

PRESS PACK

PRE-BATIMAT – JUNE 2017



WICONA,
solutions for
the cities of
tomorrow:
resilient,
inclusive and
connected

WICONA[®]

LES TECHNOLOGIES DE VOS IDÉES



WICONA: co-constructing the cities of tomorrow: resilient, inclusive and connected as top priority

50% of the world's population are currently city dwellers. By 2050, this figure will have risen to over 70%. Although our cities occupy only 2% of the Earth's surface, they produce almost 80% of greenhouse gases.

This **high urban density**, combined with the ever-increasing need **to build upwards**, is changing the social, economic and environmental landscape. Our cities are taking on a new look, forcing construction industry leaders and investors to factor in new constraints. A more restrained use of resources, integration of renewable energy sources, reduced use of greenhouse gases, safety, security and mobility of urban citizens, impacts of the digital transformation, changes in European and French regulations (such as RBR 2020-2050): all of these combine to form a comprehensive set of challenges for the architects **of the cities of the future... which will be resilient, inclusive and connected.**

How can we offer citizens an excellent quality of life in an ideal urban environment?

That is the major question which is driving WICONA to invent intelligent aluminium solutions (façades, doors, windows, sliding systems, solar protection, and so on) to provide the construction industry with new ways of building. The brand strives to create sustainable urban infrastructure, placing the well-being of urban residents at the heart of its design philosophy. Beyond that, the company has set itself the challenge of

creating the standards of the future and becoming the benchmark brand for industry leaders, thanks to its expertly designed, tailor-made solutions for contractors and developers.

Driven by this ambition, for the 31st edition of the BATIMAT trade fair, WICONA will present a selection of entirely new concepts as regards products, services and software, all of which integrate present-day major construction projects and will define those of the future. At the forefront of its major innovations:

- **WICSLIDE 65 HT** (for HIGH TIGHTNESS), sliding windows/doors offering an exceptionally high technical performance in terms of watertightness: 3 times better than a traditional sliding system.
- The first self-powered, multi-function **SMART WINDOW** - opacifying, motorized and connected. The window provides autonomous ventilation and solar shading, without blinds or electrical connection and communicates with all the building's equipment. Featuring easy, seamless integration in façades, it enhances automated building management.
- **WIC3D**, a new concept in BIM object configuration. The only application making it possible to design aluminium constructions and directly integrated in REVIT, the most widespread 3D design software on the market.





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>> WICONA, offering solutions to the issues and challenges facing the cities of tomorrow

Difficult traffic conditions, air pollution, a poorer quality of life. City living seems to be getting more and more challenging. And yet, by 2050, there will be no less than 6 billion city dwellers in the world (World Bank figures). What, then, could be more important than the need to reinvent our urban landscapes to make them smarter, happier places to live in? That is the challenge facing the cities of tomorrow, which – by necessity – will be sober, inclusive and compatible with a planet surviving on limited resources.

In this context, the buildings of the future have a role to play, and provide construction industry leaders with an exciting opportunity to innovate. Building façades are becoming active, intelligent and energy-producing, thanks to photovoltaic energy and Building Integrated Photovoltaics (BIPV), among other techniques. This is just one more parameter to be taken into account for building envelopes, which already have to comply with a comprehensive range of regulations: thermal, acoustic, fireproofing, seismic and - soon - carbon-related (E+C⁻ label). All of this in addition, of course, to the financial challenge and all the issues related to aspects such as ventilation of heat islands on façades, solar protection, upkeep, maintenance and treatment at the end of their service life.

At its conference scheduled for 8 June 2017, WICONA plans to give an overview of the issues and constraints facing the cities of the future, together with an exclusive presentation of its aluminium solutions for the construction industry: façades, windows, sliding systems, doors and brise-soleil sun shading.



Immeuble de Rotterdam
Architecte: OMA (Office for Metropolitan Architecture)
Entreprise: TGM (Technisch Gevelbouw Management)
Picture: Ossip van Duivenbode



PROTECTION FROM POLLUTION

>> Protection from noise and dust

Noise. In the construction sector, noise pollution caused by traffic, machinery and the neighboring environment is a source of irritation and can have a negative impact on quality of life, or even direct repercussions on inhabitants' health. As our cities become more and more densely populated, acoustic issues are taking on an increasingly important role within the construction industry, influencing choices about where and how to build. In order to become pleasant places to live, the cities of tomorrow must ensure a high level of sound insulation within buildings. WICONA is convinced that our city planning and renovation policies must incorporate actions aimed at improving the peacefulness of public areas and residential buildings. For these reasons, the brand has developed WICLINE 115 AFS, a new-generation window offering an exceptional level of acoustic comfort thanks to its first-rate phonic insulation, capable of resisting up to 50 dB. This state-of-the-art window acts as a genuine thermo-acoustic shield, whilst offering top-quality solar and visual protection thanks to its fully integrated, motorized blind.

Dust. Dust and fine particles are just as harmful to human health as to the environment. When they gather on buildings, especially, they contaminate the materials used, leading to physical and chemical deterioration. To counter this phenomenon, WICONA has developed **Closed Cavity Facade** (refer to page 12 of the linked document), a sealed double-skin closed-cavity "element" façade that is fully airtight, providing automatic control of "dry air" circulation and pressure in all building modules. This solution is perfectly adapted to new builds as well as renovation projects. This new façade design guarantees that no condensation forms in the double skin, thanks to the injection of dry air in the cavity. In addition, fewer cleaning and maintenance operations are required (since the cavity is airtight, no dust is able to gather).

>> Air, water and wind protection

Although it goes without saying that WICONA is committed to designing exterior joinery to the highest standards of air, water and wind protection, the brand is determined to go even further in its pursuit of excellence, given the climate changes we face in the future. The French meteorological office Météo France predicts, among other things, that the frequency and intensity of extreme weather events will increase (very heavy rain, heatwaves, etc.). All of this has prompted WICONA to devote its full attention to the tricky issue of watertightness of sliding systems: a

recurring challenge facing all the market players but which WICONA has now managed to successfully overcome.

