

BIM LIBRARY MANUAL - TÉCNICO

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Version 00

TABLE OF CONTENTS

Document Versions	3
BIM Library Manual	4
01. Introduction	4
02. Library Description	4
03. Compatible Versions	5
04. Objects Characteristics	5
05. Inserting the material library	5
06. Insertion of Families	6
07. Object Properties	10
08. Material Quantification	11
09. Final Considerations	11

DOCUMENT VERSIONS

V.00	15/01/2021	First published version.
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BIM LIBRARY MANUAL

01. Introduction

This BIM Library Manual aims to support the installation and use of BIM Objects related to products developed and marketed by **CINCA**, seeking to help AEC Industry - Architecture, Engineering and Construction technicians in their decision process.

02. Library Description

The presented library was developed for AUTODESK REVIT® and refers to **TÉCNICO 1.2** collection marketed by **CINCA**.

Included in this library are all the typologies of TÉCNICO 1.2 collection in the colors, finishes and commercialised formats, namely:

- **Nova Arquitetura**
 - Tile
 - Slip Resistant tile
 - Pre-Formed
 - AECX
 - AICX
 - AE
 - AICV
 - AI
 - CX
 - CV
 - RC
 - B1G
 - B1L
 - B2L
- **Arquitectos**
 - Tile
 - Piano Listel
 - AECX
 - AICV
 - CX
 - CV
- **Anti-Slip**
 - Tile
 - ESC
 - ROD
 - AE
 - AI
 - RC
- **Mosaico Porcelânico**
 - Normal
 - RFV

03. Compatible Versions

The library is compatible with the AUTODESK REVIT®2019 version or newer.

04. Objects Characteristics

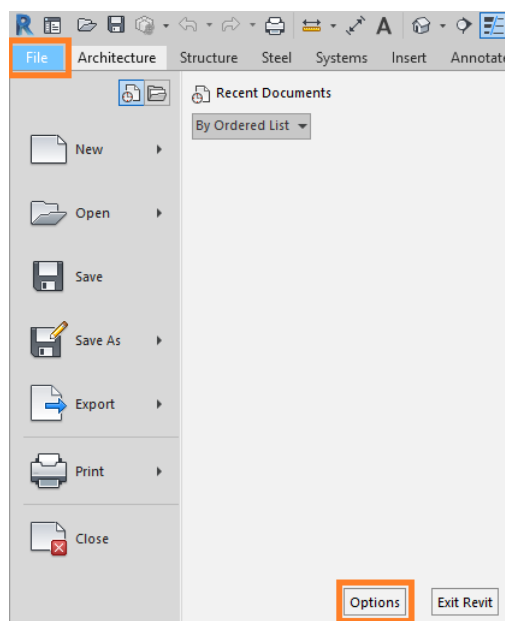
The objects are created in the respective categories, so that they can be used according to their real application. This way, all objects relating to floor and wall coverings are created in the *Floor* and *Wall* object categories - *system families*. The CX, CV, RC, B1G and ROD objects, are created as Wall Sweep - System family. The AECX, AICX, AE, AI, AICV, B1L and B2L objects, are created as loadable families in *.Rfa format. For the development of ESC pieces, it is possible to create them as a Floor-type objects as well as Stairs.

The objects are presented with nominal measurements, but are represented with their actual measurements, adding 1.5mm around the entire piece to account a 3mm joint.

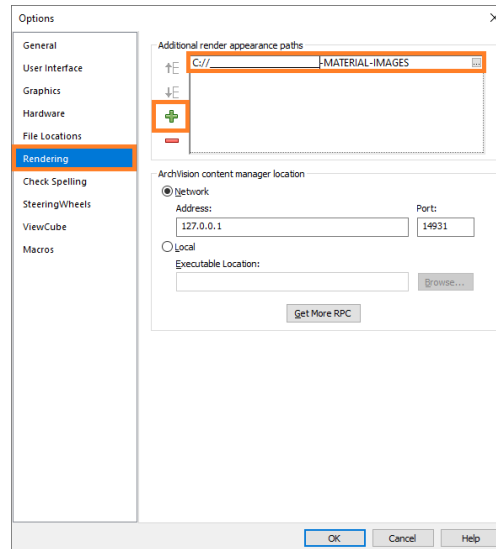
05. Inserting the material library

The created objects have associated materials, which, for the purpose of representation and rendering, have images that give it its characteristics with respect to colour, shape and finish. In order to the program map it correctly, all images must be unzipped from the file **CINCA-TÉCNICO 1.2-Material_Images.zip**.

