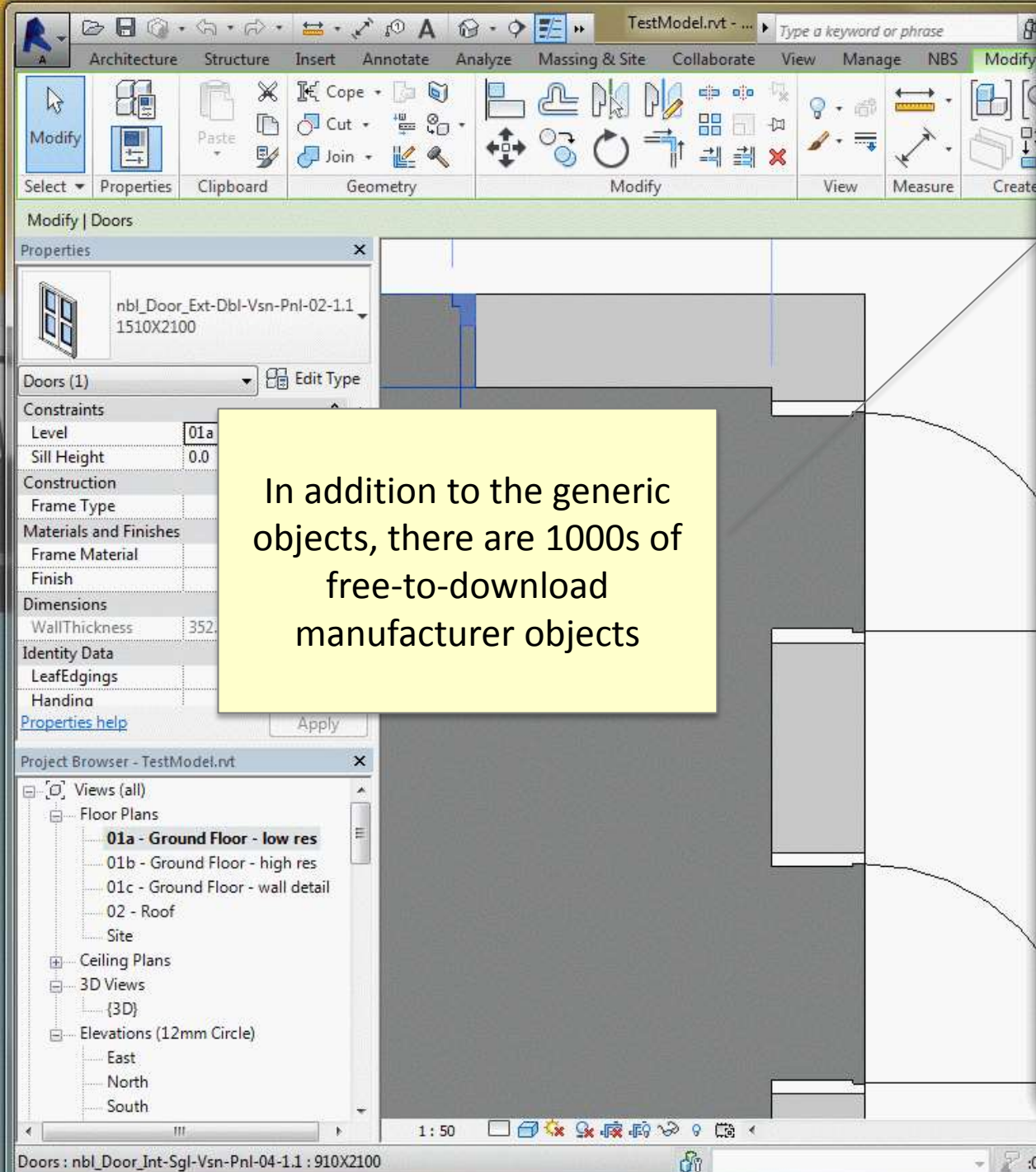


From the resource menu it is possible to download 100s of generic NBS National BIM Library objects for free

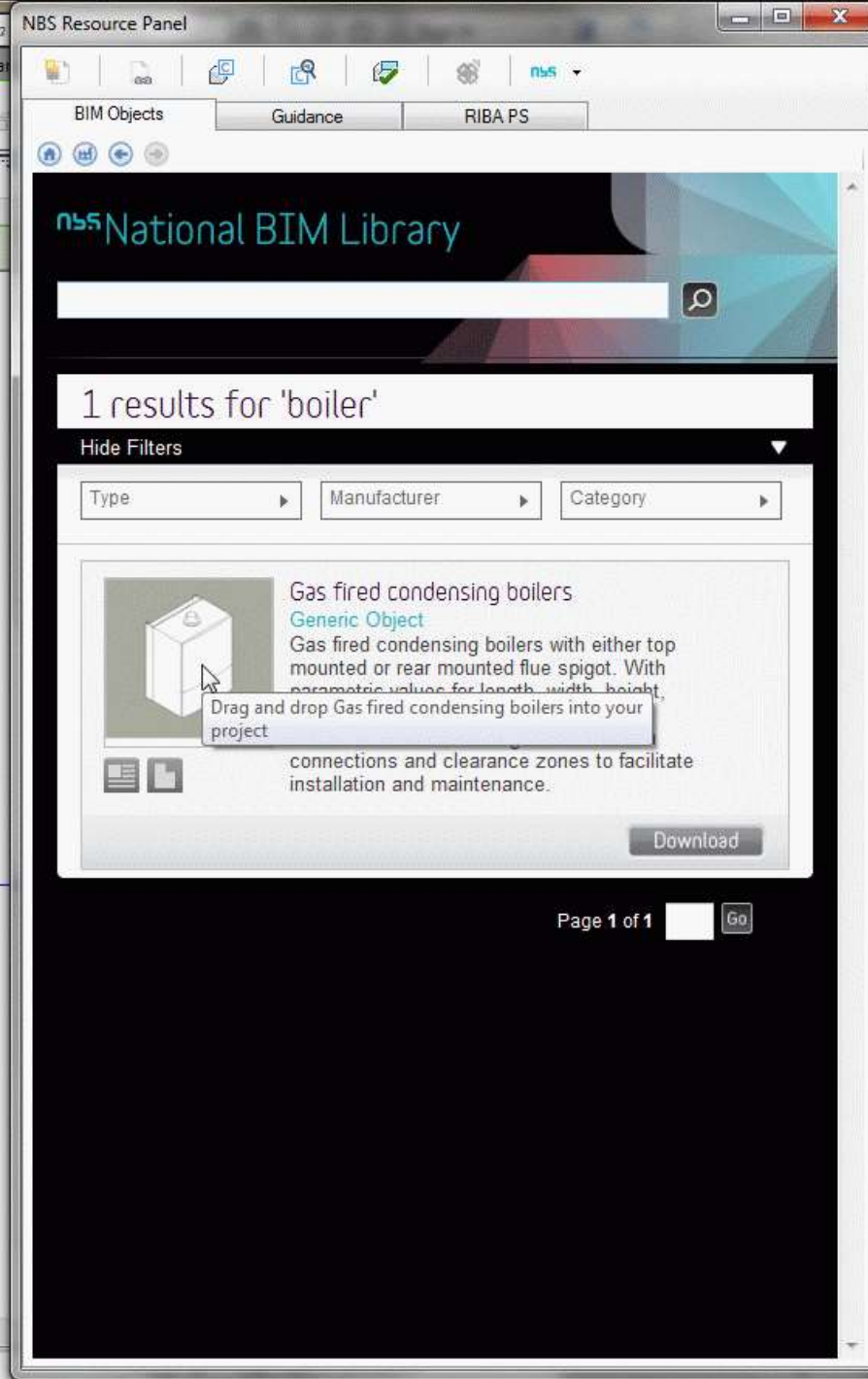
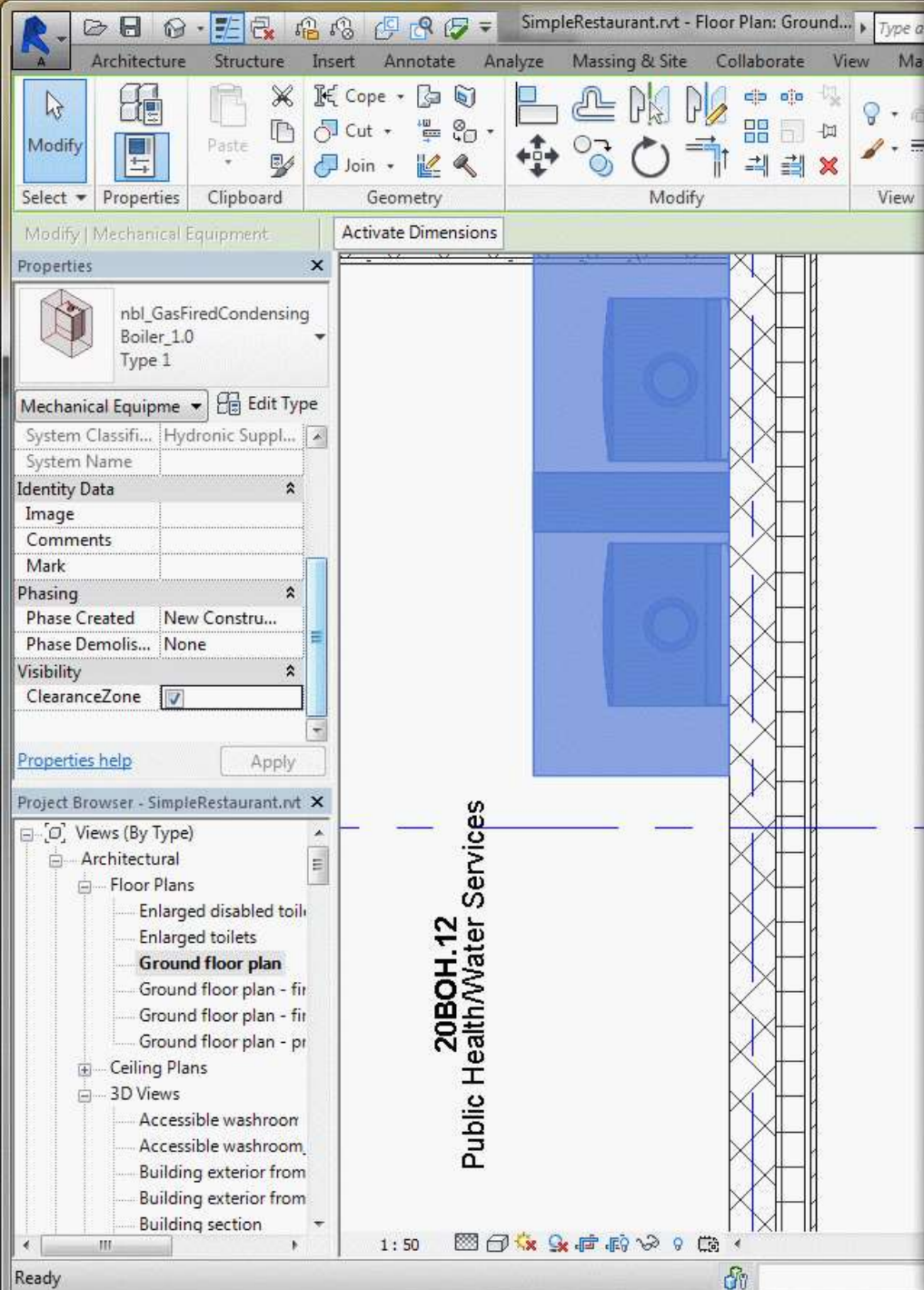


