

Software and internet applications

**WICTOP<sup>®</sup>**  
**WICPLOT<sup>®</sup>**  
**WICTIP<sup>®</sup>**



## Why WICONA?

Because as a successful aluminium systems company based in Germany, WICONA has more than 60 years' experience – experience from which you can benefit on a daily basis.

Not only are we able to fulfil the role of a reliable and co-operative supplier, but you can also enjoy the advantages of a strong, technologically advanced brand that has enjoyed long-term success in the market.

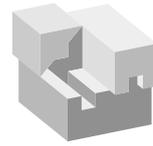
At WICONA, every detail counts: from detailed planning to the perfect processing material and rapid delivery right through to active sales support.

That's why you should choose  
**WICONA!**



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# WICONA<sup>®</sup> Unisys

Reduced complexity!

WICONA Unisys – reduced complexity, including when it comes

“Reduced complexity”–  
with WICONA, that is also true of the software  
and internet solutions.

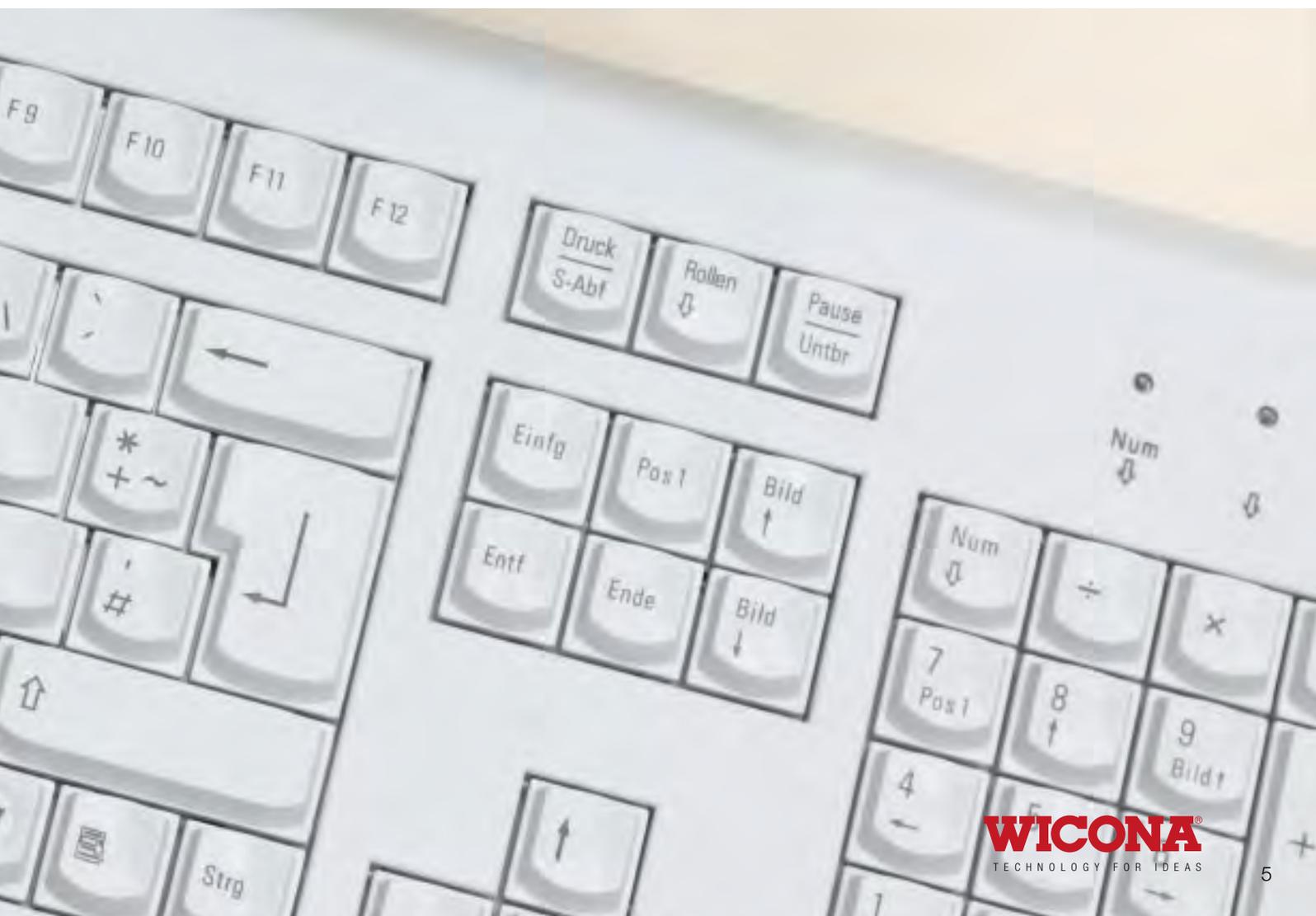


## to software and internet solutions

Complex tasks such as planning, calculation, preparatory work, control of machines, storage, materials flows and procurement of information are supported effectively by the WICONA software and the internet platforms.

