

sapa:

Architectural Aluminium Solutions



Leisure & Retail

Sapa Building System



Strikingly designed leisure and retail buildings play key roles in the marketing of cities as dynamic centres of creativity, cultural life and social integration. Sapa Building System provides architects and builders with all the necessary know-how and materials to achieve their ambitious goals.

All over the world urban styles and trends are catalysed into new ways of living. People have more leisure time than ever before and new technologies are rapidly changing the way they organise their lives. In this environment, leading architects supported by public and private investors are designing the XXIst century's cultural buildings. They create daringly innovative museums, theatres, operas, cinemas, libraries, stadia and sports arenas that transform cities and capitals into vast cultural centres. The refreshingly original designs of new eco friendly buildings are bringing comfort and light to cultural centres and shopping malls.

There is no denying that modern buildings play important roles in attracting visitors and tourists to cities that are aspiring to become cosmopolitan centres of modernity. Sapa Building System has developed a complete product offering that combines smart contemporary appearance with features to ensure optimum incidence of light, easy accessibility and proven safety and security. In addition, our products perform well in respect of energy efficiency and sound proofing.

For the construction of modern leisure and retail buildings, Sapa Building System is committed to working closely with key specifiers including architects, designers, developers, main contractors, fabricators and specialist installers. Our Research & Development, Sales & Marketing and Supply Chain teams set the standard for delivering added value architectural aluminium solutions.

For the future, Sapa Building System's core values of loyalty, quality and innovation together with our entrepreneurial approach will drive our processes towards continuous improvement for specifiers and our customers across all of the markets we serve.

I am convinced that this approach to working closely with our customers is the key to long term, mutually profitable growth.



sapa:



Hans Johansson
President Sapa Building System



1,000,000 Emotions, 1 Solution

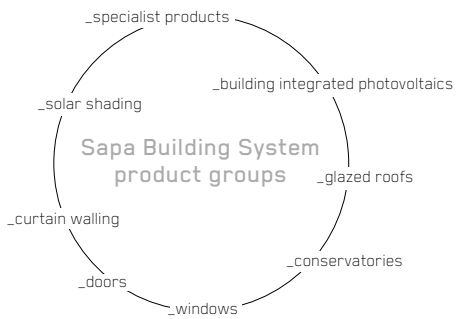
Leisure buildings should offer an agreeable environment for relaxing, socialising and enjoying the finer things of life. Sapa Building System's curtain walling systems and sky domes are instrumental in creating and maintaining the right atmosphere.

Light
 Natural light is a vital prerequisite for creating an attractive environment for visitors and consumers spending time in leisure buildings. Optimising the entry of natural light contributes to people's comfort and well being and yields energy savings. Sapa Building System's glazing solutions allow buildings to literally open up to the outside world. Our curtain walling systems and sky domes provide architects with exciting possibilities for brightening up their buildings.

Comfort
 Temperature control, ventilation and noise reduction are key features for comfortable and healthy building environments. To ensure highest performances, Sapa Building System has developed glazing solutions with outstanding thermal efficiency ($U_f < 1$) and effective acoustic insulation (> 40 db), meeting the most stringent European standards.