The brand has designed and developed **WICSLIDE 65 HT** (more details on page 10 of this press pack), which constitutes a genuine breakthrough in terms of innovation. Its sliding system offers an unprecedented level of watertightness, 3 times better than a traditional system.



Concept Closed Cavity Facade (CCF), façade « élément » double peau à cavité fermée et complètement étanche. Copyright : WICONA.



WICLINE 115 AFS
Copyright : Patrick Loubet



>> Protection from visual pollution

As buildings become taller by necessity, visual pollution has become a source of concern for architects and other players in the construction industry. The need to provide infrastructure often takes precedence over other considerations such as landscape preservation, and leads to a form of crowding with surrounding buildings.

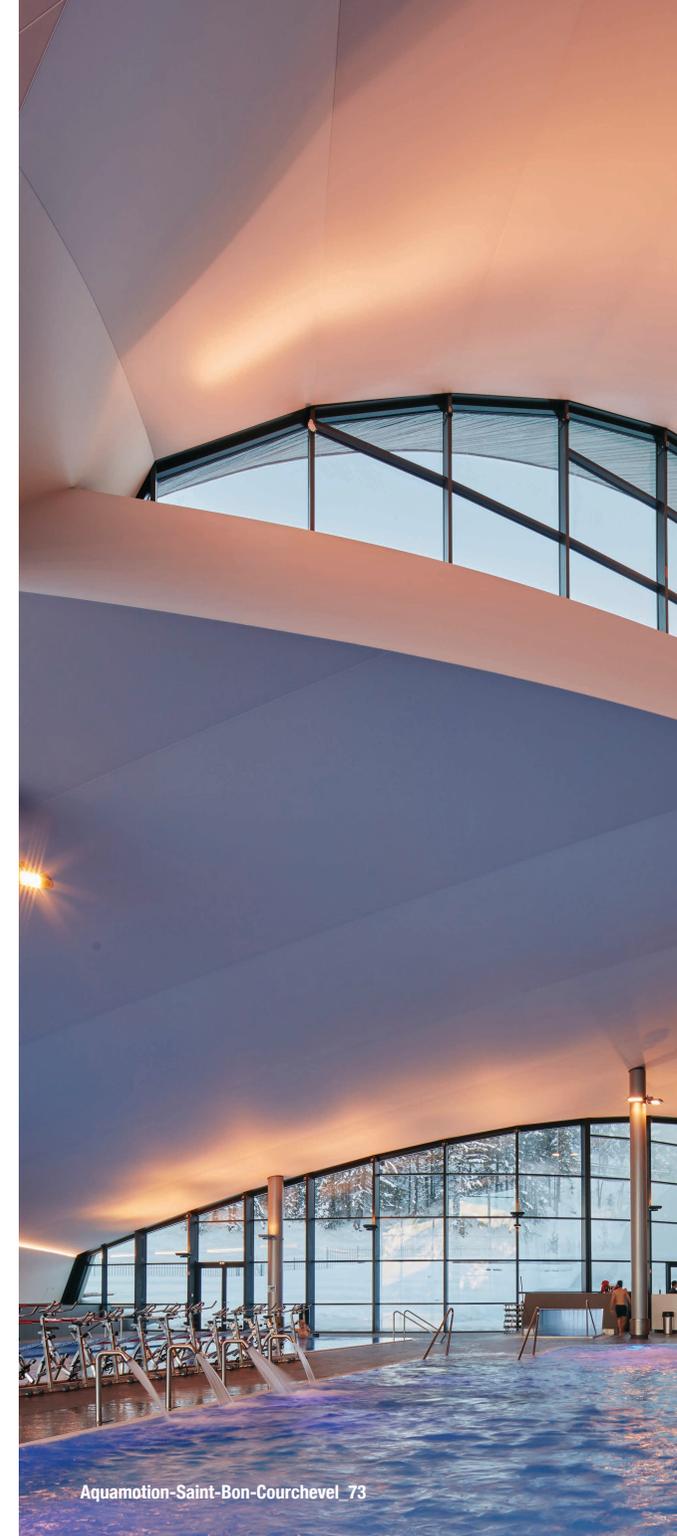
In order to counter this unpleasant situation, manufacturers offer products such as brise-soleil and blinds that provide users with both sun protection and privacy. With **WICSOLAIRE**, WICONA presents a range of aluminium brise-soleil blades and solar protection structures that can be adapted to all configurations, either as an independent structure or integrated into façades. To a certain extent, WICSOLAIRE thereby helps to reduce the visual impact of neighboring infrastructure and perfectly meets the economic and environmental requirements in terms of reduced energy consumption for new builds, as per the HQE (high environmental quality) and BBC (low emissive buildings) standards.

Building envelopes and glazing panels are also undergoing profound changes to turn them into intelligent solutions. We are starting to see connected façades fitted with LEDs, and electrosensitive and electrochromic glazing, for example. Such building transformations are possible thanks to a range of technological

breakthroughs. WICONA is highly attuned to this major market transformation, embracing intelligent solutions in all its designs and unveiling a new generation of **smart windows**: windows that are simultaneously tinted, motorized, self-sufficient in energy and connected, providing a higher level of comfort for users. *(more details on page 12 of this press pack).*



