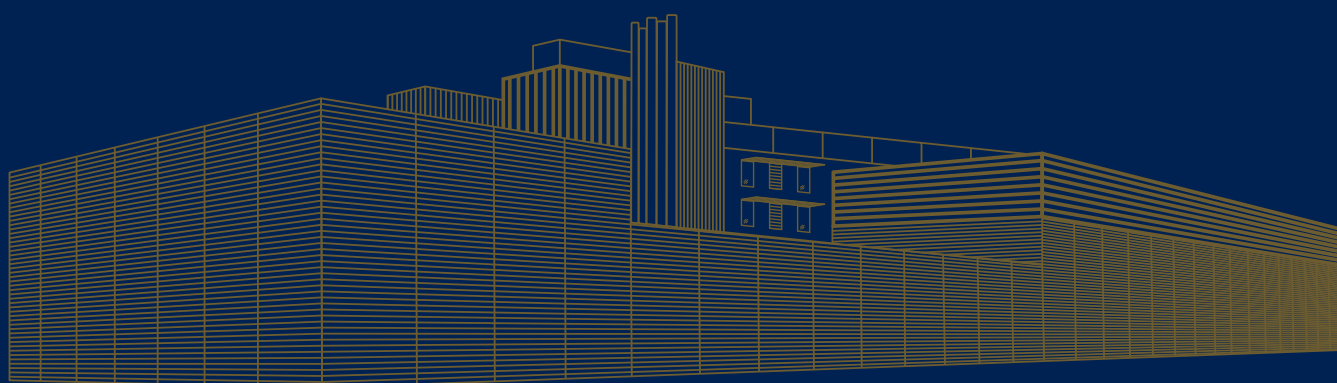


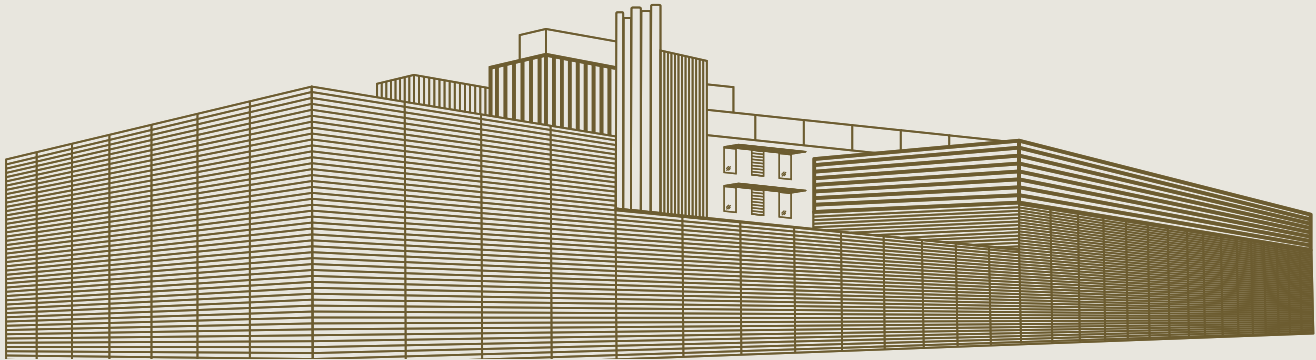
FUNCTIONAL FAÇADE ARCHITECTURE FOR DATA CENTRES





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Project: Galapagos - Offices (NL)
Architect: OZ Architect
Product: L.050HF

DATA CENTRES ARE THE FOUNDATION OF MODERN DIGITAL INFRASTRUCTURE

More and more companies these days are choosing to outsource their IT infrastructure and use external computing power for their business operations. Instead of having to maintain in-house servers, they rent server space in specialised data centres. These data centres are often huge, cutting-edge facilities housing countless servers, designed to efficiently process and securely store large amounts of data.

This presents an exciting challenge for architects: designing data centres that not only meet the technical requirements with respect to safety, security, sustainability and efficiency, but are also aesthetically appealing. The key aspect in this challenge lies, of course, in striking the right balance between functionality and design.

THE CHALLENGE OF SUSTAINABLE DATA CENTRE DESIGN



RAIN-REPELLENCY
Moisture control is an extremely important concern with a view to the proper operation and sustainability of all installations in data centres. As a comprehensive part of the building envelope, continuous louvre systems, vents and louvres comprise an initial and important barrier against rain.

The degree to which continuous louvre systems, vents and louvres are rain-repellent varies greatly depending on the type. This ranges from simple blades that offer limited protection to state-of-the-art systems that are capable of optimally repelling rain while allowing for optimal air flow at the same time.



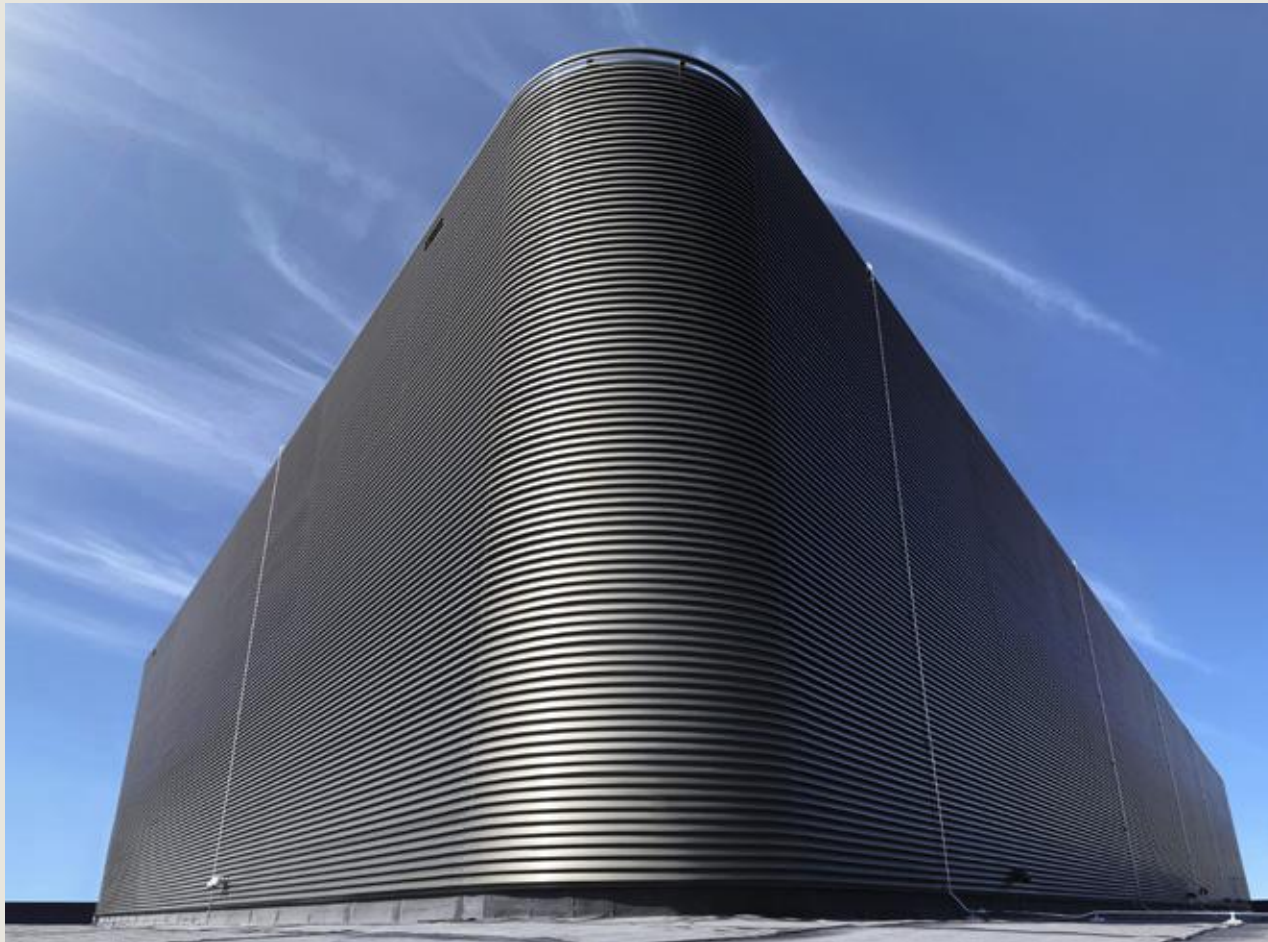
VENTILATING FAÇADE SYSTEM
A data centre must meet strict requirements in terms of cooling, power management and redundancy, which means that every space and every element in its design must be carefully considered. In data centres, cooling plays a crucial role in ensuring optimal performance and extending equipment life. Servers in data centres constantly generate heat. Without an efficient cooling system, this can lead to overheating, failures or even damage to the infrastructure.