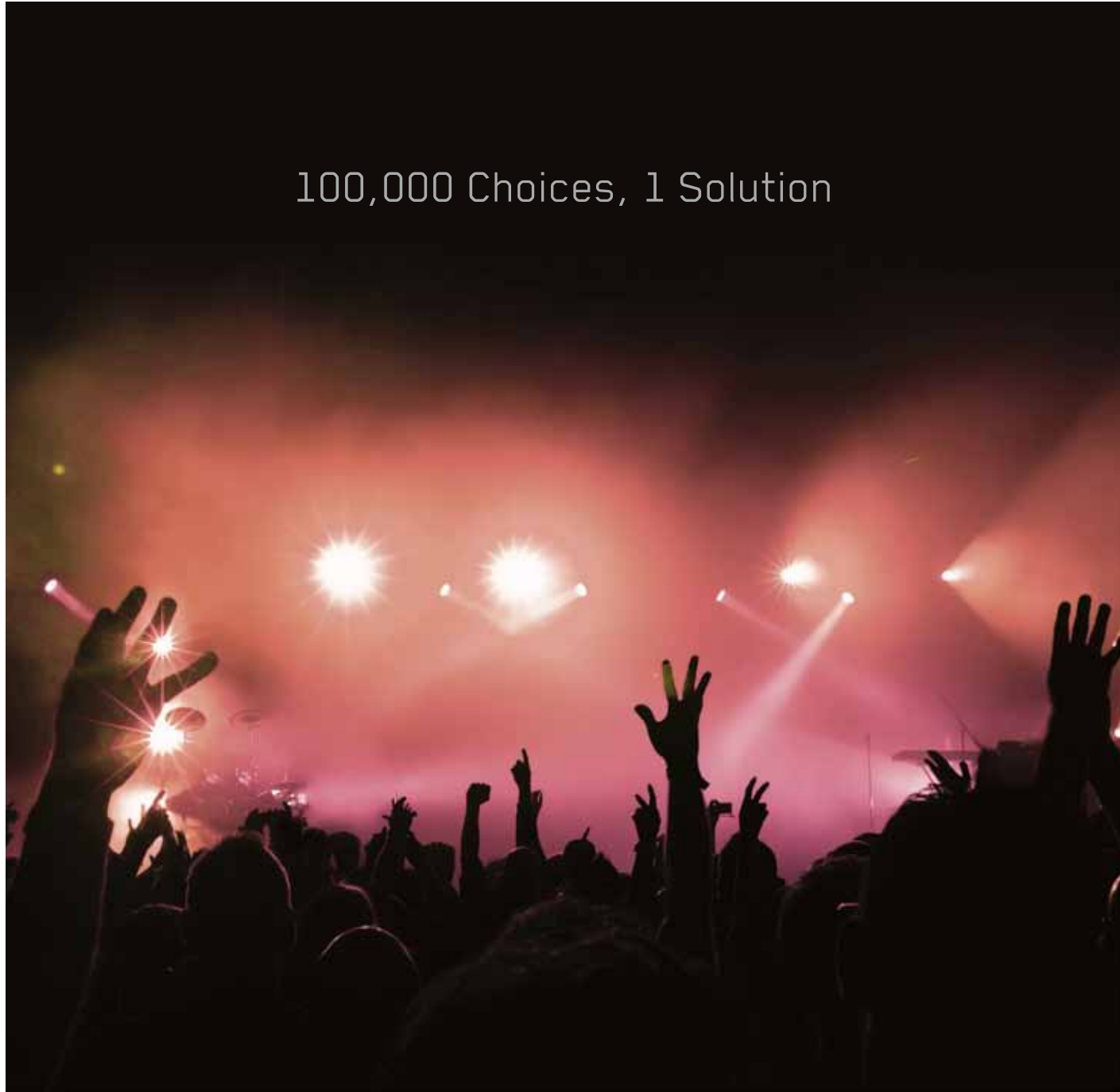
Accessibility
 When designing public buildings, architects need to provide easy circulation for the public and specially adapted access for people with reduced mobility. Sapa Building System provides bespoke access solutions including automatic doors, patio doors with invisible thresholds, access control and safety systems in case of emergency. All of which meet the highest standards of safety and durability.

Building design
 Architects aim to stimulate people who enter and use the buildings they create. Likewise, cities and capitals all over the world strive to attract the attention of tourists. They reinvent their image and affirm themselves as vibrant, safe and attractive locations for visitors and inhabitants alike. They invest in reliable, affordable and practical means of transportation to open up their wealth of social, cultural, commercial opportunities and experiences.



Sapa Building System product ranges provide design solutions in new build and refurbishment for a vast range of leisure and retail projects.

100,000 Choices, 1 Solution



People's safety and environmental protection are absolute priorities for the construction of public buildings. Sapa Building System's product offer comprises a great variety of advanced systems that can be adapted to any given situation.

Building Sustainability

Eco building is driving construction design to become more environmentally friendly with optimized thermal solutions and solar shading for lesser use of air cooling. Sapa Building System's product range includes solutions for both passive and active carbon emission reduction. Elegance SC (Solar Control) combines a reduced transmission of radiation with a lower solar gain inside the building, reducing cooling needs and resulting in a more carbon efficient building. Double skin façades can also contribute significantly to this goal by providing natural ventilation. Sapa Building System's building integrated photovoltaic solution transforms the building envelope into an active skin generating electricity. Furthermore, aluminium and glass can be endlessly recycled without degradation of physical properties.

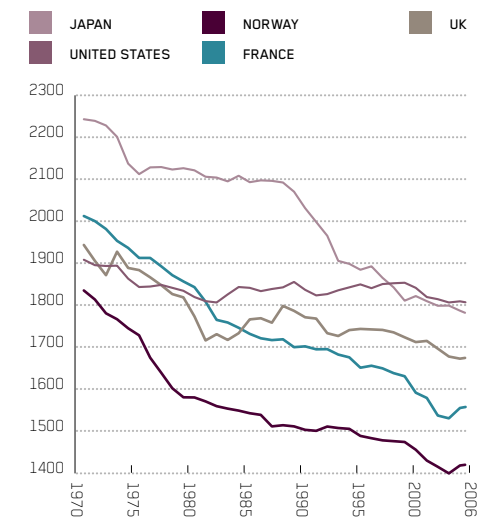
Safety

Public safety may require the restriction and monitoring of access to building premises. Sapa Building System offers an Access Monitoring System that allows for example, access permission with the use of a card, a fingerprint or both. Emergency exits are fitted with panic bars. Windows are fitted with safety hardware to guard against accidental falls and impact with open or moving panes.

Security

The disruption and cost associated with poor security is a major issue for building operators and users. Sapa Building System's windows and doors offer the first line of protection. We appreciate that different areas of public sites may need differing levels of protection. Our fully suited systems offer complete flexibility so that you can build in the levels of security that you need without compromise or costly over-specification. Sapa Building System offers a full range of solutions from fire, through anti-burglary to blast resistance.

