

# SOFTWARE SUITE

## Connecting people



WIC3D | WICTOP | WICPLOT



**WICONA**<sup>®</sup>  
TECHNIK FÜR IDEEN

# » Software suite

## Connecting people to simplify the processes

At WICONA, every detail counts. From detailed planning to perfect material processing and rapid delivery right through to active sales support, WICONA strives for professionalism at every step of the building process.

That's why since 1990, we've developed and delivered our own 'best in class' software suite. This means that anyone in the building systems market (planners, architects, general constructors, metal builders etc.) can find their perfect solution.

The building industry today is a fast moving and challenging environment. We offer IT tools which will allow anyone involved in a building project to exchange vital information (3D models, BIM requirements, technical drawings, mechanical information and prices) in a fast and effective way.

Our WICONA fully interconnected IT solutions also bring a competitive advantage: simplifying and speeding up day-to-day tasks to make you and your business more efficient.

In order to do this, we've created an 'end to end' solution that thanks to an automatic information exchange assists from the first sketches of a building right up until delivery.

Our architects sketching software, WIC3D, shares data with our quotation software 'WICTOP', and allows fabricators to quote directly from an architect drawing. WICTOP also provides all the data for PMC through a direct connection.

A direct electronic ordering system is already set up between our main quotation and fabrication software WICTOP and our internal ERP to fully automate work-flow. We also send information to our users in real time about product availability and delivery information.

In addition, WICTOP comes packaged with our 'WICPLOT' software, allowing the metal builder to create detailed architectural drawings and fully designed sections.

Our ambition with the WICONA IT Suite is to connect every step of your building project simply, making you and your business more efficient.

## 3 Softwares solutions

Complex tasks such as sketching, planning, calculations, preparatory work, control of machines, storage, materials flows and supply of information are supported effectively by the WICONA software suite.

WICONA aims to simplify building project management as much as possible. For example, our software solutions make it significantly easier to deal with large quantities of information and technical information.

Our belief is that by giving our customers fast and direct access to the most important information, this increases efficiency, allowing them to concentrate on the most important tasks. WICONA offers these software solutions for building project management:

- WIC3D is an innovative and simple sketching tool which has been specially designed for architects, specifiers and fabricators, helping save time in producing 2D and 3D drawings, alongside 3D rendered models for architectural aluminium designs. It can also assist in designing complex shape structures as an interface with WICTOP. Due to its graphical capabilities it is the perfect start point for BIM data definition, generation and exporting data for BIM software.
- WICTOP is a three-dimensional design software application for specialist metalwork businesses and designers. Perfect for preparing technical criteria for jobs, price calculations, handling work preparation, controlling metalwork manufacturing, issuing technical and normative statements and managing orders.
- 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 components. It also includes all glass and panel data and connections to buildings, help functions and extensive standard part libraries.



-  Simplify building project management
-  Easy collaboration
-  BIM full compatibility
-  Cost efficiency



# » Modelling in new dimensions

## WIC3D – Expert 3D software

For complex constructions, such as curtain walling, WICONA has created its own specific piece of software: WIC3D.

Once the initial design has been created, in Sketchup® for example, architects can send it to the WIC3D software. Once uploaded, projects can then be brought to life using WICONA products that are integrated into the software. Once any changes have been made, architects can reintegrate them into their design. This same data can be used within WICTOP, the technical costing and design software. The benefit of using these programs is that any design now incorporates accurate and true to life WICONA products. Once any modifications have been made to the project, the fabricator can then send any data back to the architect or design office in order to calculate the buildings performance.

WIC3D is also an intuitive and innovative BIM sketching tool which has been specially designed for architects, specifiers and fabricators, saving time in producing 3D drawings and 3D rendered models.

### Create

WIC3D has been developed following consultation with leading architects.

- Using the software, designers are able to quickly sketch initial concepts and ideas, including complex shapes, with ease. Any design can incorporate WICONA WICTEC curtain walling, WICSOLAIRE solar shading system, WICLINE window and WICSTYLE door infills.
- Within WIC3D, specifiers are able to create simple product renders at the earliest project design stages.