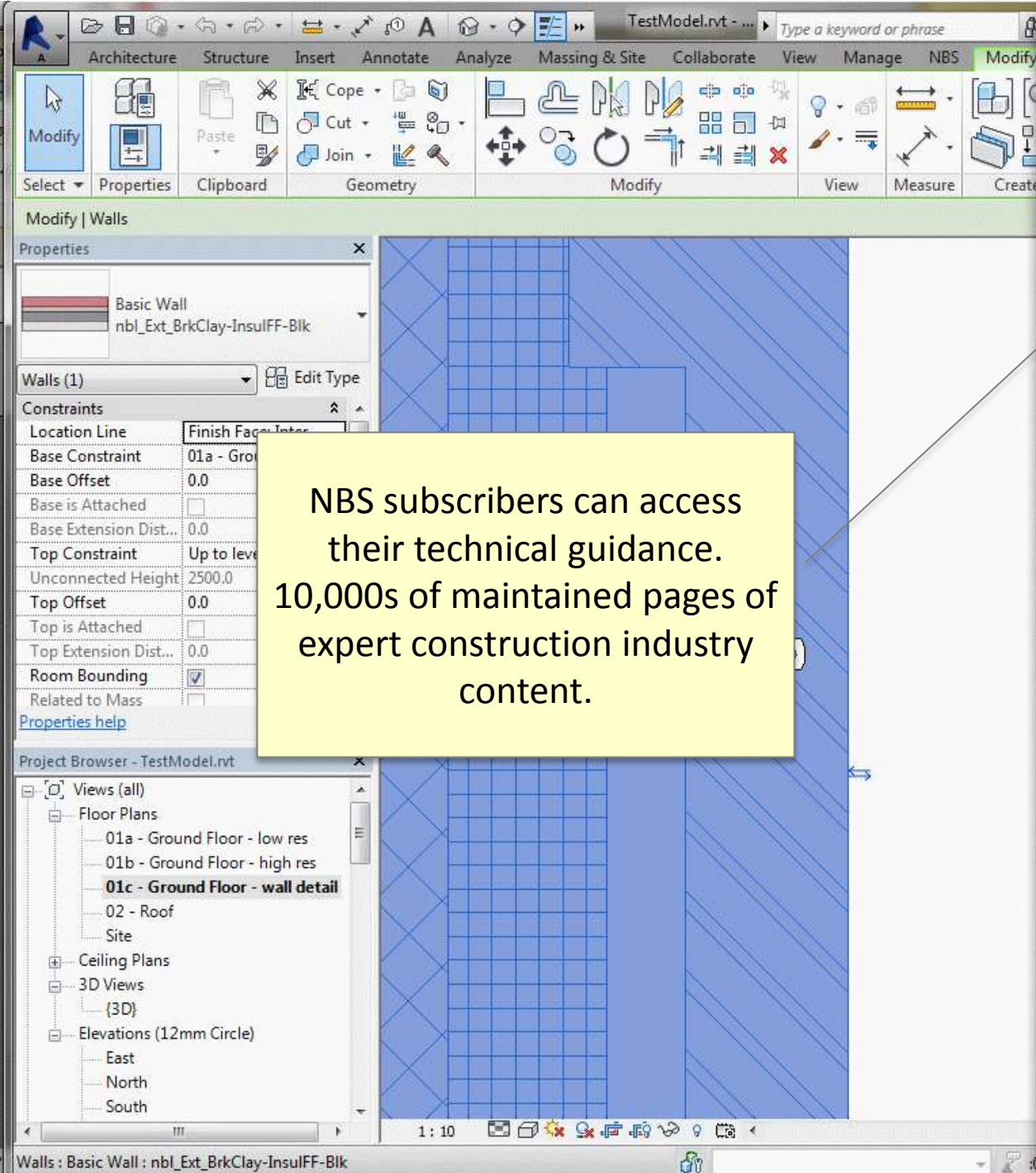




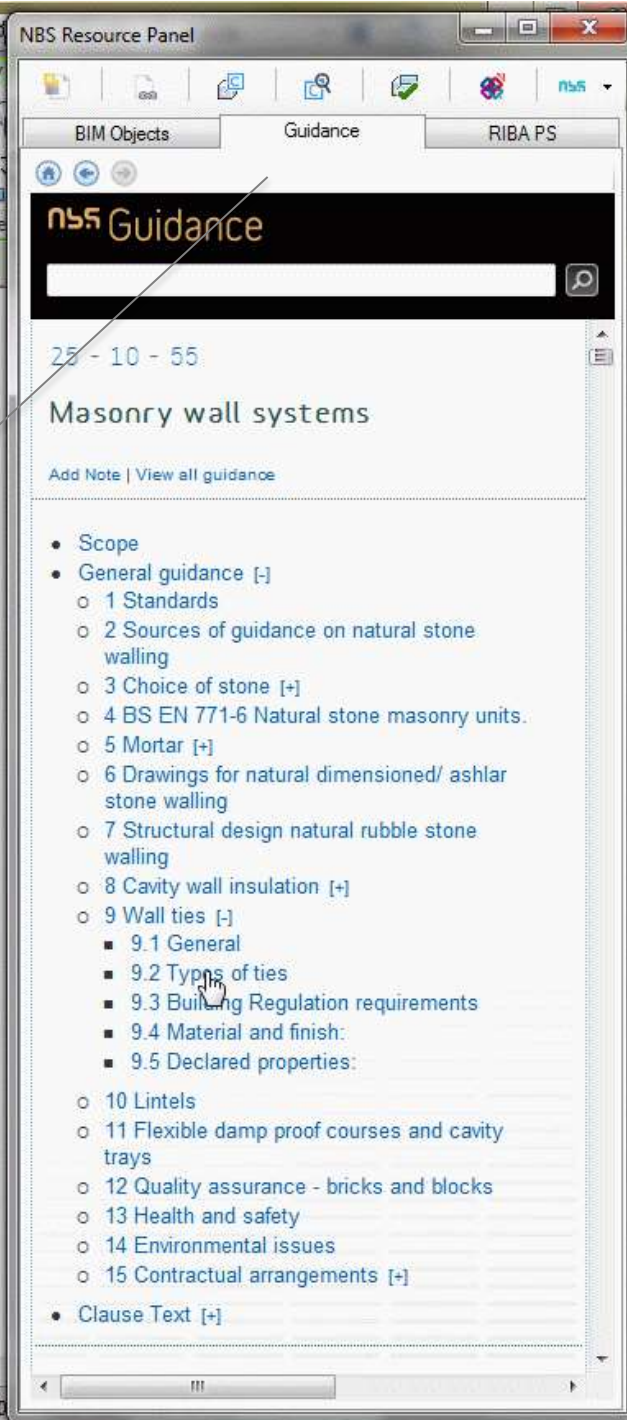




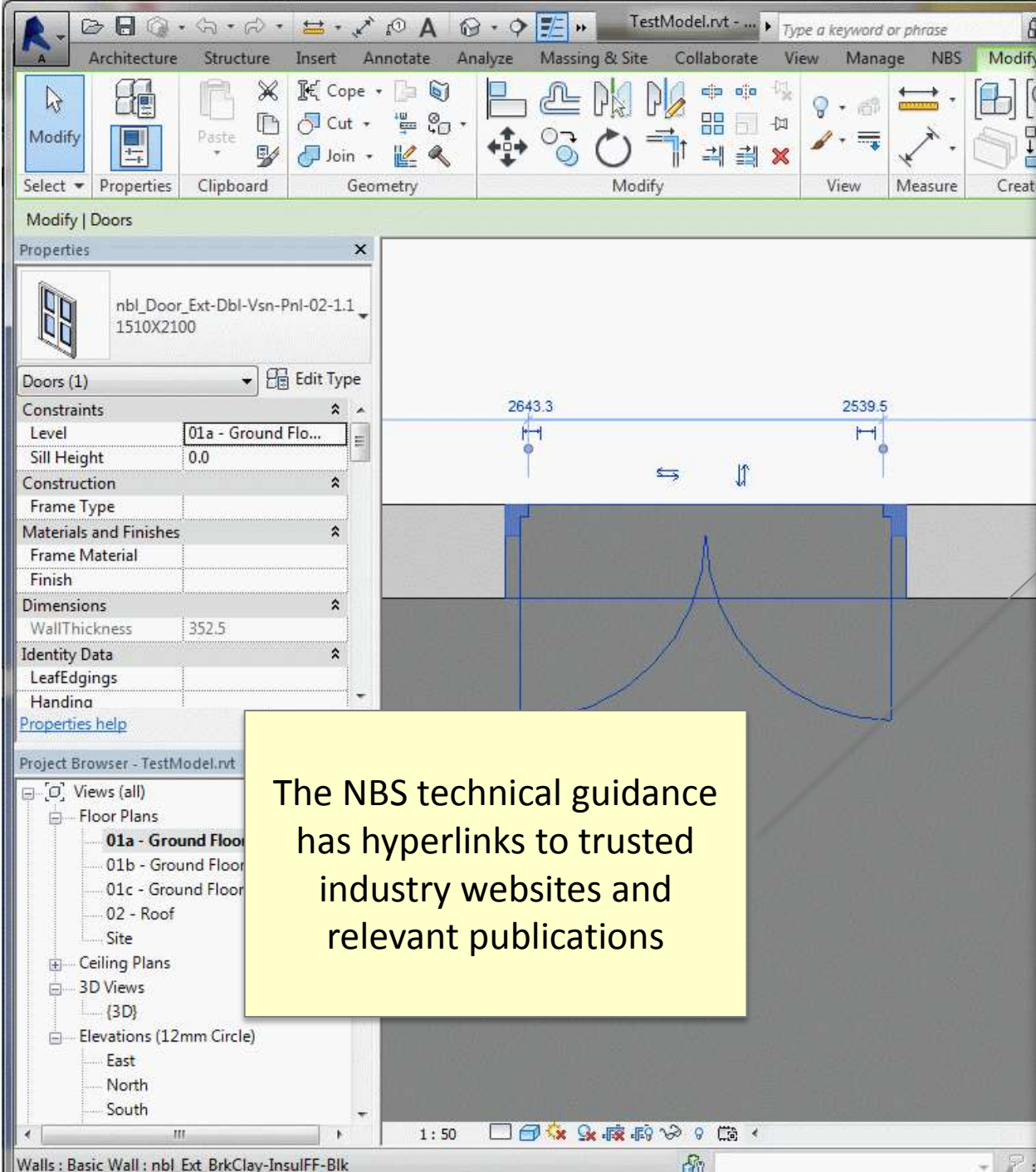




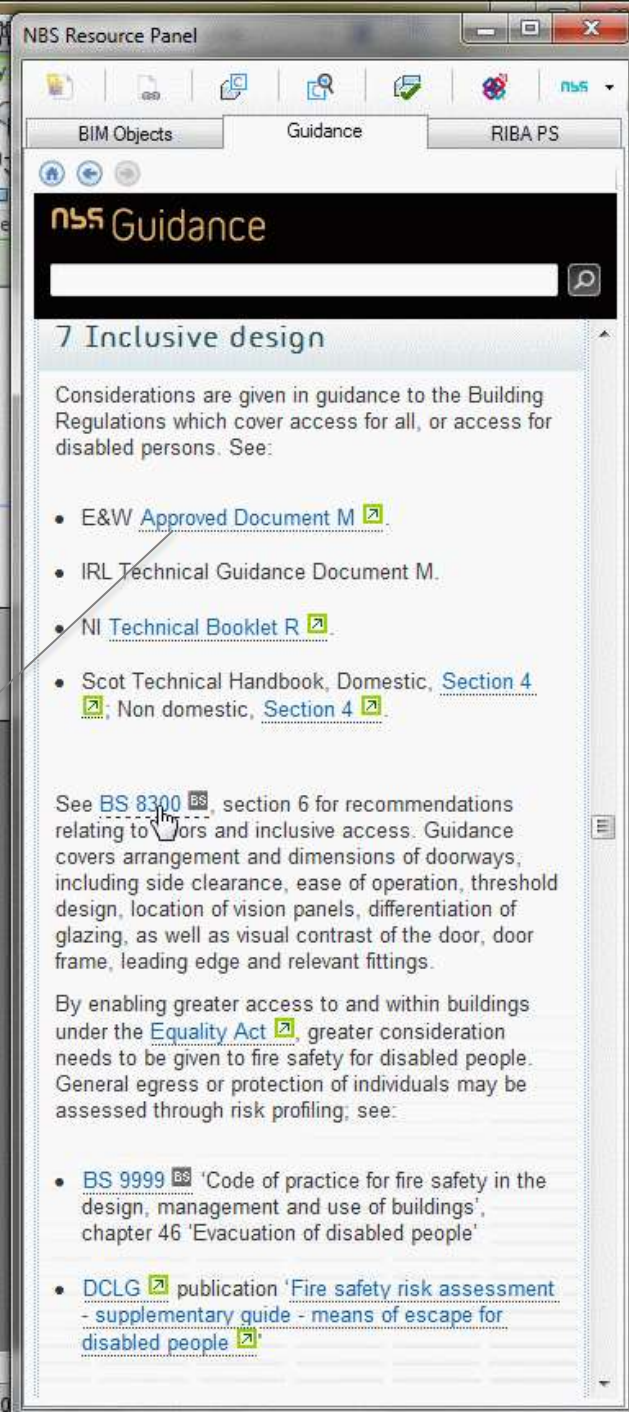
NBS subscribers can access  
their technical guidance.  
10,000s of maintained pages of  
expert construction industry  
content.







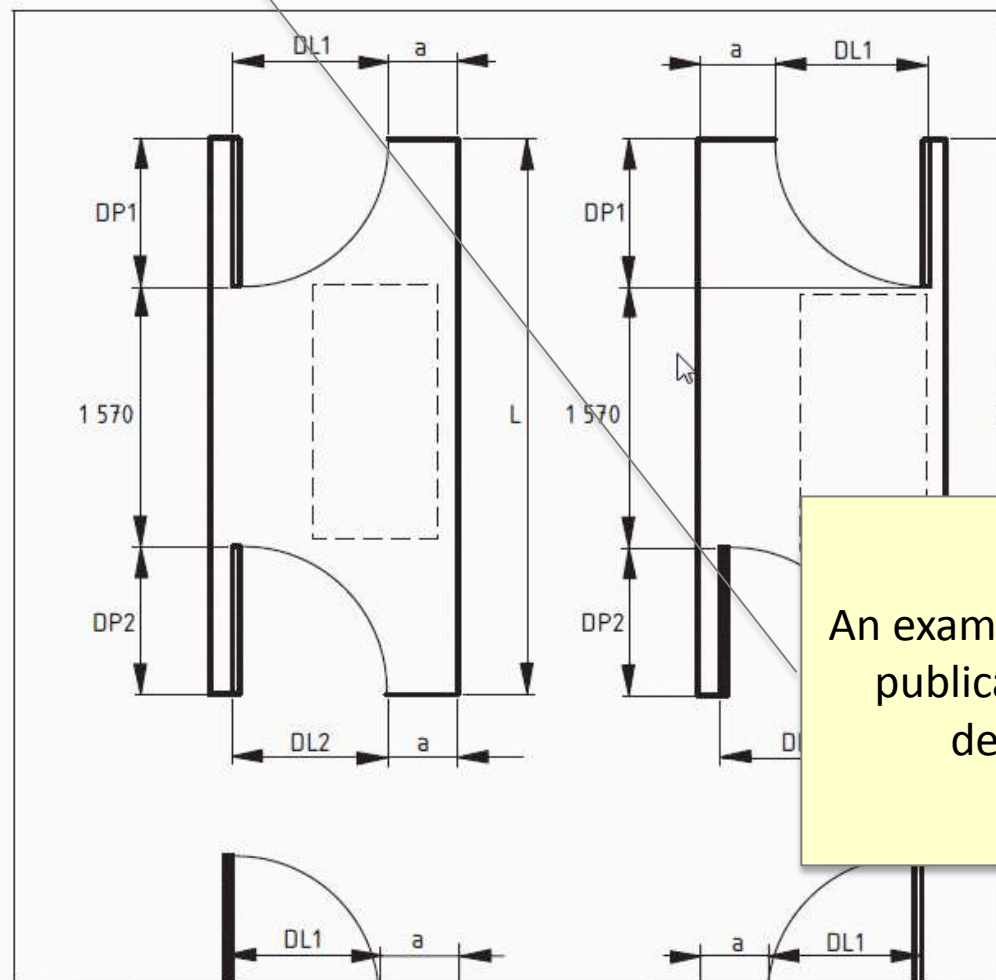
The NBS technical guidance has hyperlinks to trusted industry websites and relevant publications





## BRITISH STANDARD

Figure 10 Minimum dimensions of lobbies with single leaf doors  
Dimensions in millimetres



An example British Standard publication on inclusive design is shown

## nbs Guidance

### 7 Inclusive design

Considerations are given in guidance to the Building Regulations which cover access for all, or access for disabled persons. See:

- E&W [Approved Document M](#)
- IRL Technical Guidance Document M.
- NI [Technical Booklet R](#)
- Scot Technical Handbook, Domestic, [Section 4](#); Non domestic, [Section 4](#)

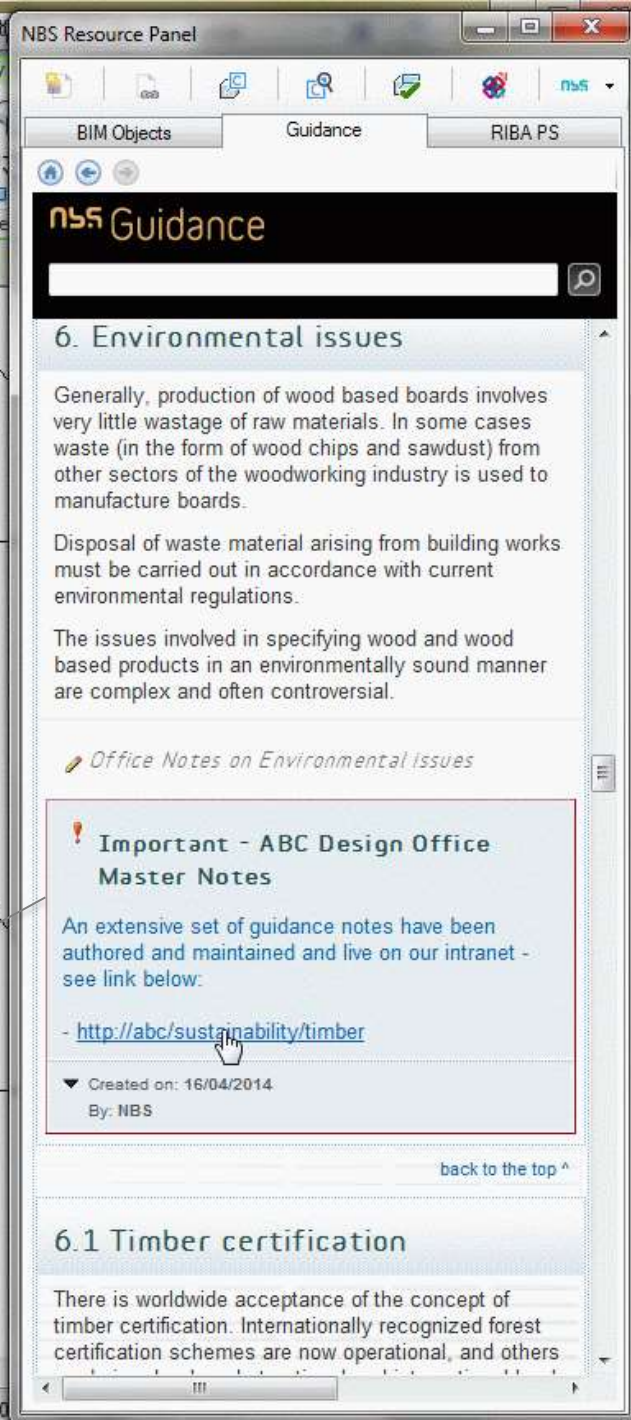
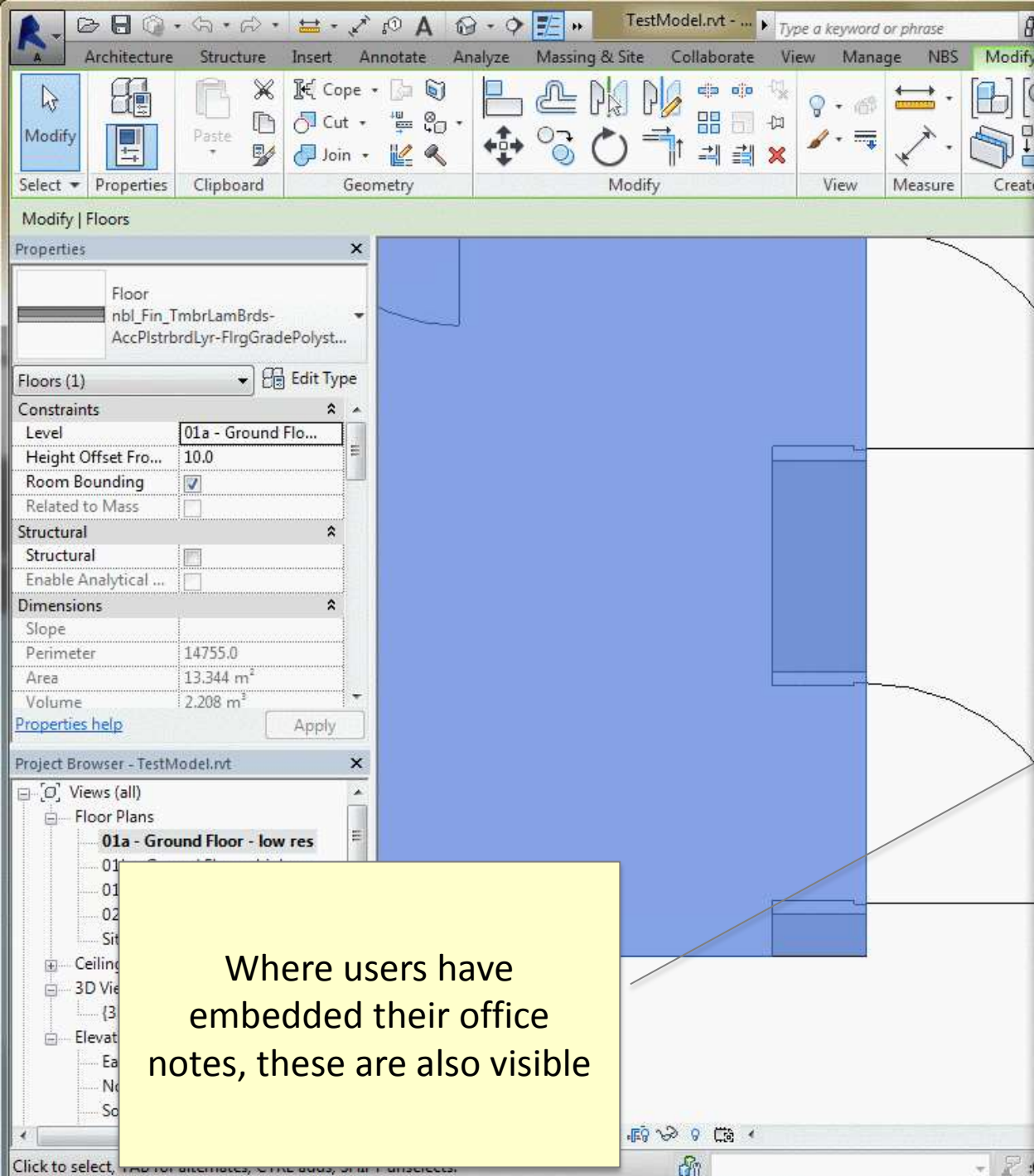
See [BS 8300](#), section 6 for recommendations relating to doors and inclusive access. Guidance covers arrangement and dimensions of doorways, including side clearance, ease of operation, threshold

differentiation of the door, door fittings.