Using these electronic tools, we aim to simplify your work as far as possible. For example, our software solutions make it significantly easier to deal with large quantities of information and the details available.

Fast and direct access to the most significant information – that is our motto, allowing you to derive additional benefits and concentrate on what is most important.



# WICONA®

## Software solutions & internet applications

### Software (available for purchase)

#### WICTOP®

- WICTOP is a three-dimensional design software application for specialist metalwork businesses and designers
- in preparing calculations,
- handling work preparation and
- controlling metalwork manufacturing.

#### WICPLOT® 2.0

WICPLOT 2.0 is a database-driven design software application with an interface to AutoCAD/AutoCAD LT. It is used to create detailed architectural drawings and design sections and contains all WICONA component articles, help functions and extensive standard part libraries.

### Internet applications (available free of charge)

#### WICTIP®

The WICONA technical information platform at [www.wictip.de/.com/.ch](http://www.wictip.de/.com/.ch) places the entire WICONA system documentation at your fingertips. Data such as product-range lists, processing guidelines, brochures, test certificates and design information can be called up and viewed interactively, with links to related information.

#### WICTIP® Download Centre



A logical addition to the WICTIP service is provided by the [www.wictip-downloadcenter.de/.com/.ch](http://www.wictip-downloadcenter.de/.com/.ch) internet portal. It allows fast searching and previewing of sample drawings, which can also be converted into common CAD formats and downloaded.

## WICTIP®



Under the WICTIP Tools heading, software tools for calculating technical data are provided.

For example, the U values of windows in accordance with EN 10077-1 can be calculated in their simplest form.

If you modify the settings (e.g. the Psi value) the result is calculated immediately.

An appropriate graph is created in order to show the influence and interdependence of the profile, glass and compound edge.

[www.wictip-tools.de/.com/.net](http://www.wictip-tools.de/.com/.net)

## WICONA® Finder

Using the new WICONA Finder internet platform, you can find online any information on structures anywhere in the world. The site provides access to the design details behind the architecture, demonstrating solutions based on real-life construction examples.

[www.wiconafinder.de](http://www.wiconafinder.de)

## WICONA® Tender specifications

All WICONA tender specifications are available on the internet for you to download. You can access the library at [www.wictip.de/ausschreibungstexte](http://www.wictip.de/ausschreibungstexte) or follow the links to the tender specifications at [www.wicona.de](http://www.wicona.de)