Smart window de WICONA





>> Fire and safety protection

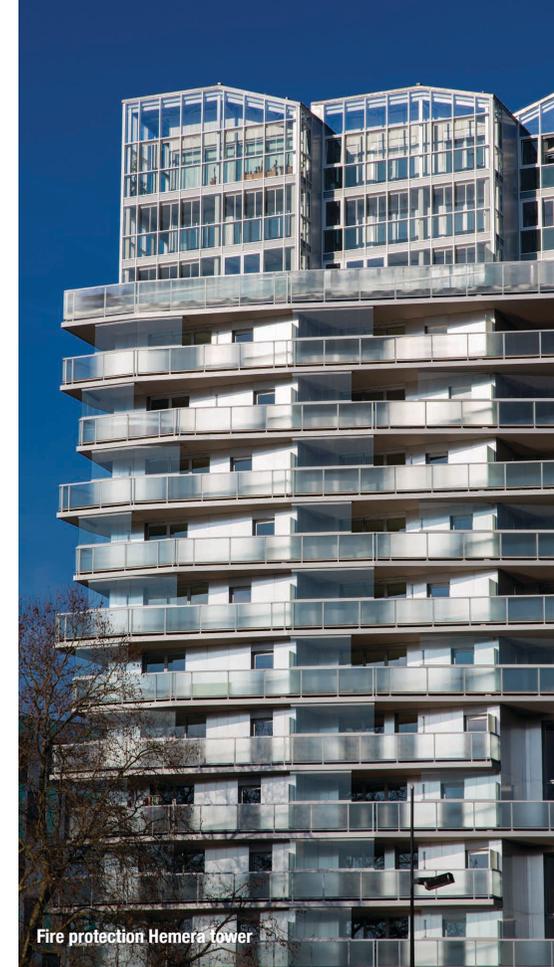
Fire protection is one of the most sensitive sectors in construction. The fact that cities are increasingly being built upwards means that fire and smoke spread more quickly. This constitutes a major safety issue, given that, each year in France, firefighters are called out on average 350,000 times to deal with fires affecting buildings*. WICONA has designed one of the most comprehensive ranges of fireproof products on the market, targeting public buildings, hospitals, hotels, healthcare facilities, colleges and schools, entertainment and leisure venues, both for new builds and renovations.

One of the products in WICONA's fire protection range (façades, doors, a window) is the **WICLINE 65 FP** window (refer to page 8 of the linked document). Launched in 2016, it offers an aluminium solution that seriously competes with wood, steel and PVC. One of its prime qualities is the ease with which it can be installed. In terms of style and appearance, it perfectly resembles a standard WICLINE 65 window. Since then, the brand has in fact extended its fireproof solution to other glazing (simple and double), even that with large dimensions.

Since 2014, WICONA has also marketed a range of fireproof doors and partitions: **WICSTYLE 77FP** (made to E30, EI 30 and EI 60 classifications). It offers a E30/EI30-classified door that can be integrated into a façade, and combined with WICTEC 50 FP. With this pioneering product, WICONA is the only designer-manufacturer to offer a range of fireproof, fully glazed inner partitions using the edge-to-edge bonding technique for glazing.

The protection of buildings, the people who use them and the property they contain are of major concern to any owner, resident or user, day after day. Such protection must be guaranteed for the entire building in a coherent, fully comprehensive manner, with special emphasis on aluminium joinery. WICONA offers forced-entry resistant and bullet-resistant versions of all its doors, windows and curtain walls.

*Source: 2015 figures provided by the Direction Générale de la Sécurité Civile et de la Gestion des Crises (DGSCGC), a branch of the French Home Office



Fire protection Hemera tower



WICLINE 65 FP



WICSTYLE 77FP



ENERGY CONTROL FOR THE CITIES OF THE FUTURE: SAVINGS AND SELF-SUFFICIENCY

>> Eco-responsibility, an historic, concrete commitment

Because it is entirely convinced of the absolute need for more sustainable constructions that consume less energy and have a lower impact on the environment, WICONA is firmly committed, on a daily basis, to promoting an eco-friendly approach that preserves natural resources, reduces waste and guarantees the safety of the people it works with, without compromising its customers' expectations in terms of quality. With the aim of reducing the environmental footprint related to its activities and products – from design to production –, the brand has launched a series of innovative initiatives over the last few years.

>> Sustainable energy production

The energy question is also a key issue facing the cities of tomorrow. In an increasingly worrying context of global warming, city planners have a moral duty to urban residents to incorporate the notion of sustainable energy production into the way cities are designed.

Buildings are changing and becoming multifunctional: they will need to be able to interconnect via smart grids, in an era when production and self-supply are the name of the game, encapsulated in the Responsible Building Regulations 2020 (RBR 2020-2050). The façades of very tall buildings and apartment blocks (IGH in French) constitute a critical issue for city planners

and investors, now so more than ever. All of these factors result in an expanding surface area for the curtain wall industry, as well as windows, doors and photovoltaic installations, thereby providing the construction industry as a whole with exciting new opportunities to innovate.

WICONA has long since been actively involved in the solar energy sector: as early as 2010, it produced a range of **WICSOLAIRE photovoltaic brise-soleil** blades that contributed both actively and passively to the way buildings manage their power supply, by producing renewable energy whilst protecting users from direct sunlight.

In this respect, WICONA is proud to have been the first façade specialist to successfully implement **a thermal break in its aluminium profiles using polyamide insulating strips.**

WICONA is also the only European producer to have decided – as early as 2014 – to switch its strip supplies from polyamide to 100% recycled polyamide for the production of its thermal break strips. This decision dramatically reduced the environmental impact of the production of its strips: consumption of fossil fuels has decreased by 89%, CO2 emissions by 84% and the amount of water required by 32%, all without any loss of performance.



Today, as a result of the development of solar technologies and Building Integrated Photovoltaics (BIPV) in particular, façades are active, smart and energy-generating. With its pro-active approach to this fundamental change in the market, WICONA is proposing the first **Smart Window** to be opacifying, motorized, self-powered and connected. The window ensures autonomous ventilation and solar shading, without blinds or electrical connection and communicates with all the building's equipment. *(more details on page 12 of this press pack).*





HCR Orleans (45)
Architecte: Groupe 6 (38)
Entreprise : Martifer (Portugal)
Picture: Matthieu Ducros



>> Cradle to Cradle

In today's world, products are not judged solely on their appearance or functionality but also on their environmental impact, their effect on human health and their potential for reuse within the framework of a circular economy.



