



*Innovative Facade Design  
Directly in 3D*

*100% BIM Conform*

*Automatically Generated  
Production Documents  
and Shop Drawings*

# FACADE CONSTRUCTION

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THE WORLD OF CAD AND PDM SOLUTIONS

# HiCAD For Facade Engineering

*HiCAD is an all-in-one software solution for designing, detailing and preparing a building for production, with a strong focus on the facade.*

ISD Group, active in 2D and 3D CAD systems for more than 45 years, focuses its software solutions on manufacturing companies to optimize business processes. HiCAD has a wide range of solutions for facade construction and provides powerful functionalities to realize models quickly.

From the initial design and creation of the CAD model to the output of production documents. ISD's software enables you to work more efficiently and generate complete information for production and logistics.

## Innovative Facade Design Directly in 3D

The added value of HiCAD is the simplicity with which the 3D elaboration and exchange of projects is possible. Simultaneous 3D modeling and 2D work. At the push of a button, you have a 2D view or a cross-section of the 3D model. You can continue modeling in both and because everything is linked, it changes automatically and adjustments are immediately implemented everywhere. It works more efficiently and reduces failure costs.

## Standard Connections

Another important advantage is the integration with the product libraries. The entire profile library of various (profile) suppliers, including the operations, is transferred to HiCAD. This allows HiCAD users to save a lot of time in the project flow. The programme has many standard parts that can be automatically subdivided or moved.

## Independent Modeling

A facade is much more than the shell of a building. Facade elements have their own unique shape. Thanks to the flexibility of the package, it is possible to create profiles for this in HiCAD by yourself. In this way, a company can customize the software by programming combinations or presets themselves. When the standard work has been done and you want to create additional parts, this can be done very well in the software. What is almost impossible to do in 2D. But HiCAD offers more possibilities for drawing and editing. It is also possible to model a part by yourself, such as side connectors for the facade.

## Controlling Production

HiCAD even makes it possible to control production at the push of a button. It is software that enables both the design and the control of the production process. This eliminates the need for software to run in parallel, which significantly reduces the risk of errors.

## Technical Planning and Construction

Finally, HiCAD offers a very good combination of the mechanical and the engineering aspects. There is a great need for this in practice and it is often lacking in other software packages. The construction of facades combined with architectural components, such as foils and seals as well as additional sheet metal, makes HiCAD unique. These two worlds are linked in HiCAD.

### Advantages of HiCAD at a Glance:

- Dynamic/Parametric Modeling with 2D/3D combined within One System
- If Adjustments are made, these are implemented in one go and automatically updated in all Views
- With HiCAD, the User can convert "Foreign" Drawings (IFC, DWG/DXF, STEP, etc.), e.g. from an Architect, into a 3D Model
- The Software can be used to automatically generate Results, Production and Assembly Drawings, as well as Parts and Cut Lists, in order to control Production
- HiCAD can model (very) complex Curtain Wall Shapes
- This Software offers bi-directional Connection to various Suppliers



## Software With Various Facade Elements

*A 3D solution that offers techniques and solutions for various facade elements.  
Discover many different functions and multiple industries in one CAD system.*

### The Innovative 3D Software for the Facade

*Individual installation locations with building reference*

Individuality is a top priority in HiCAD. Simply make adjustments to the installation areas using modern parametrization and create associative links to the steel construction. The installation area automatically adapts to all building modifications. Feel flexible at any time and define connections and cutouts for windows and doors - all in a 3D model.

### Facade Cladding Directly in 3D

*Plan a complete facade in 3D with all connections and details*

ISD is the only company to offer the techniques and solutions specifically for the processing of various facade elements. Ideal when you want to get a clear picture of what you are making through 3D visualisation and whether it is correct. With ISD's software, all components are generated automatically. Good tools like the individual grids with modern sketching function and definable parameters speed up the engineering of your facade. Transfer your grid from 2D or your 3D BIM model and have your cassettes and panels laid automatically by HiCAD.

### The 3D CAD Solution with an Extensive Product Library for Facade Construction

*Automated product library and intelligent solutions*

Our 3D solution for facade construction has everything you need: different functions from multiple industries in one system. You can work with the functionalities from mechanical engineering, profile and panel construction, steel construction and facade construction at any time. This makes HiCAD a real all-round solution! In addition, the HiCAD product library gives you direct access to the profiles and facade elements of various suppliers - thus ensuring precise planning!

### 100% BIM

BIM requires companies to work with 3D CAD software. HiCAD is the only CAD software that allows 2D/3D combined modeling within one system. The client can use the supplied BIM or IFC model to engineer his own products, generate constructional details and produce elevations and workshop drawings. All in one model and automated.

### Pointcloud

More and more facade builders are working with point clouds. Data is collected with a 3D laser scanner to create a point cloud to visualize a building site. This is useful for detecting potential problems in time - for example, the distances between them, unevenness and collisions. A HiCAD feature that can definitely save your company a lot of time.



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## Contact Us

We would like to get in touch with you. You can find ISD at the address below and via social media. Of course you can also send us an e-mail or give us a call.

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