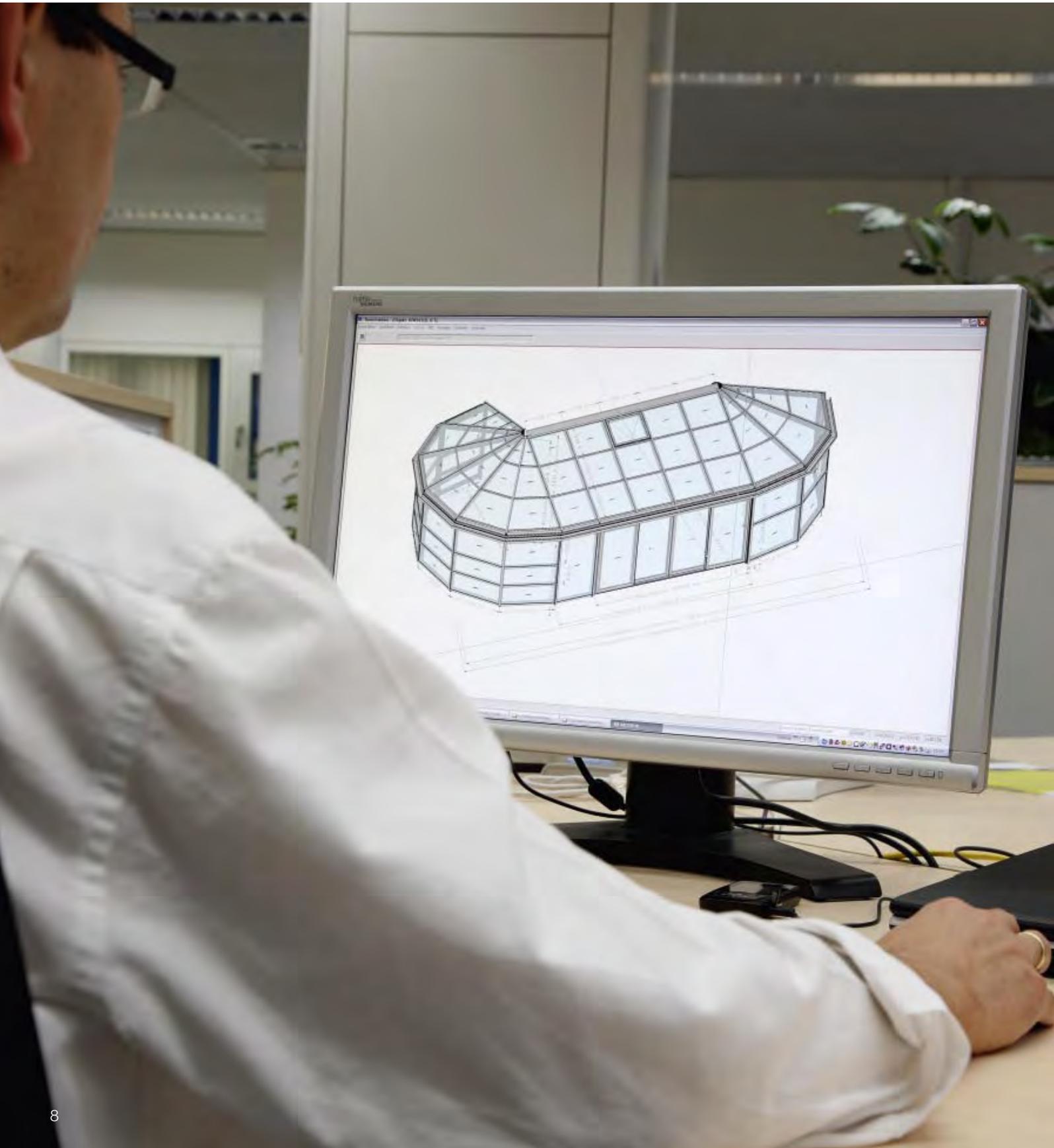
There you will find preliminary notes, technical specifications for the systems and an extensive range of text modules, e.g. concerning fittings, surfaces or types of glazing. You will be supported by easy-to-use search functions. It is possible to download the text modules in many various formats.

## WICTOP® Download-Center



The downloads made available through our download centre at the website [www.wictop.de](http://www.wictop.de) provide our customers with updates for the WICTOP database.

# WICTOP<sup>®</sup> – designing in a new dimension



This is typical of WICONA: we develop software for practical applications. WICTOP has constantly been updated and improved with your suggestions and information.

The program supports the entire process of technical work preparation, including calculation of profile dimensions and sections in combination with the associated 3D views, parts lists and technical drawings. It fully meets the demand for a truly practice-based software solution for façade, door and window design.

With **WICTOP**, you can optimise your materials flow and reduce processing costs. WICTOP provides you with high-performance components:

- Calculation and preparation of tenders
- Parts lists
- Cutting optimisation
- Drawings (views and sections)
- Ordering
- Control of manufacturing
- Set-up of drawings
- Manufacturing drawings

#### The technical scope of WICTOP

1. Façade, window, door and slider constructions
2. Inclined units
3. Free infill and crossbar construction
4. 3-D constructions such as cupolas or conservatories
5. Static calculations and calculations relevant to building physics
6. Junctions to structure

#### The principle is very simple

- In order to process a project, you will resort to the WICONA standard models or make use of company-specific standard models which you have personally installed. Once the dimensions and design of the construction have been adjusted, the calculation phase for the complete element is launched.

**After the calculation, the following data will be available immediately:**

- Calculation
- Cutting optimisation with information on notches and three-dimensional cuts
- Parts lists
- Precise determination and depiction of edged sheet metal
- Automatic, construction-specific calculation of connection accessories, height of thermal break profile, glass, glazing beads and fittings
- Glass drawings for any geometric shape
- Manufacturing drawings
- DXF/DWG interface for 3-D views and 2-D cross-sections
- Generation of data for machine controls (saws and profile processing centres)
- Order lists
- Generation of data for materials management systems
- Issue of EPD reports (environmental product declaration)
- Photorealistic view of the element, which can be rotated
- Program for calculating U coefficient, validated by the ift

# WICTOP® – designing in a new dimension



**WICTOP** significantly simplifies project processing in 2-D and 3-D, as well as certifying this process. The era when processing took all day is now in the past, as this program means you can do everything in a few hours. What is more, you have greater process safety, as WICTOP supports you with constructive plausibility checks, in order to avoid errors.