### Visualise

- Architects have the capability to visualise any project to scale, built using WICONA products, thus improving accuracy and saving time.
- Specifiers are able to see how projects will look both internally and externally, including proportions, configurations and any relevant product options (open and closed vents etc).

### Communicate

WIC3D is designed to integrate with architectural CAD systems so 2D and 3D drawings can be imported and exported.

- WIC3D is designed to integrate with architectural CAD systems so 2D and 3D drawings can be imported and exported.
- A 3D construction created in SketchUp® can be imported into WIC3D to produce and show a 3D rendered model where required.
- The same designs can be exported into WICTOP to define its technical content more accurately. This enables any project to feel as if it was designed inside WICTOP.
- A 2D elevation drawing can be imported as a template to create a 3D rendered model; and can be exported for use with all major CAD software, including AutoCAD®, AutoCAD Architecture®, Bentley®, and Archicad®.
- 3D rendered models can be exported for use with SketchUp® or in 3DS format to work with Autodesk 3D Studio Max® and Autodesk Building Design Suite®.

**Need BIM Models? WIC3D is the perfect tool for designing BIM Models for use in any project with direct IFC export.**



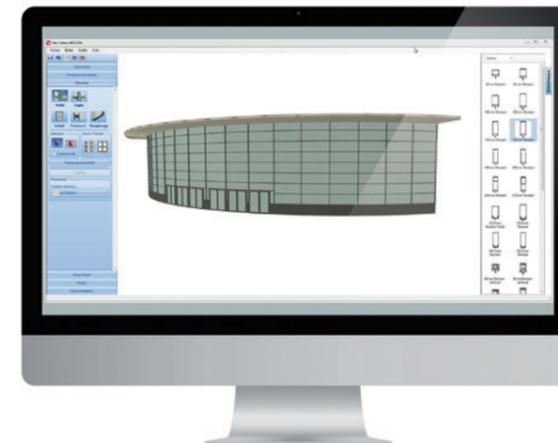
## BIM aluminium objects library

BIM (or “Building Information Modelling”) is defined in the BIM Handbook as a technology in which “an accurate virtual model of a building is constructed digitally.” These models facilitate the design process with improved analysis and control compared with manual procedures. “When completed, these computer generated models contain precise geometry and data needed to support construction, fabrication, and procurement.”

WICONA supports this mentality, which is already mandatory in some countries for public buildings and should progressively be deployed all over the world. Our desire has always been to be a market leader with regards to design support tools, using a global approach towards our integrated high-performance solutions.

### WICONA's approach is twofold:

- WICONA provides our product libraries in the “REVIT” and “ARCHICAD” formats. The products included such as the WICTEC 50 façade, WICLINE windows and WICSTYLE doors are available to download from the WICONA websites.
- The BIM methodology allows all project stakeholders (designers, architects, engineers, builders etc.) to be able to work collaboratively and to have access to the same product information simultaneously. The data can then be assembled on a single digital model, rather than hundreds of separate illustrations. BIM objects are designed to be displayed in 3D, in order to showcase each products physical and functional characteristic (colour, materials, dimensions etc.).



In order to simplify and accelerate the planning process, WICONA provides a large library of BIM objects. By having BIM models already created, projects can be designed and created faster, with maximum accuracy and detail.

WICONA builds all of its digital models as close to the physical product as possible. They are all tailored to be used specifically within BIM projects. Our windows, doors, sliders and façades are available in several design configurations, combined with true to life materials.

#### WINDOWS:

WICLINE 65 & 75 evo & WICLINE 95

#### DOORS:

WICSTYLE 75 evo & WICSTYLE 77 FP

#### SLIDERS:

WICSLIDE 65, WICSLIDE 160 & WICLINE 95

#### CURTAIN WALLING:

WICTEC 50 & WICTEC 50 SG

All WICONA models are high quality, available in various formats (Autodesk Revit, Archicad IFC) and downloadable from the WICONA website.