A ventilating continuous louvre system offers an innovative solution in this case. The blades making up this system are designed to promote the natural flow of air, allowing heat to be dissipated efficiently. Ventilating systems and smart openings in façades allow data centres to benefit from passive cooling. This contributes to a stable indoor climate and reduces the need for intensive, energy-consuming mechanical cooling systems.



SOUND ABSORPTION
Data centres generate a significant amount of noise, mainly from the ventilation systems, cooling equipment and running servers. This continuous production of noise can lead to high sound levels inside and around the building, which can be annoying to the staff as well as the surrounding environment. A well-considered approach with regard to sound absorption is therefore of great importance when designing a data centre.

As a comprehensive part of the building envelope, continuous louvre systems, vents and louvres play a key role in this. The best way to limit noise production from air flow is to ensure sufficiently large surfaces, which helps avoid high – and therefore noisy – air velocities. Moreover, these systems are also available in sound-damping versions, which can efficiently absorb the noise generated in a building.



VISUAL SECLUSION

Visual seclusion for technical systems at data centres can contribute to the peaceful and harmonious integration of the building into its surroundings, particularly in urban or natural environments where architectural coherence is important. Besides enhancing a building's aesthetics, visual seclusion also ensures a certain degree of privacy and security. As the building's interior is visually screened off, it becomes less accessible to unwanted glances from outside, which enhances the security of theft-susceptible equipment.



UNIQUE FAÇADE DESIGN

While functionality is often a dominant element in data centre design, more and more companies and developers are seeking solutions that are also aesthetically appealing. Architects today have the opportunity to adopt an innovative approach. They could, for example, use sustainable materials or incorporate façades into their structures that contribute to energy efficiency and harmonious integration with the surrounding environment.



The unimpeded flow of air is an essential element in continuous louver systems, but the ability to visually screen off the building is also an important consideration. Therefore, choosing the type of system depends strongly on the extent to which the interior of the building should be screened off, and the primary viewing angle. Both systems that are fully conceal the interior of a building and more open systems that allow only specific elements to be seen from outside can be selected.



Aluminium façade blades offer a versatile solution that combines aesthetics with practical benefits. Not only do they contribute to functional requirements such as ventilation and sun protection, but they also ensure a contemporary, sleek-looking façade that can define the identity of the building. Aluminium is a popular material in architecture due to its lightness, durability and flexibility with regard to design. Infinite possibilities with regard to finishing, dimensions and colour ensure tremendous architectural freedom in experimenting with shapes, patterns and other stylistic features that can give a façade its distinctive character.

RENSON AS A FULL PARTNER FOR MAXIMUM UNBURDENING

With over 20 years of experience in the data centre sector and more than 50 years in manufacturing continuous louvre systems, vents and louvres, Renson has built up the required expertise to meet market-driven challenges. Our experts are happy to contribute their input and optimise their design according to the desired performance level and the set budget.

Our team of experts contribute their input to every facet



We understand your on-site challenges



Renson guarantees a strong and stable product range



THE DESIGN PHASE

- Special extrusions possible for customised development with possibility of testing in internal labs
- DWG and BIM files available
- Online calculator for air flow and noise production
- Specification texts available



THE ORDERING PHASE

- Delivery schedule in consultation and according to project schedule
- Packaging adapted to the space available on site
- Detailed installation plan
- On-site training for installers to improve construction efficiency and ensure high completion rates



FOLLOW-UP

- Large inventory
- Fastlane production

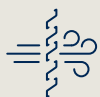


Scan for our online tools

FUNCTIONAL FAÇADE ARCHITECTURE

LINIUS CONTINUOUS LOUVRE SYSTEMS

Renson has been investing in the creation of healthy spaces for more than 115 years now. This has resulted in a wide range of products, including a versatile range of aluminium façade systems. Linius combines a **high standard of quality with functionality and durability**. The mounting elements for the profiles are invisibly concealed for a streamlined, contemporary appeal that also offers numerous interesting benefits.



Optimum ventilation

Tailored to the needs specific to data centres, Linius offers a solution that ensures the desired air flow.



Sound damping

Renson acoustic blades are provided with a non-flammable mineral wool for optimum sound damping.



Visual seclusion

Linius is an open continuous louvre system that guarantees visual seclusion for technical systems.



Rain-repellency

Linius was tested according to the EN 13030:2001 standard with torrential rain at a rate of 75 L/h and a wind speed of 13 m/s.



Unique façade design

With blades in all possible colours and numerous shapes, Linius offers extensive possibilities for design in terms of aesthetics, with curved blades as an added feature.



Insect protection

The continuous louvre system is fitted with wire mesh to keep out insects, pests and birds.



Easy installation

Linius is the absolute market leader in its niche thanks to the ease and speed of installation offered by its convenient clip system. The seamless integration of doors and removable cassettes contribute to this ease of use.



Sustainability

The Linius continuous louvre system is made entirely of aluminium and therefore 100% recyclable. An Environmental Product Declaration (EPD) is available.



Test certificates

BSRIA: Air flow and water-repellency
IFT: Soundproofing
TÜV: Stability – Clip strength
VUB: Stability – Wind impact

The Linius façade system with horizontal blades provides the data centre with an aesthetically appealing and functional building envelope. Renson's Linius blades have been a reliable constant in its product range for many years and are used in a broad spectrum of industrial and commercial projects.

Based in part on the feedback provided by installers and other end users, Renson has developed a wide range of options to meet a diversity of needs, ranging from soundproofing to maximum water-repellency, and from visual screening to optimal ventilation. After all, testing a product in practice remains the most valuable quality check!