The graphical user interface and the clear user guide incorporated in **WICTOP** offer an extremely high level of convenience and a whole range of specific benefits:

- Unrestricted diversity of construction with WICONA profile ranges
- Optional models
- Unlimited number of fields

**WICTOP** is designed as a stepped model: Depending on your operational requirements you can select: modules ranging from a two-dimensional basic module of window and door profiles to a complete 3-D module, without any limitations on construction. Furthermore, you can expand your module using various interfaces (DXF, profile processing centre, product planning and control system, etc.).

**WICTOP** will always seem familiar to you.

This is because the software design corresponds to the latest programming technology. Using the mouse, you click on the appropriate symbols, open the menus or windows and activate the function you require. Simple and intuitive, fast and uncomplicated. Our professional briefing and your specialist knowledge from the fields of planning and construction will ensure that you will be able to make effective use of WICTOP within your company in a short time.

In order to verify the accuracy of the construction, WICTOP offers you elevation drawings where you can set the view angle as you wish. As a support for the manufacturing, the program automatically generates the three-dimensional views of profiles involving complex processing, such as three-dimensional or multiple cuts. The processes for the profiles are shown on detailed scale drawings.

The outstanding benefit: photorealistic drawings can be used to visualise every detail and as a sales aid in the tendering process.

Your whole company will benefit from the high functional safety of our WICTOP software solution. In order to ensure that this level of safety is maintained, we provide support in all issues concerning use of the software. This begins long before the software is even installed. Together with you we analyse your precise requirements and advise you on making the right decision. The outcome is an optimal solution, perfectly adapted to your individual operational requirements. Of course, the same applies to the system requirements of your hardware, on which we will be happy to advise you. This allows you to exploit the full performance of the software package. Regular free training sessions, technical support and our hotline will keep you up to date and help to overcome any difficulties.

## Overview of the advantages of WICTOP

- Training and support are included in the price
- With the WICONA profile ranges there are no restrictions on construction and an unlimited number of fields
- Modular construction
- Photorealistic drawings
- Integrated visual plausibility check, visual depiction of the input data
- Complete calculation of cutting, glazing, three-dimensional cuts, notches, edged sheet metal
- Generation of sections and views that can be selected as wished, with transfer into almost any CAD system
- On-site changes can be updated simply and quickly
- Control of nearly all double mitre saws and profile preparation centres
- Provide data for the materials management
- EPD Environmental Product Declaration – Environmental information for an individual building shell is available at the push of a Button.
- Program for calculating U coefficient, validated by the ift

# WICPLOT<sup>®</sup> 20 – technical drawings accur

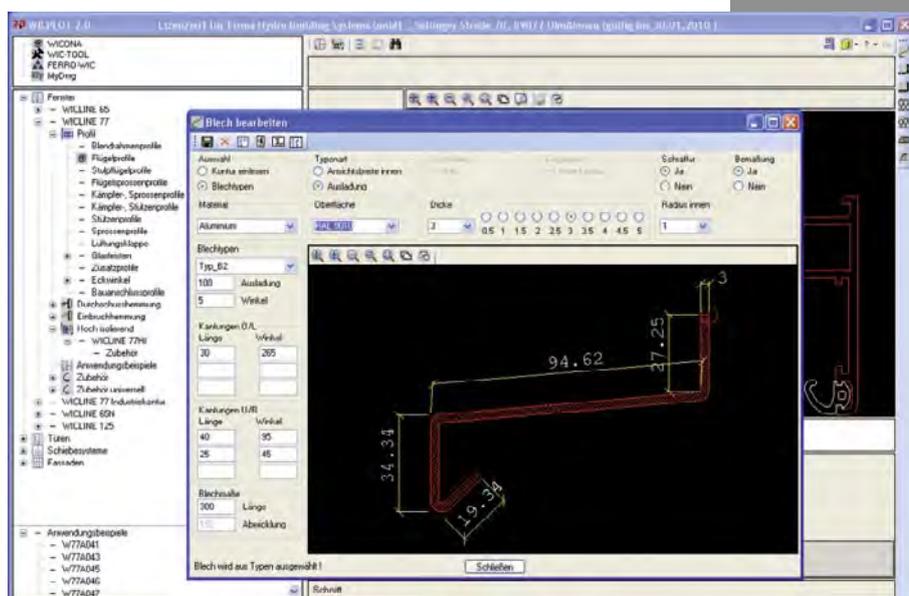


# ately compiled

WICPLOT 2.0 is a professional software from WICONA, developed specially for the metal construction industry. It was planned and designed in close collaboration with the users, in order to simplify the task of compiling technical drawings for metal structures. Important functions for simple and uncomplicated processing of drawings of junctions to structures and construction sections are available. The library of standard parts included in the software offers semi-finished products in aluminium, steel and stainless steel, as well as connection elements that are specific to the metal construction industry.