and within buildings for consideration for disabled people. Individuals may be seen:

for fire safety in the of buildings', disabled people'

- DCLG publication ['Fire safety risk assessment - supplementary guide - means of escape for disabled people'](#)

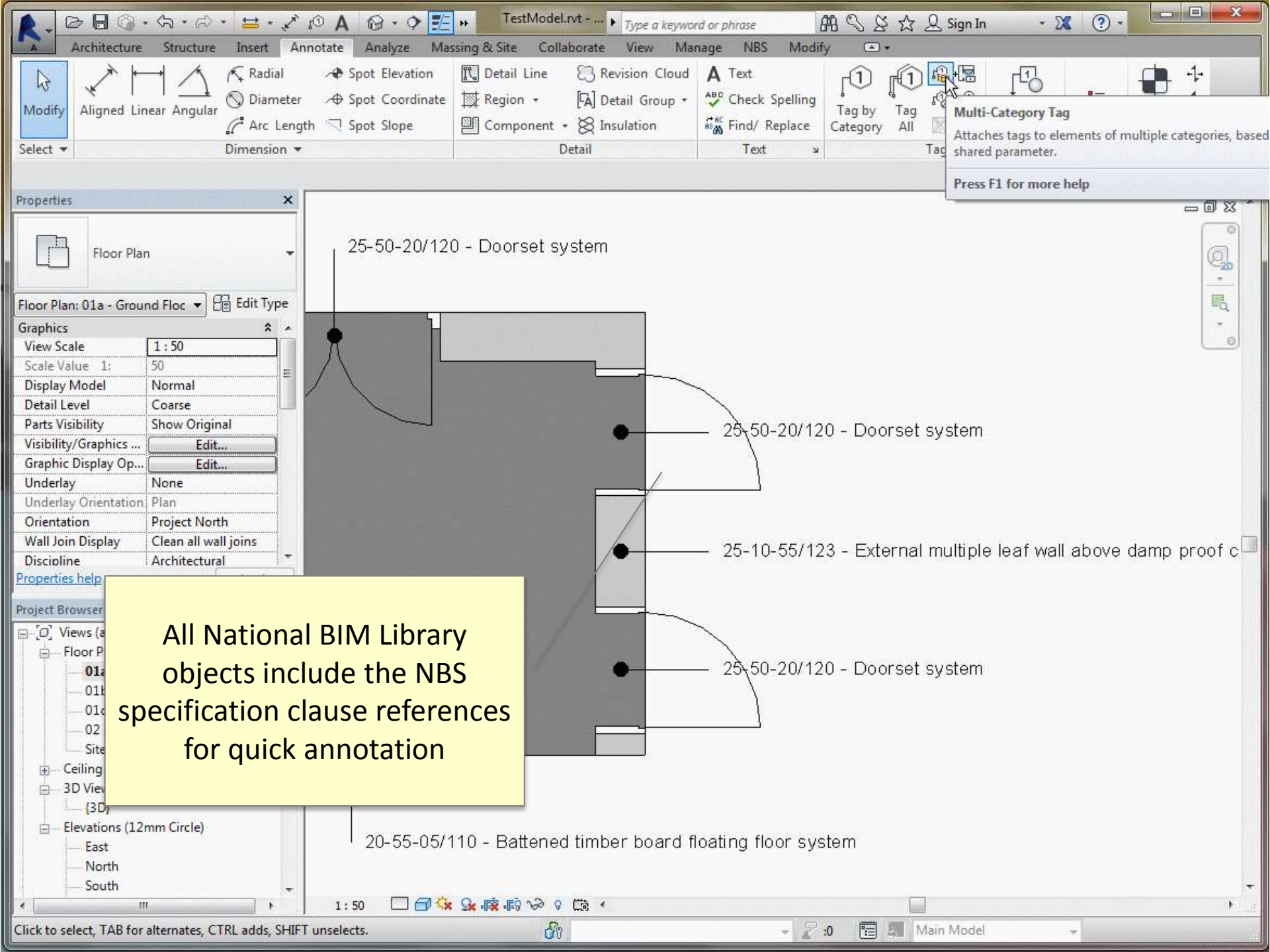




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## 3. Linking the specification and the model

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Architecture Structure Insert Annotate Analyze Massing & Site Collaborate View Manage NBS Modify

Modify Select Dimension Detail Text Tag

Aligned Linear Angular Radial Spot Elevation Spot Coordinate Arc Length Spot Slope Detail Line Region Component Revision Cloud Detail Group Insulation Check Spelling Find/ Replace

Tag by Category Tag All

**Multi-Category Tag**  
Attaches tags to elements of multiple categories, based on shared parameter.  
Press F1 for more help

**Properties**

Floor Plan

Floor Plan: 01a - Ground Floor Edit Type

**Graphics**

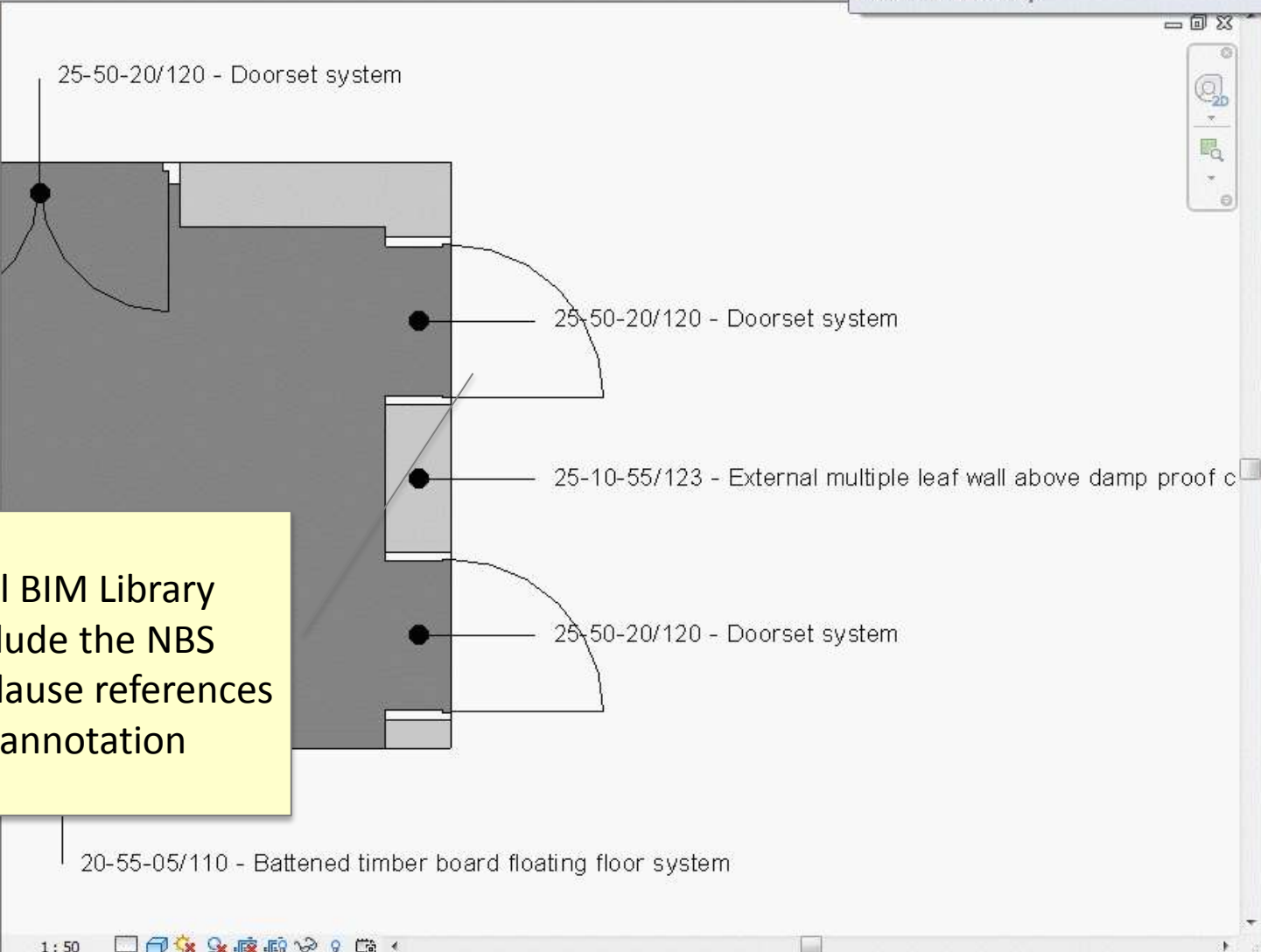
View Scale	1 : 50
Scale Value 1:	50
Display Model	Normal
Detail Level	Coarse
Parts Visibility	Show Original
Visibility/Graphics ...	Edit...
Graphic Display Op...	Edit...
Underlay	None
Underlay Orientation	Plan
Orientation	Project North
Wall Join Display	Clean all wall joins
Discipline	Architectural

[Properties help](#)

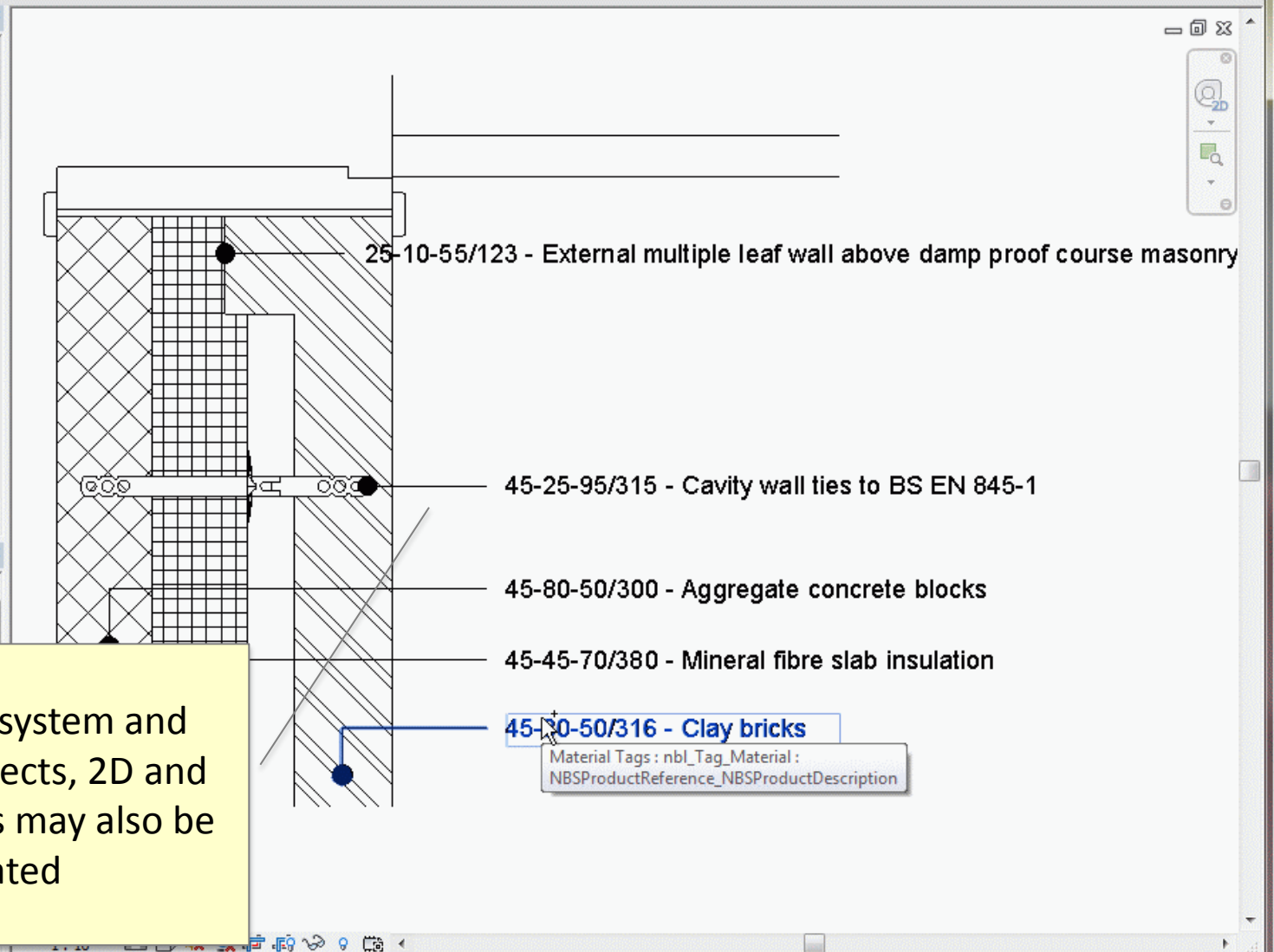
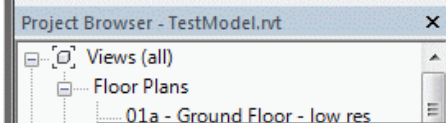
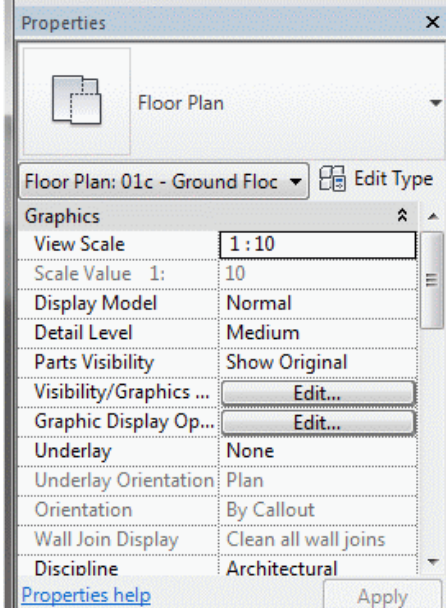
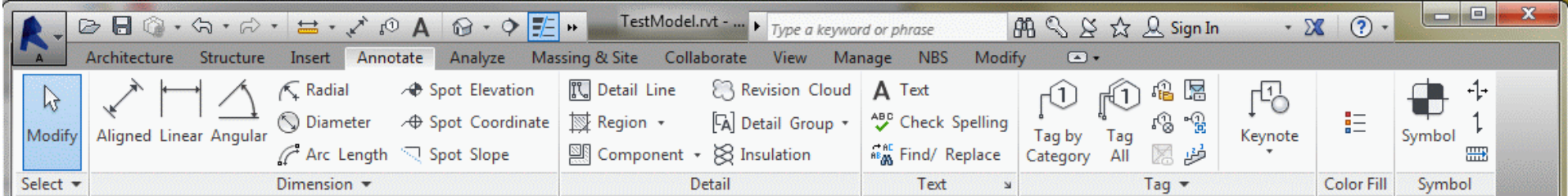
**Project Browser**

- Views (a)
- Floor Plan
  - 01a - Ground Floor
  - 01b - First Floor
  - 01c - Second Floor
  - 02 - Site
- Ceiling
- 3D View
  - (3D)
- Elevations (12mm Circle)
  - East
  - North
  - South