WICONA has recently obtained bronze level “Cradle to Cradle” certification. This mark of recognition is a validation of its WICLINE 65 and 75 window range, its WICSTYLE 65 and 75 and WICSTYLE 77FP door range and its WICTEC 50 façades.

This certification, which is rare in the sector, confirms the company's long-term commitment to the principle of durability, applied throughout the entire aluminium value chain. The “Cradle to Cradle” (or C2C) standard implies a profound modification of the paradigm governing the way products are designed, manufactured and reused or recovered at the end of their service life. It constitutes a benchmark which goes well beyond simple product certification and traditional labelling. This certification encourages the creation of products that redefine the concepts of quality, appearance and innovation. In order to be awarded one of the five certification levels (ranging from Basic to Platinum), products must meet a set of minimum requirements: use of non-polluting materials, reuse of materials, use of renewable energy sources, carbon-neutral production, responsible water management, fair treatment of company stakeholders and positive impact on biodiversity.

For WICONA, this is only the first stage. The company has set its sights on reaching the Silver and Gold levels very quickly.



BUILDING ENVELOPE

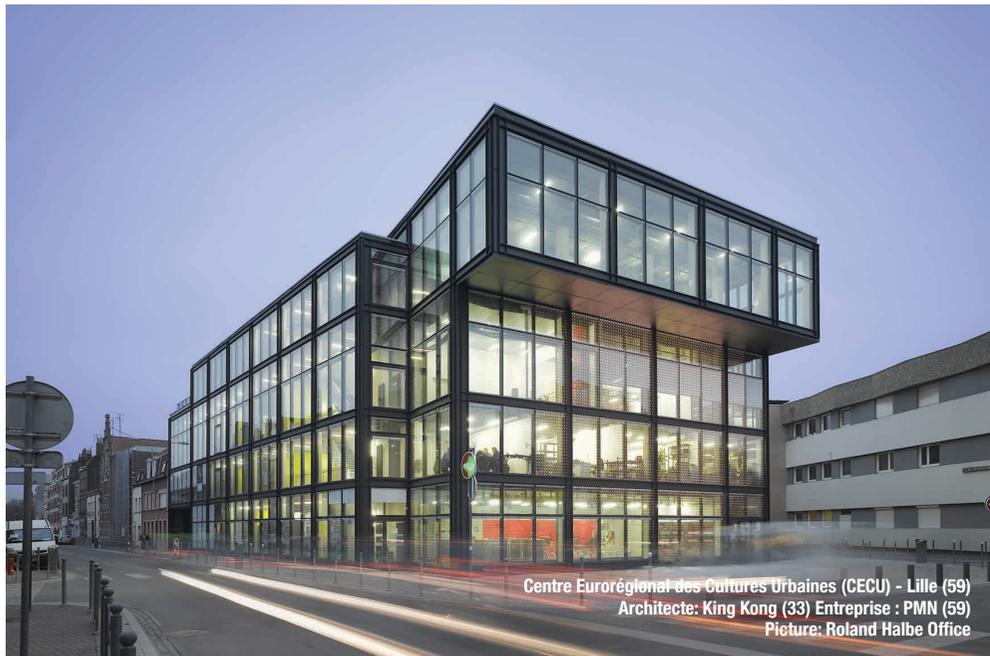
>> Moving towards increasingly active façades

Sustainable construction involves a major overhaul of the way we design, produce and use our buildings and developments. Our professions are rapidly changing, in an environment that is undergoing a structural transformation: buildings are changing, along with our conceptions of space, usage and the way the various structures within a construction inter-relate, requiring them to become intelligent, active and connected.

In addition to its product catalogue, which is packed full of constructive systems (façades, doors, windows, sliding systems, brise-soleil), WICONA is also known for its tailor-made creations: a reputation that marks the company out as a first-rate partner to architects, design offices and engineers, offering support throughout every stage of their bold projects. This sense of ambition has enabled WICONA to conceive some major tailor-made projects. It has participated in several emblematic refurbishments, including that of the Paris High Court, carried out by the Renzo Piano architecture firm. As regards connected buildings,

WICONA already made a name for itself in 2014 via the *Centre Eurorégional des Cultures Urbaines (Cecu)* in Lille, which boasts the first digital glazed façade (MECANO “breathable” façade by WICONA with bonded external glazing and integrated LEDs).

This pioneering spirit is still as strong as ever. For example, in anticipation of the expectations of city planners, WICONA is already working on intelligent building envelopes via active, connected solutions and will unveil a new adapted façade product line at the BATIMAT trade fair.



Centre Eurorégional des Cultures Urbaines (CECU) - Lille (59)
Architecte: King Kong (33) Entreprise : PMN (59)
Picture: Roland Halbe Office



Vélodrome de Glasgow (Royaume-Uni), projet entièrement conçu en un objet BIM. Façade signée WICONA.
Architecte: 3DReid
Entreprise: Dane Architectural System
Picture: Graham Mathers



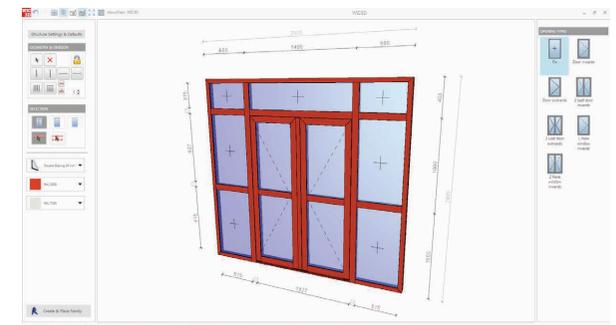
>> Digital modelling and BIM

This commitment to making the architectural elements in building envelopes increasingly smart is leading the brand to work upstream with stakeholders (architects, design offices, engineers, etc.) and define new project modes through innovative digital tools, such as BIM.

