

**CETRIS systems for ArchiCAD**  
structures catalogue 2015 version 1.0



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## 1. Description

Electronic catalogue CETRIS is an add-on for ArchiCAD defined by the product range of the manufacturer. The catalogue is downloadable as whole package. Warranty is provided only for this whole package.

Add-on is designed as a graphic interface which allows to select and then make sandwich structures of walls, roofs and floors. All these structures contains real technical information for products to ease the work of architects and civil engineers during the work on a project.

Add-on is free and compatible with ArchiCAD versions 17 and 18 on Windows OS and MacOS.



## 2. Catalogue components

All parts of the catalogue are installed into installation folder of ArchiCAD, specifically "ArchiCADAddons"

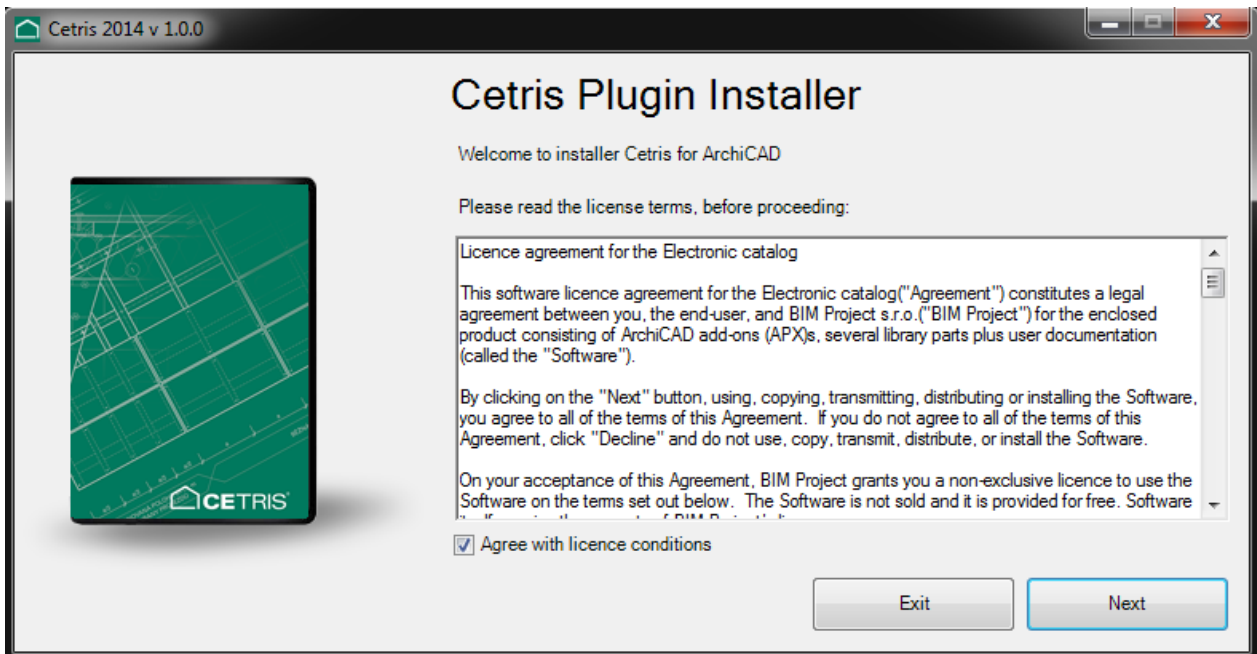
- folder „BIM Project“ contains folder „CETRIS“, catalogue data and uninstaller are placed there.
- file „Cetris\_17\_EN\_x64.apx“ or „Cetris\_18\_EN\_x64.apx“ contains ArchiCAD add-on.