MATERIAL

Aluminium extrusion, alloy EN AW-6063 T66

SURFACE TREATMENT

- Anodised (25 micron) F1
- Polyester powder coating (60-80 micron) in all possible colours

QUALITY ASSURANCE

The following test certificates are available for Renson blades:

- **Air flow and water-repellency**
 - Applicable Standard: EN 13030:2001
 - Independent test lab: BSRIA



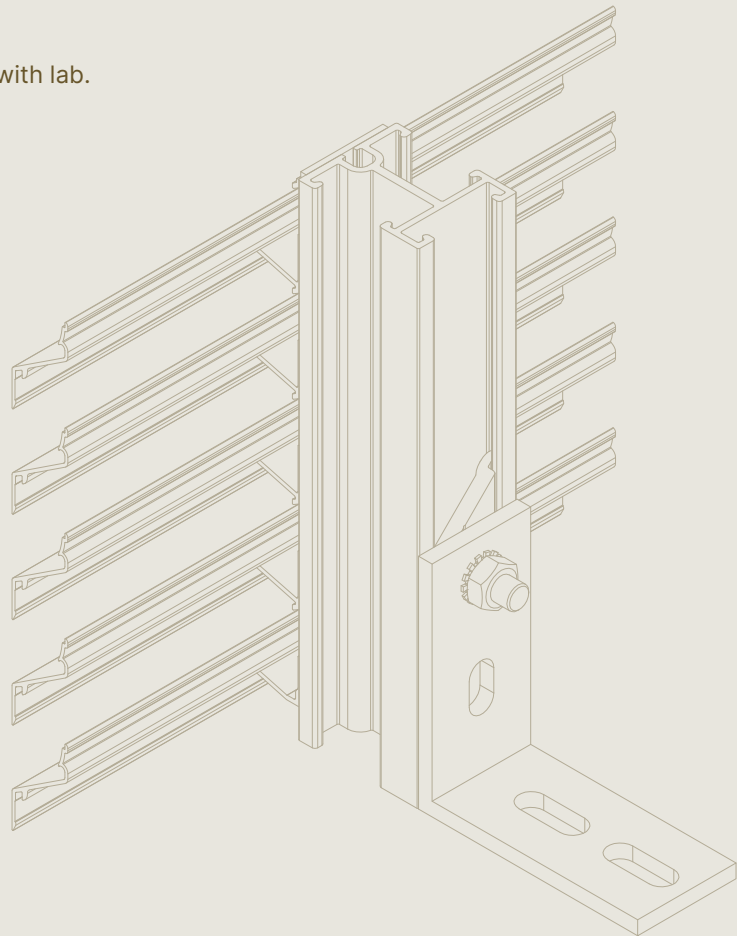
- **Soundproofing**
 - Standards applied: EN ISO 140-1:1997+A1:2004, EN 20140-3:1995+A1:2004 and EN ISO 717-1:1996+A1:2006
 - Independent test lab: IFT



- **Stability - Clip strength**
 - Applied standard: test set-up in consultation with lab.
 - Independent test lab: TÜV



- **Stability – Wind impact**
 - Applied standard: test set-up in consultation with lab.
 - Independent test lab: VUB



LOCAL PRODUCTION

Linus blades are manufactured with the greatest care at Renson's modern production halls. With sufficient capacity and resolute action, processing large orders for projects such as the cladding of a huge data centre is no problem at all. Customers can depend on on-time delivery, high-quality products and outstanding service – before, during or after installation.

MINIMAL MAINTENANCE

Linus aluminium blades are powder-coated in the colour of your choice. This finishing contributes to the ventilating façade's aesthetics and ease of maintenance. Periodically cleaning the blades with lukewarm water is enough to keep them in perfect condition.

BENEFITS

- One façade system, infinite possibilities
- The wide range of blades and blade supports translates into infinite solutions in terms of construction.
- Systems that need to cover large areas are no problem thanks to Renson's extensive range of products and solutions.
- Combinations of blades (e.g. acoustic or water-repellent), mullions and recessed doors offer customised solutions.
- The R&D Department keeps abreast of all the latest trends to successfully meet all current future challenges.

MESH

Renson offers a wide range of mesh solutions to prevent insects, pests or birds from entering the building through the continuous louvre system. The mesh is attached to the back of the support structure.



CUSTOM LOUVRES

The blades of the Linus continuous louvre system can also be used to create customised assembled louvres. These louvres are composed of frame profiles for recessed or surface mounting, filled with a blade type depending on the requirements in terms of air flow or aesthetics, and optionally equipped with stainless steel insect mesh. This means that the louvres and the continuous louvre system can be matched to ensure a uniform appearance. Louvres are available in all shapes, sizes and RAL colours, and in permanent or lockable versions. Renson also offers louvres with movable blades, sliding panels and fixed or removable surface-mounted louvres for windows.





Project: Sant Joan de Déu Barcelona Hospital (ES)
Architect: Llongueras Clotet Arquitectes
Product: L.150ACS

LINIUS BLADE RANGE

	L.033.01	L.050HF	L.050W	L.060HF		L.066.06	L.120	L.150ACS	L.150ACL
Product									
Page	20	22	24	26		28	30	19	34
 Air flow									
 Visual seclusion									
 Water repellency									
 Sound damping									



Explore the full range of Linius continuous louvre systems

 Ventilation capacity	Supply air flow rating	C _e
Very high air flow	1	≥0.4
High air flow	2	0.3 – 0.3999
Average air flow	3	0.2 – 0.299
Limited air flow	4	< 0.2
 Water repellency	Class	Water repellency (in %)
Very good protection from rain	A	100 - 99%
Good protection from rain	B	98.9 - 95%
Average protection from rain	C	94.9 - 80%
Below average protection from rain	D	< 80%





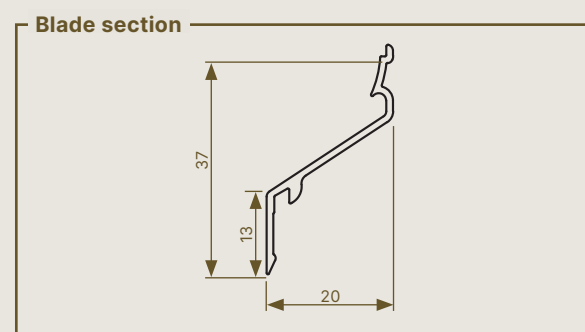
L.033.01

Continuous louvre system with a 33.3mm blade pitch for a detailed optical interplay of lines

It also offers an optimal combination of air flow and rain-repellency.

Finishing

The L.033.01 blade can also be curved with a minimum radius of 800mm.



Dimensions	
Pitch	33.3mm
Depth	20mm
Maximum distance between supports at wind pressure q_p	800mm
Air Flow rate	
Class	3
K-value supply	20.5
K-value extraction	19.6
C-coefficient supply	0.221
C-coefficient extraction	0.226
Physical free area	50%
Water repellency (according to the average flow rate*)	
Air speed	Class
0.0 m/s	A
0.5 m/s	A
1.0 m/s	B
1.5 m/s	D

* with mesh and water drainage profile



Project: Institut Régional de Réadaptation (FR)
Architect: Brunet & Saunier Architecture
Product: L33.01



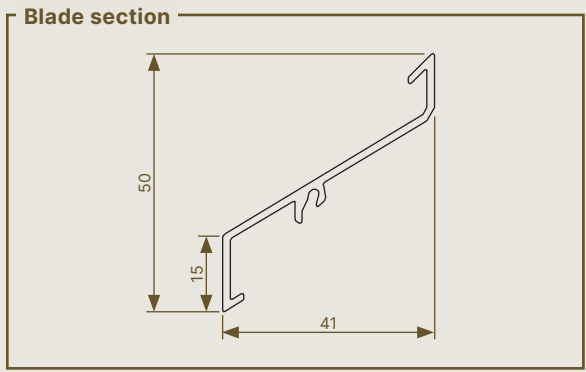
L.050HF

Continuous louvre system with a high air flow and a 50mm pitch

Variable pitches between 50 to 100mm are possible with specific types of blade holders. This is often applied in cases where the pitch between the blades reflects the aesthetics of the overall project.