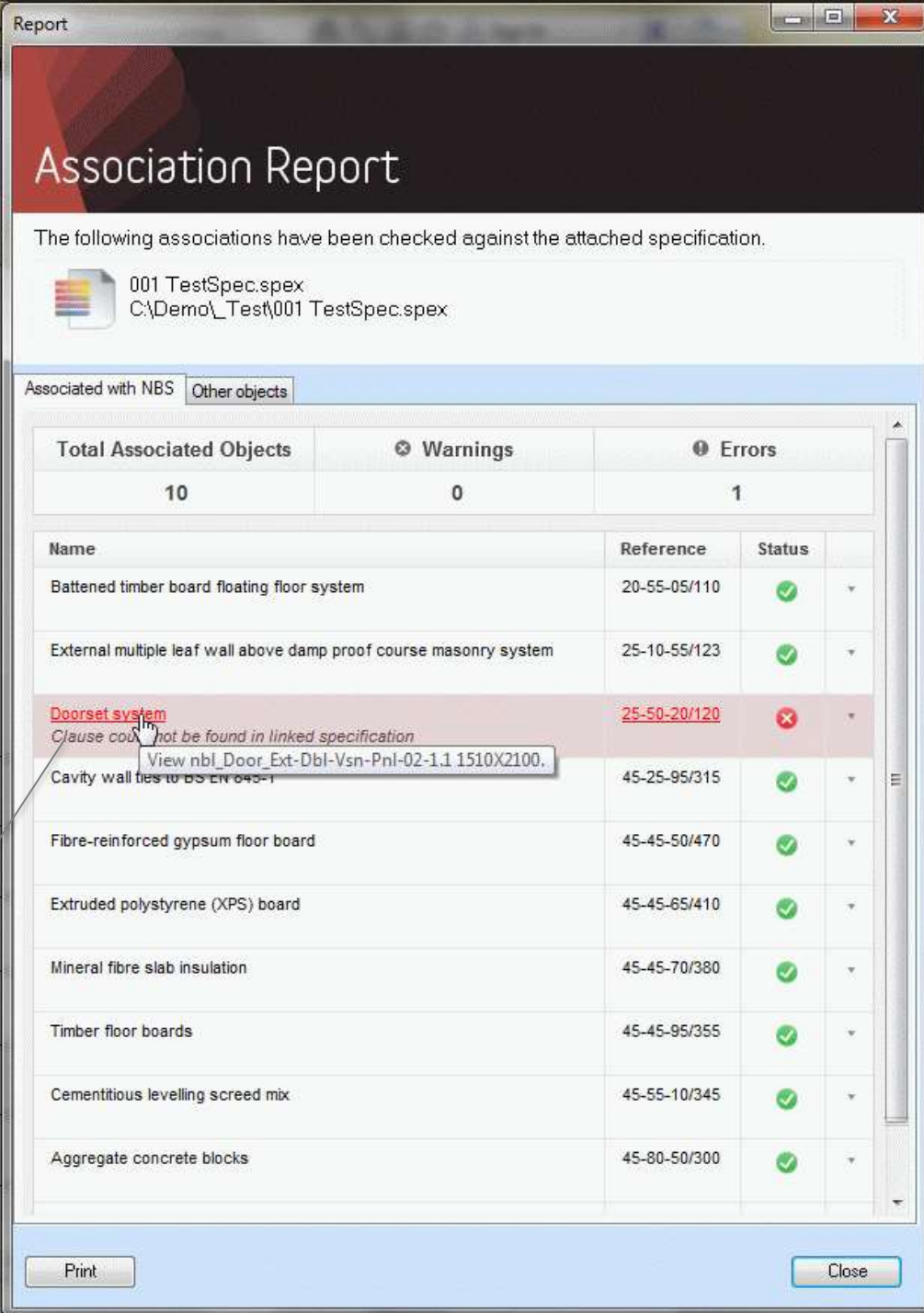
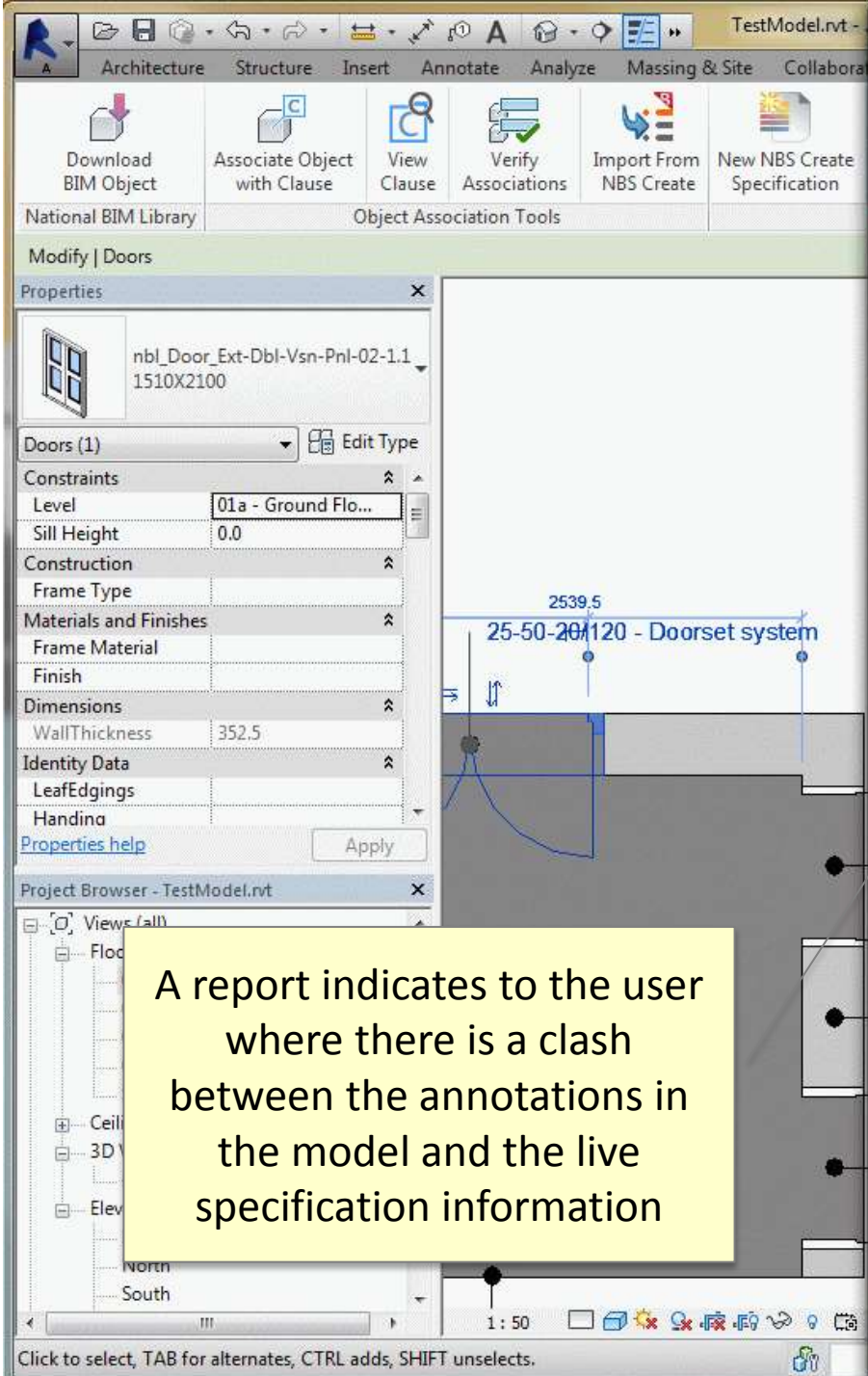
All National BIM Library objects include the NBS specification clause references for quick annotation



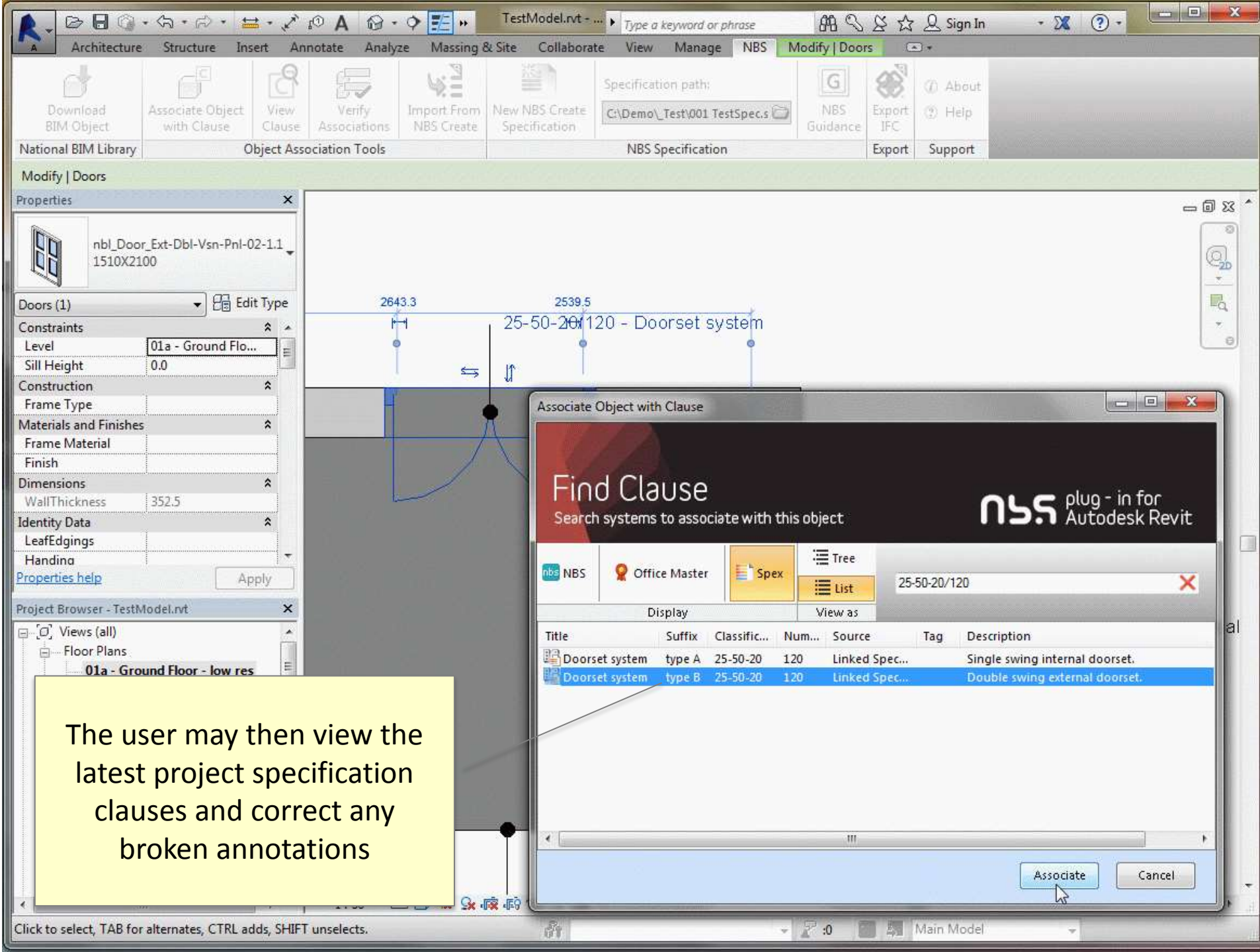


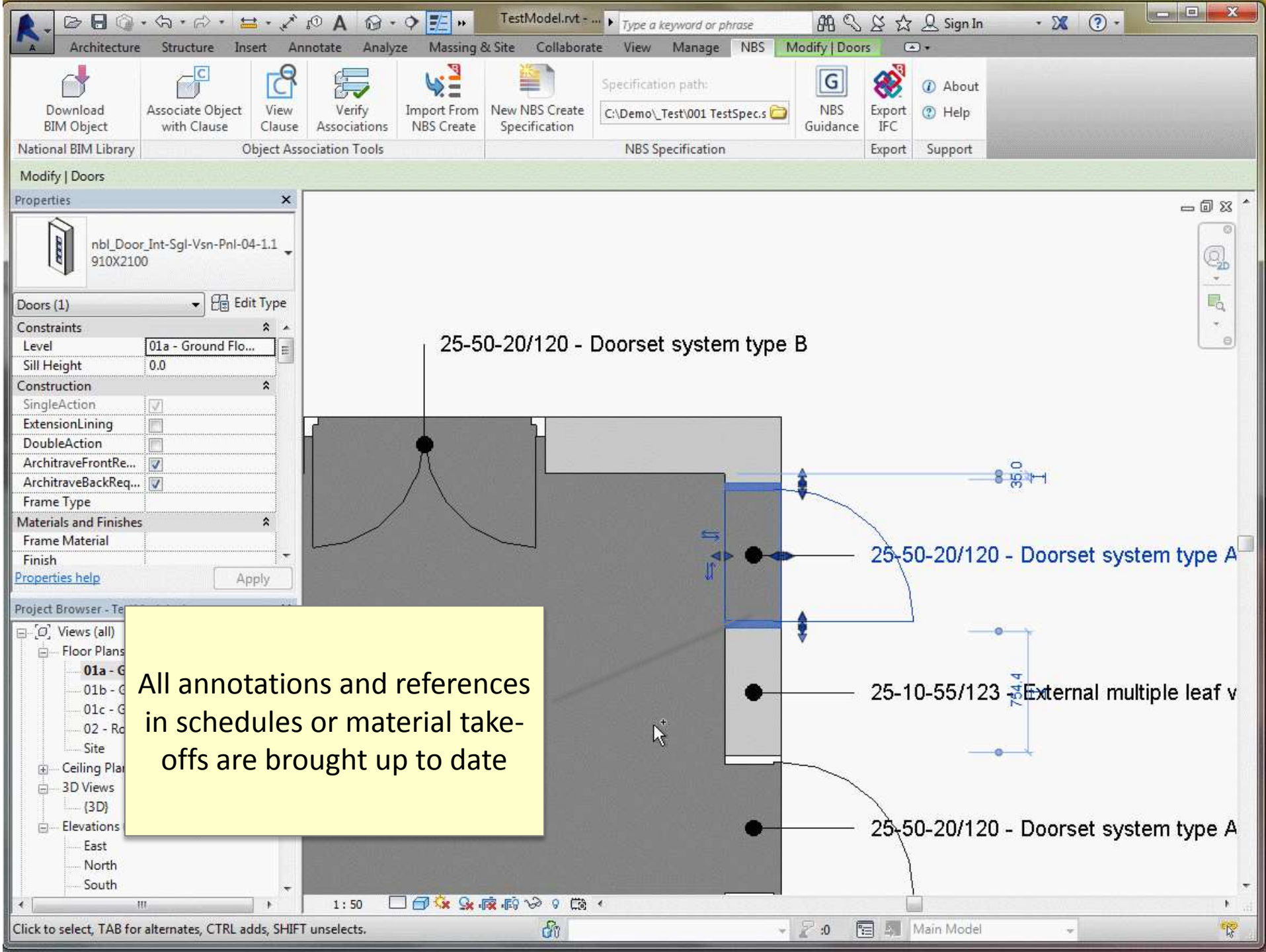


In addition to system and component objects, 2D and material objects may also be annotated











# Find Clause

Search systems to associate with this object

nbs plug - in for Autodesk® Revit®

NBS Office Master Spex

Tree List 25-50-20/120

Title	Suffix	Classif...	N...	Sou...	T.	Description
Doorset system	type A	25-50-20	120	Link...		Internal fire doors to utility rooms (D20, D30).
Doorset system	type B	25-50-20	120	Link...		Internal double swing doors to Kitchen (D28, D29).
Doorset system	type C	25-50-20	120	Link...		Internal doors to Restaurant Toilets (D21, D22, D23).
Doorset system	type D	25-50-20	120	Link...		Internal doors to Kitchen (D24, D26).
Doorset system	type E	25-50-20	120	Link...		External doors to public entrances (D9, D10, D11, D12, D13).
Doorset system	type F	25-50-20	120	Link...		Internal door to kitchen store (D27).

Associate Cancel

Frame Type

DoorDetailHead

DoorDetailJamb

Properties help Apply

Project Browser - SimpleRestaurant.rvt

- Views (By Type)
  - Architectural
    - Floor Plans
    - Ceiling Plans
    - 3D Views
      - Accessible washroom
      - Accessible washroom**
      - Building exterior from
      - Building exterior from
      - Building section
      - External terrace
      - Main dining interior
      - Typical 3D wall section
      - Washroom
      - (3D)
  - Elevations (Building Eleva