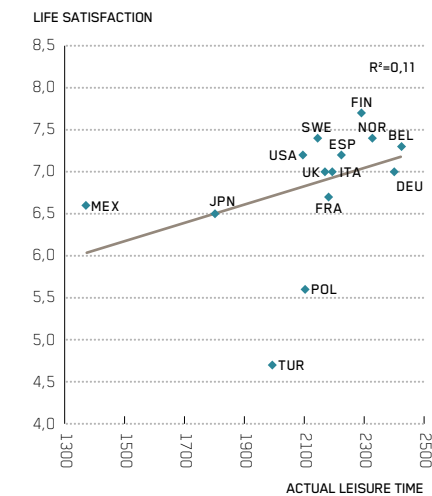
Long-term decline in annual hours worked



Annual hours worked by the total employed population in selected OECD countries

source: Secretariat estimates based on OECD Employment.

Leisure time vs. life satisfaction



Leisure time is positively correlated with life satisfaction

source: Data from the Gallup Life-satisfaction Survey and other OECD data. Secretariat estimates based on national and multinational time-use surveys.

24 Countries, 1 Solution



When it comes to engineering support and planning, the experience of Sapa Building System and its partners is a guarantee for a timely execution of your leisure and retail project.

One stop shop

The Sapa Building System teams' expertise provides complete project support from initial design to installation on site. Fabrication and installation are handled by our network of specialist contractors, covering every geographic area.

01. Concept Consultation
02. Concept Design
03. Project Costing
04. Thermal, PV Calculations
05. Wind Loading Calculations
06. Engineering System design
07. Supply
08. Installation

Efficiency

Professional advice is always available from Sapa Building System's sales and project teams who provide the link between our fabricating customers and architects, contractors and specialist installers.

Site assistance

Field based Project Consultants work closely with our in-house Project Support Team to provide specifiers with specialist advice concerning the correct application of our products for their projects, giving guidance on Building Regulations and other issues such as product specifications, usage, maintenance and safety.

Fabricator network

Present in more than 24 countries, Sapa Building System's fabricator network provides advice and assistance for specifiers right through the supply chain. We work closely with our authorised fabricators and installers to ensure that they have the latest product details to hand and they have the correct systems and procedures in place to handle all sizes of installations. It literally is true that our customer base can cope with anything from a small scale refurbishment to a high profile, high cost new build development.

Cross-border cooperation coupled to our determination to succeed means you are always supported by Sapa Building System's support network. Advice, assistance and problem solving are never far away no matter where your project is.



references



Grand Bazar
Liège, Belgium

The Grand Bazar is extremely well situated overlooking the place Saint-Lambert in Liège. Its impressive façade dominates the streetscape and is an important part of the heritage of this lively city. True to the original design concept the façade is adorned with gold leaf motifs.

Originally the building was home to a mix of commercial units with residential apartments. The commercial and residential use of the building as well as the detailed decoration of the façade would all be maintained following the building's renovation. The open shopping complex is brought together by a glass-roofed gallery which is designed to attract passing pedestrian traffic into the shopping area. In order to retain the variety of the existing windows, narrow window units were used, with their large dimensions requiring robust window frames. The architects selected Excellence 65, Sapa Building System's aluminium, thermally-broken, three chamber system.

Just as with other renovation projects, the main challenge consisted in finding an effective answer to the thermal performance problems. This led to a solution whereby the aluminium window unit is fitted into a metal frame while avoiding the creation of cold bridges. The architects chose a restrained green finish, which offers a subtle alternative to the louder colours of the original windows.

Systems provided:

Windows



Project: Grand Bazar
Architect: Bureau Audeux
City: Liège - Belgium

Fabricator/Installer: Design Métal



Project: Biblioteca Municipal de Gondomar
Architect: Paula Petiz, Arq.
City: Gondomar - Portugal

Fabricator/Installer: ICMG



**Biblioteca Municipal
Gondomar, Portugal**

With its distinctive façade, facing the village's spacious central square, Gondomar's new Public Library has become a defining local landmark.