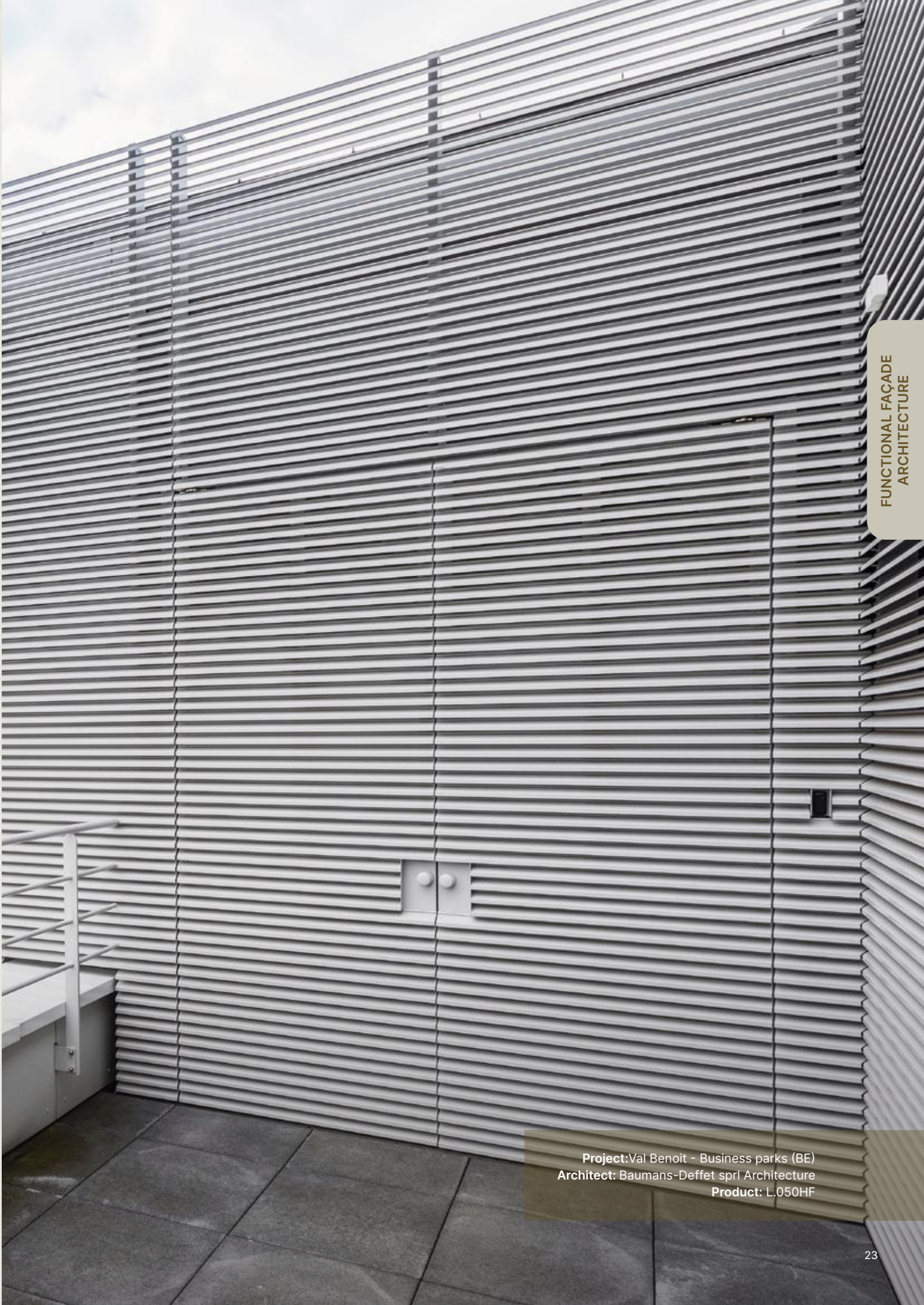
Finishing

The L.050HF blade can also be bent with a minimum radius of 800mm.



Dimensions	
Pitch	50 mm
Depth	41 mm
Maximum distance between supports at wind pressure q_p	1000 mm
Air Flow rate	
Class	2
K-value supply	9.6
K-value extraction	10.0
C-coefficient supply	0.323
C-coefficient extraction	0.316
Physical free area	60%
Water repellency (according to the average flow rate*)	
Air speed	Class
0.0 m/s	B
0.5 m/s	C
1.0 m/s	C
1.5 m/s	C
2.0 m/s	D

* with mesh and water drainage profile



Project: Val Benoit - Business parks (BE)
 Architect: Baumans-Deffet sprl Architecture
 Product: L.050HF



L.050W

Patented continuous louvre system with extreme water repellency and minimum air resistance

The system consists of water-repellent blades, tested according to EN 13030:2001, achieving Class A2 at 3.0m/s, with a pitch of 50mm. These blades can also be positioned vertically, depending on the envisioned result in terms of aesthetics. On sections of the façade where the same high level of performance is not required, System L.050WS can be used, which perfectly complements the building's envisioned aesthetics (see drawing).

A Class

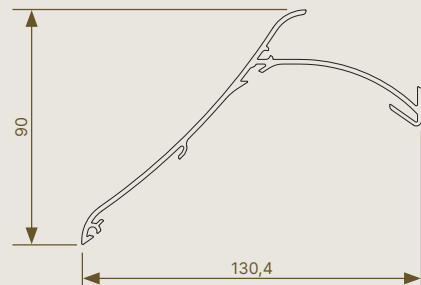
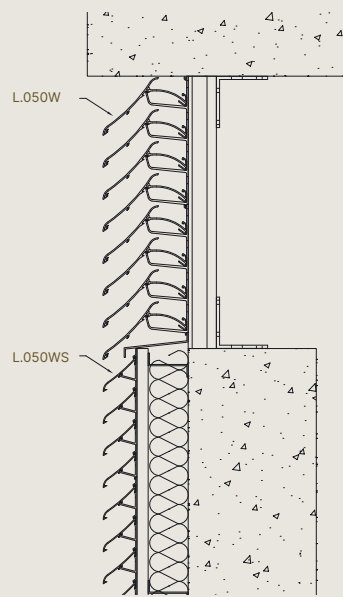