## An overview of WICPLOT 2.0

- Easy application of profiles and accessories
- Loading application examples
- Convenient program module for generating sheeting, films, insulation and seals
- Libraries of standard parts for aluminium, steel and stainless steel profiles, as well as connection elements specific to the metal construction industry
- Single-user or network installation
- Select from the following language settings: English, German and French
- Can be used as a viewer with the option of printing, without a CAD link



# WICTIP® – Technical information platform



Reduced complexity – the well-known principle behind WICONA Unisys also applies here.

A user-friendly information platform for everything: WICTIP. This documentation, supported by an online database, provides planners, architects, general contractors and specialist metal construction companies with an exhaustive selection of documents on all WICONA products. It can be called up on the internet at any time and is updated permanently.

With this fundamental information on the complete WICONA product range – including test certificates, standards, structural calculations and documentations on the CE marking – WICTIP is a central component in WICONA's integrated system concept.

If you don't have one already:

**Apply for your personal access password at <http://www.wictip.de> (link to registration form) - it is quick and easy**

## Easy-to-use functions simplify handling

The WICTIP system uses typical web-based navigation elements and allows the user to gain a greater overview. With easy-to-use search functions, you can navigate within the tree structure. Furthermore, a full text search and an item-specific name search is in place.

When one point in the tree structure is selected, the contents of a database are drawn together as relevant to the context. Further links lead you to the desired documentation content in a clear manner. The preselected content is gradually narrowed down, until finally the information you require is offered. In the complex field of door fittings, this logic has been implemented in a particularly impressive manner.

When preparing the documents for use in electronic format, we have focused on your day-to-day work and made further improvements to the way in which construction points are displayed. For example, with an easy-to-use zoom function, you can enlarge specific areas of the drawings you require on screen. Are you familiar with the Orbit mode? With a simple movement of the mouse in this mode, you can move complex processes (e.g. notches) through three dimensions and view them from an extremely wide range of angles. In addition, the several hundred film animations available are also very useful.