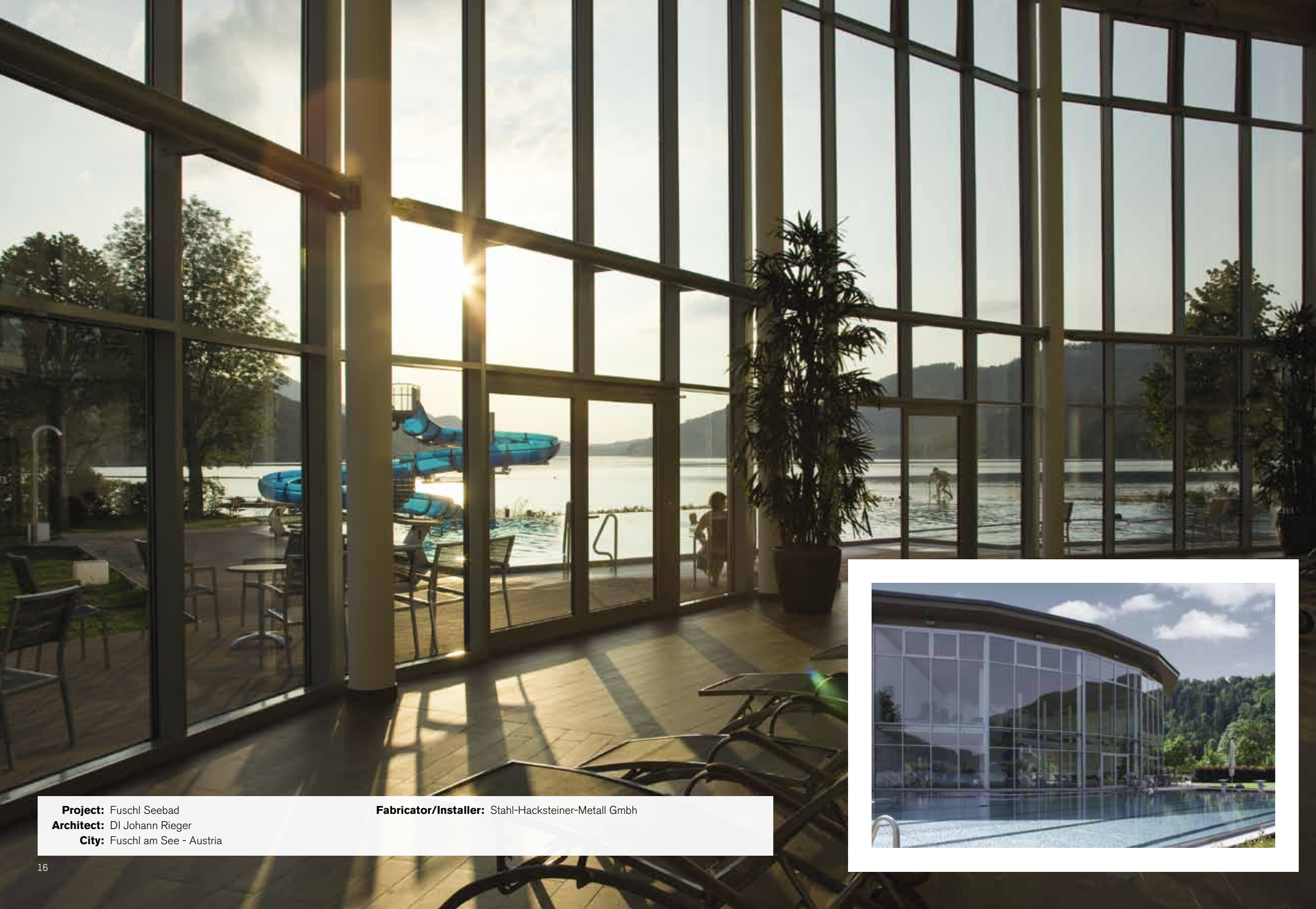
One of the most striking features of the building's frontage is the exterior sun blind system comprising electrically operated blades which automatically shut out excessive sun light. Apart from providing shade and coolness, this system also livens up the appearance of the building.

Systems provided:

Solar shading

Doors





Fuschl Seebad
Fuschl am See, Austria

The Fuschl Lakeside Spa holiday resort wished to offer its visitors more than just fun in the water. Therefore it was necessary to renovate and expand the existing resort, adding numerous wellness facilities for visitors to enjoy all year long, rain or shine, snow or hail. Thus the importance of a windproof and waterproof central hall, complete with swimming pool.

The ideal environment for visitors to relax required perfect thermal insulation. Thus it was logical that the designers of the renovated resort would choose the Excellence 75 SI (Super Insulated) Sapa Building System profiles.

In addition to 850 m² of curtain walls and well-insulated windows, fire resistant windows were also used for reasons of safety and to minimise risks. The E52 curtain wall ensures that visitors can fully enjoy the magnificent mountain view around lake Fuschlsee any time of the year.

The cost of the material was almost as important as its insulation characteristics, the service provided, and the short delivery lead time. From that standpoint, too, Sapa Building System was the natural choice.

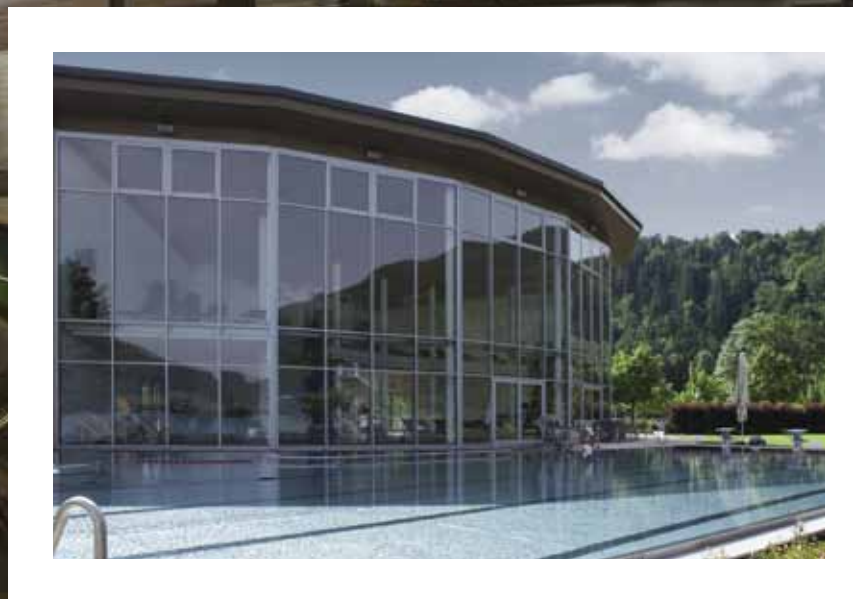
The schedule for the project was very tight. Thanks to its advanced supply chain and meticulous planning, Sapa Building System was the one supplier who was able to fill all orders within the stipulated deadline.