### 3. Installation process

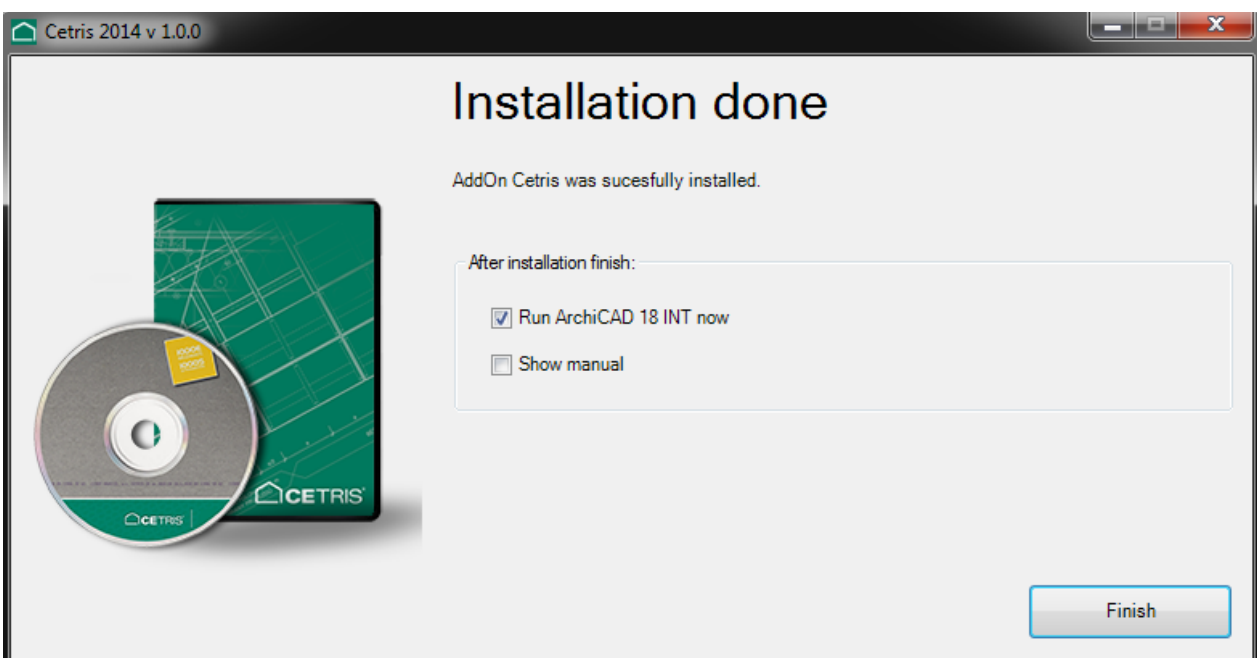
#### 3.1. Add-on installation

Running setup.exe starts an installer, installation guide will get you through the process. In order to use the add-on you have to agree with developers license terms.

Close all ArchiCAD windows before clicking „Next“.



If you did not install ArchiCAD into default folder (*Program Files/Graphisoft/ArchiCAD*), select the path for archicad.exe.



After successful installation you can run ArchiCAD or read a manual in PDF (this document).

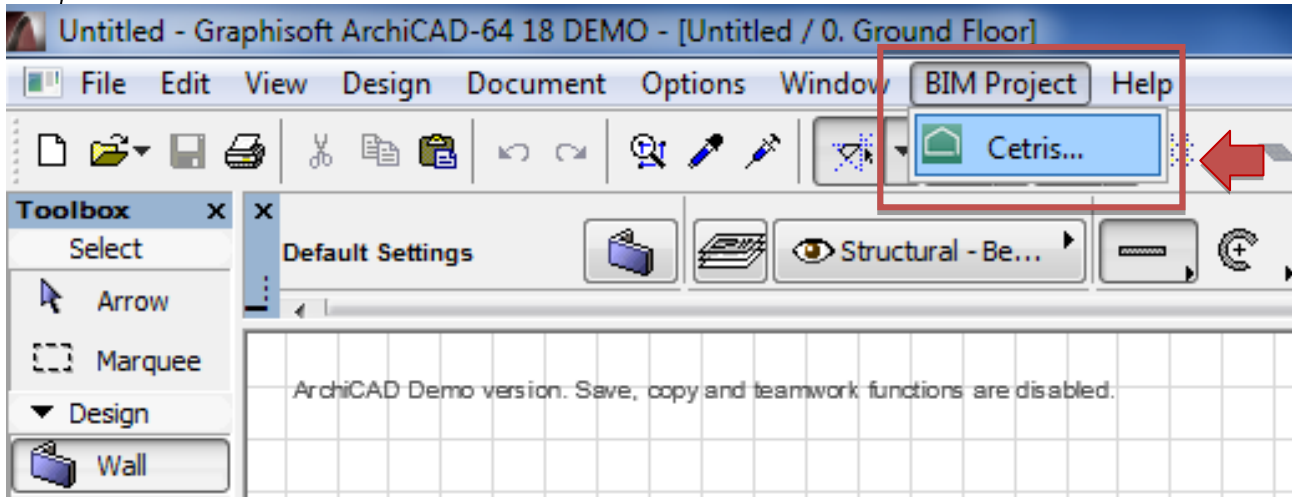
## 4. Working with the catalogue

### 4.1. Add-on functionality

After successful installation a new icon „BIM Project“ will appear in your ArchiCAD environment.