### Advantages of using BIM models:

- Information is accessible to anyone working on site.
- Use of 3D plans which are compatible with the various “trade” software applications.
- No re-entering, loss or alteration of data when transferring plans.
- Project information at your fingertips, even beyond the term of the project and service life of the project.

# » Designing in 3 dimensions

## WICTOP – Calculating, dimensioning, preparing, piloting

At WICONA, we develop software for practical technical applications.

WICTOP is constantly updated and improved by your suggestions. We've learnt that to be useful to our customers, our software needs to constantly evolve.

WICTOP supports the entire technical work preparation process, including the calculation of profile dimensions and sections combined with 3D views, part lists and technical drawings. It fully meets the demand for a truly 'practice-based' software solution for façade, solar shading, balustrading, door and window designs.

With WICTOP, you can definitively optimise your materials flow and reduce processing costs. Pricing is key: it is versatile enough to adapt to any situation or requirement (materials, labour, and cost) to be included in a project. Output statements can also provide you with any necessary information.

### WICTOP provides professional features:

- Calculation and preparation of tenders
- Quotation and estimate documents
- Price break down
- Statics calculation
- Technical and normative documents like thermal coefficients, EPD & CE marking
- Parts lists for assembly
- Cutting optimization
- Manufacturing drawings (views and technical cross sections)
- Ordering
- Site installation documents for façades

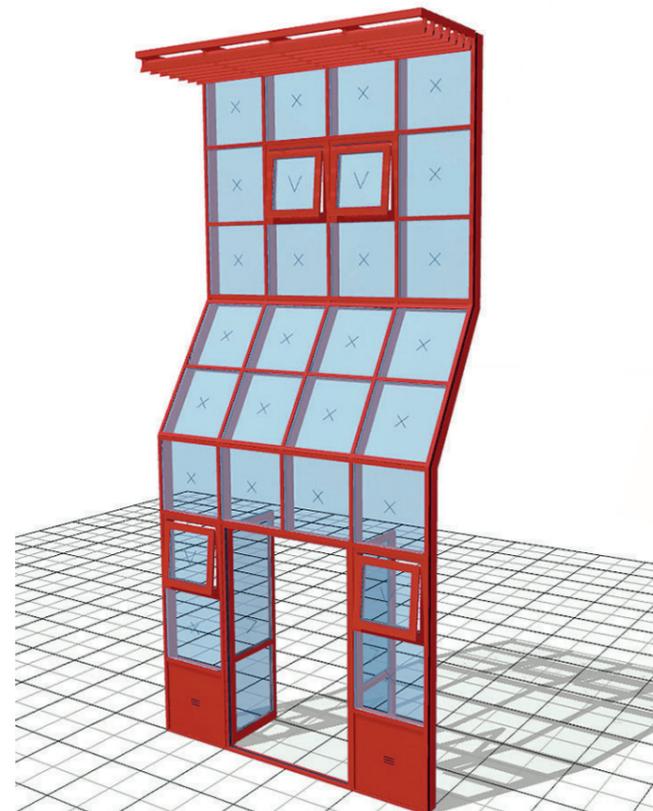
### The technical capability of WICTOP

- A wide range of products such as façades, windows, doors and sliders with specifically designed wizards (solar shading, balustrading)
- Inclined, stepped, corner and curved units
- 3D constructions such as cupolas, domes and glass houses
- Accurate statical calculations and calculations relevant to building physics
- Junctions to structure

### The principle is very simple

In order to process a project, WICONA standard models are provided to you or may make use of 'company-specific' standard models which you have personally designed.

As soon as your construction and its dimensions have been adjusted, the calculation functionality is launched.