3.0 m/s

with sill/threshold



Blade section



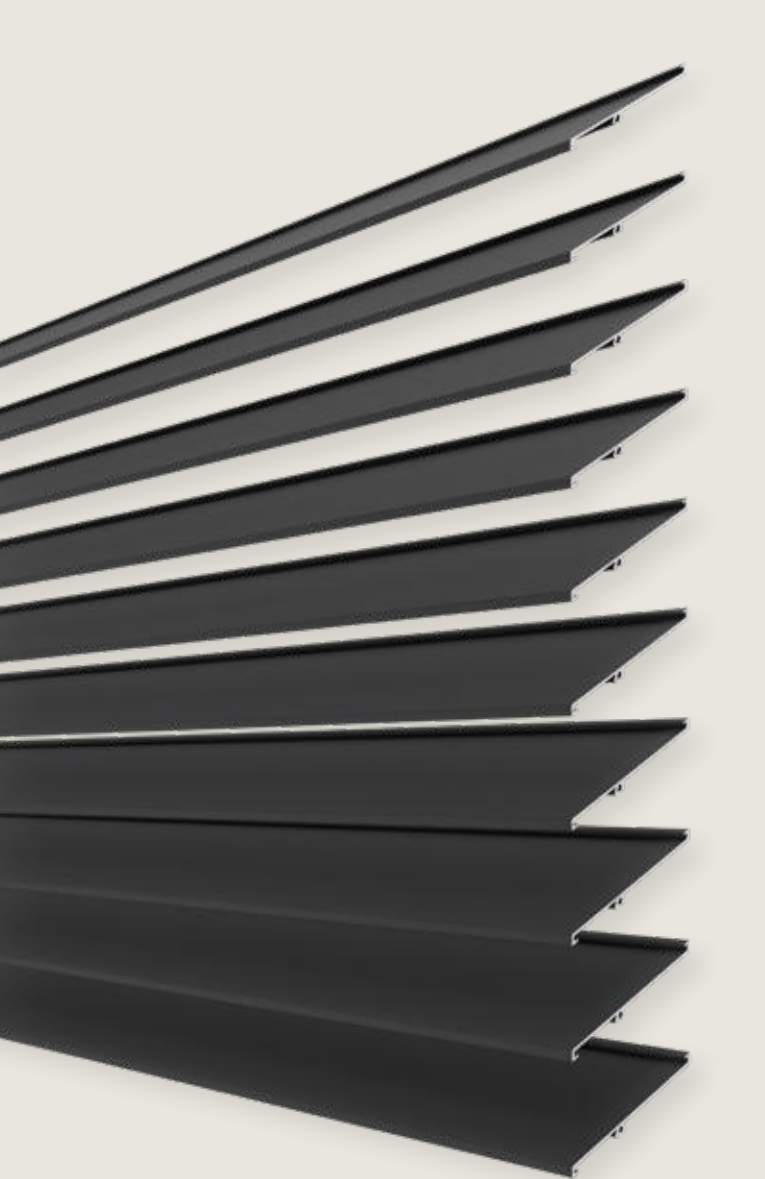
Dimensions	Horizontal blades	Vertical blades
Pitch	50mm	
Depth	130mm	
Maximum distance between supports at wind pressure q_p	1300mm	
Air Flow rate		
Class	2	
K-value supply	10.5	
K-value extraction	16.5	
C-coefficient supply	0.309	
C-coefficient extraction	0.246	
Physical free area	57%	
Water repellency (according to the average flow rate*)		
Air speed	Class	
0.0 m/s	A	A
0.5 m/s	A	A
1.0 m/s	A	A
1.5 m/s	A	A
2.0 m/s	A	A
2.5 m/s	A	A
3.0 m/s	A	A
3.5 m/s	C	A
4.0 m/s	-	A

* with mesh and water drainage profile



FUNCTIONAL FAÇADE
ARCHITECTURE

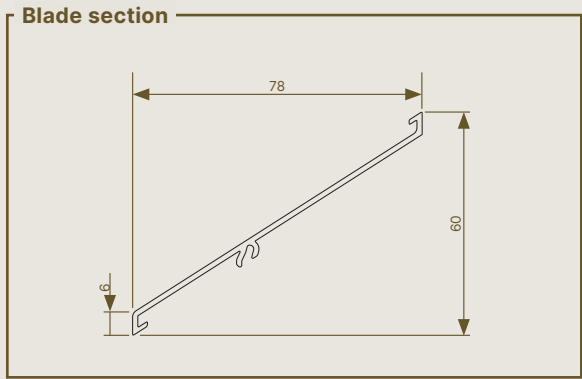
Project: Nivy Tower - Offices (SK)
Architect: Benoy Architects + Siebert + Talas
Product: L.050W



L.060HF

Continuous louvre system with minimal air resistance

This system is particularly useful in those cases where both a high air flow and partial visual seclusion are required.



Dimensions	
Pitch	60mm
Depth	78mm
Maximum distance between supports at wind pressure q_p	600mm
Air Flow rate	
Class	1
K-value supply	5.1
K-value extraction	5.6
C-coefficient supply	0.442
C-coefficient extraction	0.423
Physical free area	76%
Water repellency (according to the average flow rate*)	
Air speed	Class
0.0 m/s	C
0.5 m/s	C
1.0 m/s	C
1.5 m/s	C
2.0 m/s	D

* with mesh and water drainage profile



FUNCTIONAL FAÇADE
ARCHITECTURE

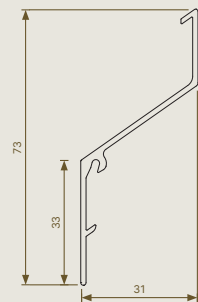
Project: OLV Ziekenhuis Aalst (BE)
Product: L.060HF



L.066.06

Continuous louvre system for maximum visual seclusion
 Variable pitches ranging from 66 to 132mm are possible.

Blade section



Dimensions	
Pitch	66mm
Depth	31mm
Maximum distance between supports at wind pressure q_p	1300mm
Air Flow rate	
Class	4
K-value supply	40.6
K-value extraction	35.9
C-coefficient supply	0.157
C-coefficient extraction	0.167
Physical free area	38%
Water repellency (according to the average flow rate*)	
Air speed	Class
0.0 m/s	B
0.5 m/s	C
1.0 m/s	C
1.5 m/s	D

* without water drainage profile



Project: Bio Ouest - Offices (FR)
 Architect: AIA Associes - Egis Batiment
 Product: L.066.6



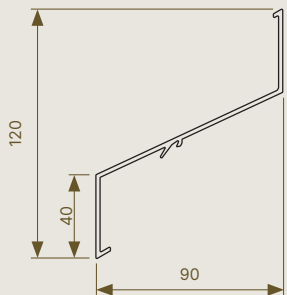
L.120

Continuous louvre system with a high air flow and a 120mm blade pitch
This system is particularly suitable for façades spanning large areas. An optimal installation speed can be realised as fewer mullions and blades are needed.

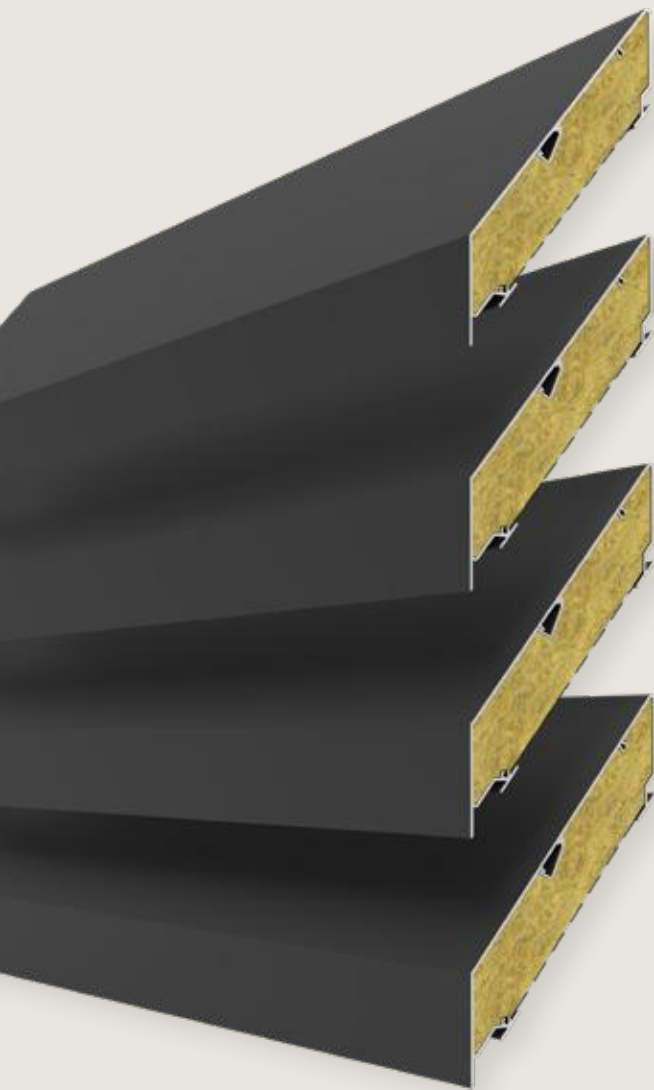
Dimensions	
Pitch	120mm
Depth	90mm
Maximum distance between supports at wind pressure q_p	2400mm
Air Flow rate	
Class	2
K-value supply	10.2
K-value extraction	9.5
C-coefficient supply	0.313
C-coefficient extraction	0.324
Physical free area	60%
Water repellency (according to the average flow rate*)	
Air speed	Class
0.0 m/s	B
0.5 m/s	B
1.0 m/s	C
1.5 m/s	C
2.0 m/s	C
2.5 m/s	C
3.0 m/s	D