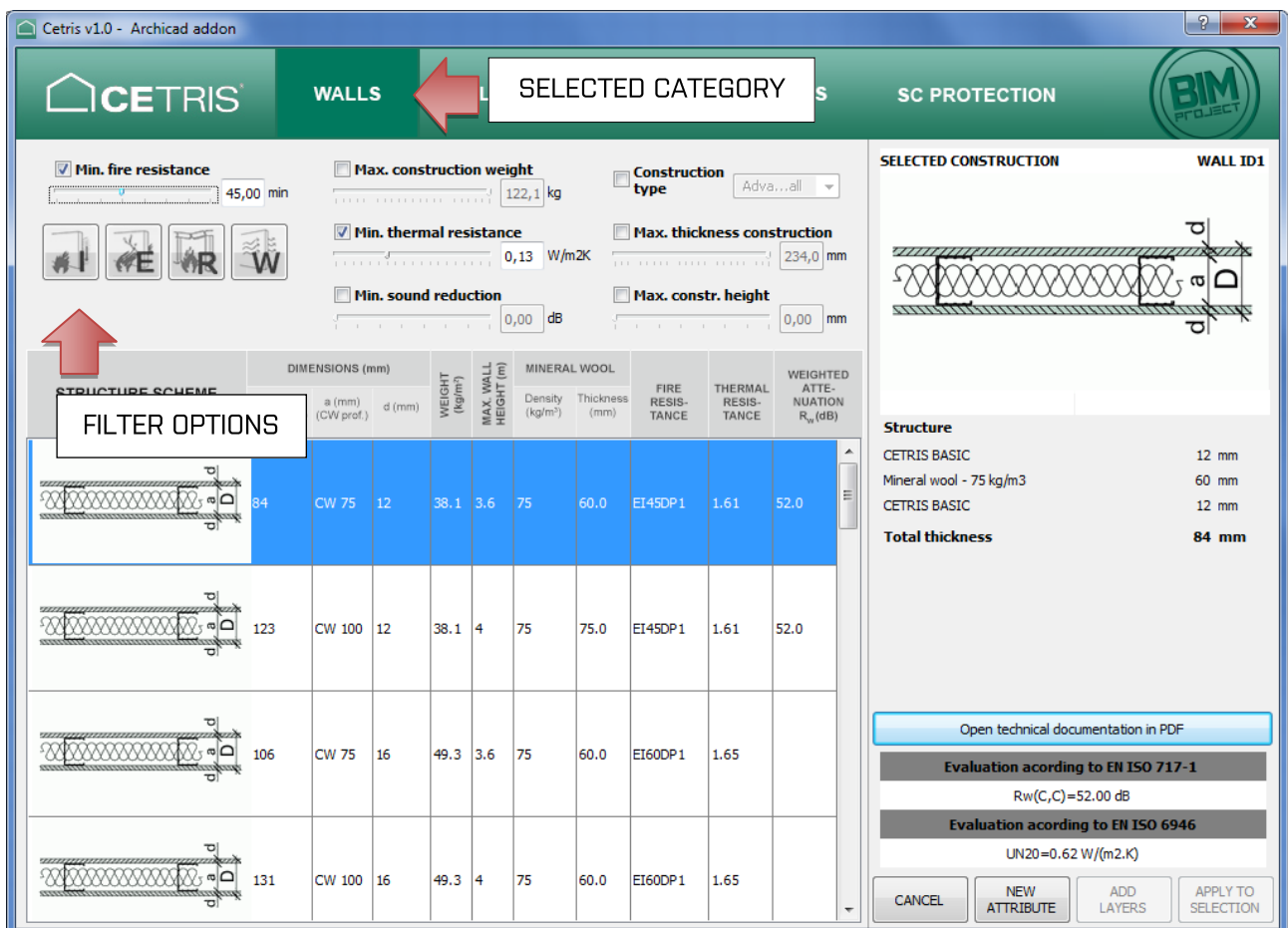
Clicking on „Cetris“ activates a selection window for sandwich structures.