The brand has been convinced for many years now that BIM (Building Information Modelling) is a valuable tool when approaching the complex issue of building envelopes. Digital modelling and inherent data management now make it possible

to design, construct and operate structures in a whole new way, more reliably, faster and more cost-effectively. As early as 2013, WICONA carried out a project entirely designed as a BIM product - the curtain-walling on Glasgow's Velodrome in the UK. Subsequently, the brand has implemented project-acquired skills in its various entities, in France and at international level, and aims to propose solutions to key influencers that will form tomorrow's benchmarks.

In 2017, **WICONA is proposing a new version of WIC3D**, a BIM object configurator that enables architects to model an item in 3D -from WICONA's standard offer- that can be integrated into the digital model of the future building. **The new version of WIC3D is today the only application which makes it possible to design aluminium constructions directly integrated into REVIT** (more details on page 15 of this press pack).



WIC3D



Exclusive preview of innovations for BATIMAT 2017

Sliding windows are the only market segment to have recorded growth (1%) between 2012 and 2015, according to a study of the windows market in France in 2015 conducted by Axiome Media during the 1st quarter of 2016. The market is mainly buoyed up by aluminium frames, which represented 66% of all sliding windows manufactured in 2015. Although this market is undoubtedly poised to grow over the coming years, it is currently hampered by technical constraints. As an example, after a period of very heavy rain, some water infiltration in the lower part of the panel, between the fixed frame and the sliding glass, is inevitable, and can produce damaging effects, especially if heavy rain is combined with wind speeds of around 80 km/hr. This type of phenomenon is increasingly common, in a context of climate change.

The brand has therefore designed an efficient, competitive system that ensures the traditional WICONA WICSLIDE 65 sliding model has the same high technical performance in terms of watertightness as a casement window!



WICSLIDE 65 HT de WICONA



WICSLIDE 65 HT, THE MOST WATERTIGHT SLIDING PATIO WINDOW ON THE MARKET

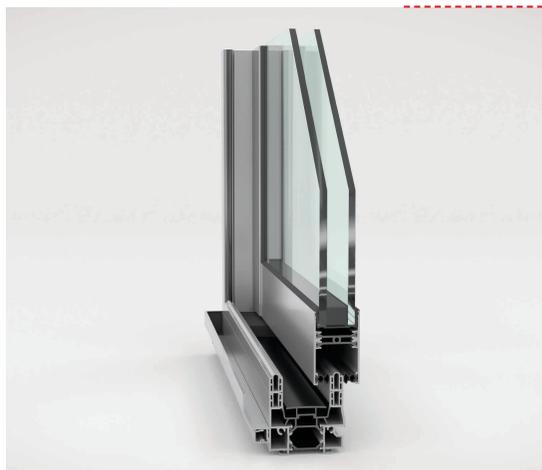
WICSLIDE 65 HT, one of the most watertight sliding systems on the market

The process is innovative even in the way it is designed. WICONA decided to integrate a micro-pump in the lower track of the sliding mechanism, which takes over from the usual drainage system if the water level reaches a predetermined threshold. The micro-pump is activated automatically and evacuates water to the outside.

This new WICSLIDE 65 HT (for HIGH TIGHTNESS) system, which has been patented, has undergone a range of regulatory tests that simulate more extreme conditions than those with which it would be confronted in reality. The system proved able to attain a pressure of 900 Pascals without leaking.

This represents a feat in terms of watertightness: a technical performance 3 times better than a traditional sliding system!

This impressive technical performance guarantees that users are spared the unpleasant consequences of leakage and that the materials used in homes and buildings are preserved from damage. Certain configurations, such as very tall buildings or highly exposed constructions, which until now had no choice but to install casement windows, can now opt for the WICSLIDE 65 HT sliding system.

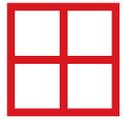


Discreetly integrated

In practical terms, this micro-pump is placed in a unit designed to be integrated horizontally into the lower track of the sliding mechanism, next to the semi-fixed leaf, completely concealed in the track. The unit also includes a detection system which activates the pump automatically as soon as the water in the track reaches a predetermined level. **Compact and silent**, the micro-pump operates at low voltage. WICONA teams are already working to design a solar-powered self-sufficient version of the device.

Thanks to its easy installation, customers – WICONA window/door fitters – simply have to manufacture a suitable track in their workshop, insert the unit and mount the complete structure, which is then ready to be fitted on the worksite.

This technological breakthrough has reinforced WICONA's position in the lucrative market of traditional sliding systems, which is always on the lookout for more technically advanced, competitive solutions. The brand has already observed a high level of demand in France and the Middle East. Designed to be used in new builds and renovation projects, mainly in regions that are exposed to extreme weather conditions (Mediterranean area, the Landes and Normandy coasts, etc.), the WICSLIDE 65 HT sliding patio door is also perfectly adapted to healthcare facilities (both public and private), cultural and leisure venues as well as residential buildings.



LA FENÊTRE AUTONOME SELON WICONA

Wicona is committed to transforming façade systems into active, communicating supports

As urban densification and consequent high-rise trends increase, and Responsible Construction 2020 Regulations (RBR 2020-2050) need to be taken into consideration, building envelopes are more than ever a major challenge that needs to be optimized. How? By integrating new functions so that façades and windows become active, smart and energy-generating, so we can design buildings that produce more energy than they consume.

Optimizing the well-being of occupants whatever the season, fostering reduction in greenhouse gas emissions, saving energy and reducing a building's operating costs, such are the targets of WICONA's new motorized, solar-shading, communicating and self-powering window.