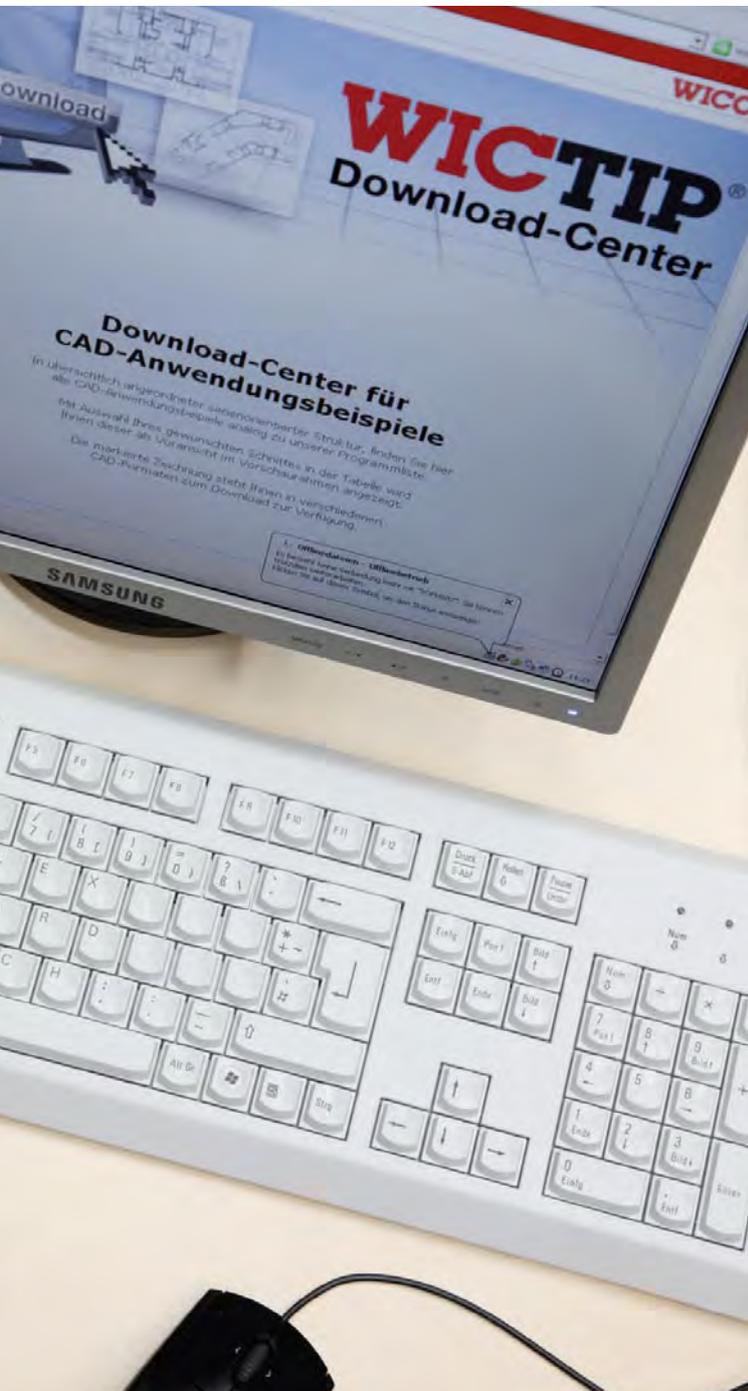
## WICTIP at a glance

- Simple, quick user navigation provides a greater overview
- Download CAD applications and profile cross sections
- Always up to date
- Easy-to-use search functions
- Three-dimensional view options in “orbit” mode
- All areas interlinked
- Zoom function in technical drawings
- Several hundred animations and images of all system items
- Contains test certificates, standards, structural calculations
- CE marking taken into account

**WICTIP**<sup>®</sup>  
Download-Center



– all data are directly



In order to make your information available even more quickly, we have expanded the WICTIP portal to incorporate the WICTIP Download Centre.

Here the WICONA product range is depicted clearly and it is very simple to download information for further processing.

#### Rapid image scrolling and independence from browser

The WICTIP Download Centre was developed in order to simplify the process of working with WICONA products. Consequently, we accorded the following aspects the highest priority:

- Fast image scrolling despite complex contents
- Operation without the need for additional software
- and browser independence

You can access the download centre using all current browsers such as Firefox, Opera, Netscape, Internet Explorer and Safari. Safari is popular with Apple users and therefore offers particular advantages for architects and planners.

# available

## Fast download in CAD format

You can easily download the selected section in the CAD format you require (dwg or dxf). In this process, the data are converted directly on the web server, meaning that you save the time and expense required to install extra software.

In addition to the sectional drawings, you can also download individual profile cross sections as CAD drawings or range-specific combined packages.

## Anmelden und Loslegen

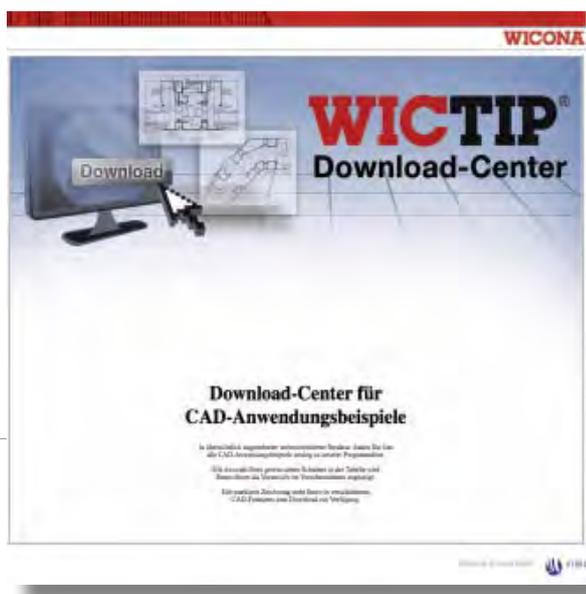
Do you already have access to WICTIP?

In this case, it is easy to log in to and work in the new Download Centre using your existing username and password.

You do not yet have access to WICTIP?

Then it's high time you did! Apply for your access password at <http://www.wictip.de> (link to registration form) or

<http://www.wictip-downloadcenter.de> - it is quick and easy.



## An overview of the WICTIP Download Centre

- Download by range or by specific item
- Comprehensive, up-to-date construction catalogue
- Language selection: English, German and French
- Compatible with all current browsers
- Clear, series-specific navigation
- Fast image scrolling despite complex contents
- Operates without the need for additional software
- Full text search and keyword combinations
- Conversion to the file format of your choice (dwg, dxf) for import into your CAD program



# WICTIP<sup>®</sup>

Tools



## Your »online toolbox«



**Einstellungen**

Serie:  WICLINE 77 HI

Ansichtsweite:  106 mm  
1.5 W/m<sup>2</sup>K

U<sub>g</sub>:  0.7 W/m<sup>2</sup>K  
3fach Isolierglas

Psi:  0.04 W/m<sup>2</sup>K  
BV Flachglas  
Kunststoffrandverbund

**Ergebnisse**

$$U_w = \frac{U_f \cdot A_f + U_g \cdot A_g + \Psi_{Si} \cdot I_g}{A}$$

$$\frac{1.50 \cdot 0.570 + 0.70 \cdot 1.470 + 0.040 \cdot 4.952}{2.040}$$

### U<sub>w</sub> = 1.0 W/m<sup>2</sup>K

**Einflussanteile in Prozent**

Einflussanteile in Prozent	Wert
Profile	45,4 %
Glas	41,1 %
Randverbund	9,5 %

### Calculation of U values

- The U values of windows in accordance with EN 10077-1 can be calculated in their simplest form. By using the slider, the outcome is altered dynamically.
- After modifying the element size or the type of opening, a corresponding scale preview of the window is generated.
- An appropriate graph is created in order to show the influence and interdependence of the profile, glass and compound edge.