BIM Project > Cetris



Upper horizontal add-on menu contains bookmarks for each type of structure:

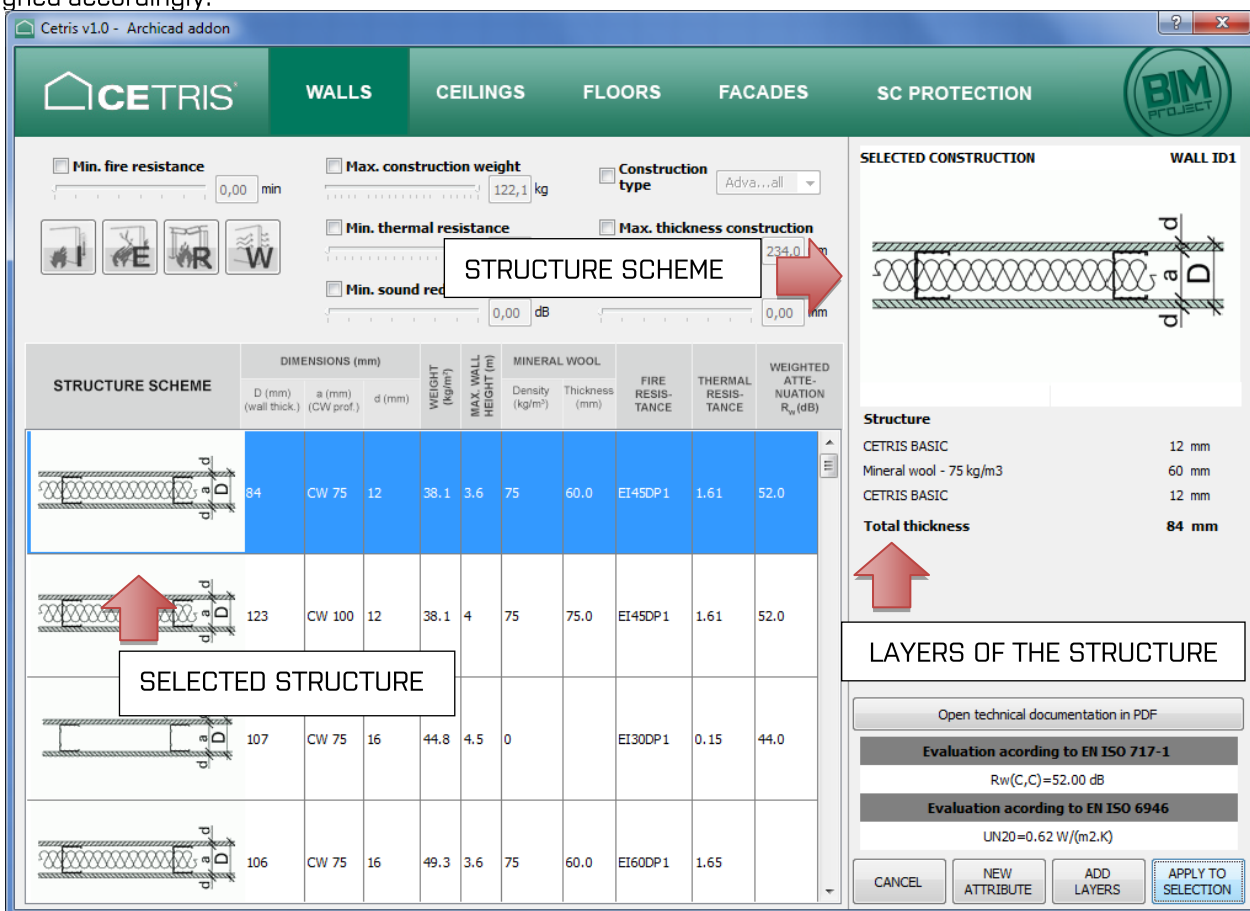
- Walls
- Ceiling
- Floors
- Facades
- Fire resistant protection



#### 4.1.1 Walls, ceiling, floors

Add-on menu allows to filter products by different criteria.

This add-on is a digital interpretation of printed CETRIS catalogue therefore graphics and layout are designed accordingly.



After selecting desired structure from the list, parameters will be displayed in the lower part of the add-on – 2D scheme of the layers of the structure.

Clicking „**NEW ATTRIBUTE**” will add the selected item into the list of sandwich structures.