WICONA re-invents the autonomous Smart Window

After the years of R&D spent on motorization enabling accessibility for people with reduced mobility and natural ventilation for buildings, WICONA proposes a brand new concept in Smart Windows, paving the way for a new generation of connected joinery fittings for the commercial market (offices, universities, schools, hospitals, buildings receiving the general public, etc.).

In partnership with SUNPARTNER Technologies, a French company specialized in solar energy, WICONA is proposing a new-generation window that can be adapted to all construction projects, whether new or in the renovation sector. It provides motorized, autonomous ventilation and solar shading, without blinds or electrical connection and communicates with all the building's equipment.

The window comes ready-to-mount, is extremely easy to install and requires no changes with regard to standard joinery.





Samrt Window - WICONA

.....| Electrochromic double glazing unit

.....| Aluminium frame

.....| Photovoltaic double glazing unit

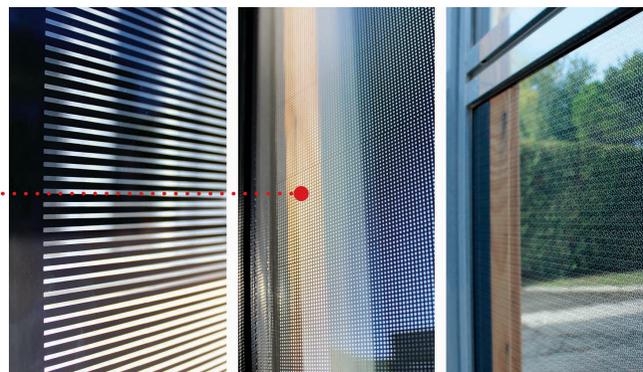
>> An opacifying, motorized and self-powering window

Developed on the basis of a WICLINE 75 aluminium window frame from WICONA, the Smart Window features opacifying double glazing with electrochromic technology whose external glass darkens or lightens electrically depending on the amount of light, while at the same time maintaining transparency.

This change in state is ensured without external electrical supply via photovoltaic double glazing in the infill panel. This can take a choice of full, semi-transparent or transparent PV cells according to power needs as defined by key influencers. These cells capture light and transform it into electricity. The resultant energy makes it possible to supply the sun-shading system as well as electronics built into the

middle part of the joinery. Four levels of sun protection are available. When choosing the glazing, it is possible to define 1 to 3 zones and individually pilot the level of protection for each of them, tailored to user needs.

Over and above these protective aspects, WICONA provides the Smart Window with an additional feature by integrating an in-house **motorized ventilation system** completely built into the joinery, that makes autonomous management possible for opening and closing leaves through stored photovoltaic energy.

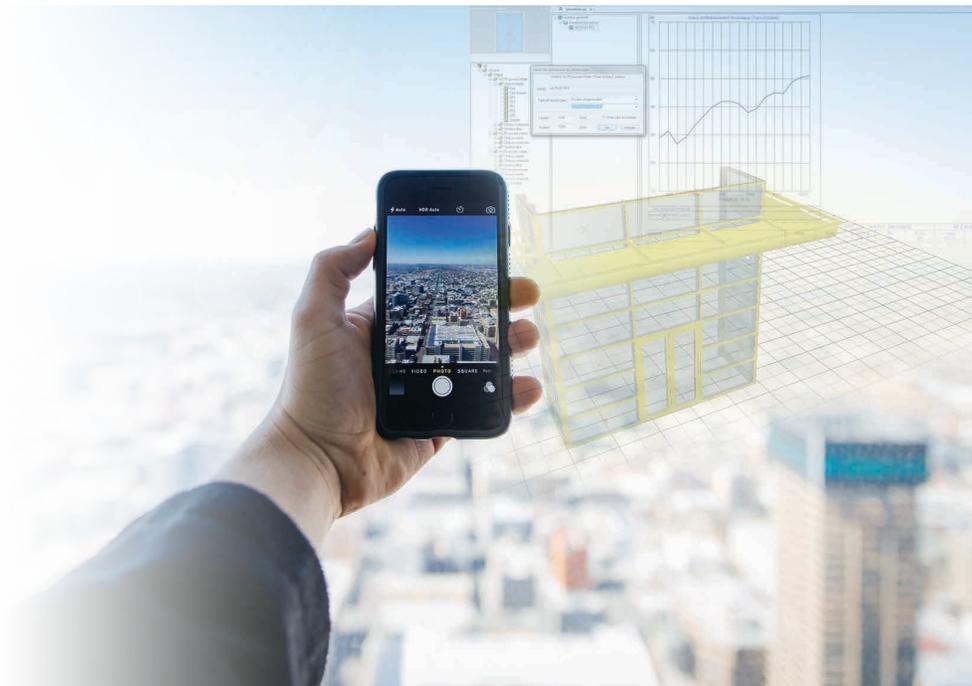


The different designs possible - Copyright Sunpartner Technologies

The Smart Window's sun-shading capacities make it possible to save up to 30% on a building's energy bill, in particular by reducing the effects of overheating and allowing efficient management of air-conditioning and heating.

>> Multi-smart by nature

The other major innovation in this type of joinery is that WICONA and SUNPARTNER Technologies teams **have pushed the principle of interoperability to its maximum.** WICONA considers that the smart building concept is closely bound to intelligence and home automation, and that opening up technologies is vital. The current digital revolution points to a new de-materialized world, where it is not just about creating a coherent digital ecosystem, but also enhancing user comfort and contributing added value to equipment with the emergence of new services. Focused on these needs, WICONA has decided to join the Quickmove alliance and is operating with Ubiant to integrate its Smart Window system in the data base of interconnectable objects.



Motorized autonomous opening window with detection system



Outdoor solar irradiation



Solar protection



Natural ventilation



Motorisation

The headway made by the group over several years is in line with a strategic road map which began with the development of joinery motorization systems, followed by the connected window, for which the company entered into partnerships with Souchier and Somfy. The outcome of this approach is the Smart Window which plays a full role in an Active Building Management environment. This innovative process builds local intelligence into the joinery that communicates with other building equipment to propose new functionalities and heighten user comfort.