The user will then need to include the path to that folder in the list of paths to map material textures. To do this, go to **FILE / OPTIONS**:



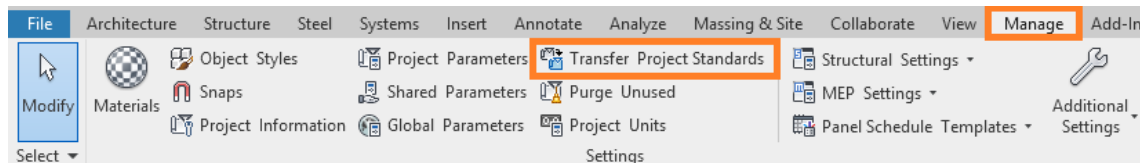
Then, in the **RENDERING** section, add the path to the list of additional paths:



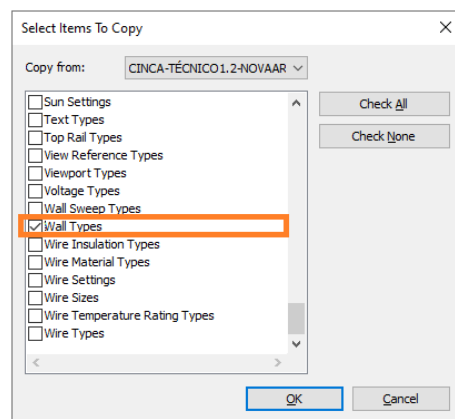
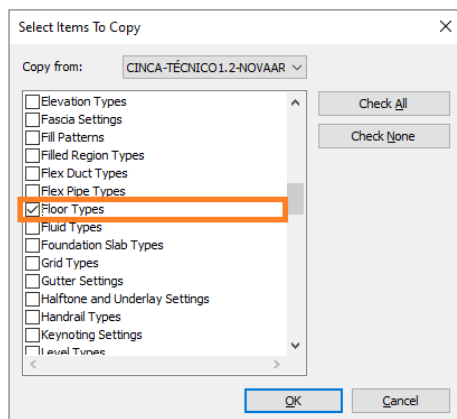
It is convenient a restart to the software, after this step. This way, we ensure that all the necessary images of the materials are properly mapped for during the rendering process.

06. Insertion of Families

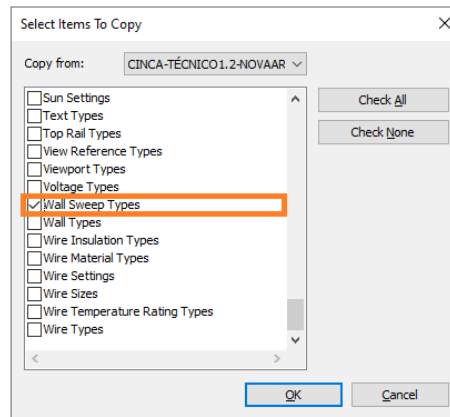
In the case of objects belonging to *System families*, namely those relating to wall and floor coverings, like: **Plain Tiles, ESC, Piano Listel, Normal, RFV e Pre-Formed**, they must be loaded from one project file (RVT) to another. Thus, to transfer the Wall or Floor category elements, you must open the **CINCA** file with the desired **TÉCNICO 1.2** typology, as well as the project file that you want to transfer the **CINCA** objects to, and go to **MANAGE / TRANSFER PROJECT STANDARDS**:



