



# HICAD ALUCOBOND®

*3-D variants for  
specific tray panels*

*Individual design functions*

*Auto-generated production  
documents*

## REAR-VENTILATED FACADES

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THE WORLD OF CAD AND PDM SOLUTIONS

## HiCAD ALUCOBOND®: The new CAD solution

*Benefit from the tried and tested, practice-oriented functions of HiCAD which have been expanded especially for ALUCOBOND® composite panels for facades.*

The joint development of the ISD Software und Systeme GmbH in Dortmund and the 3A Composites GmbH in Singen enables an accurate planning of complete building shells from the first concept and the output of the related production documents to the immediate passing of the data to CNC machines.

The new, exclusive HiCAD ALUCOBOND® extension module has been geared towards designing with ALUCOBOND® composite panels. It allows the user to create 3-D variants for ALUCOBOND®-specific tray panels as early as in the planning phase. In addition, it enables an automatic placing of ALUCOBOND® tray panels into a 3-D grid. Furthermore, HiCAD ALUCOBOND® offers various individual designing functions, such as

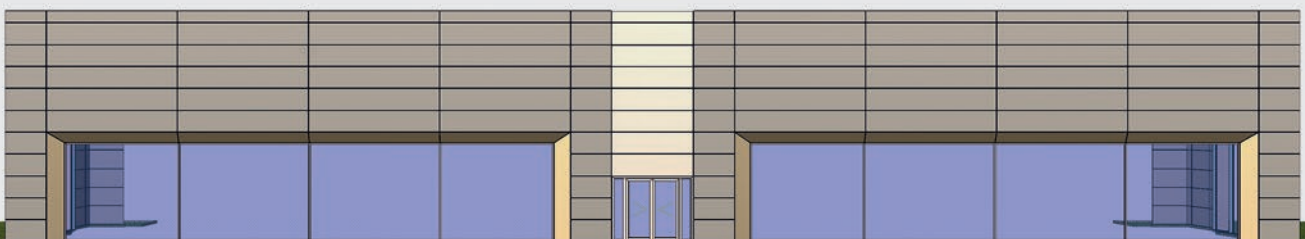
the detailing of corner connections, clasps and fasteners. A wide range of ALUCOBOND® coatings allows a convenient integration of required surface types and colour variants.

The interface to the production lines is created by supplementing the design data in HiCAD with ALUCOBOND®-specific allowance data and passing them automatically to the CNC machines in the production department.



*»With HiCAD we have finally discovered a BIM-capable CAD system that effortlessly combines standard functions with innovations. Besides the new, exclusive HiCAD ALUCOBOND® functions, the unique 2-D/3-D associativity is one of the highlights of the software.«*

Dr. Amin Emami, Head of Technical Department, 3A Composites GmbH





The functionalities of HiCAD ALUCOBOND® are as extensive as the colour palette of ALUCOBOND®. Besides plain, metallic and effects colours, customized colours are available on request.

## This is how it's done

*The functionalities of HiCAD ALUCOBOND® are as extensive as the colour palette of ALUCOBOND®. Besides plain, metallic and effects colours, customized colours are available on request.*

### **The product properties of ALUCOBOND®**

With their high quality, resilience and unique appearance, the ALUCOBOND® products stand for sustainable construction quality and meet even the highest design requirements. The facade materials possess outstanding product characteristics such as perfect flatness, a wide range of surface types and colours as well as an excellent formability.

ALUCOBOND® for rear-ventilated facades combines the features of energy-efficient construction, economic viability and architectural quality. The rear-ventilated construction technique is perfectly suited for creating facades on new and old buildings as well as on roof constructions and interior elements.

### **HiCAD – the practice-oriented CAD solution in civil engineering**

Our CAD system HiCAD effortlessly combines tradition with innovation: As an industry-comprehensive CAD system it does not only provide functions for all conceivable tasks in the field of civil engineering, but also the tools that are required for all related fields of industry – in one single CAD system, thus sparing you switching between applications. The industry-specific, special HiCAD functions for mullion and transom facades, industry and panel facades as well as sheet metal and element facades allow a fast and easy realisation of room-closing elements for all building types. Thanks to the HiCAD ALUCOBOND® solution, HiCAD now enables ALUCOBOND® users to completely realize their tasks in full 3-D and with only one CAD system.