In concrete terms, this means fitting a small unit tucked away in the infill panel profile, which contains a storage battery and electronics linked to sensors,

making the window connected, self-powering and smart. Communicating with Active Building Management, the Smart Window interacts with all active items in the building, whether this be air-conditioning, heating, lighting or security, to meet needs in comfort and energy-saving requirements.

In-built sensors (ambient light, temperature, opening and intrusion detection) or separate sensors (interior and exterior air quality measuring VOCs and CO2 levels, smoke detectors, weather stations), enable the control system to be informed and communicate indications of changes in the environment to carry out suitable actions in line with previously defined scenarios.

A few examples: in summer, when there is a lot of sunlight and external temperatures are high, if sensors do not detect any presence in the office, the control system can request total sun protection and shut down air-conditioning to reduce external heat input and optimize energy savings. In winter, the system will see that opening windows to ventilate a room will turn off the heating. Finally, where smoke detection is concerned, this could override opening control by prioritizing safety aspects. All of these features are independent of the origin and protocol of communication of equipment used!

For obvious reasons of safety, security and comfort, joinery fittings may be controlled by the Building Technical Management system or be locally controlled by the office user on an occasional basis via an application (Bluetooth and LoRa).



BIM: WITH THE NEW WIC3D SOFTWARE, ALL WICONA ALUMINIUM SOLUTIONS ARE IN REVIT

>> WIC3D - a new version for building tomorrow

WICONA has developed a new version of WIC3D, the BIM product configurator which enables architects to model from the WICONA standard offer (doors, windows, sliding systems, fittings) with a 3D element for integration in the future building's digital model. Compatible with CAD software used by the profession, the first version of the WIC3D configurator operated as an independent application software offering architects the possibility of modelling their 3D designs and sharing this with their various project stakeholders (design offices, joiners, façade specialists, etc.). In case of modifications, several «imports/exports» were required.

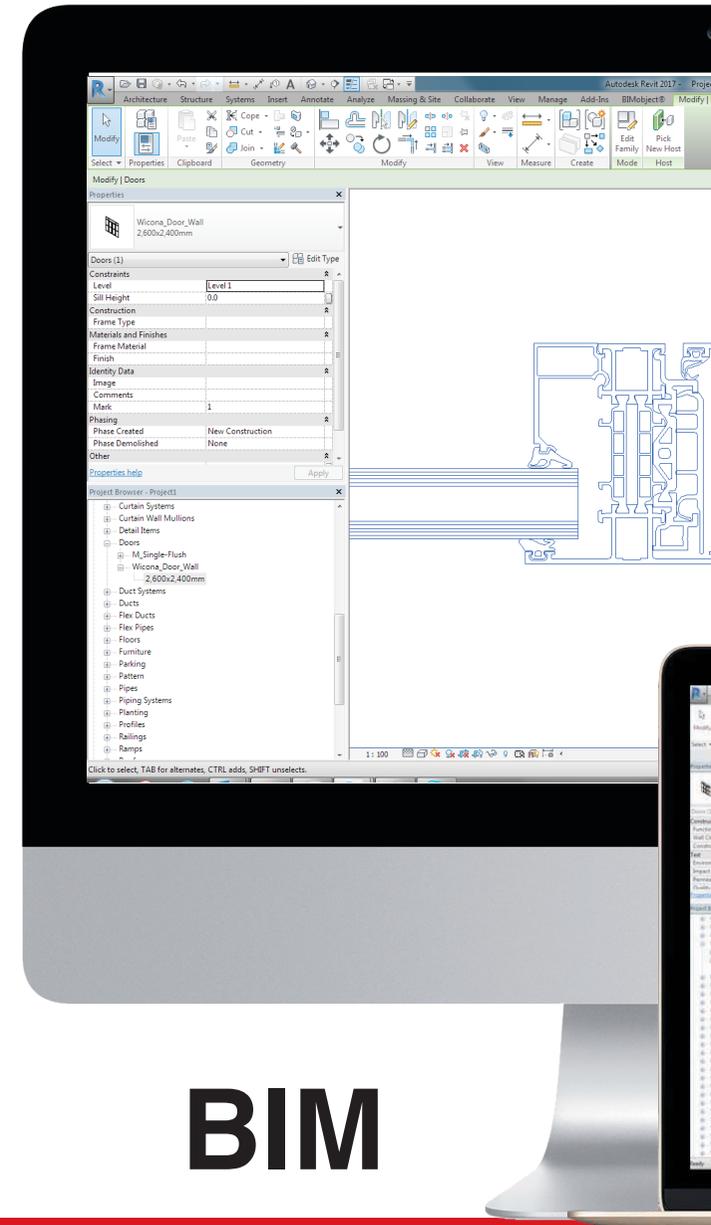
This year, WICONA is going further in simplifying the digital model of buildings. **WIC3D is today the only application for designing aluminium constructions directly integrated in REVIT**, the most widespread design software on the market.

It saves time and provides comfort for architects who, from their usual software, can **work independently** by themselves creating -rapidly and intuitively via numerous predefined objects- the aluminium joinery fittings they wish to implement.

Easy-to-use, the **freely available** WIC3D application has been conceived to facilitate designers' work. **Technical information** has been attached to WICONA 3D objects (performances in air, water, wind, dimensions, colors etc.), that are **configurable and customizable in real time by a simple click**.

Finally, since **interoperability** between various software is becoming a major challenge, the brand has paid particular attention to seeing that the configurator is compatible with the WICTOP costing and production software used by installer-customers. The aim is to simplify and accelerate exchange of data between architects and joiners to enable the latter to meet architects' requirements quickly and accurately, without having to re-enter information or change format, with real, calculated data.