Clicking „**APPLY TO SELECTION**” creates sandwich structure and assigns it to the object in ArchiCAD only if this object was selected before using the CETRIS add-on. If there is no structure selected in ArchiCAD floor plan, this button does not work and only the structure can be added to the sandwich structure list. Wall structures cannot be used for roofs or floors. It is necessary to apply it to wall etc. After successful application of the selected structure add-on closes.

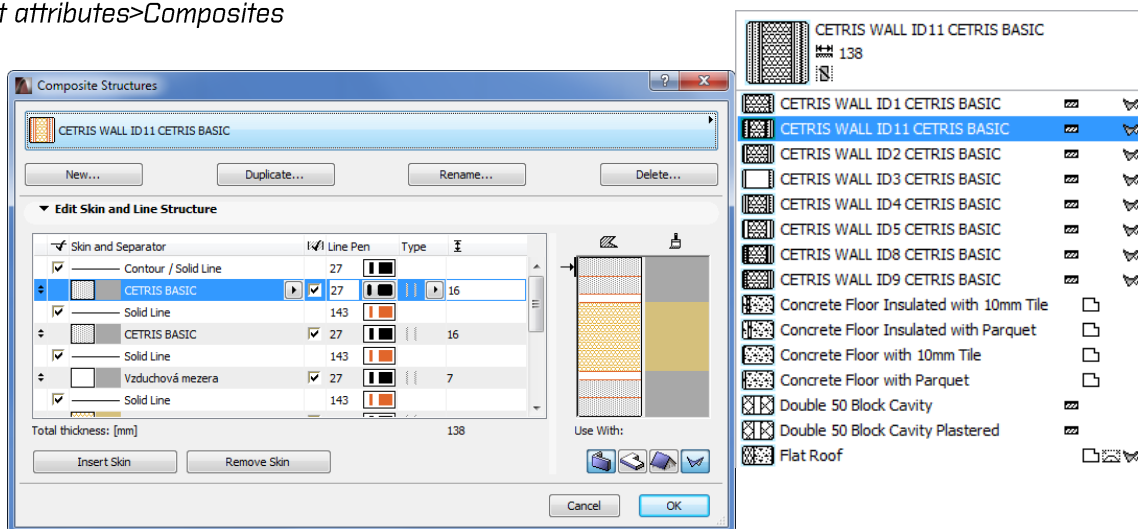
Clicking „**ADD LAYERS**” creates new sandwich structure and adds it to the existing one (useful for creating installation space between two walls).

Clicking „**Open technical documentation in PDF**” opens product information sheet of the structure.



Added sandwich structure will be accessible in the list of sandwich structures.

This sandwich structure can be furthermore edited or deleted via the graphic interface of ArchiCAD  
*Option>Element attributes>Composites*