**HiCAD**  
**ALUCOBOND®**

*HiCAD instantly makes all required documents available – from the output of the selected material to drawings and BOMs.*

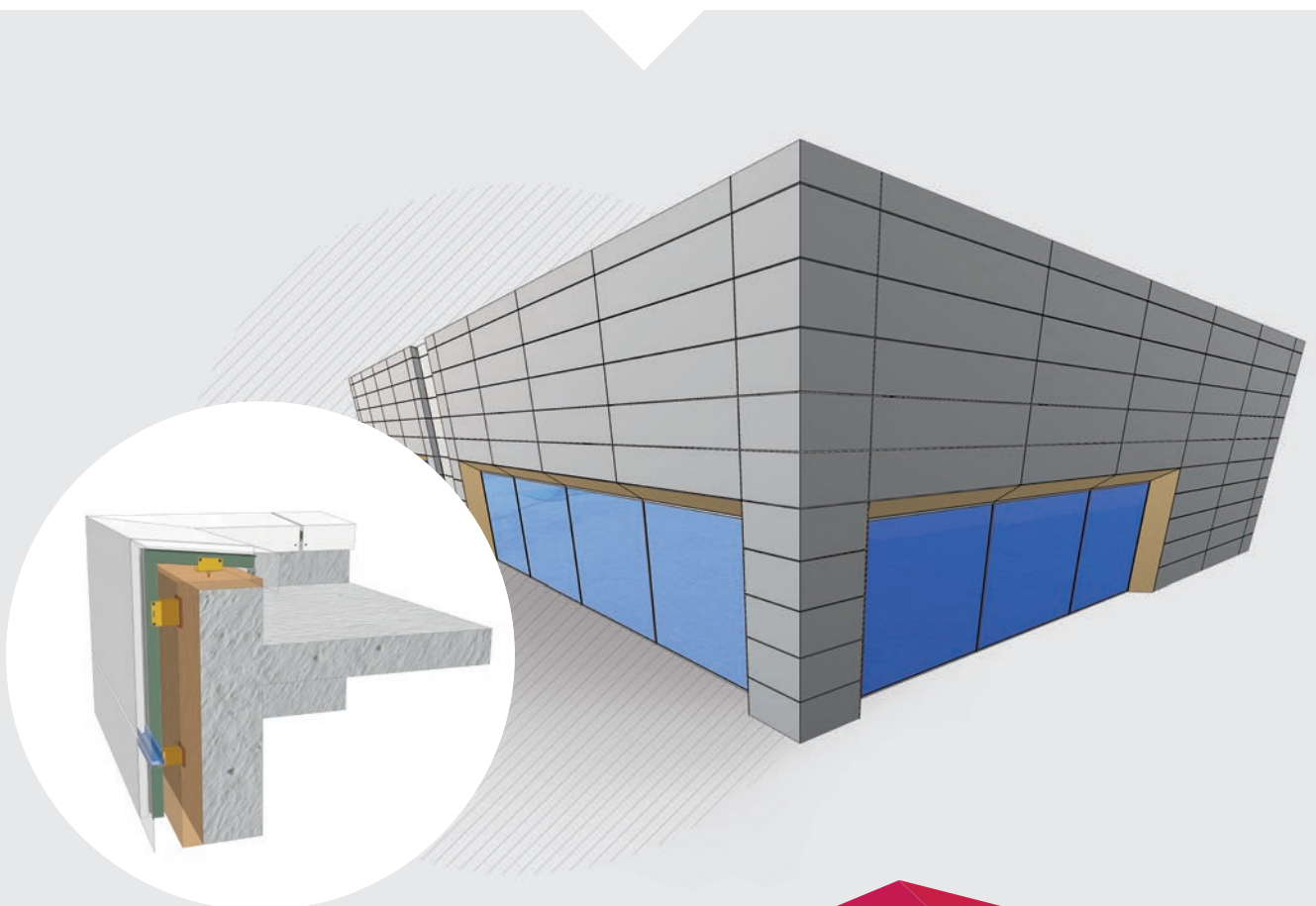
### **Design creatively in 2-D or 3-D**

You can work flexibly right from the start, whether in 2-D, 3-D or a combination of the two methods, while HiCAD supports you with its powerful functions. Choose our special suites for your requirements – the selection ranges from the pure ALUCOBOND® planner to individual 3-D facade and glazing planning tools.

Use our expert system to apply manufacturer-specific surfaces and colours without any additional effort. In HiCAD you have direct access to the ALUCOBOND® Shader / Surfaces as semi-finished products. This ensures an accurate output of the material in annotations, drawings and bills of materials. The representation of the facade adjusts itself in shaded HiCAD views to the wide range of ALUCOBOND® coatings, enabling an effortless integration of the required surfaces and colour variants into your drawing.