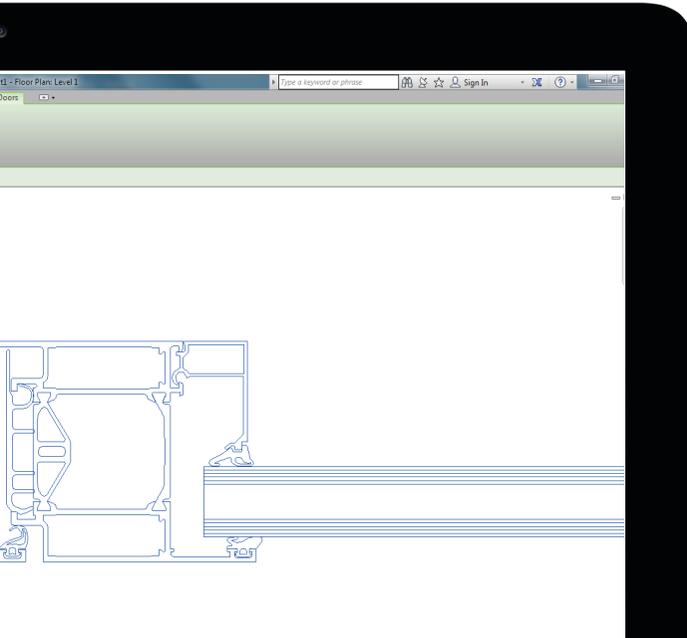
The core of WICONA's aluminium joinery offer (doors, windows, sliding elements, fittings) is today available on the WIC3D application. **For BATIMAT 2017, WICONA will be proposing a complete version which also includes its curtain-walling modules**.



WIC3D®

BIM

>> Visualizing and creating tailored joinery fittings in a few clicks

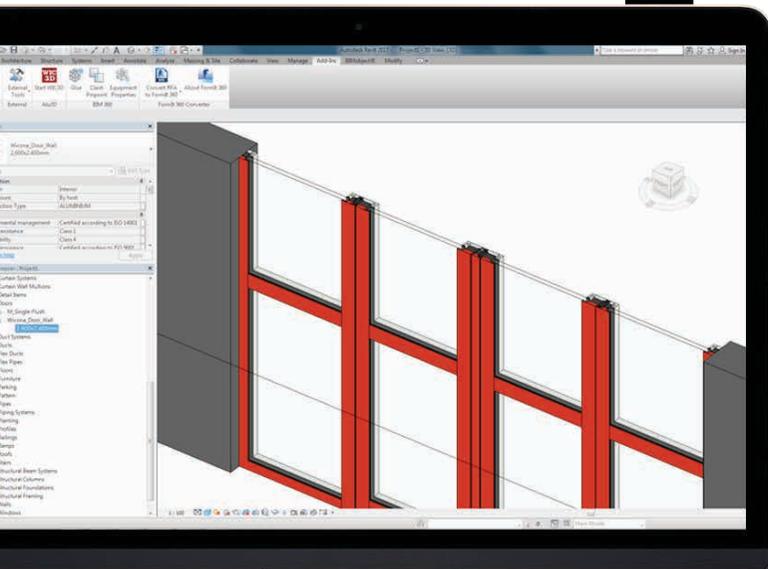


Users can freely download WIC3D from the www.wic3d-wicona.com website. The application appears directly in the REVIT toolbar as an «ADD'IN». By clicking on it, users arrive on the WIC3D interface, where they will find WICONA's core aluminium joinery offer: WICSTYLE doors, WICLINE windows, WICSLIDE sliding elements and fittings.

Architects define the design or form they want to create in a few clicks, using the many predefined parameters. They select the range of products, the simple or composite versions, then directly manage all the object's constituent parts (dimensions, choice of frames, leaves, management of transoms, type of opening, number of sashes, design, colors and dual colors, etc.). The item thus created is immediately updated. Once generated, it appears as a native file and is classified as a standard REVIT family in the software.

A **significant amount of details** is associated with each object with technical cross-sections and considerable commercial and technical information (type of product used, glazing-related elements, wiring, colors, air-water-wind performances, dimensions, etc.). These objects are parametric. Thus, as the project progresses, architects are able to re-open constructions, easily modify them and re-integrate them in REVIT to update the model.

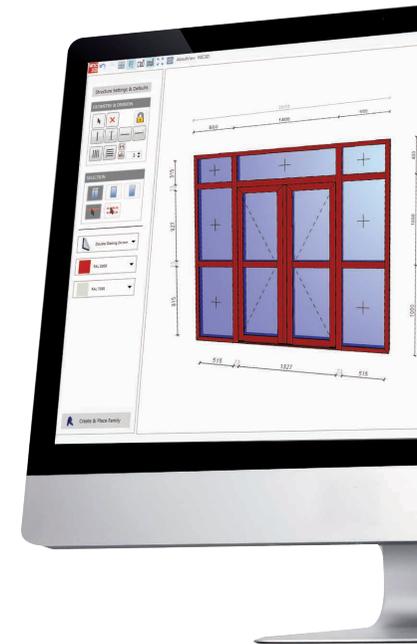
Another asset: by managing all object parameters from the WIC3D configurator, the application only delivers what is really useful, thus considerably reducing file size and meeting a strong demand from architects.



The WIC3D application meets architects' needs for independence at design stage

For designing so-called «complex» objects in 3D, the initial version of WIC3D aimed at complementing the WICONA standard joinery range that was already available on BIM data bases, such as bimobject.com or bimstore.com. Well-known for its ability to come up with tailored solutions, the brand has observed an underlying trend: architects are increasingly keen to gain in autonomy at

the design stage to free their creativity. To meet this strong demand, WICONA has decided to develop a new version of WIC3D. Directly integrated into the REVIT software, the application provides total independence when it comes to designing simple or complex, infinitely configurable aluminium constructions. Dedicated to special projects, the WICONA team will remain mobilized on specific, highly complex projects requiring customized creations.



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