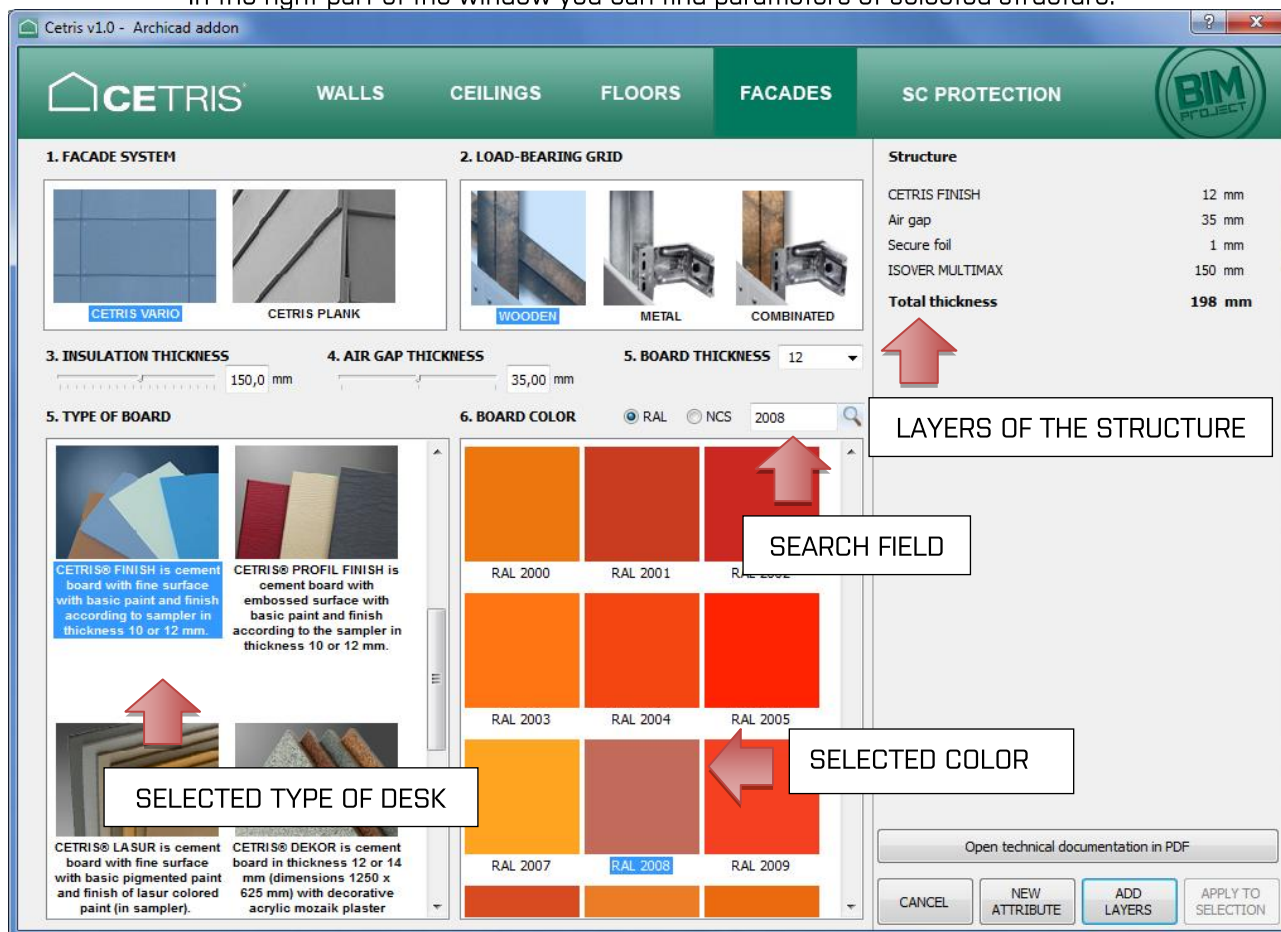


You can create any number of CETRIS sandwich structures within the project.

#### 4.1.2 Facades

After selecting VARIO or PLANK system and choosing the supporting grid you can define the thickness of facade thermal insulation, air gap and facade desk. Color selection depends on the type of facade desk. For easier selection of the desired color you can use a search field.

In the right part of the window you can find parameters of selected structure.



Clicking „**NEW ATTRIBUTE**“ adds selected facade structure into the list of sandwich structures.