Revit Interface

Manage Add-Ins NBS Modify | Doors

Measure Create Mode Host

45-35-70/407 - Accessible WC Doc

35-70-70/134 - WC assembly

45-35-72/366 - Toilet paper bulk disp

35-70-70/124B - Wash basin assembl

45-35-72/334 - Hand driers type A

20-55-35/140 - Internal floor tiling sys

25-50-20/120 - Doorset system type

Walls : Basic Wall : nbl\_Int\_PlstrGyp-Blck140-PlstrGyp\_TYPE A

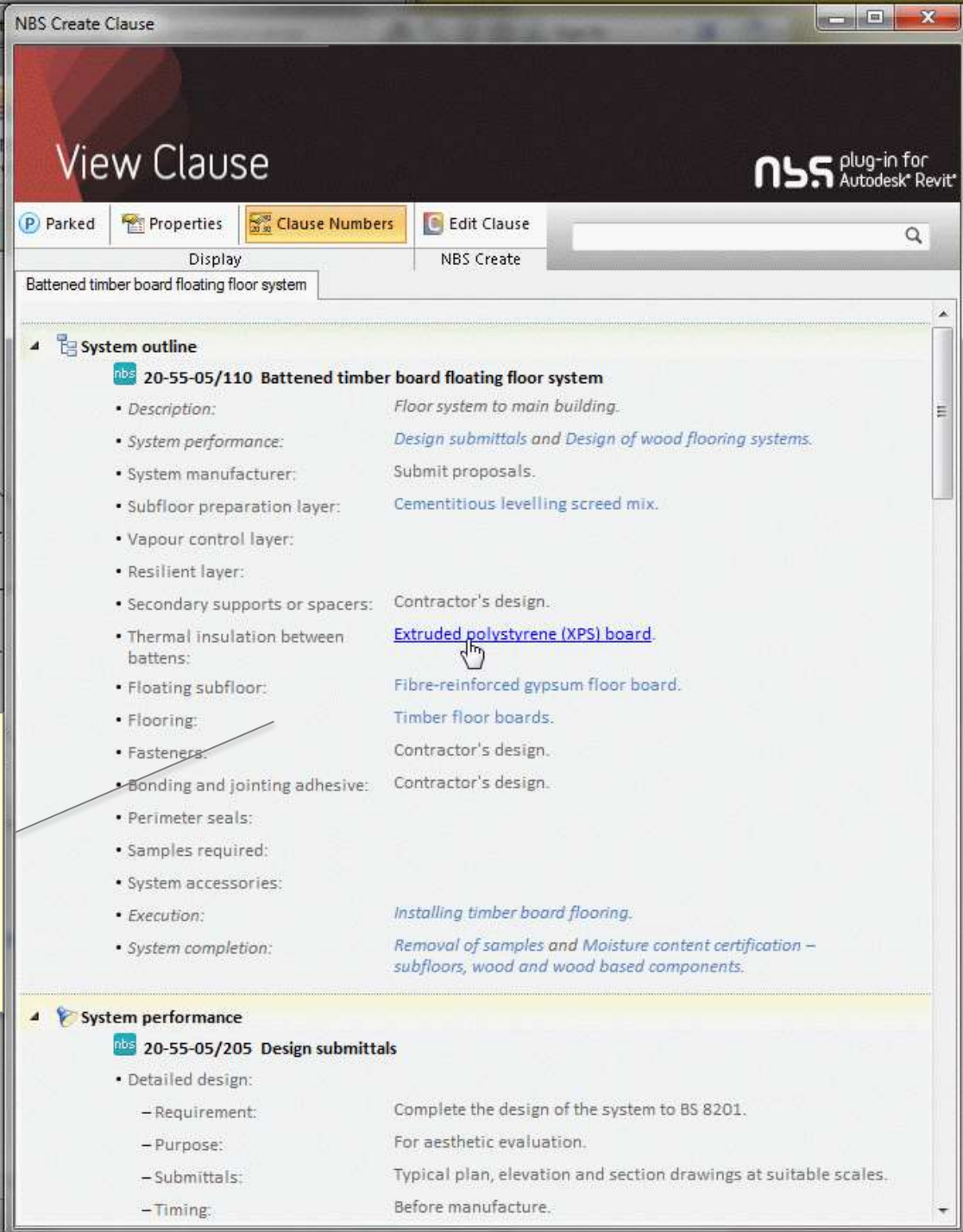
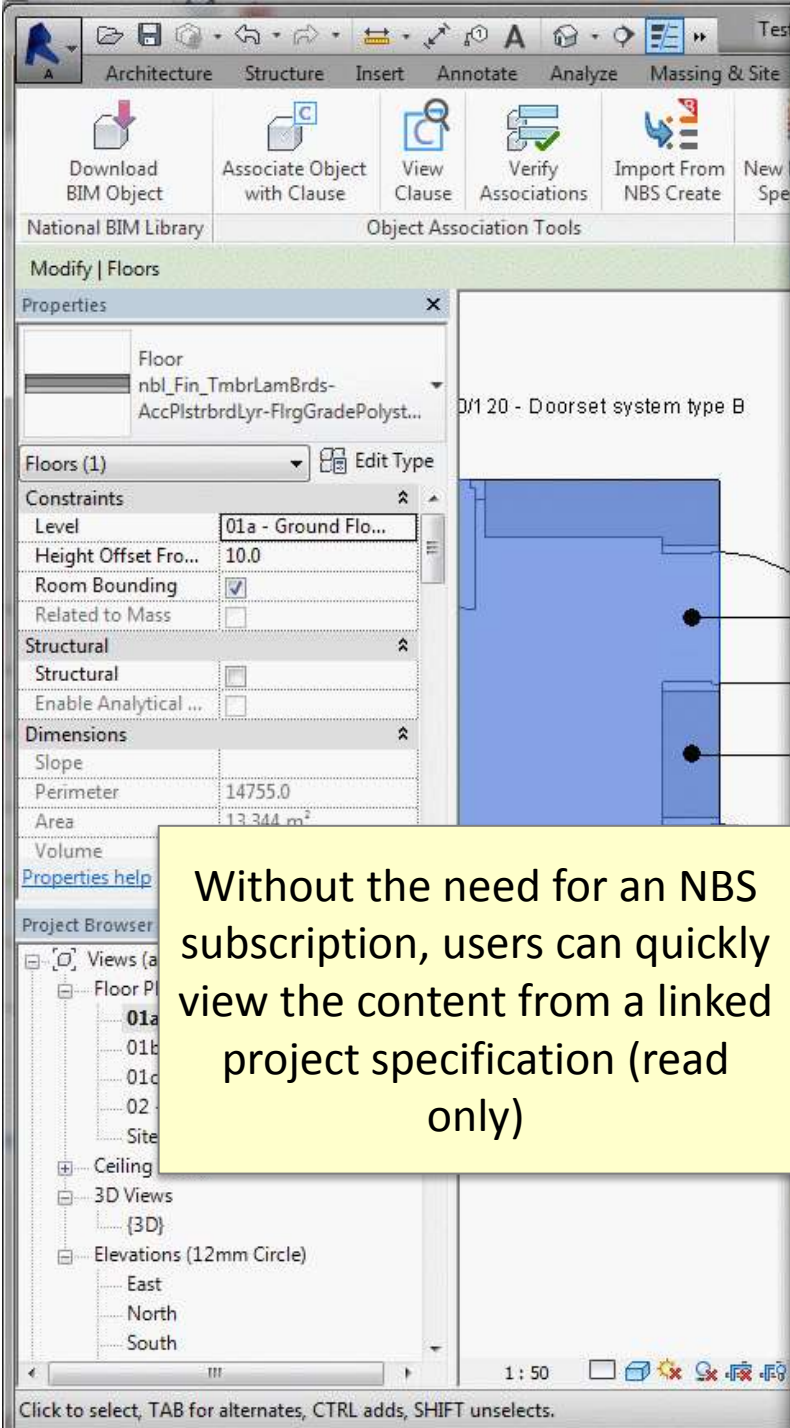
Main Model

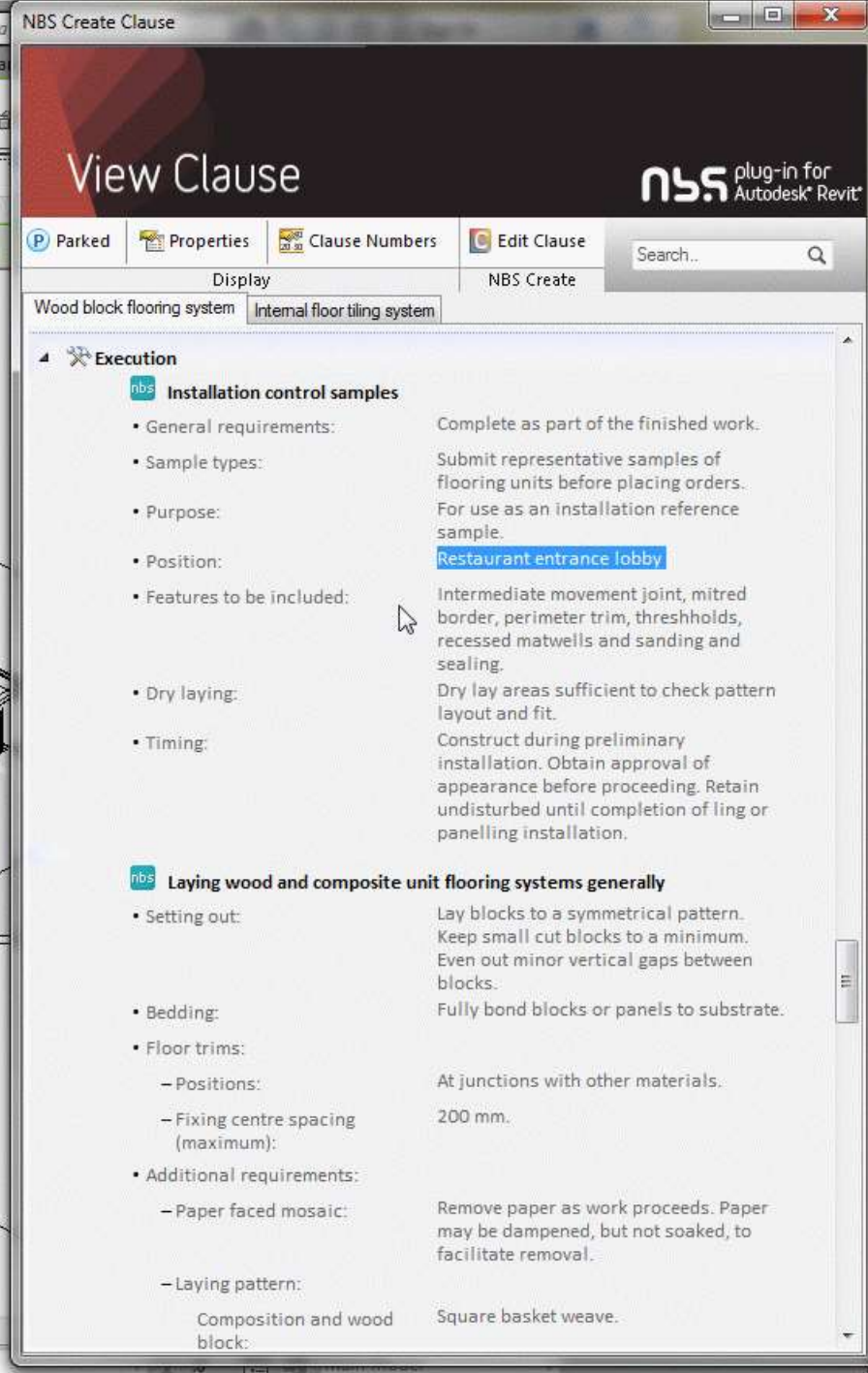
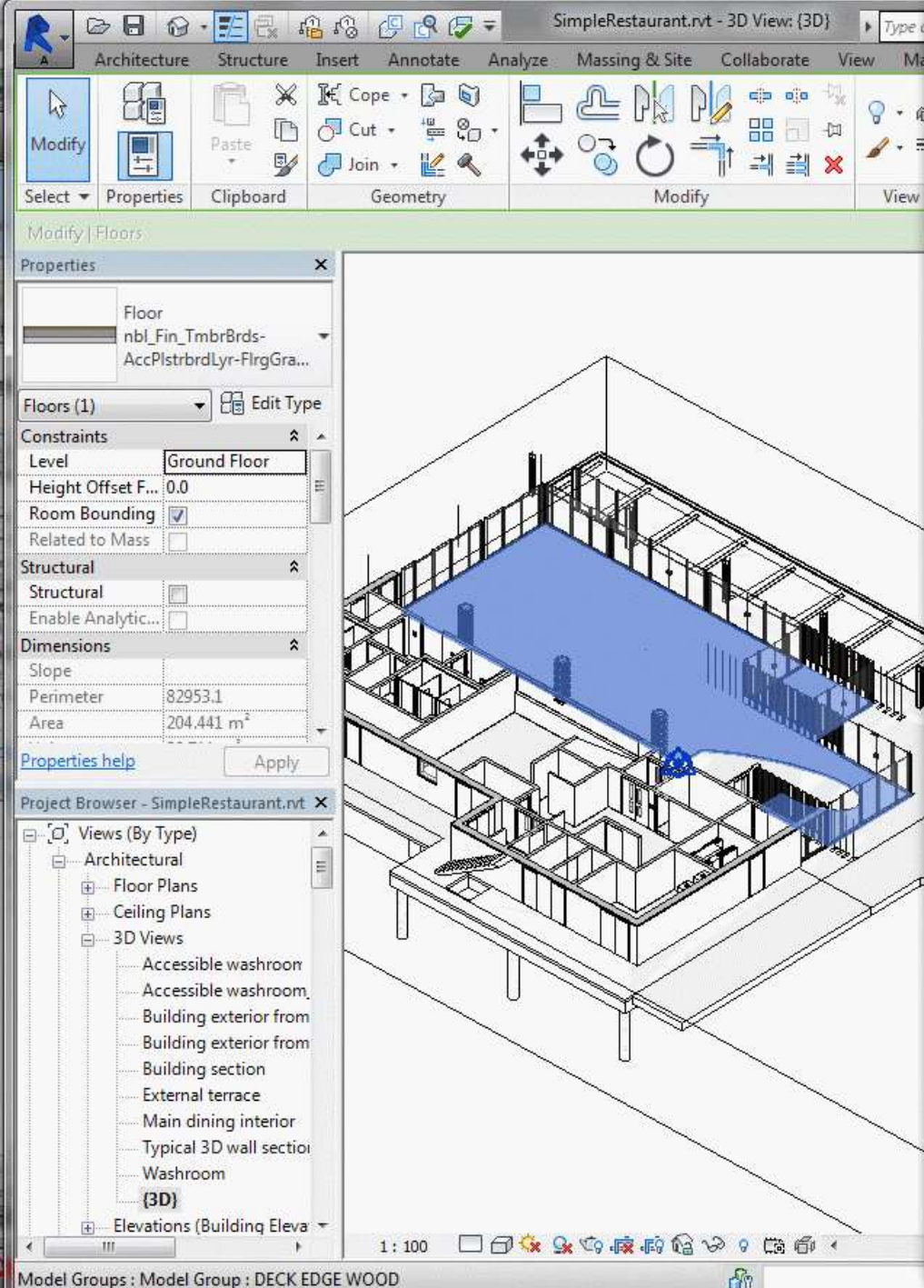
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## 4. Viewing the specification from the model

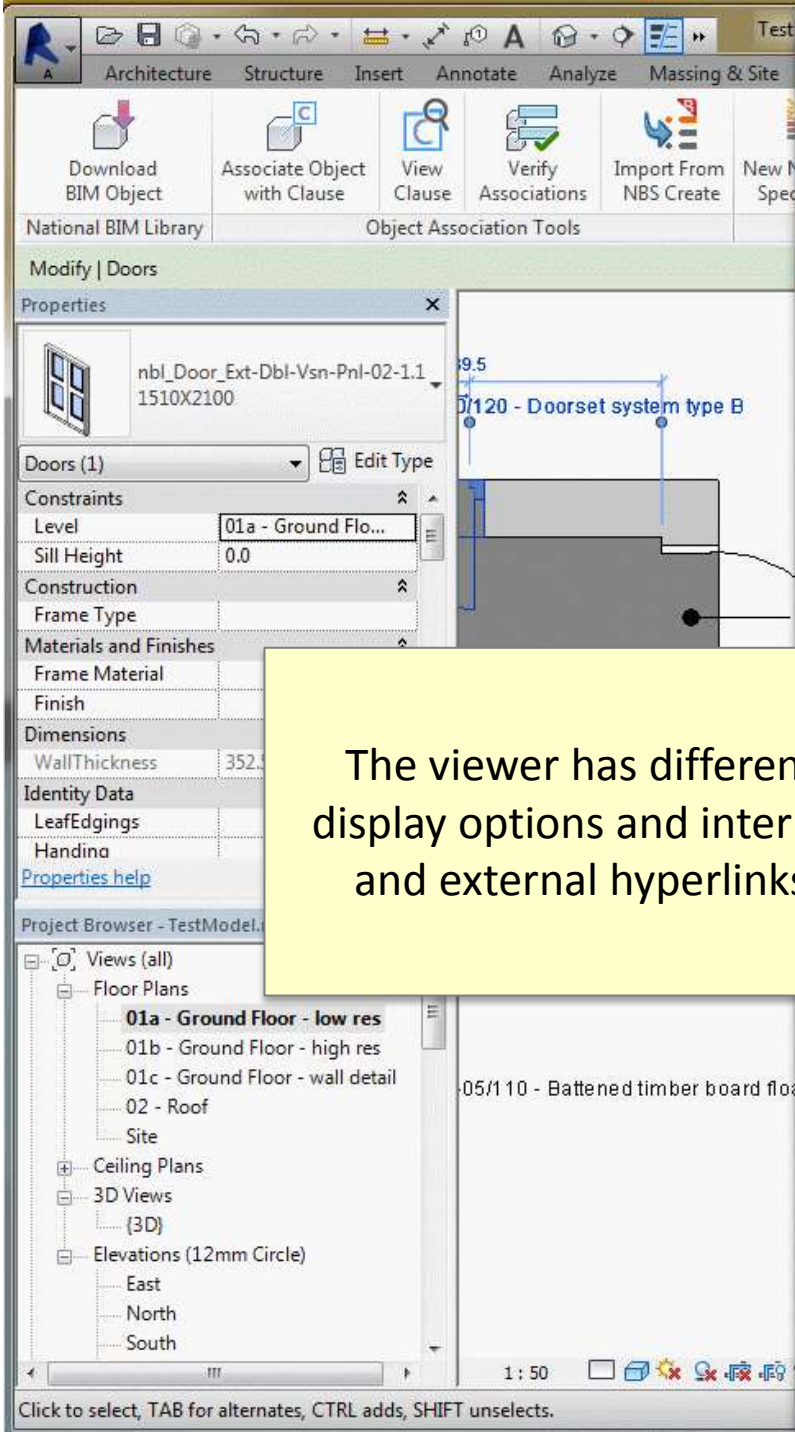
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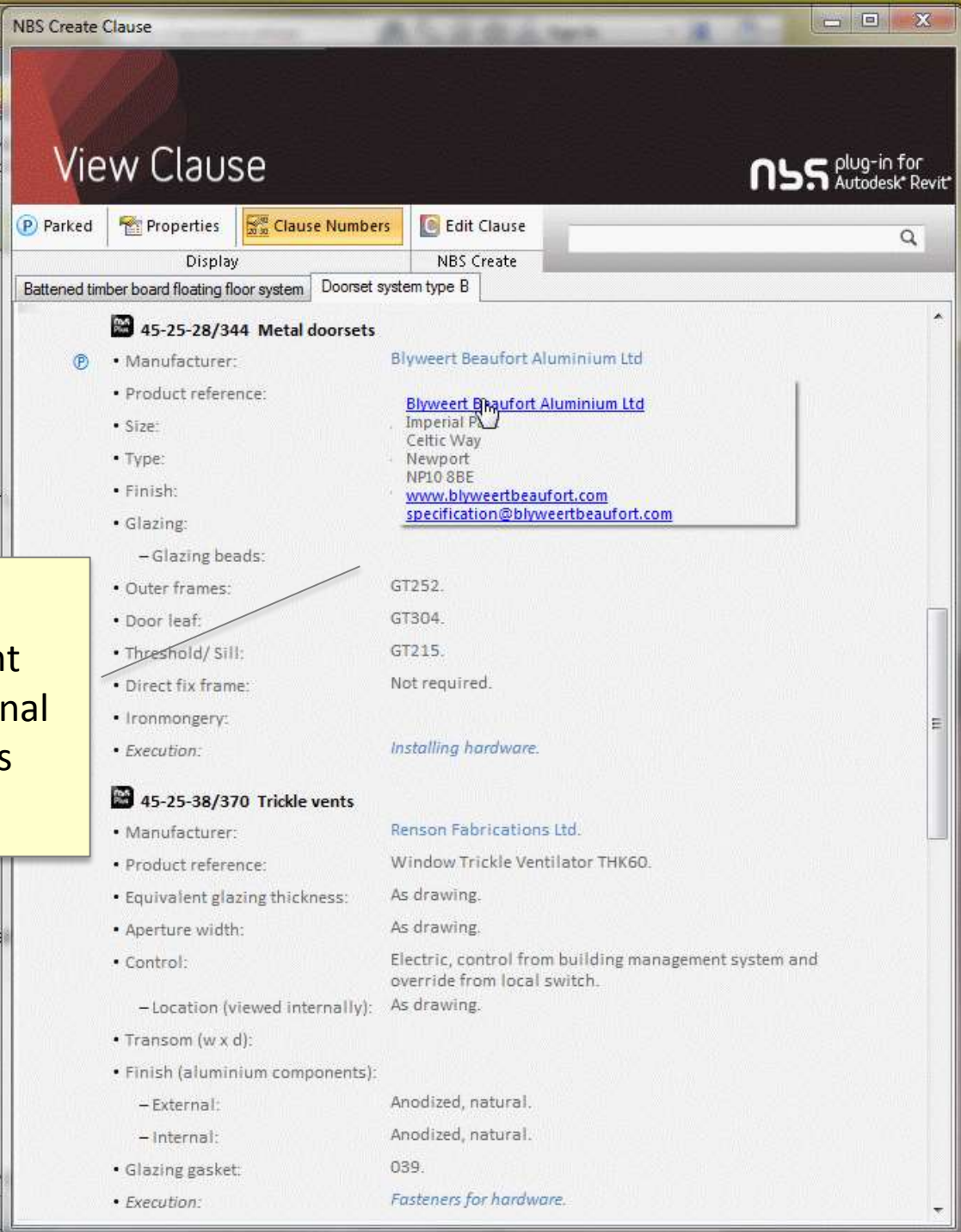