### After calculation, the following data is available:

- Pricing and price break down
- Parts lists
- Precise determination and depiction of edged sheet metal
- Automatic construction-specific calculations of connecting accessories, height of thermal break profile, glass, glazing beads and fittings
- Glass drawings for any geometric shape
- Cutting optimization with information on notches and three-dimensional cuts
- Manufacturing and milling drawings
- DXF/DWG interface for 3D views and 2D cross-sections
- Generation of data for machine controls (saws and profile processing centres)
- Order lists
- Generation of data for materials management systems and downstream ERPs
- Issue of EPD reports (environmental product declaration) and CE marking
- Photorealistic view of the element, which can be rotated
- Program for calculating U coefficient, validated by the IFT in Rosenheim (Germany)
- Orders can be created:
  - orders to WICONA: standard or EDI
  - orders to others suppliers like glass suppliers.

WICTOP significantly simplifies project processing in 2D and 3D, as well as certifying this process.

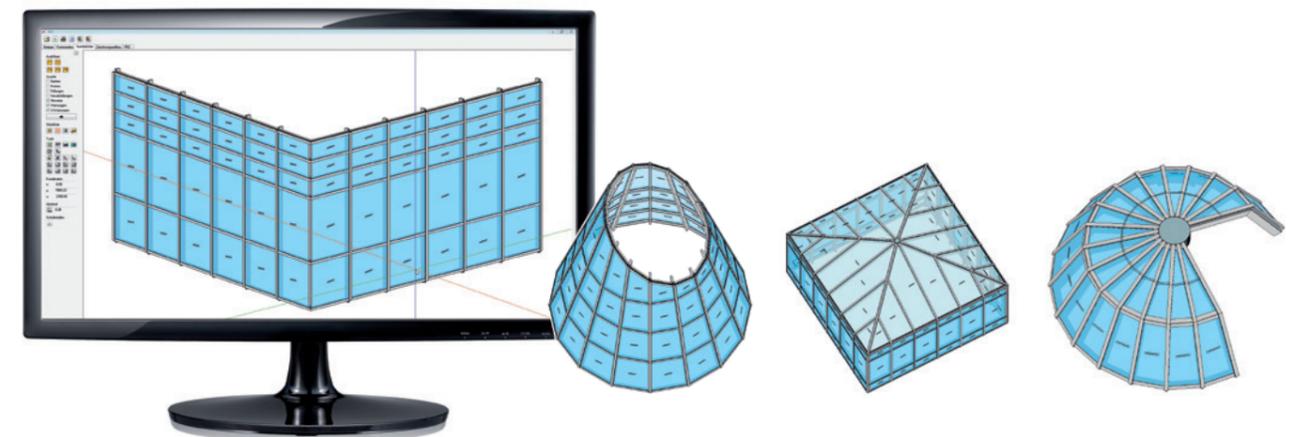
The era when processing took all day is now in the past, using WICTOP means you can do everything in a few hours. What's more, due to all the know-how our skilled technical integrators put into the database, you have greater process safety as WICTOP supports you with constructive plausibility checks in order to avoid errors when design and execution are done.

The user interface offers an extremely high level of convenience and a whole range of specific benefits:

- Unrestricted construction with WICONA profile ranges
- Unlimited size for constructions
- Optional models

**WICTOP is designed as modular software. Depending on your operational requirements, you can select only the modules that suit your specific needs.**

To get the maximum benefit from WICTOP, dedicated training and unlimited user support is provided, as well as downloads to always keep your software, technical information and price lists updated.