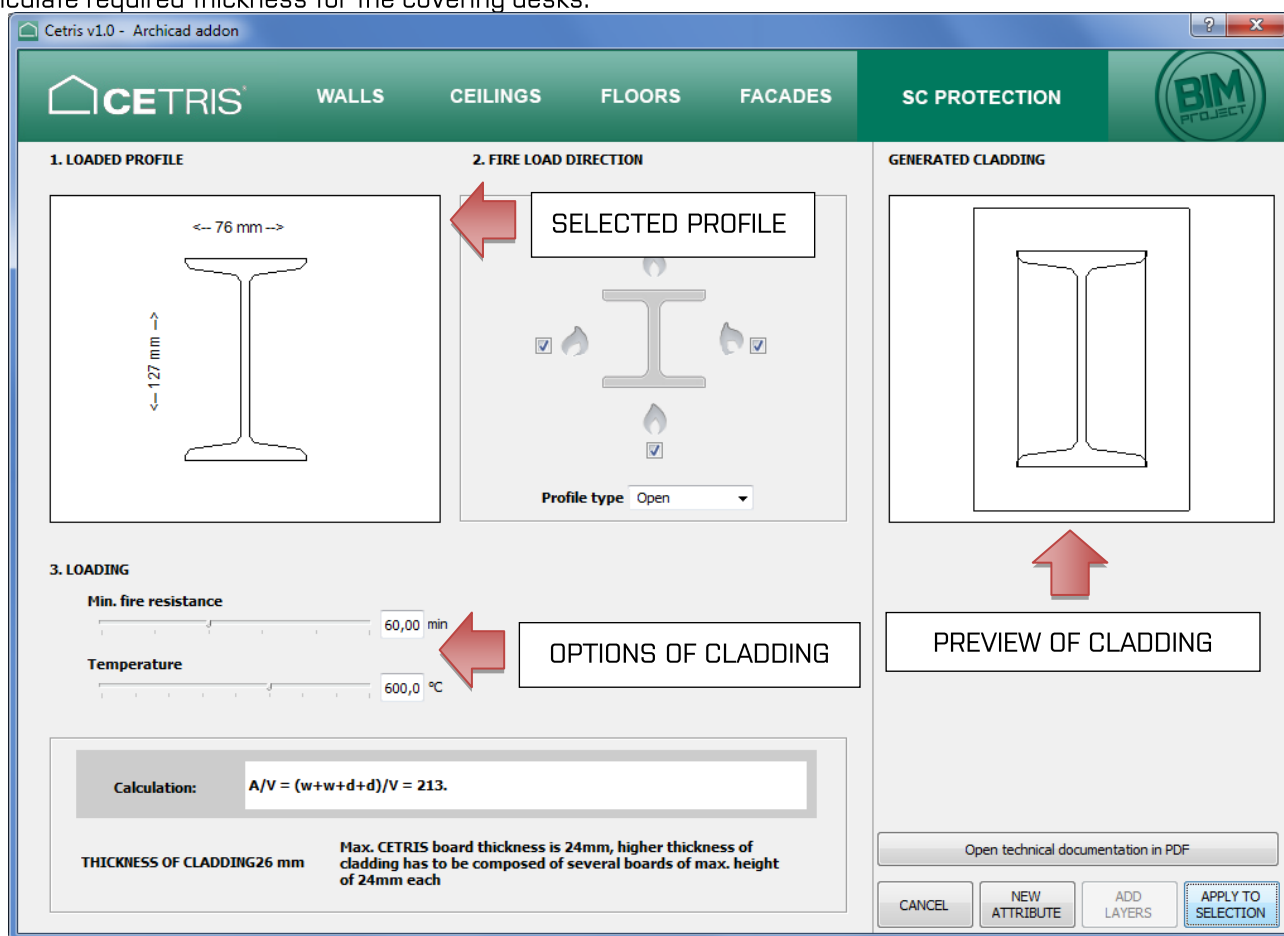
Clicking „**ADD LAYERS**“ creates sandwich structure and assigns it to the wall in ArchiCAD only if this wall was selected before using the CETRIS addon. If there is no structure selected in ArchiCAD floor plan, this button does not work and only the structure can be added to the sandwich structures list.

Clicking „**Open technical documentation in PDF**“ opens product information sheet of the structure.

#### 4.1.3 Fire resistant structures

After selecting this bookmark add-on loads selected profile only if it was selected before running it. In the other case it is necessary to close the add-on, select the profile and re-run the addon. You can only select columns or beams to create a fire resistant cover.

After successful loading a preview of the profile will pop up in the left part of the window. It is possible to choose sides to cover. After setting desired values for fire resistance in minutes and temperatures, addon will calculate required thickness for the covering desks.