### You benefit from:

- Simple, playful comparison of the WICONA window ranges
- Visual depiction of the factors influencing the calculation of the U<sub>w</sub> value
- Overview of the interplay between glazing, window range and edge compound
  - making it easy to determine the WICONA window range which best suites your requirements

### Logging in and getting started

Do you already have access to WICTIP?

In this case, it is easy to log in and work with WICTIP Tools using your existing username and password.

You do not yet have access to WICTIP?

Then it's high time you did! Apply for your access password at

<http://www.wictip.de> (link to registration form) or

<http://www.wictip-tools.de> - it is quick and easy.

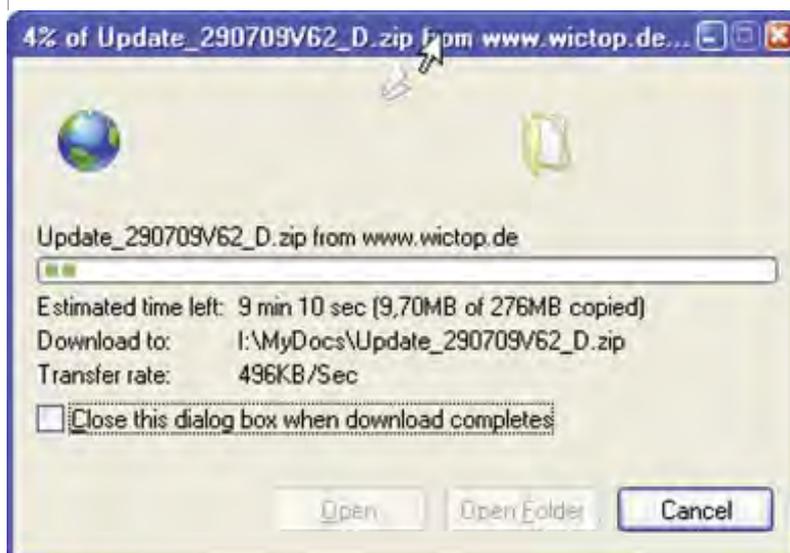


## Up-to-date database

The downloads made available through the [www.wictop.de](http://www.wictop.de) website provide you with the opportunity to install updates for your WICTOP database. The latest changes are documented along with their publication date in a compact text file.

### Always up to date

We will notify you whenever a new update becomes available.



# WICONA® – Tender specifications

The internet library contains approximately 300 tender texts from preliminary notes and technical specifications for the systems to an extensive range of text modules, e.g. concerning fittings, surfaces, types of glazing or with general contractual information.

All current file formats (GAEB, DATANORM, ÖNORM, HTML, TEXT, XML) are available for download.

On this platform we provide all the information and tools that architects, planners and specialist metal construction companies require for tenders.

Where to find the WICONA tender library:

Follow the links to the tender documents at [www.wicona.de](http://www.wicona.de)

or enter the following address directly:  
[www.wictip.de/ausschreibungstexte](http://www.wictip.de/ausschreibungstexte)

## Overview of contents

### Notes

- Type and scope of services
- Construction system
- Architectural plans and list of services
- Bidder's drawings for the tender

### Technical provisions

- Regulations, standards, guidelines

### Materials

- Aluminium components
- Steel components
- Connections
- Gaskets
- Fittings
- Glass

### Surface treatment – surface protection

- Anodisation
- Coating

### Requirements relevant to building physics

- Protection from heat and condensation
- Sound protection
- Fire protection

The tender provision is rounded off by text modules covering all the WICONA systems, for all additional metal construction work, and by text elements of a general contractual nature.

**Requirements in terms of construction**

- Static requirements
- Tightness against driving rain and joint permeability
- Processing
- Choice of profile
- Profile connections
- Sash gaskets
- Drainage and vapour pressure compensation of the construction
- Glazing, infill

**Assembly of the structure**

- Dimensions and dimensional measurement of the structure
- Cutting checks, axes, fitting level
- Fixing equipment
- Connections and seals
- Operating tools
- Cleaning
- Functional checks
- Technical description
- Information on the project and the bidder
- Deadlines/dimensional information/system requirements
- Overview of construction
- Surface treatment
- Fittings
- Junctions to structure
- Parapet panels
- Glazing
- Sunshade

**Overview of other advantages**

- No costs for the user
- Available around the clock
- Always up to date
- Texts can be copied quickly and easily into the tender document, often using the “drag & drop” function
- Download in all relevant file formats
- No sign-up or registration required



# WICONA® Finder – the ideas portal for



WICONA is the top brand for aluminium profile system, as we lead the market with real innovations in an extremely wide range of areas and, together with you, always remain one step ahead of the competition.