# » Compiling technical drawings

## WICPLOT 2.0

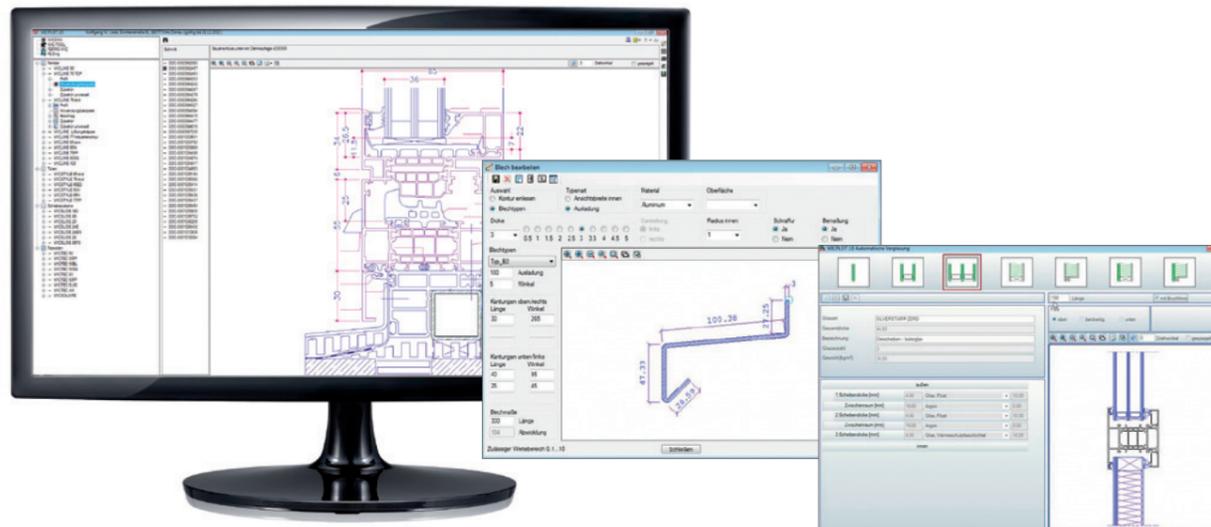
WICPLOT 2.0 is a professional software package from WICONA, developed especially for the metal construction industry.

BPlanned and designed in close collaboration with its users, WICPLOT simplifies the task of creating technical drawings for metal structures. One of the best features of WICPLOT is how simple and uncomplicated the processing of drawings is.

Included in the software is an extensive library of 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 module for generating sheeting, films, insulation and weathering
- Library of standard parts for aluminium, steel and stainless steel profiles and extensive connection elements
- Can be used as a drawing viewer with the option of printing, without any CAD link



## Dedicated services & support

### Continuous improvements in functionality, updated in real time:

In order to assist the rapidly changing needs of our customers, our team provides continuous updates of our software for both functionality and the databases.

The updates are available for users of our software tools via an on-line download. Fast and efficient, users can enjoy improved software with just a few clicks.

The WICONA product database is regularly updated to reflect new products. This database is managed by our own developers and technical staff, ensuring quality.



### Training:

To get the maximum benefit from our software suite, we provide tailored training programs for each type of use. Different training options are available, from shared sessions in our own training center to 'one on one' training at our customers premises, we constantly strive to help our users better control the software. Led by experienced trainers, these training courses allow for immediate practical experience

### Assistance and remote help:

To ensure continuity of service, our trained technicians also provide telephone support to solve all IT or technical difficulties that may arise. Dependent on the query, our teams can also work remotely on your computer, solving problems immediately.

### Advice:

We are also able to support our partners in their IT equipment or decisions in their choice of installation type: standalone installation, local network installation, terminal server for Remote access... We can advise our users on the most appropriate equipment depending on the configuration of each company.



# » Let's build together the city of the future

Since 2008, says the United Nations, 50% of the world's population lives in towns and cities, some of which have grown to megalopolis proportions in just a few decades; 36 of them are now home to more than 10 million inhabitants.

In 2020, 80% of Europeans will be living in urban areas. By 2050, two-thirds (namely 70%) of those living on our planet will be city-dwellers. 2050 is only just around the corner.

That new population density presents us with a huge challenge to overcome - how can we live together successfully under such conditions? - but other factors also have a direct influence on the highly complex system we call "the city". Climate change, depletion of natural resources, starting with fossil fuels and water, decreasing availability of building land, the digital revolution, new ways of living... All represent constraints and opportunities, and force us to rethink our cities. Most importantly, we need to establish and reinvent how we relate to the city, and more than anything, how we relate to one another. How we relate to towards a new type of urbanism.