Systems provided:

Curtain walling

Windows

Fire-resistant windows



Project: Fuschl Seebad
Architect: DI Johann Rieger
City: Fuschl am See - Austria

Fabricator/Installer: Stahl-Hacksteiner-Metall GmbH



**Dolce Vita
Lisboa, Portugal**

The Dolce Vita Tejo is one of the largest shopping centres in Europe. From whichever angle it is viewed, this extraordinary building dominates its surroundings and yet invites visitors to explore the space inside it.

One of its most striking features is its curtain wall façade, for which the architects chose Sapa Building System's Elegance 52 system. The slender aluminium sections greatly contribute to the verticality and grandeur of the architectural design.

Systems provided:

Curtain walling



Project: Dolce Vita
Architect: Promontório Architecture
City: Lisboa - Portugal

Fabricator/Installer: Martifer

**Espace commercial Leclerc
Vienne, France**

The architect wanted to take maximum advantage of sunlight and natural light and searched for a system that would allow the easy integration of large glass areas. The Sapa Building System's Elegance 52 series turned out to be the most suitable because it offered, among other things, a great variety of designs.

The designers developed a remarkably lightweight load-bearing structure (52 mm) that was perfectly calibrated for the wind load and the weight of the glass.

A purposeful use of sun- and daylight yielded substantial energy savings, while being extraordinarily friendly to the environment. Sapa Building System and its partners are proud to have had the opportunity to collaborate on such environment-friendly projects.

Systems provided:

Curtain walling



Project: Espace commercial Leclerc
Architect: Fougrouse / EM2C
City: Vienne - France

Fabricator/Installer: Metelliance



Project: Ostend Casino Kursaal
Architect: Storme Van Ranst
City: Ostend - Belgium



The pearl on the sea gets a new sheen

The original design of the Ostend Casino Kursaal dates from 1948 and was far ahead of its time. Amongst other things, the original architect chose a concrete skeleton, an active façade and enormous aluminium windows. When the city of Ostend decided to restore the building to its original glory, the old plans were dug up and it immediately became clear that this would not be a simple task.

Aluminium, yes or no?

For example, it had to be determined whether to replace the original aluminium window profiles with new aluminium or with stainless steel profiles. The aggressive North Sea climate had corroded the old frames so badly that stainless steel seemed a better solution. On the other hand, using stainless steel would cost a lot more and have a serious adverse impact on the building's appearance.

The city of Ostend tasked experts to research the effects of the sea climate on various modern materials. This study showed that thanks to modern alloys and protective techniques, aluminium profiles could be used without any problem, even under the most challenging conditions.

Tailor-made profiles

Based on the results of this investigation, Sapa Building System quickly created a tailor-made system for the Kursaal. The system had to be windproof, waterproof and corrosion resistant. Moreover, the window profiles had to closely resemble the look of the original structures while simultaneously guaranteeing adequate thermal insulation. It was also crucial for the old windows to be replaced very rapidly, in order to protect the steel inside the building from being exposed to the North Sea air for too long.

The solution for the Kursaal was based on a Sapa Building System's curtain-wall system. Seven profiles that very strongly resembled the original window profiles were specifically designed for the Kursaal. Glazing bars were tailor-made to imitate the original windows as closely as possible. To speed up the work, a modular system was chosen which could be assembled between the existing basic steel structure. Next, the entire window-assembly was mounted as a curtain wall in front of this structure, leaving the entire steel structure visible.

Strong combination

In order to protect the new curtain wall against the aggressive coastal climate, an aluminium alloy susceptible to cold anodising was chosen for the profiles. The classical paint solution cannot adequately protect the aluminium profiles from the constant corrosive attack of the salt and sand in the seacoast air. Anodising can.



Active façade

The original 1948 active gable consisted of two single-pane glass partitions, with an adjustable sunshade mounted between them. The control of this sunshade, including the lamellae, was fully restored, and a double glazing chosen for the outer shell. The single-pane-glass side wall had remained in fairly good condition and only required some repair.

In the process, extra attention had to be paid to acoustic insulation, since noise from the wind and the sea can easily reach 53 dB. A lot of attention was paid to this in the original design. The concert hall for example had been provided with an acoustic system consisting of adjustable baffles, which could calibrate the echo of the hall to song, or opera or orchestral performances. However, because of the increased size of the concert hall, the old system was no longer adequate and a completely variable acoustics system was built in.