Latest example: the new WICONA Finder internet platform [www.wiconafinder.de](http://www.wiconafinder.de)



WICONA Finder allows you to carry out online research on the building, on the basis of the design principles of the building shell. The site provides access to the design details behind the architecture, demonstrating solutions based on real-life construction examples. Unique to WICONA Finder: The platform is interactive, meaning that, as the user and a WICONA customer, you help to shape the tool. You can request varying levels of information on the different projects according to your own knowledge and interests, and can also upload your own reference details.

# aluminium profile systems

## The principle

You have a specific task for the building project and, first of all, develop your own initial assumptions concerning various construction versions. Using WICONA Finder, you can find examples of how similar tasks have already been implemented in the real world of construction. With the aid of these results, your own requirements can be checked and specified in greater detail. At the end of your research, you can then find products and technical details which you will use to implement your initial task.

WICONA Finder incorporates a keyword search facility to enable users to

- find existing solutions on the basis of common façade construction principles,
- track down WICONA solutions used in façade building projects around the world,
- view the design and technical specifications of each project,
- use these ideas in their own drafts.
- You can even add your own reference projects with all the associated specifications.

Of course, the principle behind WICONA Unisys “reduced complexity” also applies here. You will receive direct, fast responses to your questions, through a very pleasing interface.

The “fun” factor is a vital aspect. The structure and form of the WICONA Finder are based on the latest internet culture: simple, direct access to information using state-of-the-art technologies and an impressive graphic design.





– get involved in the



### Search functions

Define the building type for which you are looking for solutions or which construction principle you wish to use. Based on the example of a project which has been completed, you will obtain specific information on suitable products.

Using an "extended search" function you can refine or broaden your requirements or search, for example using the "region" function, which permits a search within a specific region.



# design

## Contents

- Reference projects with a short description of the project as a “fact file”
- Description of the product groups used (façades, windows, doors) with any special features.
- Technical details on the WICONA products that have been incorporated in the relevant reference project
- Link to well-known WICONA service modules (WICTIP, tender specifications)
- Map function: The reference buildings can be displayed as icons in a map overview (like a city plan).
- My WICONA: secure area where users can manage their reference buildings and the corresponding detailed information. From the first stage of application to the interesting references buildings which they wish to note.
- Service and support area

## Designed actively by users

The WICONA Finder relies on the interactive participation and commitment of its users.

As a specialist metal construction company, you can upload your special reference projects to the platform – the only condition is that they use WICONA products.

## Overview of the advantages of the WICONA Finder

- Demonstrate your capabilities on the basis of actual projects, pictures and details
- Provide your own target groups (architects, authorities, end users) with tailored information about your company’s achievements
- Design principles and technologies can be communicated more quickly.
- Decision-making processes and contract negotiation workflows involving planners, architects and clients can be simplified.





### Façade systems

## WICTEC®

Façade series with wide range of application and intelligent system design



### Door systems

## WICSTYLE®

Door ranges comprising all the major functions with regard to thermal insulation, security and aesthetics

## WICSLIDE®

Sliding, lifting/sliding and folding/sliding elements support a wide range of design options for salesrooms and living rooms, conservatories and glass extensions



### Window systems

## WICLINE®

Window range with the technical functions and design options for any architectural plans



### Security and safety

- Burglar resistance
- Bullet resistance
- Smoke control
- Fire protection



### Fittings

## WICSTAR®

Specially developed and designed fitting systems for all opening variants of the WICLINE window systems



### Software

## WICTOP®

Practical, complete software solution with optimum ease-of-use for façade, window and door construction



### Equipment and tools

## WICPRO®

Complete package of tools for safe and efficient working with WICONA profiles

## WICPLOT®

AutoCAD application to provide professional support in creating technical drawings for metalwork constructions

## WICTIP®

Online information platform for full, up-to-date documentation of all WICONA products

Software and internet applications

**WICTOP®**  
**WICPLOT®**  
**WICTIP®**

**Hydro Building Systems GmbH**

Söflinger Straße 70  
89077 Ulm/Donau  
Germany  
Phone +49 (0) 7 31 39 84-0  
Telefax +49 (0) 7 31 39 84-2 41  
[www.wicona.com](http://www.wicona.com)