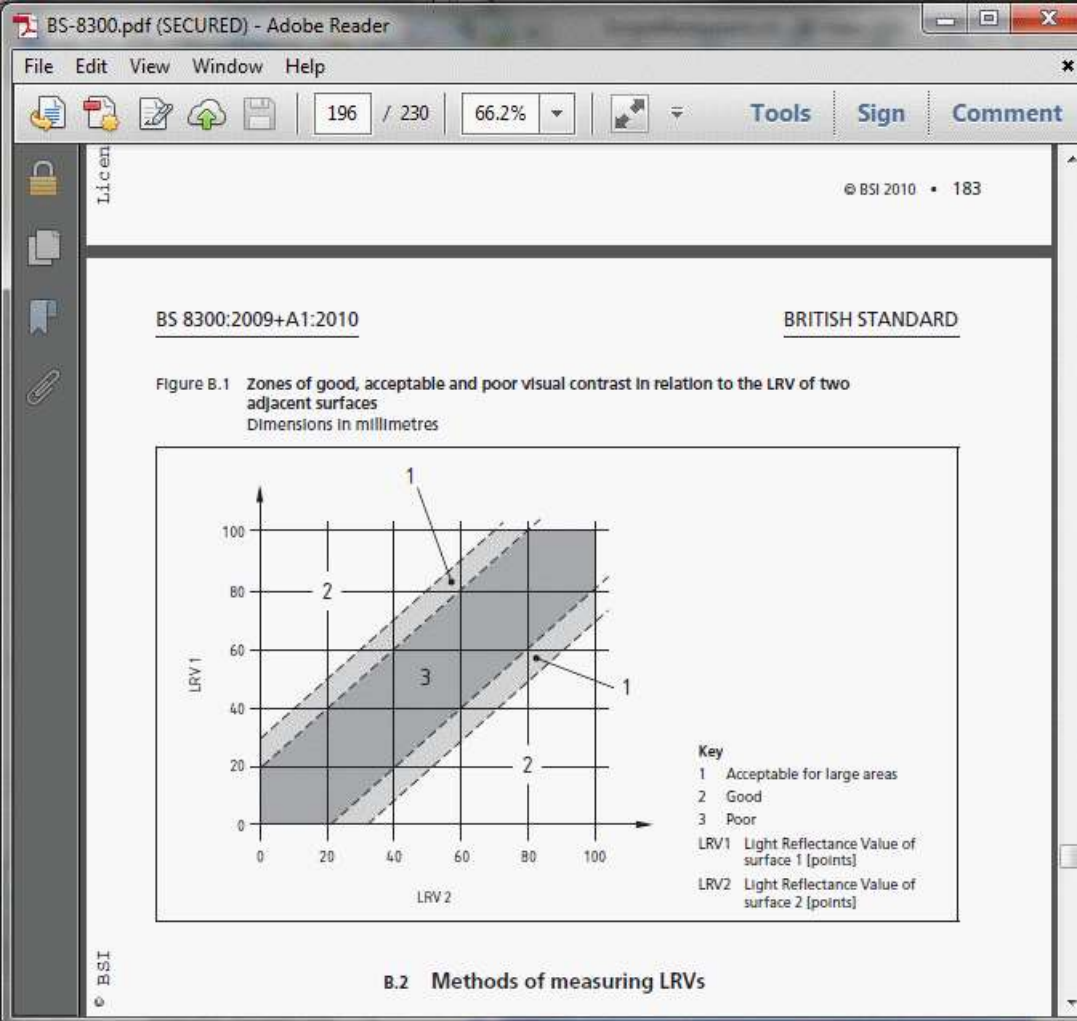






The viewer has different display options and internal and external hyperlinks





View Clause

nbs plug-in for Autodesk Revit

Properties Clause Numbers Edit Clause Search..

Display NBS Create

block flooring system

- Level surfaces: To BS 7976-2, PTV of 45.
- Demonstrating performance:

**nbs 20-55-90/260 Visual contrast of wood and composite unit flooring systems**

- Standard: In accordance with BS 8300.
- Visual contrast:
  - Level surfaces vs wall: In accordance with BS 8493, LRV contrast of 20 points.
  - Skirtings: As wall surface.
- Use of adhesive tapes to provide visual contrast: Not permitted.

**Products**

**nbs 20-55-90/305 Product samples**

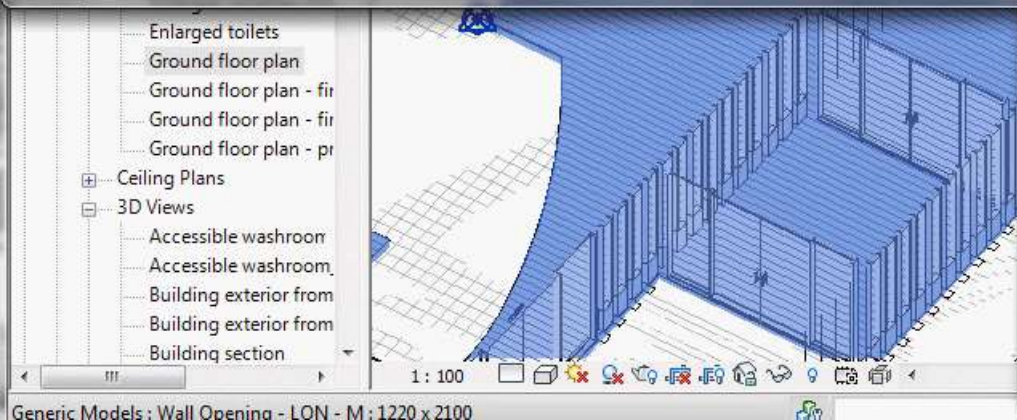
- Submittals: Wood block.
- Purpose: For use as a reference sample.
- Labelling: Clearly label all submitted samples.
- Timing: Before ordering for project.

**nbs 45-20-35/320 Construction joint trims**

- Manufacturer: Submit proposals.
- Material: Stainless steel.
- Finish: Satin.
- Colour: Natural
- Width: 50 mm.
- Thickness: 2 mm.

**nbs 45-20-35/340 Floor edge trims**

- Manufacturer: Submit proposals.
- Profile: Manufacturer's standard.
- Material: Stainless steel.
- Finish: Satin.

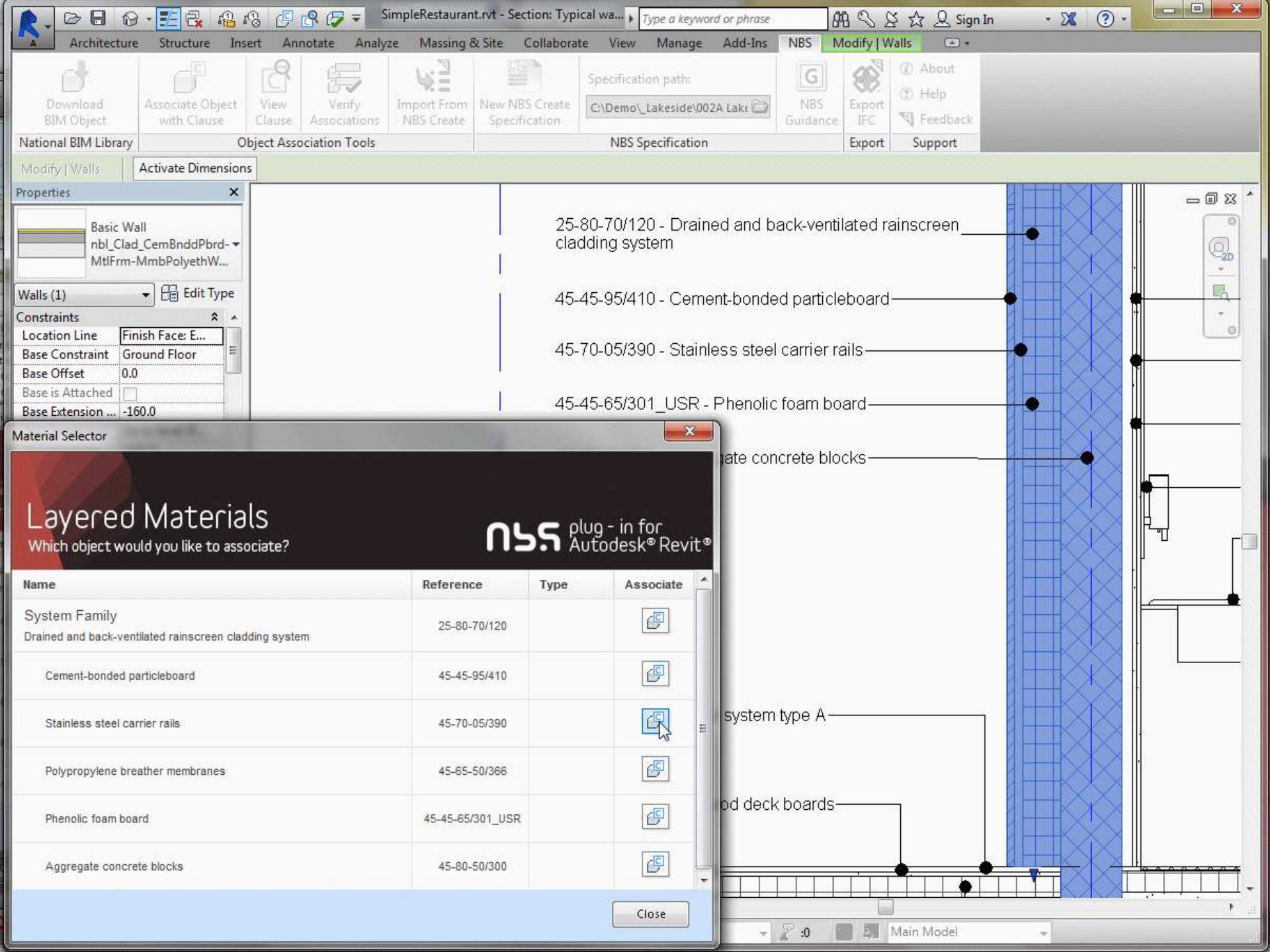




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## 5. Coordinating the linked project information

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Properties

Basic Wall  
nbl\_Clad\_CemBnddPbrd-  
MtlFrm-MmbPolyethW...

Walls (1) Edit Type

Constraints

Location Line	Finish Face: E...
Base Constraint	Ground Floor
Base Offset	0.0
Base is Attached	<input type="checkbox"/>
Base Extension ...	-160.0

- 25-80-70/120 - Drained and back-ventilated rainscreen cladding system
- 45-45-95/410 - Cement-bonded particleboard
- 45-70-05/390 - Stainless steel carrier rails
- 45-45-65/301\_USR - Phenolic foam board

Material Selector

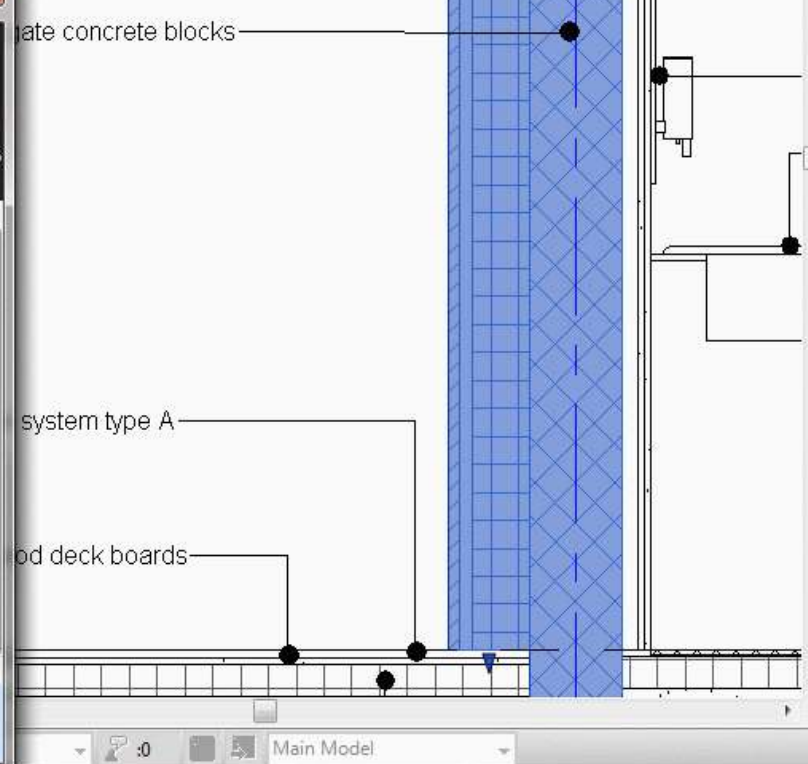
Layered Materials

Which object would you like to associate?

nbs plug - in for Autodesk® Revit®

Name	Reference	Type	Associate
System Family Drained and back-ventilated rainscreen cladding system	25-80-70/120		
Cement-bonded particleboard	45-45-95/410		
Stainless steel carrier rails	45-70-05/390		
Polypropylene breather membranes	45-65-50/366		
Phenolic foam board	45-45-65/301_USR		
Aggregate concrete blocks	45-80-50/300		

Close





File Home Insert Review Office Master Update View Manage

New Job Job Wizard Open Job Performance Full Job Details Outline

Job Stage Open Clipboard Format Remove

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Job details Contents

Resources

All resource

50 Disposal systems

55 Piped supply systems

60 Mechanical heating, cooling and refriger

65 Ventilation and air conditioning systems

70 Electrical systems

75 Communications, security, safety and pro

80 Transport systems

90 Services engineering products

External multiple leaf wall above damp proof course masonry system

Mortar bedding:

Full fill cavity insulation: Mineral fibre slab insulation.

Partial fill cavity insulation:

Cavity closers:

Built in lateral restraint straps:

Movement joints:

Joint type:

Joint components:

Flue:

Accessories:

Intermediate leaf:

Support:

Material:

Mortar bedding:

Movement joints:

Joint type:

Joint components:

NBS Guidance

Search NBS Guidance

Full fill cavity insulation

general guidance 8.

S values

Expanded polystyrene (EPS) board

Extruded polyethylene foam board

Extruded polystyrene (XPS) board

Flexible glass wool mat insulation

Mineral fibre slab insulation

Phenolic foam board

Polysocyanurate (PIR) foam board

Polyurethane (PUR) foam board

al fill cavity insulation

general guidance 8.

S values

Expanded polystyrene (EPS) board

Extruded polyethylene foam board

Extruded polystyrene (XPS) board

Flexible glass wool mat insulation

Mineral fibre slab insulation

Phenolic foam board

Polysocyanurate (PIR) foam board

Polyurethane (PUR) foam board

OK Cancel

NBS Guidance NBS Plus


Systems: 5 Sections: 0 Up to date

NBS signed in

In the specification the user may modify the type of cavity insulation in the wall

# Association Report

The following associations have been checked against the attached specification.