Systems provided:

Curtain walling

Windows



"For the Kursaal in Ostend Sapa designed a curtain walling system that is windproof, waterproof and corrosion resistant. In addition, the window profiles closely resemble the original structures guaranteeing optimum thermal insulation."



Project: Parc La Praille
Architect: Atelier d'Architecture Brodbeck
City: Genève - Switzerland

Fabricator/Installer: Spagnol, Lüthy, Fahrui - Vaud



Parc La Praille **Genève, Switzerland**

The new MParc shopping mall with an area of circa 3 hectares was built in La Praille, Switzerland, right next to Carouge on the outskirts of Geneva. Here shoppers can find DIY products, garden tools and supplies, furniture, electrical and electronic goods. The floor plan of the building is 160 by 60 meters, and its height is 11 meters. In addition to the shopping space, it also houses a restaurant, a bank office and some independent speciality shops. A 1500 m² of glass-enclosed atrium was built onto the main building.

The shopping centre is an example of modern steel construction technology: the front and the two sides consist of Sapa Building System curtain walls, while the back of the building is dedicated to loading docks for trains and trucks.

The elegant sloping roof protects the building against the heat of direct sunlight. The three curtain walls allow ample natural light into the shopping space, and thanks to the curtain wall's excellent insulating properties, the building does not need air conditioning. All of this naturally made both the construction and the use of the shopping mall budget friendly.

Systems provided:

Curtain walling

Windows



**Primark Retail Unit,
Merry Hill Shopping Centre, Brierley Hill
West Midlands, United Kingdom**

Fashion retailer Primark has 196 stores across Europe, 138 of which are in the UK. For its new store in the major retail centre of Merry Hill, a new building had to be added to an existing structure and the façade blended into the existing façade without visual disruption. Sapa Building System's Elegance 52 curtain wall system was selected for its ability to achieve these criteria whilst also achieving the safety and thermal insulation criteria of the project.



Systems provided:

Curtain walling



Project: Primark Retail Unit, Merry Hill Shopping Centre
Architect: INC Design Associates
City: Brierley Hill - United Kingdom

Läkerol Arena
Gävle, Sweden

Läkerol Arena is an indoor sporting arena located in Gävle, Sweden. As it was designed to welcome 8,265 hockey fans one day and a concert audience of 11,000 the next, it had to be considerably more comfortable and flexible than the old ice hockey stadium it replaces. The imposing building's large glass façades at the entrances and on other parts of the exterior, give an impression of openness to its surroundings.

To achieve the required thermal insulation performances, the architect selected Sapa Building System's SFB 1074 window system. The 74 mm deep sections were insulated with 30 mm glass fibre reinforced polyamide strips which provide very good insulation.

For one façade he chose Sapa Building System's well-tried SFB 4150 series which perfectly met the high functional requirements of the project. For the second façade he used the SFB 3074 partition systems which were combined with the SFB 2074 insulated door system. Again, all sections were insulated with glass fibre reinforced polyamide strips.

Systems provided:

Curtain walling

Windows

Doors



Project: Läkerol Arena
Architect: Bergfjord & Ivarson Arkitekter AB
City: Gävle - Sweden
Fabricator/Installer: Alab Aluminiumsystem AB



Project: IKEA

Fabricator/Installer: Martifer

Architect: Hugo Afonso, Arq.

City: Lisboa - Portugal

IKEA

Lisboa, Portugal

Ever since its opening, the first IKEA shop in Portugal has attracted millions of customers and has become one of the country's most successful shopping facilities. The inclined façade creates a light well that opens the shopping space up to daylight, effectively showcasing all the IKEA products.

The solution supplied by Sapa Building System brings functionality and a modern look to the shop. This is emphasized by the IKEA brand's characteristic blue and yellow colours applied in the powder coated surfaces of the aluminium sections.

Systems provided:

Curtain walling



Project: Teraspark Shopping Centre
Architect: Öncüoğlu Architecture
City: Denizli - Turkey

Fabricator/Installer: Art Aluminium



**Teras Park Shopping Centre
Denizli, Turkey**

Teras Park Shopping Centre is located in Yenisehir, a rapidly developing district of Denizli. The building stands on a sloping site and commands a view over the entire city. In creating the shopping centre's concept, the starting point was the province's famous travertine terraces known as Pamukkale. The various functions within the building have been allocated to different terraces and levels that take advantage of the gradient.

The plan of the building consists primarily of a main atrium and a second atrium connected to it. Since a hypermarket occupies large areas on the lower floors, the second atrium begins after the first two floors. This atrium also leads towards the area devoted to recreation and food. An ice skating rink in the centre of the elliptical main atrium is intended to add dynamism to the space. The skylights in the roof have been specially designed by Sapa Building System.

Systems provided:

Curtain walling

Windows



Merry Hill Shopping Centre

Brierley Hill, West Midlands, United Kingdom

Sapa Building system's curtain walling solutions were used for both the vertical and sloped roof glazing at this major retail development in the West Midlands, which is currently owned and operated by Westfield.