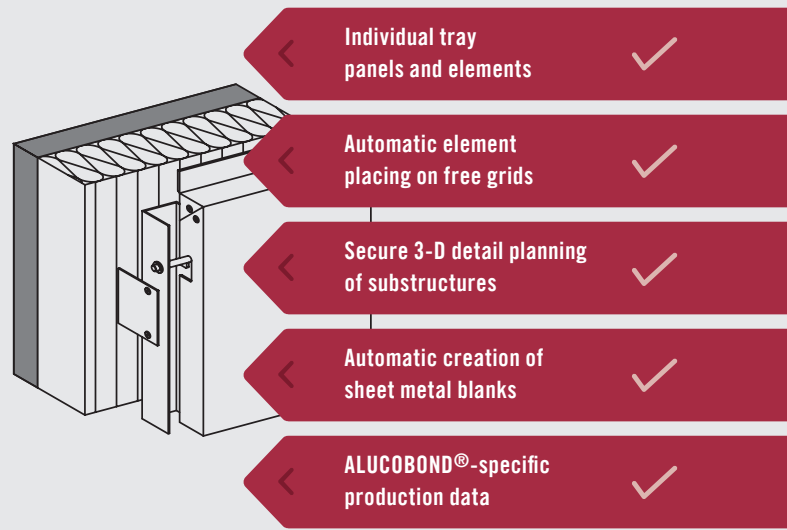
### **Modify and shape your models with smart functions**

Configure and conceptualize your ideas at high speed with the help of HiCAD and the exclusive HiCAD ALUCOBOND® solution! Use 3-D planning grids for the realisation and subsequent modification of simple or complex facade constructions. Smart functions allow a targeted and fast modification and detailing of corner connections, fasteners, clasps and other components, e.g. for creating connections to substructures. In case of changes the concerned joints and connections will be adjusted automatically.



# HiCAD – At a glance

Thanks to its modular structure, HiCAD can be individually extended and adjusted to our company-specific needs at any time. Four configuration levels of HiCAD ALUCOBOND® are available, which can be optimally supplemented with the HiCAD modules “Profile Installation” and “Element Installation”. If you are frequently dealing with cross-sectoral projects, you should also take a look at our solutions for mechanical engineering, plant construction, sheet metal processing, steel, metal and facade engineering and the creation of glazing constructions. Please feel free to contact us and request further information.



## HiCAD ALUCOBOND®

	Suite Standard	Suite Premium
<b>Basic functions</b> Sketching and modelling functions, constraints management, itemisation and identical part search, standard interfaces	✓	✓
<b>Report Manager professional</b> Deriving of quantity and structure BOMs from CAD structures, export as HTML, Excel or TXT file, sorting by various criteria, individual filter options for columns, calculation operations for columns, identical part search according to user-specific criteria	✓	✓
<b>3-D modelling and 3-D fasteners</b> Innovative 3-D functions and tools for realistic product models; standard parts for bolts, screws, studs, washers, nuts, dowels, anchors etc.	✓	✓
<b>Simulations</b> Motion simulations and physical simulations taking gravity into account, with collision check and video creation		✓
<b>Sheet Metal professional</b> Automatic development, blank calculation, calculation of estimated costs for laser cutting, production-oriented creation of sheet metal constructions with the help of special functions, e.g. for user-specific blank creation, bending simulations etc.	✓	✓
<b>2-D drawing functions</b> State-of-the-art 2-D drawing functions, 2-D HCM variant technology, all required 2-D drawing elements, 2-D standard parts		✓
<b>Metal Engineering</b> Special glass, metal and facade engineering functions for a fast realisation of room-closing elements in mullion-transom facades, LogiKal® interface		✓
<b>Document and Drawing Management in Civil Engineering (Management + BIM)</b> For a safe project handling with access to current design data, auto-generated drawings and bills of materials throughout the complete enterprise (* only in conjunction with HELIOS Engineer)	✓*	✓*





## Much more than just CAD - all from one source!

The ISD Group, one of the leading providers of CAD, PDM and automation software, develops innovative solutions for entire process chains. Our software products HiCAD and HELiOS help our customers realise the most demanding design tasks throughout all fields of industry. Besides developing and selling our software products we offer a wide range of services and have experienced specialists for consulting, installation, training, maintenance, and a hotline in place. This enables us to provide you with a truly comprehensive service package from one source. Short ways of communication and customer proximity are a matter of course for us.

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