 001 TestSpec.spex  
C:\Demo\Test\001 TestSpec.spex

Associated with NBS **Other objects**

Total Associated Objects	Warnings	Errors
11	1	1

Name	Reference	Status
Battened timber board floating floor system	20-55-05/110	✓
External multiple leaf wall above damp proof course masonry system	25-10-55/123	✓
Doorset system type B	25-50-20/120	✓
Doorset system type A	25-50-20/120	✓
<b>Cavity wall ties to BS EN 845-1</b> <i>This object has been renamed by NBS</i>	<b>45-25-95/315</b>	⚠
Fibre-reinforced gypsum floor board	45-45-50/470	✓
Extruded polystyrene (XPS) board	45-45-65/410	✓
<b>Mineral fibre slab insulation</b> <i>Clause could not be found in linked specification</i>	<b>45-45-70/380</b>	⚠
Timber floor boards		
Cementitious levelling screed mix		

Print Close

Re-associate

Re-name in model

View in model

View Clause

Go to Clause in NBS Create

Remove association

Word or phrase

Manage NBS Modify | Doors

001 TestSpec.s NBS Guidance Export IFC About Help

Export Support

external multiple leaf wall above damp proof course masonry system

Any coordination problem is then highlighted in Autodesk Revit and the user is guided through the available options

0-50/300 - Aggregate concrete blocks

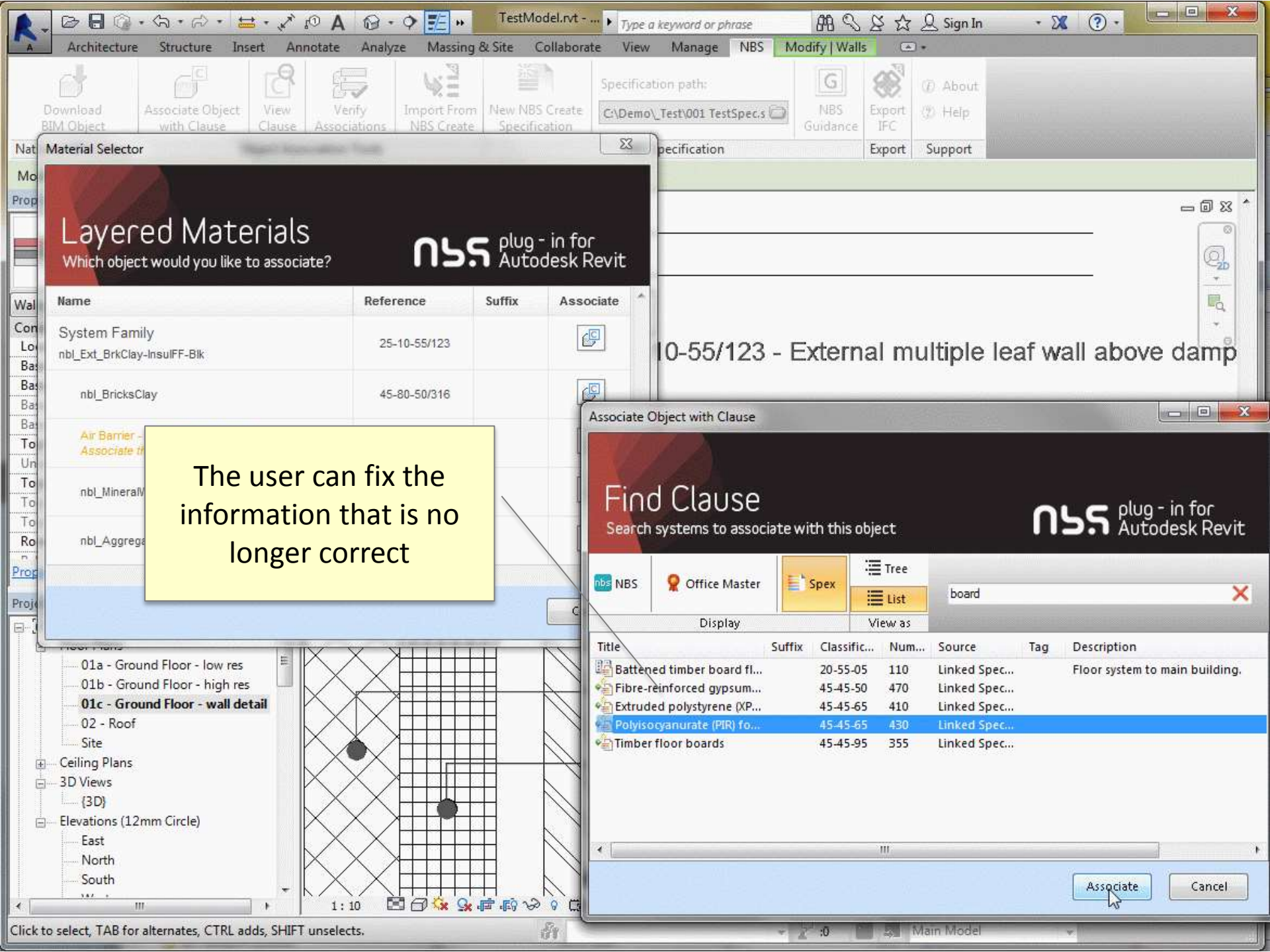
5-70/380 - Mineral fibre slab insulation

0-50/316 - Clay bricks

Choose a association for this element.

Main Model





SimpleRestaurant.rvt - Floor Plan: Ground

Architecture Structure Insert Annotate Analyze Massing & Site Collaborate

Modify Select Properties Clipboard Geometry Modify

Modify | Floors

Properties

Floor  
nbl\_Fin\_TmbrBrds-  
AccPlstrbrdLyr-FlrgGra...

Floors (1) Edit Type

Level Ground Floor  
Height Offset F... 0.0  
Room Bounding ☒  
Related to Mass ☐

Structural  
Structural ☐  
Enable Analytic... ☐

Dimensions  
Slope  
Perimeter 82953.1  
Area 204.441 m<sup>2</sup>  
Volume 32.711 m<sup>3</sup>

[Properties help](#) Apply

Project Browser - SimpleRestaurant.rvt

Views (By Type)

Architectural

Floor Plans

Enlarged disabled toilet  
Enlarged toilets  
Ground floor plan  
**Ground floor plan - f**  
Ground floor plan - fir  
Ground floor plan - pr

Ceiling Plans

3D Views

Accessible washroom  
Accessible washroom  
Building exterior from  
Building exterior from  
Building section

1: 100

Floors : Floor : nbl\_Sprng\_TmbrBrds-BttnsTmbrResilientFlr

Association Report

002A Lakeside restaurant.spex  
C:\Demo\Lakeside\002A Lakeside restaurant.spex

Associated with NBS Other objects

Total Associated Objects	Warnings	Errors
52	0	0

Name	Reference	Status
Board suspended ceiling system	20-10-10/110	✓
Unit suspended ceiling system type C	20-10-20/190	✓
Unit suspended ceiling system type A	20-10-20/190	✓
Unit suspended ceiling system type B	20-10-20/190	✓
Deck system type A	20-15-25/125	✓
Deck system type B	20-15-25/125	✓
Single layer warm roof covering system	20-50-30/170	✓
Internal floor tiling system	20-55-35/140	✓
Resilient sheet flooring system	20-55-75/165	✓
Wood block flooring system	20-55-90/195	✓
Panel cubicle system	25-05-60/160	✓

Print Close





File Home Insert Review Office Master Update View Manage



Contents

Title Suffix Classification Number Last Modified

Title	Suffix	Classification	Number	Last Modified

Job details Contents

Resources

wc assemb

Title	Type	Classific...	Number	Last Mo...	Owner
Squatting WC assembly	Syst...	35-70-70	136	15/06/20...	nbs
Waterless WC assembly	Syst...	35-70-70	138	15/06/20...	nbs
WC assembly	Syst...	35-70-70	134	15/06/20...	nbs
WC assembly - HAMILHOUSE;	Syst...	35-70-70	134	16/04/20...	nbs

Add system to my job  
Add to Office Master  
Open Office Master  
Remove from Office Master  
Filter clause types

Users can author and maintain Office Master specification content in their own NBS Create library

This can be used to pre-populate areas of specification or to save commonly used clauses. Office Masters can also be associated with objects.

NBS Guidance

Search NBS Guidance

35 - 70 - 70

flush pipe. These may be exposed in economy specifications or when providing new cisterns for existing WC pans, or concealed, e.g. in preplumbed panel systems.

- Back to wall WC pans, usually only used with concealed cisterns, further improve appearance by concealing the outlet connections. Wall hung WC pans have the added advantage of leaving the floor clear for ease of cleaning. Pans for attachment to cubicles should be either the back to wall or

WCs situated in small rooms, such as bedrooms, may cause an unacceptable appearance.

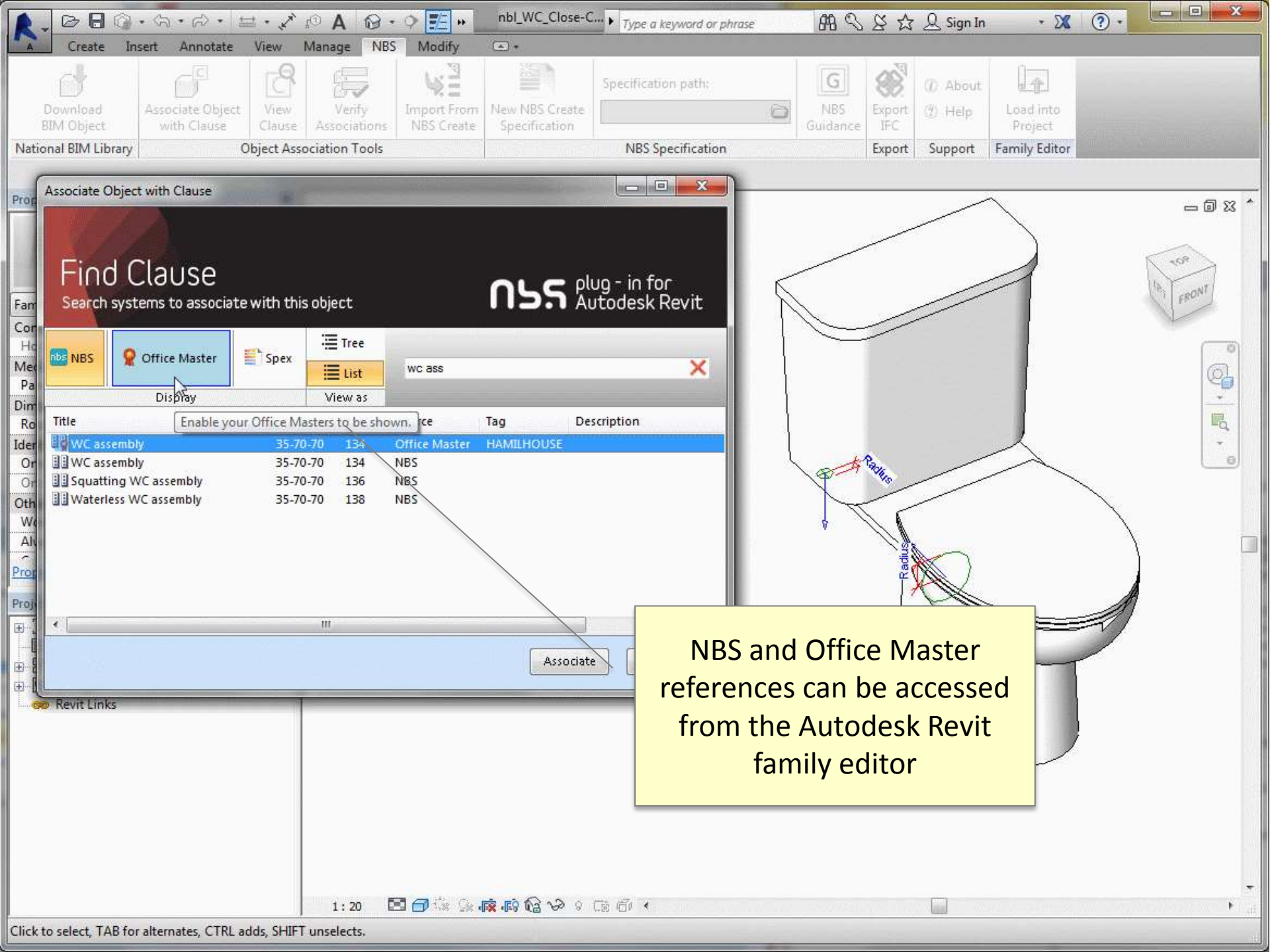
For health and safety reasons, the following descriptions in HBN 00-

WC assembly users requires:

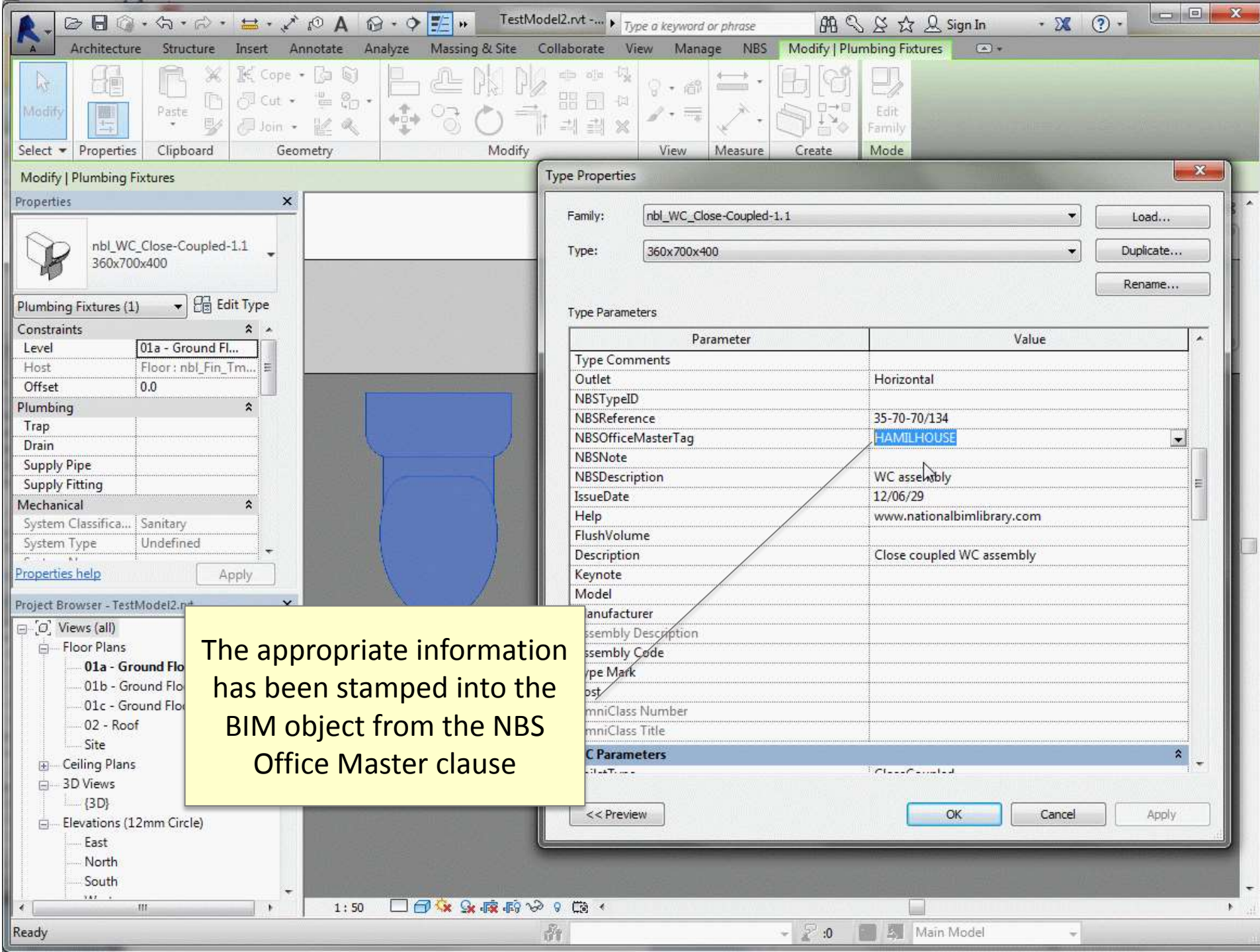
- Hospital WC HD.

NBS Guidance NBS Plus





NBS and Office Master references can be accessed from the Autodesk Revit family editor

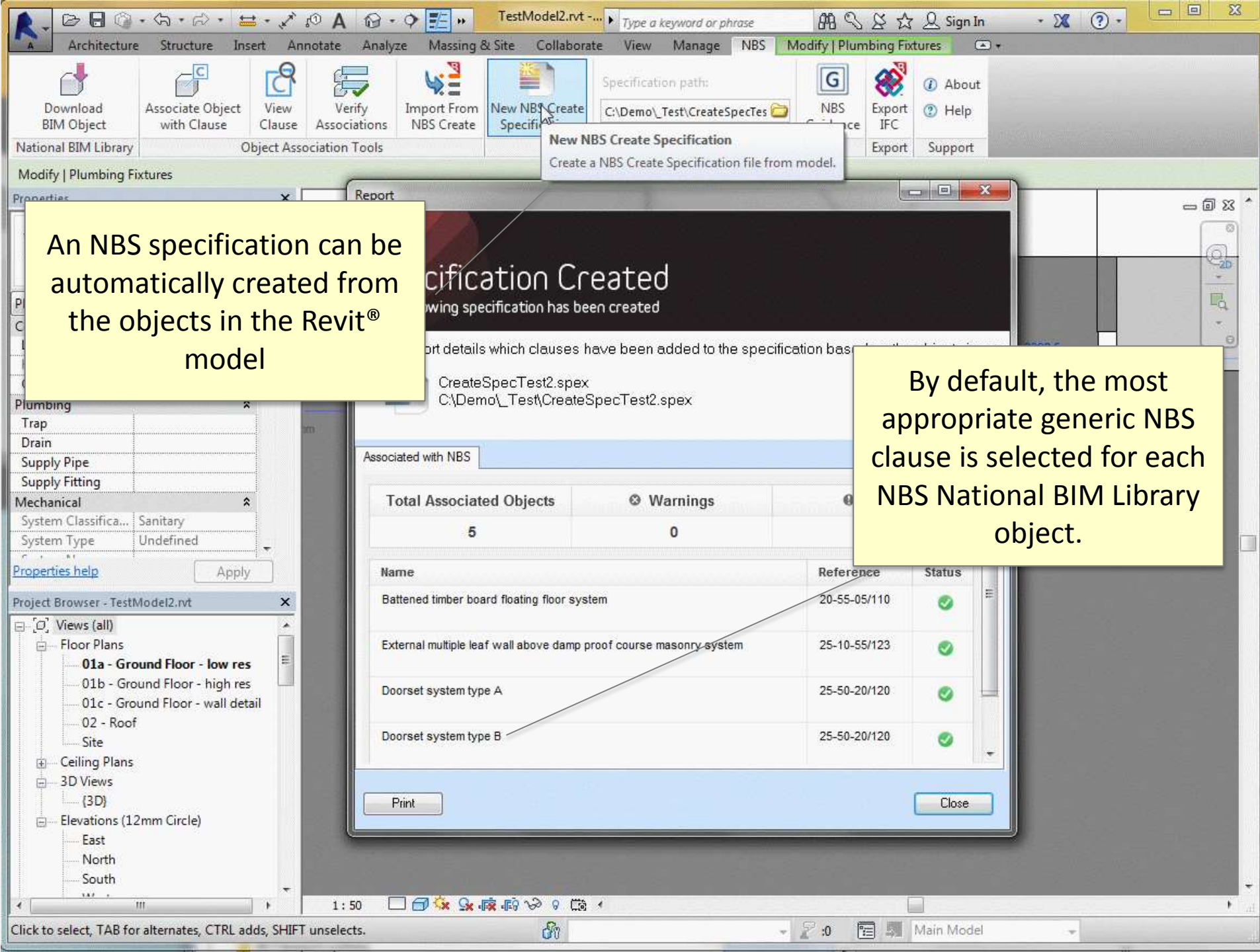




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## 7. Generating specifications from the model

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File Home Insert Review Office Master Update View Manage

New Job Job Wizard Open Job Job Stage Performance Full Job Details Outline Open Clipboard Format Remove

Contents

Title

- Battened timber b
- External multiple
- Doorset system
- Doorset system
- WC assembly

Resources

All resources

- 05 District
- 10 Prepar
- 15 Genera
- 20 Roof, fl
- 25 Wall ar
- 30 Stair, r
- 35 FF&E a
- 40 Flora a
- 45 Fabric
- 50 Dispos
- 55 Piped s
- 60 Mecha
- 65 Ventila
- 70 Electric
- 75 Comm
- 80 Transp
- AN Service

WC assembly

System outline

35-70-70/134 WC assembly

Description:

Standard WC Assembly for use on repeat work to standard nature. Last updated 16 April 2014. Please remove this description and add a project specific description when used on projects.