The 3000m² of roof glazing presented significant challenges. The installation was carried out using a crane and suction glass handling equipment, and the 12m length of the rafters meant that a special technique had to be jointly developed by Parry Bowen and Sapa Building System to join the 6m extrusions. Because of the inaccessibility of the roof glazing the watertightness of the roof was critical. Since the installation in 1996, the roof glazing has remained watertight in all weathers.

Systems provided:

Curtain walling



Project: Merry Hill Shopping Centre
Architect: INC Design Associates Ltd.
City: Brierley Hill, West Midlands, UK



**La Maladière
Neuchâtel, Switzerland**

This multifunctional building complex houses not only a shopping centre with numerous public facilities, but an entire sports stadium. The commercial centre was able to open its doors after only 33 months; building and putting the finishing touches to the sports stadium took 36 months.

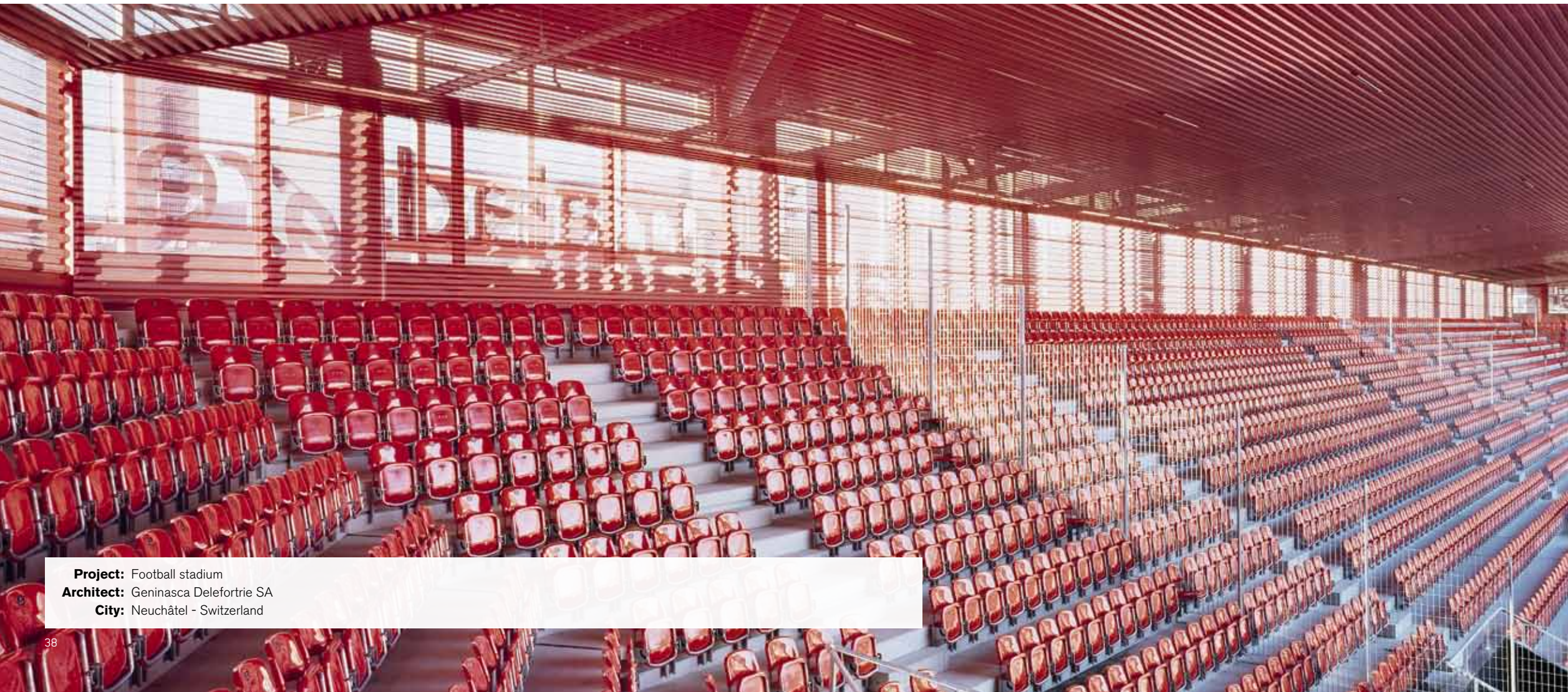
The new complex replaces the old Neuchâtel Xamax football stadium. Its construction was of great benefit to the city as a whole: the project generated a great deal of activity, which led to the urban renewal of a neglected suburb.

The underlying architectural concept involves an interplay of transparency and reflection. The complex sits on a reflecting base of glass and metal. The upper part of the façade is transparent, offering a view of the Italian-theatre-style stadium. The dominant colours are red and black.

This enormous complex posed a large number of problems for the architects and engineers, among others in the areas of watertightness and stability. The combined commercial and sports functions required much ingenuity and thinking outside the box. Fortunately, various specialised firms, including Sapa Building System, put out their best efforts and were able to attain the desired high-quality results within the determined deadline.