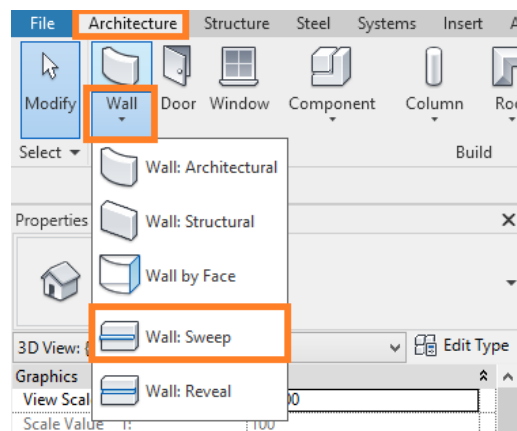
You must then select the object type that you want to transfer. In the case of floors objects, the **Floor Types** option must be chosen, in the case of wall coverings, choose the **Wall Types** option:



The footer objects, referring to the **CX, CV, RC, B1G e ROD** typologies, are developed as *Wall Sweep* category. Therefore, in order to load these objects for a project, the respective file must be opened first. Then, go to **MANAGE / TRANSFER PROJECT STANDARDS**, as mentioned above and choose the *Wall Sweep* Types option:



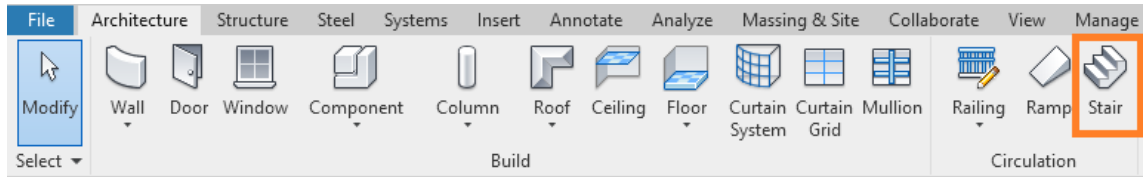
In order to be applied, simply activate the specific command to place *Wall Sweeps* in **ARCHITECTURE / WALL / WALL: SWEEP**:



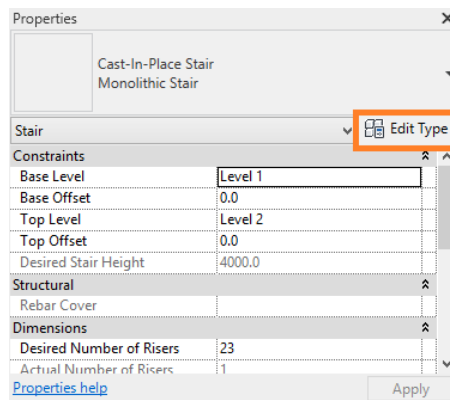
The **ESC** objects, related to the ANTI-SLIP collection, are made in the **Floor** category so that they can be applied as a floor. However, they are also prepared to be applied directly to a **Stair** type objects. To use this typology as a floor, the way to load objects is like the one explained for the floor tile objects, through the **MANAGE / TRANSFER PROJECT STANDARDS** tab and choosing the **Floor Types** option. To use directly on **Stair** objects, you must go to **MANAGE / TRANSFER PROJECT STANDARDS** and activate the options:

- **Materials**
- **Stair Types**

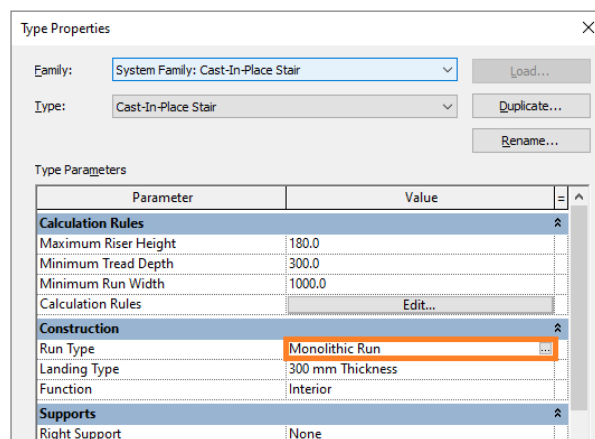
After the information regarding the materials and the type of stairs being loaded to the project, a staircase with the characteristics of the objects of the **ESC** typology can be created. To do this, you must activate the **ARCHITECTURE / STAIR** command:



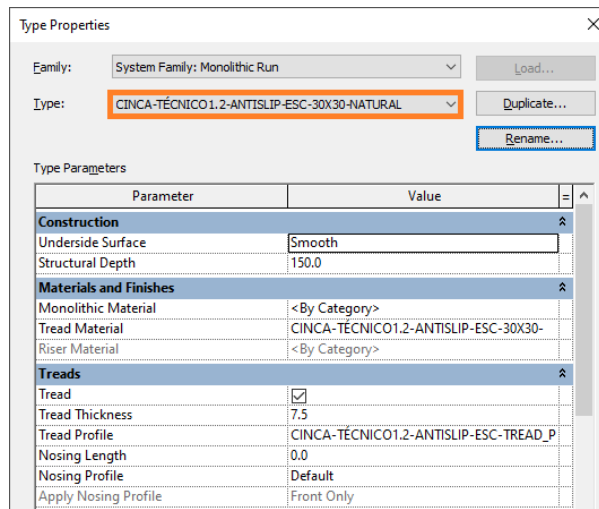
After choosing the family and type of stairs you want, press **EDIT TYPE** in the properties dialog box:



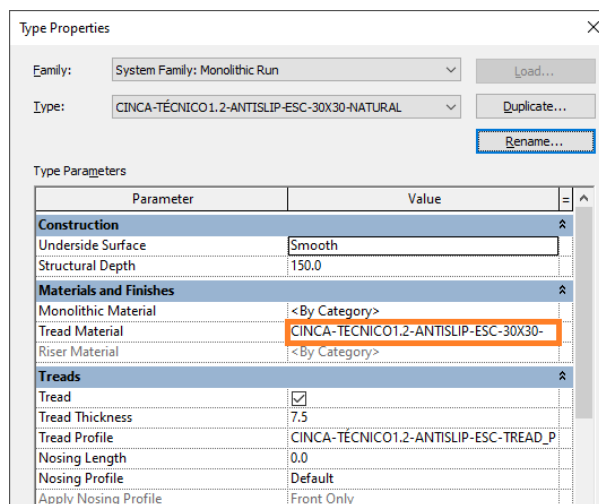
In the **Construction** section, click the value displayed in the **Run Type** parameter:



In the appeared dialog board, select the correspondent Type to the **ESC** object from **ANTI-SLIP** collection:

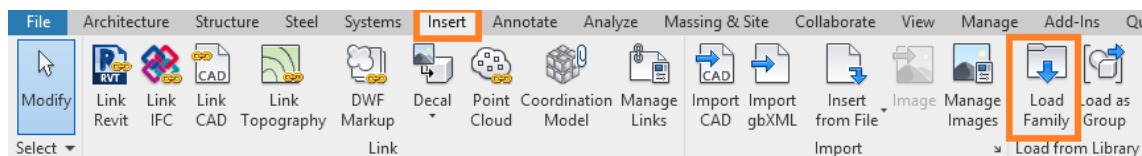


Then, the material to be applied to the ESC object must be chosen, in the section **Materials and Finishes** and the parameter **Tread Material**:

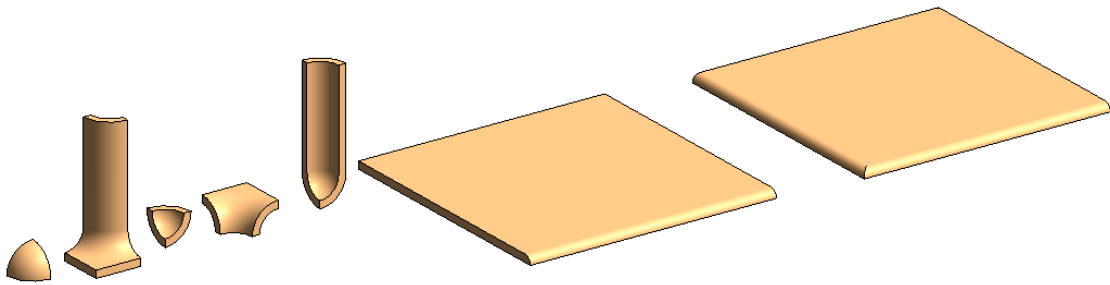


In the stair definition, must be confirmed that the tread depth is matching with the chosen piece.

Step objects **B1L** and **B2L**, as well as the **AECX**, **AICX**, **AE**, **AI** e **AICV** objects, are loadable families in *.RFA format, so they must be loaded through the tab **INSERT / LOAD FAMILY**:



These objects are created as *Face Based*, so they will need an object surface to be able to be placed in the project, or a chosen Workplane.



07. Object Properties

The objects have been developed in-depth and extensively. Thus, all objects have information concerning the manufacturer with respect to applicable international standards, namely:

- Anti Slip resistance (with footwear) - DIN 51130;
- Anti Slip resistance (barefoot) - DIN 51097;
- UPEC classification;
- Color Shade Variation - ANSI 37.1-2012

All objects also have the manufacturer's reference, so that it can be easily referenced, as well as other relevant information:

- EAN-13 codes;
- Product URL;
- NCS codes.

The objects are also classified according to the international classification systems most used in the AEC industry.

- IFC
- Uniclass 1.4;
- Uniclass 2.0;
- Uniclass 2015;
- Uniformat II;
- Masterformat;
- UNSPSC;
- NBS.

08. Material Quantification

All the .RVT files related to the various typologies of the TÉCNICO 1.2 collection have pre-configured schedules with the related parameters to:

Manufacturer; Object Type; EAN-13 Code; Area/Linear Length; No. of pieces.

The number of pieces is calculated by dividing the object area by the piece area, so that, depending on the geometry of the wall/floor object, an increase of about 10% should be considered for breaks and cuts. The same logic it's applied to linear application pieces, like skirtings or corner pieces created as Wall Sweeps, that is calculated dividing the total length by the piece length.

09. Final Considerations

Future revisions to the current version of the library will be made available on the [CINCA](http://cinca.pt) website. Any question regarding them should be reported by email to bimsupport@cinca.pt.



Born in the magical years of the sixties, in 1964, there is no other way of describing Cinca than considering it as noble as to say that items are tattooed in its business such as quality, accuracy and professionalism. The quality of the products has always been the main concern for Cinca. Whatever the purpose of the tiles, they are always made with the finest raw materials purchased from the market leaders. Cinca wall and floor tiles are manufactured exclusively with white body and meet the most strict international quality norms.

CINCA ceramic products allow you to create a personalized and elegant setting, in whatever space they are applied - bathrooms, kitchens, shopping malls, facades etc, to which is added the huge advantage of requiring very little maintenance and being a natural product, fire resistant and non-allergenic.

Customer Service is one of the priorities of CINCA. As such, considerable investments were made based on an integrated system of information and communication in order to allow the customers direct access to our services.

With a continued presence, for many years in major exhibitions of ceramics worldwide, for example Cersaie (Bologna - Italy) and CEVISAMA (Valencia - Spain), Cinca does not neglect a closer relationship with their customers, taking also their latest developments to more regional fairs such as TEKTÓNICA (Lisbon - Portugal), MosBuild (Russia), KAZBUILD (Kazakhstan), BIG Five SHOW (Dubai), COVERINGS (U.S.A.), or BATIMATEC and FIA (Algeria).

Cinca keeps a close collaboration with world renowned design offices, and can so meet the new preferences of customers and simultaneously the needs of both the architects and planners, always looking for new colors and new combinations of products. The CINCA range, with its great variety and flexibility, allows any client to find the best solution for the refurbishment of their spaces.

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