* with mesh and water drainage profile

Blade section



Project: Electrabel Spoolderwerk - Offices (NL)
Architect: PPKS Architects
Product: L.120



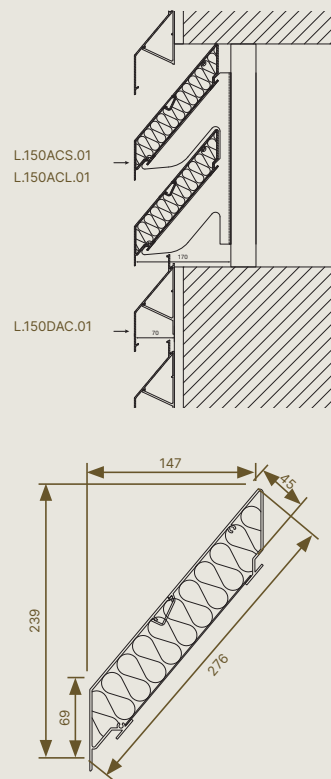
L.150ACS

Sound-damping continuous louvre system

Depending on the sound-damping requirements, a range of continuous louvre systems with attenuation values ranging from 6 to 17dB can be selected.

On sections of the façade where the same high level of performance is not required, System L.150DAC can be used, which perfectly complements the building's envisioned aesthetics (see drawing).

Blade section



Dimensions		L.150ACS
Pitch		150 mm
Depth		147 mm
Maximum distance between supports at wind pressure q_p		2800 mm
Air Flow rate		
Class		4
K-value supply		38.6
K-value extraction		35.0
C-coefficient supply		0.161
C-coefficient extraction		0.169
Physical free area		34%
Sound damping		
Attenuation value R_w (C;C _{tr})		11 (-1;-2) dB
Water repellency (according to the average flow rate*)		
Air speed		Class
0.0 m/s		A
0.5 m/s		B
1.0 m/s		C
1.5 m/s		D

* with mesh and water drainage profile



Project: Millennium Towers I. II. III. - Offices (HU)
Architect: I. Fazakas Építésziroda Kft.
II. Schön Építész Iroda Kft
III. Vadász és Társai Kft.
Product: L.150ACS



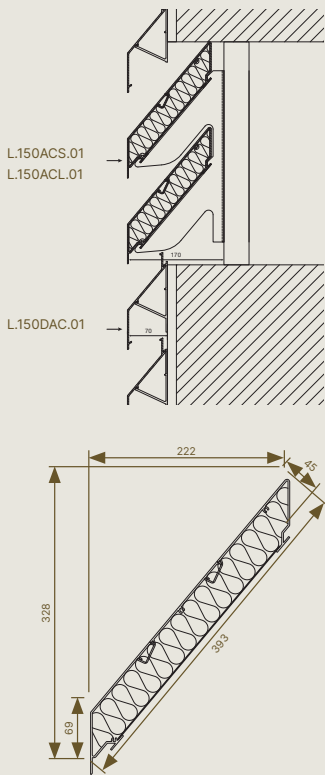
L.150ACL

Sound-damping continuous louvre system

Depending on the sound-damping requirements, a range of continuous louvre systems with attenuation values ranging from 6 to 17dB can be selected.

On sections of the façade where the same high level of performance is not required, System L.150DAC can be used, which perfectly complements the building's envisioned aesthetics (see drawing).

Blade section



Dimensions	
Pitch	150mm
Depth	222mm
Maximum distance between supports at wind pressure q_p	2,600mm
Air Flow rate	
Class	4
K-value supply	37.3
K-value extraction	41.9
C-coefficient supply	0.164
C-coefficient extraction	0.154
Physical free area	34%
Sound damping	
Attenuation value R_w (C; C_{tr})	15 (-1;-4) dB
Water repellency (according to the average flow rate*)	
Air speed	Class
0.0 m/s	-
0.5 m/s	-
1.0 m/s	-
1.5 m/s	-

* with mesh and water drainage profile



Project: Centre Hospitalier du Mans (FR)
Architect: Atelier Michel Rémon & Associés
Product: L.150ACL

CUSTOMISED INNOVATIVE SOLUTIONS



INTEGRATED DOORS

Renson offers customised single or double doors, opening inwards or outwards. In some cases, access behind a wall may be required, e.g. for maintenance to concealed industrial equipment. The doors are fitted with locks, pivots, door handles and a security chain.



LINIUS CASSETTES FOR DEMOUNTABLE FAÇADES

Every innovative product is a challenge in terms of design, technology, flexibility and quality! To save valuable assembly time on site, Renson designed the Linius cassette system.

The advantage of this system is that it allows an entire louvre system to be divided into modules, which arrive on site pre-assembled.

Upon installation of the mullions on site, successive cassettes can be easily and quickly installed using a clasping system. Moreover, they can be easily removed to replace the cooling units behind the wall if necessary.



UNIQUE DESIGN

Renson has long passed beyond the limits of simple rectangular design. In fact, the company is constantly inventing solutions for specific applications. A prime example of this is the integration of ventilation zones in a contemporary design.



CURVED BLADES

Contemporary designs often call for expressive shapes to give a building a distinctive appearance in terms of its linear aesthetics. Renson has developed a curved solution that allows architects to concretely translate their creativity into a continuous louvre system. Blade types L.033.01, L.50.00 and L.050HF in a painted version can be curved, with a minimum outer radius of 800 mm. Blade type L.066.01 can be curved, with a minimum radius of 2000 mm. All these blades can be curved with either an outer radius (convex bending) or an inner radius (concave bending).

ROOF TURRETS

A roof turret is placed on top of the roof of a building to hide industrial applications (e.g. chimneys) from view. Renson can handle all aspects of the construction, including the cover plate and the sill.