System manufacturer:

Submit proposals.

WC suite standard:

To Defra WC suite performance specification or equivalent approved by relevant water company.

Components:

WC suites.

System accessories:

Preplumbed installation frames.

Execution:

Installing flushing WC assemblies and installing appliance supports and brackets.

Products

45-35-70/380 WC suites

Standards:

- Cisterns: To BS 1125.
- Pans: To BS EN 997.

Third party certification:

WRAS approved.

Connecting dimensions:

To BS EN 33.

Materials:

NBS Guidance

Search NBS Guidance

35 - 70 - 70

134 WC assembly

Preview clause | Used by | Add Note | Add to job

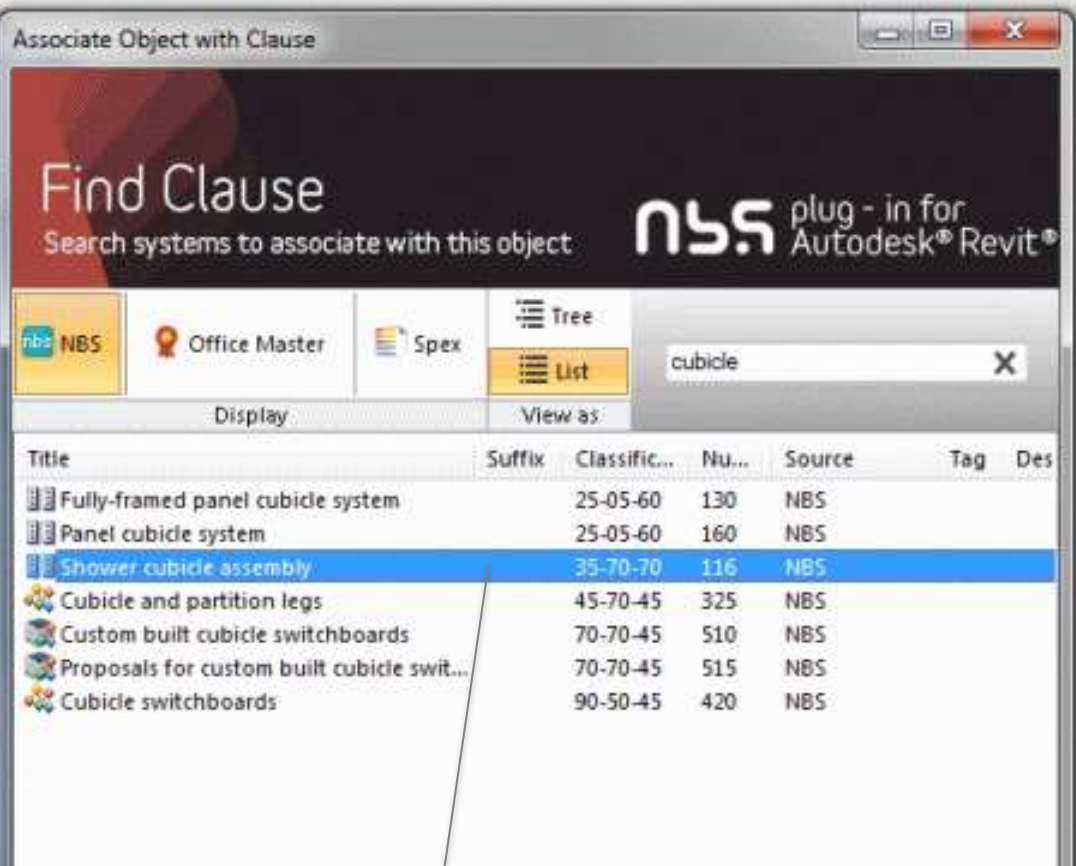
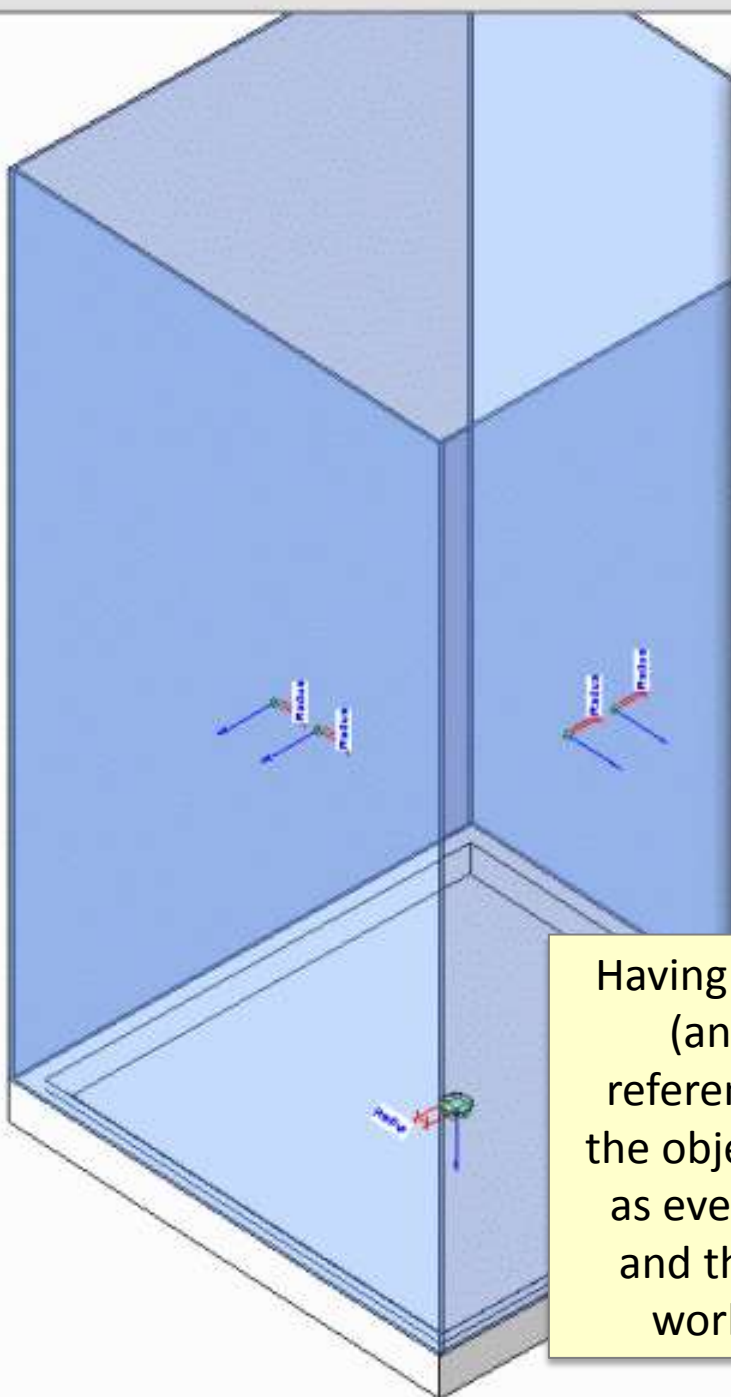
WC types:

- Close coupled WC suites have a unified appearance, with the cistern bolted directly to the top of the pan.
- Low and high level suites have the cistern mounted above the pan with a separate flush pipe. These may be exposed in economy specifications or when providing new cisterns for existing WC pans, or concealed, e.g. in preplumbed panel systems.
- Back to wall WC pans, usually only used with concealed cisterns, further improve appearance by concealing the outlet connections. Wall hung WC pans have the added advantage of leaving the floor clear for ease of cleaning. Pans for attachment to cubicle/ washroom duct panelling (preplumbed or otherwise) will be either the back to wall or wall hung type.

Where objects linked to Office Masters have been used, then a percentage of the project specification can be pre-written

Systems: 5 Sections: 0 Up to date

NBS signed in

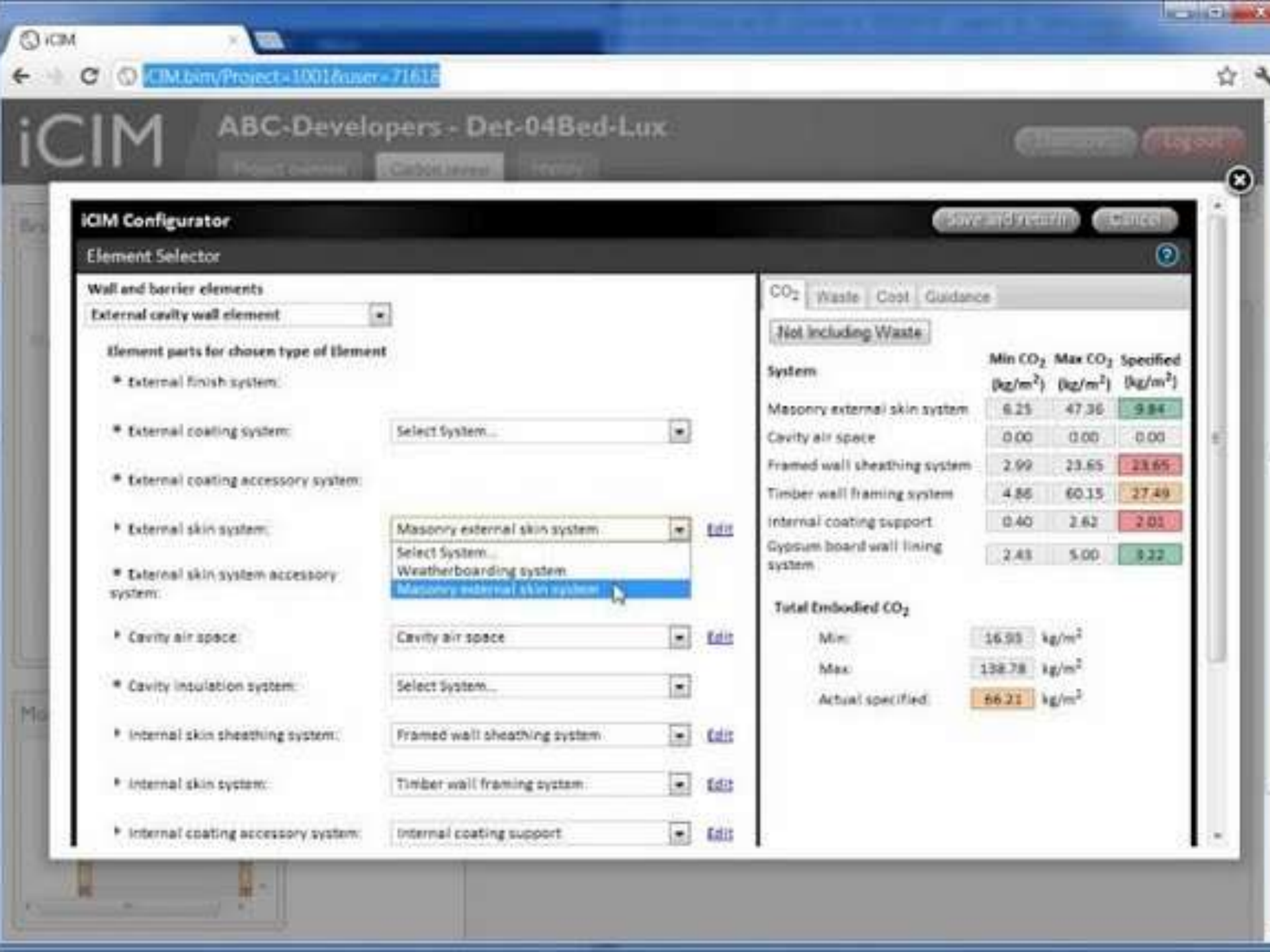


Having the NBS properties (and Office Master references) embedded in the object is very powerful, as eventually NBS Create and the NBS Plug-in can work bi-directionally

A set of selections in the specification can begin to generate an object in the model, e.g. a shower cubicle.

See: **iCIM**, this used IFC export & import





## iCIM Configurator

[Save and restart](#)[Cancel](#)

### Element Selector

#### Wall and barrier elements

External cavity wall element

#### Element parts for chosen type of Element

External finish system:

External coating system:

Select System...

External coating accessory system:

External skin system:

Masonry external skin system

[Edit](#)

External skin system accessory system:

Select System...

Weatherboarding system

Masonry external skin system

Cavity air space:

Cavity air space

[Edit](#)

Cavity insulation system:

Select System...

Internal skin sheathing system:

Framed wall sheathing system

[Edit](#)

Internal skin system:

Timber wall framing system

[Edit](#)

Internal coating accessory system:

Internal coating support

[Edit](#)

CO<sub>2</sub>

Waste

Cost

Guidance

Not including Waste

System	Min CO <sub>2</sub> (kg/m <sup>2</sup> )	Max CO <sub>2</sub> (kg/m <sup>2</sup> )	Specified (kg/m <sup>2</sup> )
Masonry external skin system	6.25	47.36	9.94
Cavity air space	0.00	0.00	0.00
Framed wall sheathing system	2.99	23.65	23.65
Timber wall framing system	4.86	60.13	27.49
Internal coating support	0.40	2.62	2.01
Gypsum board wall lining system	2.43	5.00	9.22

#### Total Embodied CO<sub>2</sub>

Min: 16.93 kg/m<sup>2</sup>

Max: 138.78 kg/m<sup>2</sup>

Actual specified: 66.21 kg/m<sup>2</sup>

Location Materials

Group

Superstructure

Superstructure

(01) Frame

(02) Upper Floors

(03) Roof

(04) Stairs and Ramps

(05) External Walls

nbl\_Ext\_BrickClay-Cavity-InsuPF-Blk-DabsGyp-PlstrbrdGyp

Phase

(02.05.01) External walls

ground floor

(02.05.02) External walls

ground level

(02.05.03) External walls

(02.05.04) External walls

(02.05.05) External walls

(02.05.06) External walls

(02.05.07) External walls

(02.05.08) External walls

(02.05.09) External walls

(02.05.10) External walls

(02.05.11) External walls

(02.05.12) External walls

(02.05.13) External walls

(02.05.14) External walls

(02.05.15) External walls

(02.05.16) External walls

(02.05.17) External walls

(02.05.18) External walls

(02.05.19) External walls

(02.05.20) External walls

6 of 6 nbl\_Ext\_BrickClay-Cavity-InsuPF-Blk-DabsGyp-PlstrbrdGyp

Change

Source: Custom types

Sample project

Dummy project

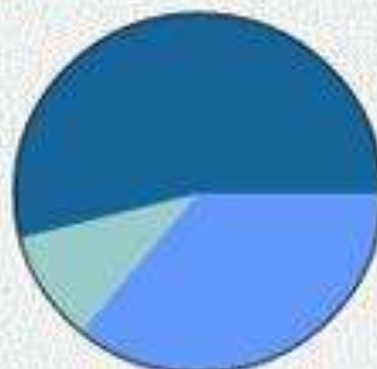
Custom types

Type: nbl\_Ext\_BrickClay-Cavity-InsuPF-Blk-DabsGyp-PlstrbrdGyp

Apply

Impact

- Other carbon in the project
- Carbon impact of the current selected type
- Carbon impact improvement of new type
- Carbon impact deterioration of new type



PSet\_Revit\_Type\_Identity Data

Description	External Brick Clay / Gypsum Plasterboard
Assembly Description	
Assembly Code	
Version	0.2
IssueDate	User to populate
NBSDescription	User to populate
NBSReference	User to populate
Help	<a href="http://www.nationalb">http://www.nationalb</a>

PSet\_Revit\_Type\_Other

WarrantyGuaranteeParts	User to populate
WarrantyDurationParts	User to populate
WarrantyGuaranteeLabour	User to populate



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Thank you

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[paul.swaddle@thenbs.com](mailto:paul.swaddle@thenbs.com)