



revigres®

# BIM LIBRARY MANUAL

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Version 03

StratBIM®

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## DOCUMENT VERSIONS

|      |            |  |
|------|------------|--|
| V.00 | 01/03/2019 | First published version.   |
| V.01 | 30/04/2019 | Revision of the material's library in all RVT files and in the library ADKS file;<br>Placement of AEBBC, AERBC, AIBBC e AIRBC corner families corrected. |
| V.02 | 21/06/2022 | Cromaticita collection update.   |
| V.03 | 31/10/2023 | Cromaticita collection update, related to colors and formats.  |

# 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 **REVIGRÉS**, seeking to help AEC Industry - Architecture, Engineering and Construction technicians in their decision-making process.

## 02. Library Description

The presented library was developed for AUTODESK®2019 version or newer and refers to CHROMATIC collection marketed by REVIGRÉS.

Included in this library are all the typologies of the mentioned collection in the colours, finishes and commercialised formats, namely:

- **Base;**
- **BR** (bars);
- **Chevron;**
- **Cube;**
- **DG** (carved round top step);
- **Half;**
- **RB** (round top bullnose);
- **TC** (Corner);
- **Trio.**

## 03. Compatible Versions

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

## 04. Objects Characteristics

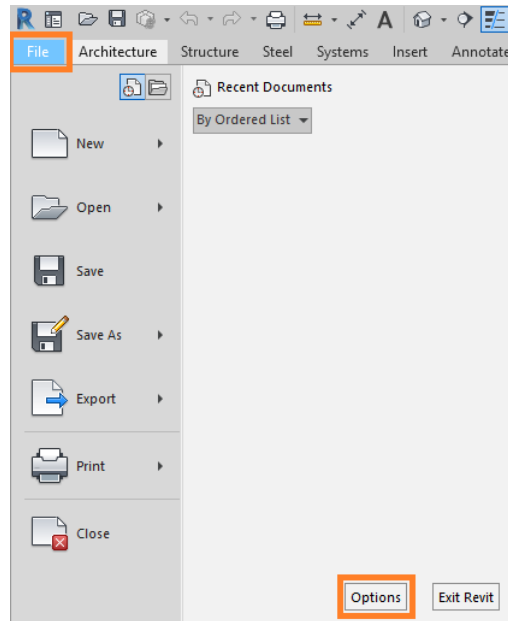
The objects are created in the respective categories, so that they can be used according to their actual application. This way, all objects relating to floor and wall coverings are created in the category *Floor* and *Wall* objects - *system families*. Only the interior and exterior footer corners are created as *loadable families*. For the development of step objects, it is possible to create them with *Floor* objects as well as *Stairs*, using *profile families* simultaneously.

The objects are shown identified with nominal measures but are represented with their actual measurements (caliber 06), adding 1mm to this measurement for accounting of the joint.

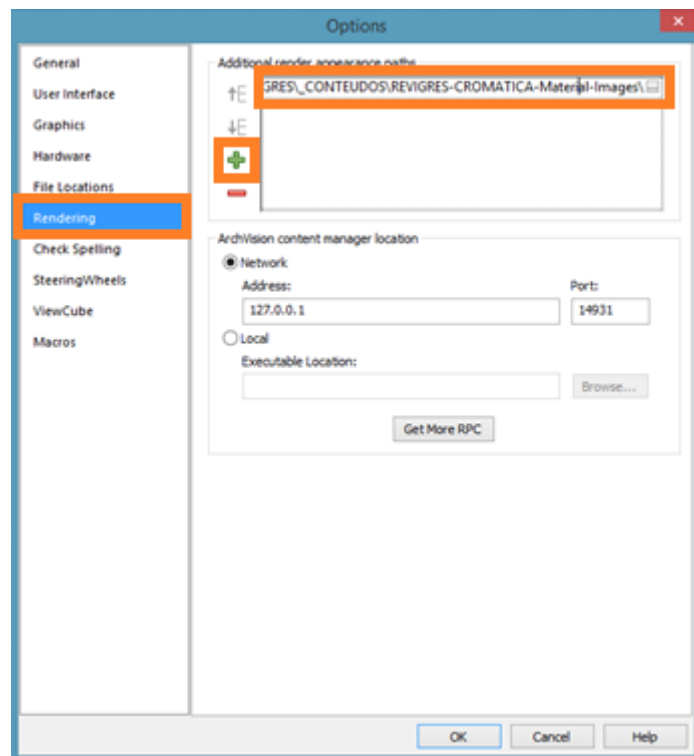
## 05. Inserting the material library

The created objects have associated materials, which, for the purpose of representation, have images that give it its characteristics with respect to colour, shape and finish. In order for the program to map correctly, all images must be downloaded from the file **REVIGRES-CROMATICA-**