GLOBAL SWITCH PARIS OUEST DATA CENTRE CLICHY LEVALLOIS (FRANCE)

FUNCTIONAL FAÇADE
ARCHITECTURE



Project	Global Switch Paris Ouest
Location	Clichy Levallois, France
Architect	Reid Brewin Architects
Installer	Smac - Brezillon & Etde
Solution	Continuous louvre system for ventilation and architecture
Products	Linus L.120, L.060HF & L.150ACS
Photos	©Jérôme Epailard, Dirk Busschaert



Global Switch is one of world's biggest suppliers of carrier and cloud-neutral data centres. For the expansion of its Paris campus, Global Switch called on the expertise of Reid Brewin Architects. Having a total surface area of 50,000m², this data centre campus is one of the largest in all of France.

The project comprised two parts: the new Paris West facility, and a redesign of the Paris East facility in order to free up unused space. Lastly, the entrance hall and atrium were given a complete makeover to create a series of dynamic spaces and the perfect setting for a sculpture by artist Chris Fox.

Need for urban integration

The architectural concept on which Global Switch based its Paris data centre is restrained and homogenous, allowing the buildings to integrate harmoniously into the surrounding urban landscape, with the Paris St Lazare and Clichy-Levallois train stations nearby. Particular attention has been paid to the architectural treatment of the façades to ensure

a consistent use of colour in relation to the other buildings in the surrounding area. The site borders Clichy's Parc des Impressionnistes and will therefore be highlighted by the surrounding green spaces that will be part of a new urban park envisioned for Bac d'Asnières.

Slim, elegant design

The architectural style of this high-tech building can be described as sleek and elegant. The façades are clad in thin horizontal metal blades or 'louvre' with vertical spines, which accentuate the structure of the building.

Depending on the ventilation requirements of the technical equipment, two types of sheet metal were selected. Horizontal blades were chosen to meet the mechanical requirements inherent to data centres, such as ventilating and cooling electrical generators and dissipating the heat produced by computers. The copper colour reflects the huge number of copper cables used to circulate electricity throughout the building.



At Reid Brewin Architects, we have built a strong reputation in high-quality architectural solutions for a wide range of projects in France, the UK and Italy. Our portfolio includes data centres and commercial buildings.

Renson's Linius system is a key component in many of our designs. Global Switch's data centre in Clichy Levallois, France, is a prime example of this.

Reid Brewin Architects



A technical challenge with regard to climate conditions and energy supply

The ability to control a data centre's indoor environment is vital for its efficient operation.

By considering the project's climatic requirements from the outset, the design team was able to maximise the centre's free cooling potential and optimise its air-conditioning systems and cable networks. Reid Brewin Architects collaborated closely with WSP France's team of electrical and mechanical engineers, constantly reviewing and discussing design solutions to ensure that these systems would operate as efficiently and effectively as possible.

Sustainable responsibility

This new data centre reflects Reid Brewin Architects' approach to sustainable design and our commitment to environmental responsibility. In terms of ventilation, the building is designed to encourage the natural circulation of air and consume as little energy as possible. With regard to noise reduction, the building boasts an innovative sound attenuation system to ensure that the peace of local residents is not disturbed.

Apart from versatile, Renson façade solutions are also innovative, allowing us to succeed in combining aesthetic excellence and functional efficiency. They are widely adaptable, making them perfect for a diversity of architectural applications. Not only do they enhance a building's performance; they also elevate its aesthetic appeal. Renson's products are high-quality and reliable. So we are always happy to use them.'



HEALTHY OFFICE CLIMATE



NIGHT COOLING VENT 431RC2

A building provided with night cooling vents, or summer night ventilation, is fitted with special ventilation louvres on the outside of the windows. These louvres are made up out of blades fitted with insect mesh and which are placed in front of windows that can open to create drafts at night. They are also a safe alternative to a fly screen. Louvres such as these can be fixed to a window temporarily (e.g. only in summer) or permanently.

By combining summer night ventilation with demand-controlled ventilation and good sun protection, it is possible to obtain a pleasant indoor climate without air conditioning, even on hot summer days.



This **burglar-resistant** build-up vent (Class RC2) is suitable for night ventilation and is surface-mounted with anti-burglary screws.



Vent 431RC2 guarantees a **fall-proof** solution for louvres in the most common dimensions, allowing it to be installed floor-to-ceiling and without additional protection being required.

BENEFITS

- Not only do night cooling vents have a positive impact on the temperature, allowing cooler air from outside into the building also improves the quality of the air indoors.
- Night cooling is an extremely energy efficient system that relies on a natural flow of air rather than power-hungry air conditioners.
- The cleverly developed mesh in the louvres is insect and burglar resistant.
- Sound-damping versions are available optionally.
- Their minimalist design allows for optimal integration of night cooling louvres in your façade and interior.



Explore Renson's full range of louvres



HEALTHY INDOOR AIR

Project: Police Inspection Building in Landstuhl (DE)
Architect: AV1 Architekten
Product: 431RC2



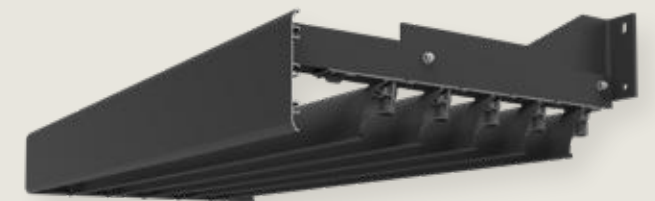
INDOOR CLIMATE CONTROL

STRUCTURAL SUN PROTECTION

In addition to its Linius continuous louvre systems, Renson also has an attractive solution for permanent sun protection structures. This includes sun protection solutions made from aluminium profiles with the same high-quality finish as Linius. These also serve to ensure more conceptual uniformity for office buildings at data centres.

SUNCLIPS®

Sunclips consists of aluminium C-shaped blades installed on a fixed support structure. The Sunclips system is installed horizontally on or vertically in front of the façade to achieve the desired shading effect.



BENEFITS

- Ideal sun protection for south-facing façades
- Views outside are retained
- Enjoy the heat and light from the sun in winter
- Architectural eye-catcher
- Corner solutions available
- Fast installation thanks to clip system
- Absorbs expansion due to heat differences

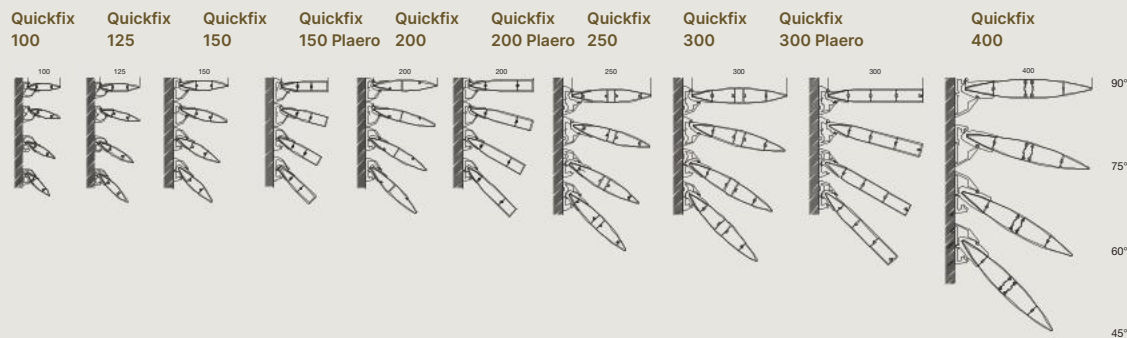
Project: Le Nautille - University (FR)
Architect: Equerre SAS Architectes
Product: Sunclips Classic - Curved - Cassettes

ICARUS® QUICKFIX

A patented clip system for rapid assembly with horizontal continuity
Icarus Quickfix is a unique, patented structural sun protection system, easy and discreet to install by means of clip installation. The Quickfix support consists of one clip mounted to the support structure and one fork profile installed on the blade with stainless steel rivets. Thanks to this two-part concept, smooth dilatation of the blade due to thermal expansion is possible, preventing stresses in the support structure. This system also allows for the creation of a continuous line of blades.