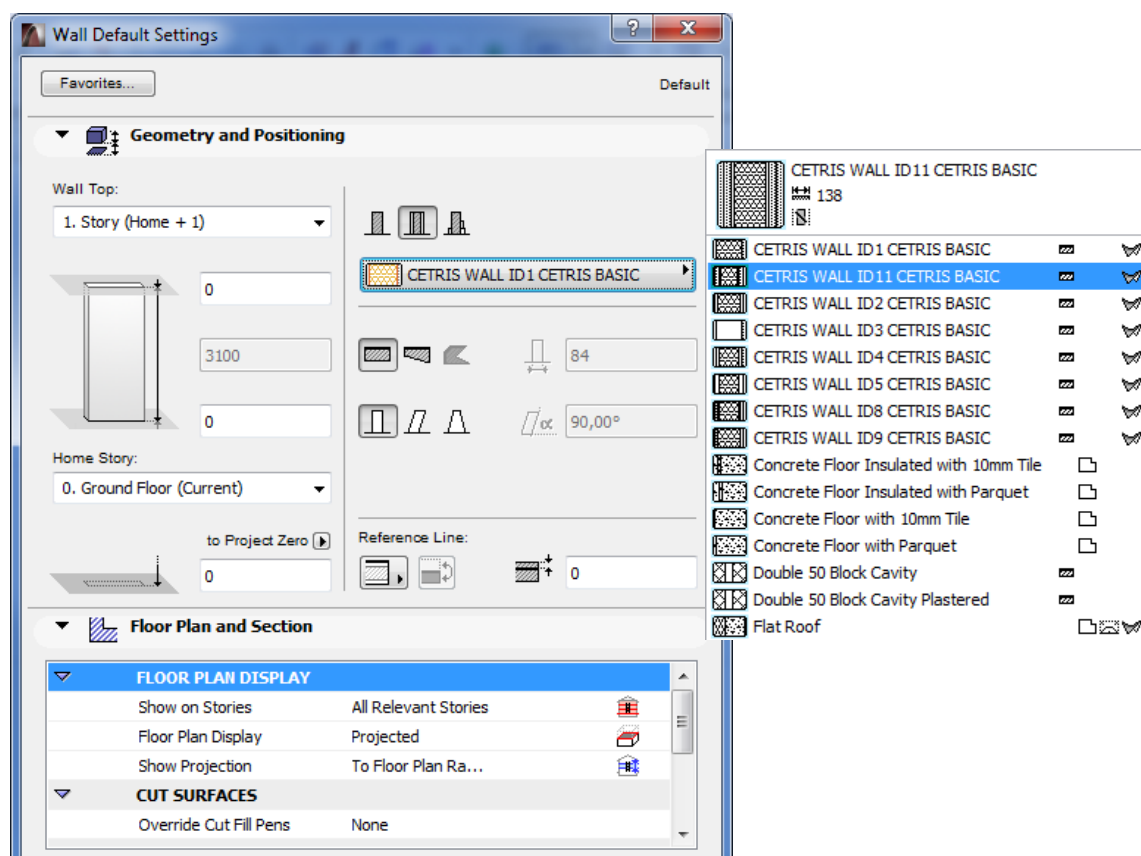
Clicking „**NEW ATTRIBUTE**“ will add generated shape of the cover into the list of custom profiles.

Clicking „**APPLY TO SELECTION**“ will create a custom profile and covers selected object in ArchiCAD with it only if it was selected before running the add-on. If there is no column or beam selected in the floor plan or section, the button will not work and the structure will be only created in the list of custom profiles. In the section or 3D view you can change the height of this structure in order to connect it to other fire resistant structure.

## 5. Working with the sandwich structures

Working with CETRIS sandwich structures is no different from the work with basic or user surface materials..

It is possible to apply these structures to objects that supports sandwich structures such as walls, roofs, floors and shell structures.



## 6. Manufacture information - CETRIS in Czech Republic

CETRIS Division is a producer of board material marketed under the CETRIS® cement-bonded particleboard trademark. CIDEM Hranice, a.s. - CETRIS division is currently the largest producer of cement-bonded particleboards in Europe. The production line capacity is 55,000 m<sup>3</sup> per year.

The CETRIS® cement-bonded particleboards are produced with equipment supplied by BISON, a German company. In 2010, the production line underwent an extensive refurbishment aimed at increased production volumes with improved quality. The line was newly equipped with cleaning and grinding devices perfectly cleaning the manufacturing metal sheets and thus improving the quality of the boards' surface. The drying plant was refurbished and extended and a new sizing saw was purchased. While sizing the manufactured boards it is now possible to declare narrower tolerances for permissible deviations from dimensions and profiles which are significantly below the values imposed by the standards. Great changes have been implemented to the surface finish line. A fully automated line with the KRONOS spraying machine from MAKOR has been purchased, allowing for perfect surface treatment of the face side as well as the edges. As a matter of fact, the improved and expanded surface finish process includes, at its start, a cleaning and grinding device preparing the face surface and a high-performance drying and cooling device. Furthermore, the compressor room underwent refurbishment and the shipment area was expanded. Also in the future we plan to invest in the modernization and expansion of our plant.



Great and continuous attention is paid to the quality of our products. Already back in 1996 we obtained the EU ISO 9002 quality certificate awarded by the international accredited certification body, Lloyd's Register Quality Assurance. After a new standard was published this system was recertified in 2003 pursuant to the new ISO 9001 standard. The production of CETRIS® cement-bonded particleboards is further supervised by authorized and notified entities. As the company exports the products to all of Europe, the cement-bonded particleboards are certified not only pursuant to European harmonised standards, but also pursuant to the national standards.

[www.cetris.cz/en](http://www.cetris.cz/en)