**Material-Images.zip.** You will then need to include the path to that folder in the list of paths to map material textures. To do this, you will have to go to **FILE / OPTIONS**:



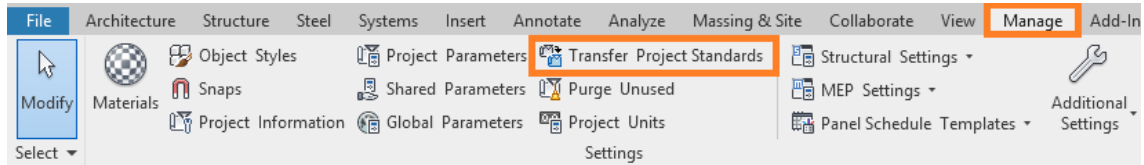
Then, in the **RENDERING** section, add the path to the list of additional paths:



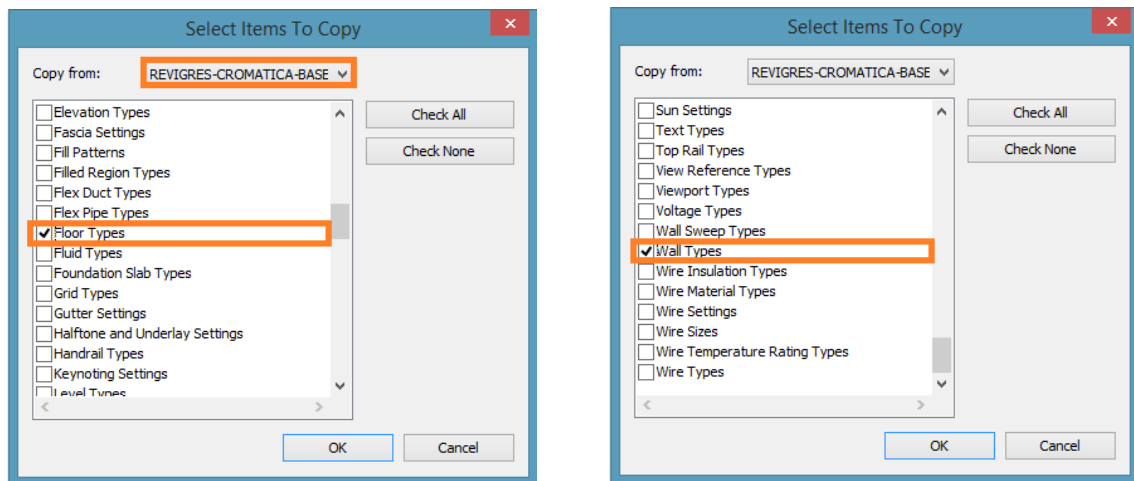
This way, we ensure that all the necessary images of the materials and objects are properly mapped for during the rendering process.

## 06. Insertion of Families

In the case of objects belonging to *System families*, namely those relating to wall and floor coverings, they must be loaded from one project file (RVT) to another. Thus, to transfer the elements of the Wall or Floor category, you must open the REVIGRES file with the desired CHROMATIC typology, as well as the project file that you want to transfer the REVIGRES objects, and go to **MANAGE / TRANSFER PROJECT STANDARDS**:

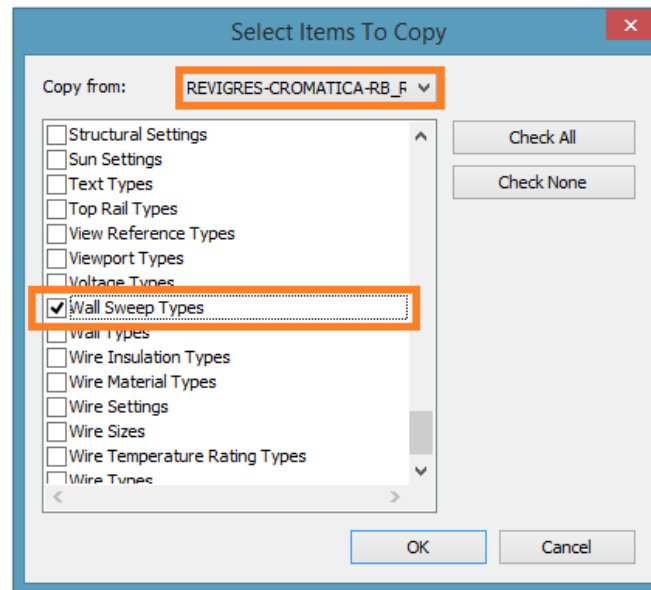


You must then activate the object type that you want to transfer. In the case of floors, the **Floor Types** option must be chosen, in the case of wall coverings, the **Wall Types** option:

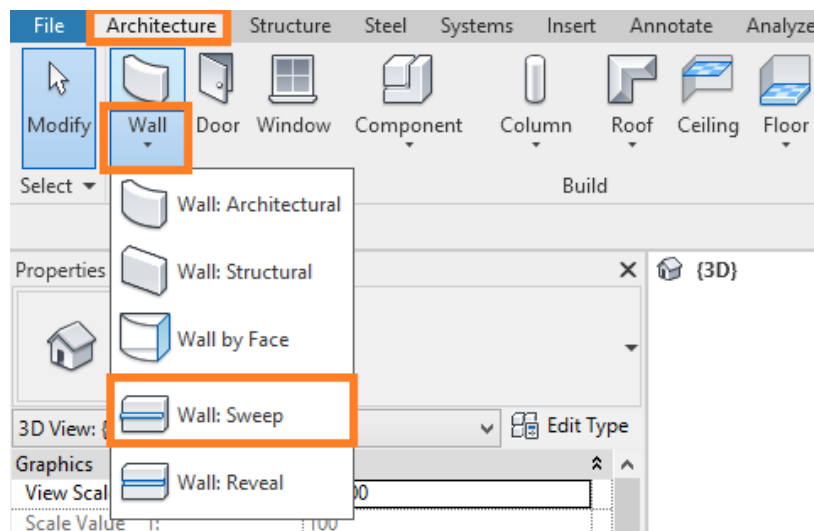


This method applies to the transfer of elements of the typology: **Base, BR, Chevron, Cube, Half, TC e Trio**.

The footer objects, referring to the **RB** typologies of the REVIGRES CHROMATIC series, are developed as objects of the *Wall Sweep* category. Therefore, to load these objects for a project, the file **REVIGRES-CROMATICA-RB-R19-v00.rvt** must be opened first. You can then take the needed objects from the file, for this go back to **MANAGE / TRANSFER PROJECT STANDARDS**, as mentioned above. Then choose the *Wall Sweep* Types option:



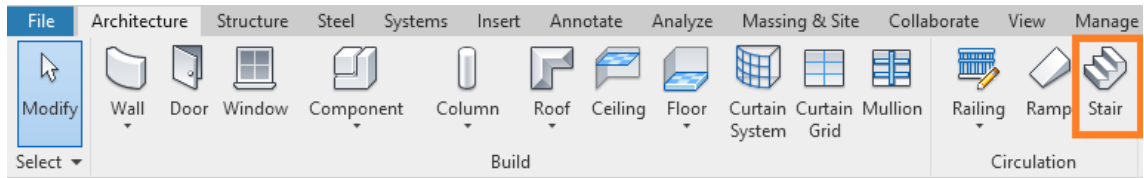
In order to be applied, simply activate the specific command to place *Wall Sweeps* in **ARCHITECTURE / WALL / WALL: SWEEP:**



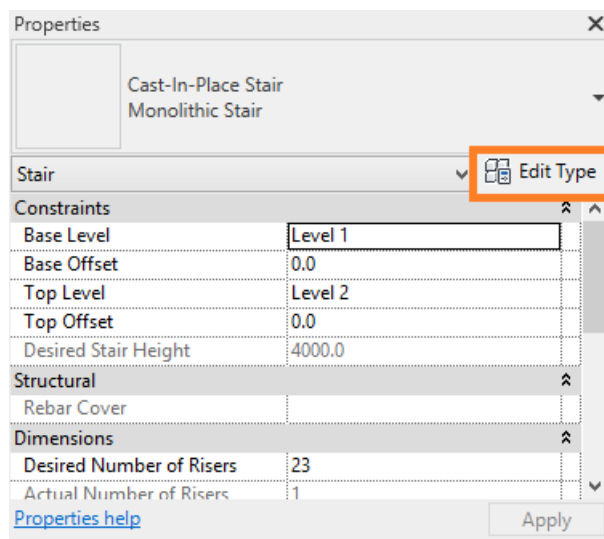
The **DG** objects are made in the *Floor* category so that they can be applied together as a floor. However, they are also prepared to be applied directly to **Stair** type objects. To use this typology as a floor, the way to load objects is like the one explained for the Base, BR and similar series, through the **MANAGE / TRANSFER PROJECT STANDARDS** tab and choosing the **Floor Types** option. To use directly on Stair objects, you must first load the **REVIGRES-CROMATICA-DG-TREAD\_PROFILE.rfa** family into the project, which contains all possible profiles for DG type parts. Then, as before, go to **MANAGE / TRANSFER PROJECT STANDARDS** and activate the options:

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

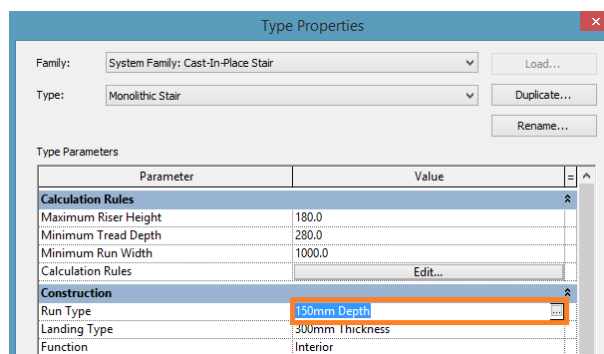
After the information regarding the materials and the type of stairs being loaded in the design, a staircase with the characteristics of the objects of the DG typology can be created. To do this, you must activate the **ARCHITECTURE / STAIR** command:



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

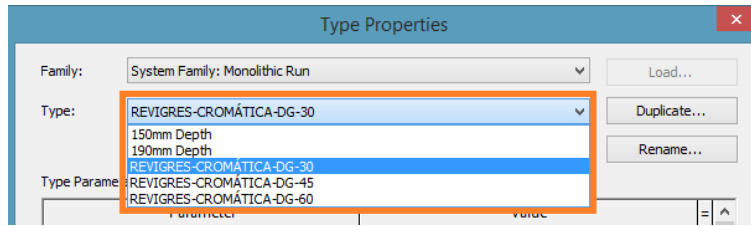


In the **Construction** section, click the value displayed in the **Run Type** parameter:

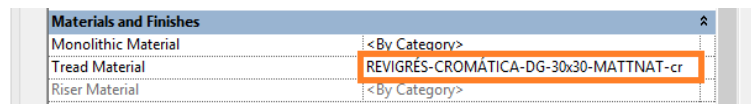




Next, you will be able to choose the type of **Run Type** you want, within the depths of the blanket that the DG type of the CROMÁTICA series allows:



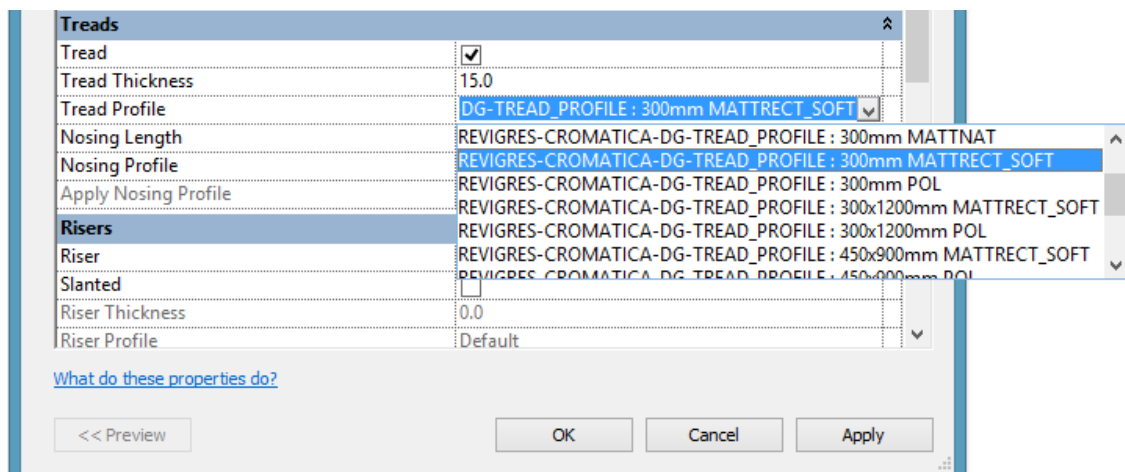
After choosing the type of object of the **DG** typology, it is necessary to change some parameters, so that it is represented conveniently. First, the material for the step itself will be chosen in the *Materials and Finishes* section in the parameter **Tread Material**:



Then, the thickness of the step blanket according to the thickness of the piece, which can be seen in the following table (measured in cm), should be chosen:

|            | MATTNAT | MATTRECT | POL | SOFT |
|------------|---------|----------|-----|------|
| 29,5x29,5  | 7.7     | 8.5      | 8.0 | 8.5  |
| 29,5x59,2  | -       | 8.5      | 8.0 | 8.5  |
| 29,5x118,6 | -       | 9.8      | 9.3 | 9.8  |
| 44,35x88,9 | -       | 10.5     | 9.8 | 10.5 |
| 59,2x59,2  | -       | 8.5      | 8.0 | 8.5  |
| 59,2x118,6 | -       | 9.8      | 9.3 | 9.8  |

Meantime, once the **REVIGRES-CROMÁTICA-DG-TREAD\_PROFILE.rfa** family has been previously loaded, we can select the profile to be used in the **Treads** section, choosing the profile in the **Tread Profile** parameter:



## 07. Properties of objects

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\_ DIN 51130;
- PTV classification\_ BS7976-2:2002;
- Slip resistance value through the pendulum method\_ UNE-ENV 12633: 2003;
- Types of use\_ 1-5;
- UPEC classification;
- Variations in Hue\_ 1-3.

| Data                              |          |
|-----------------------------------|----------|
| AntiSlipResistance                | R9       |
| PTV                               | PTV 36+  |
| SlipResistanceValuePendulumMethod | Class1   |
| TypesOfUse                        | 5        |
| UPEC                              | U4P4E3C2 |
| VariationInHue                    | V1       |

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

| General              |                  |
|----------------------|------------------|
| BIM Modeler URL      | www.stratbim.com |
| CE marking           | YES              |
| Manufacturer URL     | www.revigres.pt  |
| Publication date     | 03/2019          |
| Reference            | 312B137S31       |
| Region Africa        | ALL              |
| Region Antarctica    | ALL              |
| Region Asia          | ALL              |
| Region Europe        | ALL              |
| Region Middle East   | ALL              |
| Region North America | ALL              |
| Region Oceania       | ALL              |
| Region South America | ALL              |
| Version              | V00              |

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

| IFC Parameters              |                             |
|-----------------------------|-----------------------------|
| CSI Masterformat 2014 Code  | 09 30 13                    |
| CSI Masterformat 2014 Title | Ceramic Tiling              |
| CSI Unifomat II Code        | C3010                       |
| CSI Unifomat II Title       | Wall Finishes               |
| IfcExportAs                 | IfcCorevingType             |
| IfcExportType               | CLADDING                    |
| NBS Reference Code          | 80-96-19                    |
| NBS Reference Description   | Ceramic tiles               |
| Uniclass 1.4 Code           | L533                        |
| Uniclass 1.4 Description    | Tiles and blocks (rigid)    |
| Uniclass 2.0 Code           | PR-80-96-19                 |
| Uniclass 2.0 Description    | Ceramic tiles               |
| Uniclass 2015 Code          | Pr_35_93_96_19              |
| Uniclass 2015 Description   | Ceramic tiles               |
| UNSPSC Code                 | 30131704                    |
| UNSPSC Description          | Ceramic tiles or flagstones |
| Analysis Results            |                             |

## 08. Quantification of materials

All the files related to the various typologies of the CROMÁTICA collection have pre-configured tables with the parameters related to the coating, its respective manufacturer's reference, parameters related to the applicable standards, as well as quantification parameters of the applied coating and the number of pieces applicable. The number of pieces is calculated by dividing the area of coating by the area of a piece, so that, depending on the geometry of the area to be coated, an increase of about 10% should be considered for breaks and cuts.

## 09. Final Considerations

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



Founded in 1977, Revigrés is a world reference in ceramics, specialized in the production of wall and floor tiles.

Revigrés headquarters is located in Barrô (Águeda) and its commercial building – opened in 1997 -, is a project by Architect Álvaro Siza Vieira, the first winner of the Pritzker Prize in Portugal. In addition to the showroom at headquarters, Revigrés also has a showroom in Lisbon (Saldanha).

It is present in more than 50 countries and maintains a close relationship and collaboration with professionals in the national and international market, being frequently selected to be associated with works of great impact, to carry out special, personalized and exclusive projects.

A highlight is the Basilica La Sagrada Familia, in Barcelona, to which it has developed, exclusively, a wide variety of colors from the Chromatic Collection, one of the most complete porcelain stoneware collections worldwide.

Revigrés is the only Portuguese company in the subsector of ceramic wall and floor tiles with a four-time certification of its integrated management systems (SGI), in the following references: Quality; Environment; Social Accountability; Research; Development and Innovation.

Developed by



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