Detailed drawings Icarus Quickfix



BENEFITS

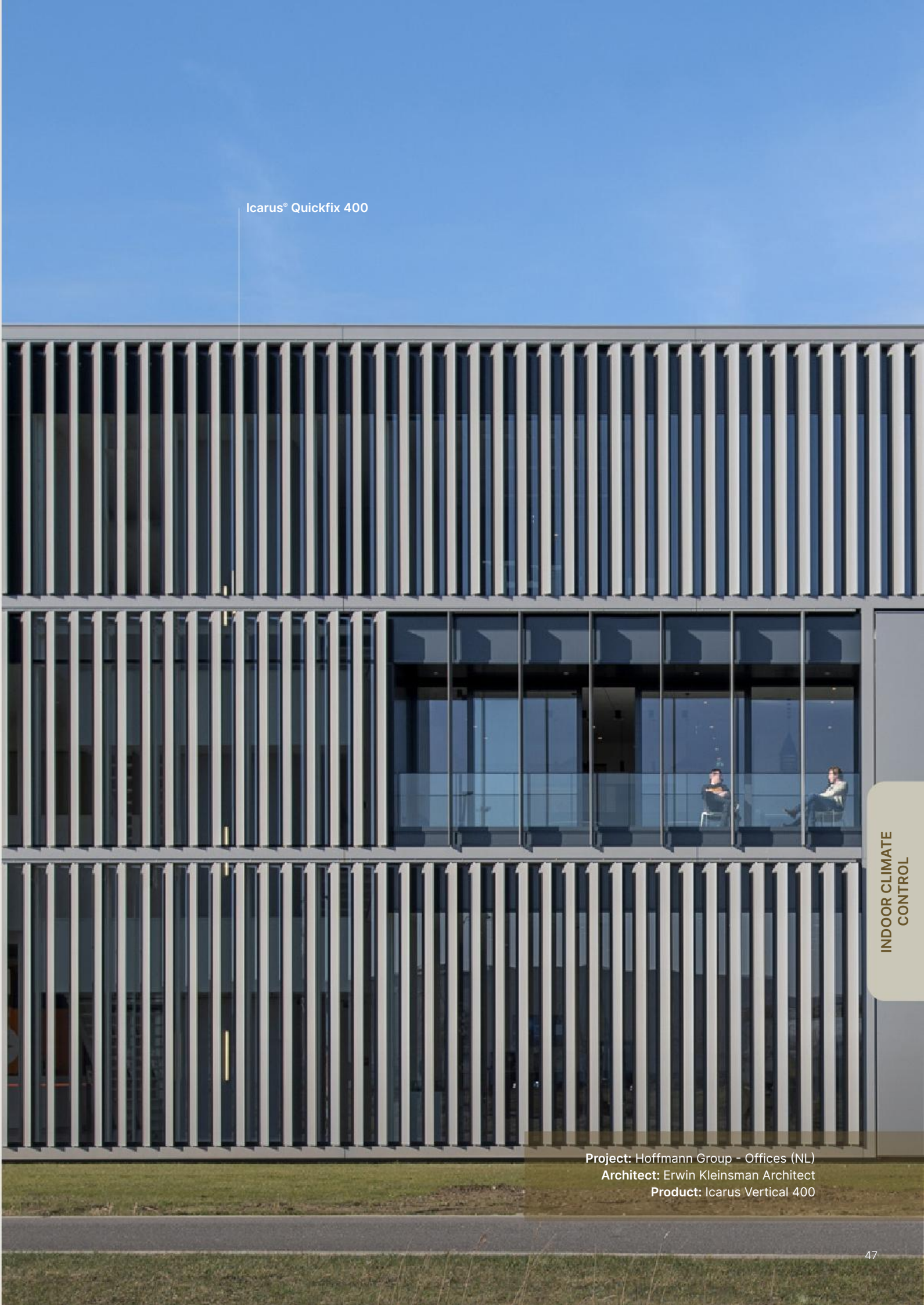
- Horizontal or vertical installation of blades
- All in aluminium
- Architectural eye-catcher
- Absorbs expansion due to heat differences



Explore Renson's full range of architectural sun protection

ICARUS® MOVABLE

Dynamic sun protection system with tilting blades
Vertical permanent sun protection with movable blades. The blades can be moved 90° as standard. Other movement angles are possible in consultation with our project department. The blades can be tilted manually or motorised.



Icarus® Quickfix 400

INDOOR CLIMATE CONTROL

Project: Hoffmann Group - Offices (NL)
Architect: Erwin Kleinsman Architect
Product: Icarus Vertical 400

RENSON'S KEY STRENGTHS

At Renson, we believe high-quality products and innovative solutions contribute to energy-efficient, comfortable and healthy living and working environments. Our slogan 'Creating healthy spaces' reflects this mission, which we achieve by drawing on a number of fundamental principles.

OUR FUNDAMENTAL PRINCIPLES



MINIMALIST DESIGN

We set high standards when it comes to design. Renson solutions offer an architecturally sound solution for every type of data centre. Detailed finishing and seamless integration help achieve exactly that.



THE POWER OF INNOVATION

Our hunger for innovation is what drives progress. We optimise our solutions for data centres by developing and applying innovative technologies.



ENDLESS CUSTOMISATION OPTIONS

Data centres require a high-quality functional building envelope that is equally capable of enhancing their aesthetic appeal. The numerous options offered by Renson in terms of colour, shape and finishing can give every data centre a unique façade that underscores its identity.



SUSTAINABLE ENTREPRENEURSHIP

We cannot build a healthy living environment without tending to a healthy world. The recyclability of aluminium and the efficient production of our blades contribute to the sustainable properties of a data centre.



ULTIMATE EASE OF USE AND MAINTENANCE

Our advanced engineering is geared towards ease of use and minimum maintenance. From configuration and ordering to quick and trouble-free installation.



OUR TEAM OF SPECIALISTS IS AT YOUR SERVICE!

We are always happy to contribute to the success of your project:

- Additional sound damping to safeguard the environment?
- Partial deliveries for smooth execution?
- Integrate Linius doors?
- Generate Revit drawings?
- Configure cassette systems for demountable façades?



Scan to ask your question

EXIT 5 – WAREGEM SHOWROOM & PRODUCTION

Monday to Friday: 8:30 AM – 12:00 noon and 1:30 PM – 6:00 PM
Saturday: 9:00 AM – 12:00 noon
Make an appointment by phone on +32 56 62 96 87 or online via exit5.be

Maalbeekstraat 10 • 8790 Waregem • Belgium



MAIDSTONE – UK

Monday to Friday 8:30 AM – 5:00 PM
1-5 Bircholt Road, Maidstone, ME15 9SF
01622 754123 • sales@rensonuk.net



NOA – KRUISEM SHOWROOM & PRODUCTION

Monday to Friday: 9:00 AM – 5:00 PM
1st & 3rd Saturday: 10:00 AM – 2:00 PM
Make an appointment at hello@noa-outdoor.com
Polydore Rensonstraat 8 • 9770 Kruisem • Belgium
noa-outdoor.com



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