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

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

Overview:

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1. NBS Create specification
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.
Each selection in NBS is a link to a clause object, so the information can be interrogated, reported on, scheduled and exported etc.
clauses can be used to generate links to a range of other specification clause types
Users of NBS can add clauses to an Office Masters library of clauses reusable on future projects. These can be updated.
An example manufacturer product specification clause within NBS Create.
2. The NBS resource panel
The NBS Plug-in for Autodesk® Revit® can be downloaded from theNBS.com
Once installed – the NBS plug-in has its own ribbon menu
From the resource menu it is possible to download 100s of generic NBS National BIM Library objects for free.
In addition to the generic objects, there are 1000s of free-to-download manufacturer objects.
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.
An example British Standard publication on inclusive design is shown.
Where users have embedded their office notes, these are also visible.
3. Linking the specification and the model
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.
A report indicates to the user where there is a clash between the annotations in the model and the live specification information.
The user may then view the latest project specification clauses and correct any broken annotations.
All annotations and references in schedules or material take-offs are brought up to date.
4. Viewing the specification from the model
Without the need for an NBS subscription, users can quickly view the content from a linked project specification (read only).
NBS Create Clause

View Clause

Execution

Installation control samples

- General requirements:
  - Submit representative samples of flooring units before placing orders.
  - For use as an installation reference sample.

- Position:
  - Restaurant entrance lobby

- Features to be included:
  - Intermediate movement joint, mitered border, perimeter trim, thresholds, recessed mallets and sanding and sealing.

- Dry laying:
  - Dry lay areas sufficient to check pattern layout and fit.

- Timing:
  - Construct during preliminary installation. Obtain approval of appearance before proceeding. Retain undisturbed until completion of laying or paneling installation.

Laying wood and composite unit flooring systems generally

- Setting out:
  - Lay blocks to a symmetrical pattern. Keep small cut blocks to a minimum. Even out minor vertical gaps between blocks.
  - Bedding:
    - At junctions with other materials. 200 mm.
  - Floor trims:
    - Positions:
      - Fixing centre spacing (maximum): 200 mm.
  - Additional requirements:
    - Paper faced mosaic:
      - Remove paper as work proceeds. Paper may be dampened, but not soaked, to facilitate removal.

- Laying pattern:
  - Composition and wood block: Square basket weave.
The viewer has different display options and internal and external hyperlinks.
BS 8300:2009+A1:2010

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Figure B.1 Zones of good, acceptable and poor visual contrast in relation to the LRV of two adjacent surfaces
Dimensions in millimetres

R.2 Methods of measuring LRVs

BS 8300:2010
5. Coordinating the linked project information
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

45-45-56/301_USR - Phenolic foam board

Aggregate concrete blocks

System type A

Steel deck boards
In the specification the user may modify the type of cavity insulation in the wall.
Any coordination problem is then highlighted in Autodesk Revit and the user is guided through the available options.
The user can fix the information that is no longer correct.
6. Working with office masters
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 and Office Master references can be accessed from the Autodesk Revit family editor.
The appropriate information has been stamped into the BIM object from the NBS Office Master clause.
7. Generating specifications from the model
An NBS specification can be automatically created from the objects in the Revit® model.

By default, the most appropriate generic NBS clause is selected for each NBS National BIM Library object.
Where objects linked to Office Masters have been used, then a percentage of the project specification can be pre-written.
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

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
  Weatherboarding system
- External skin system accessory system:
- Cavity air space
- Cavity insulation system: Select System...
- Internal insulation system: Select System...
- Internal coating accessory system:

CO2 Waste Cost Guidance

Not including Waste

System
- Masonry external skin system
- Cavity air space
- Framed wall sheathing system
- Timber wall framing system
- Internal coating support
- Gypsum board wall lining system

Total Embodied CO2
- Min: 16.95 kg/m²
- Max: 139.78 kg/m²
- Actual specified: 66.21 kg/m²
Thank you

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