There is a new order, and a wealth of possible solutions. For a number of years now, many people have been imagining an intelligent, interactive city - the "connected" or smart city - which adapts to our needs through new technologies, particularly information and communication (NICTs). Our world is like a huge experimental laboratory, with new ways of doing things and new urban development models springing up all over the place. They all point towards a resolutely more "sustainable" city, where economic, social and ecological aspects combine seamlessly around key objectives: a sensible use of resources, putting citizen-users at the heart of planning, a systemic approach to the city.

The city of tomorrow is re-envisioned in terms of "function", and offers a cross-wise, decompartmentalised view of urbanism, rather than the top-down approach. This means it is better to talk of "urbanisms" in the plural. The new city, as a real "ecosystem", needs to adapt to where it develops on the globe, as necessitated by the varying climatic conditions. The architecture itself must also fit in with those constraints, just as it needs to respond to the requirements

set by the new city's new key player: the citizen-user. The arrival of new generations - led by the "Millennium generation", the famous "Generation Y" - puts collective intelligence and cross-fertilisation in the spotlight.

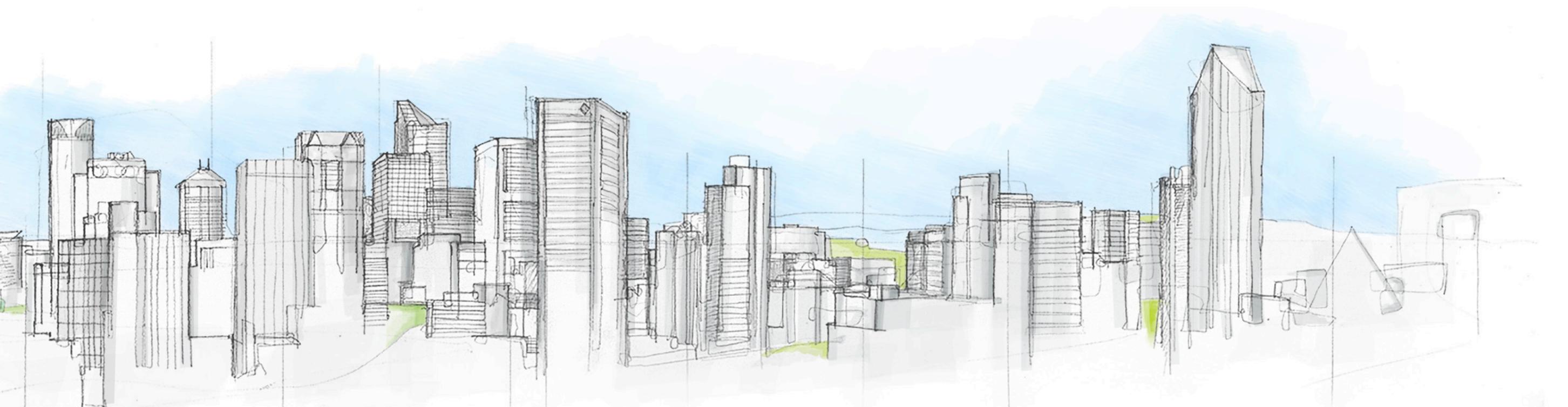
The "co" age is upon us: collaboration, cooperation, cocreation, community, underpinned by innovative forms of joint venture and city design, with all stakeholders playing their part.

Against that backdrop, what architecture will tomorrow bring? Although it seems to be generally accepted that the architecture of the future will see a balance between man-made engineering and all of nature's science and ingenuity, the issue has swept aside all the traditional approaches to design and planning. Building Information Modelling (BIM) has already started to revolutionise the way in which buildings, infrastructure and technical networks are planned, designed, created and managed. Other emerging trends will progressively have an influence, each providing new opportunities:

the circular economy, urban agriculture, bionics, biomimetics and biomorphism, smart grids etc.

When that happens, designing the buildings of tomorrow will prove to be both a real challenge and a fascinating endeavour.

**We are ready for that!**



**WICONA®**



[www.wicona.com](http://www.wicona.com)