Systems provided:

Curtain walling



Project: Football stadium
Architect: Geninasca Delefortrie SA
City: Neuchâtel - Switzerland

Aquapark

Kladno, Czech Republic

The Kladno Aquapark is one of the biggest and most popular water parks in the Czech Republic. The facility and its attractions are directly connected to a classic swimming pool. Other popular services such as massages, whirlpools and saunas also make up part of the complex. The water park was re-opened in 2004 following an elaborate reconstruction of the covered swimming pool and accompanying pavilion with water attractions.

High performance thermal insulation was of critical importance for the project. Consequently, the architects went with the tried and tested thermal break technology of Sapa Building System's Elegance 52 and C60 product lines.

The design of a sports centre of this significance needs to be thoroughly thought-out in terms of safety. This is why the architects, among many other measures, decided to implement fire-rated SFB TH 74 EI solutions.

Systems provided:

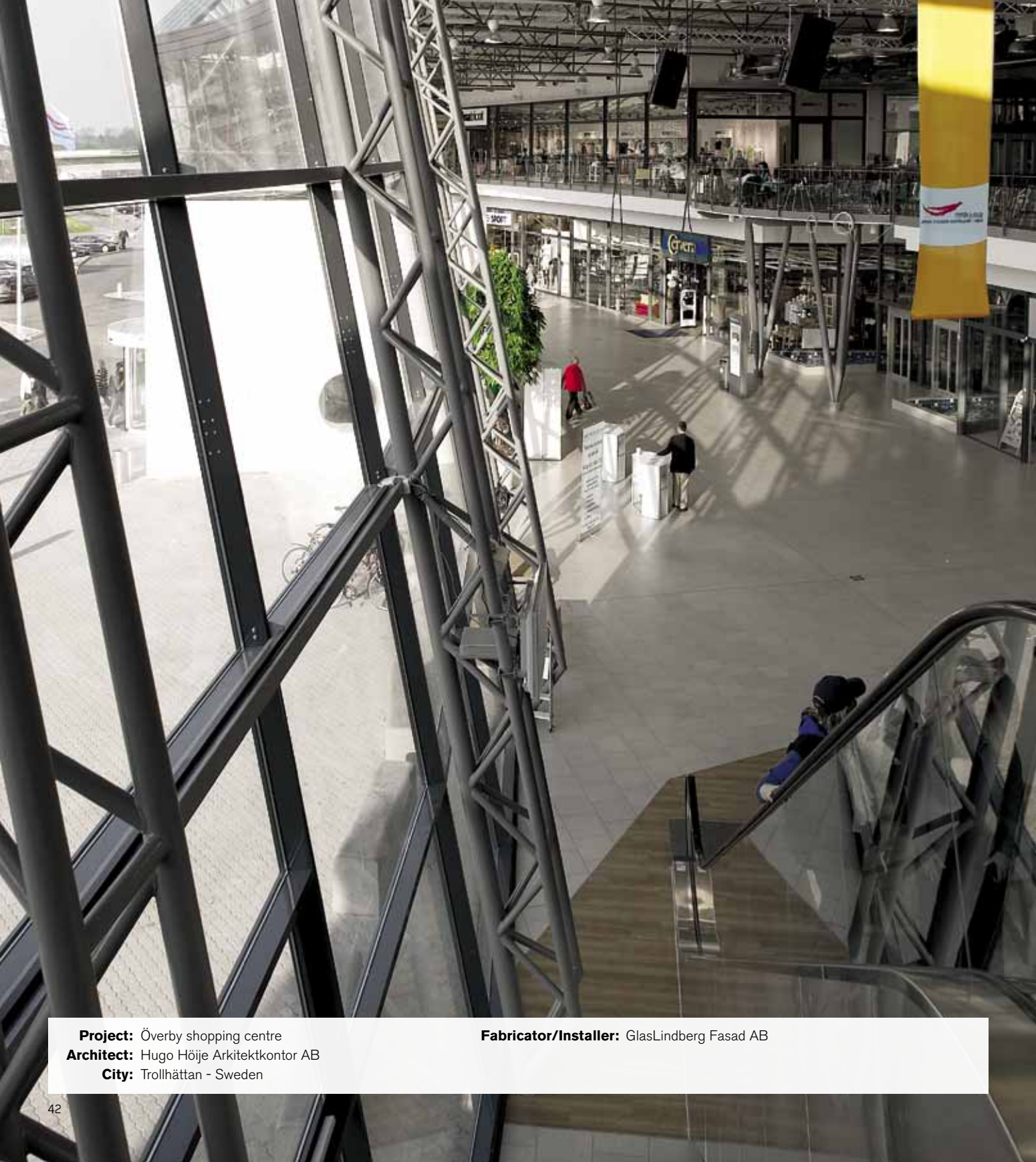
Curtain walling

Windows



Project: Aquapark
Architect: Ing. Arch. Karel Albrecht
City: Kladno - Czech Republic

Fabricator/Installer: Izoglass spol. s.r.o.



Project: Överby shopping centre
Architect: Hugo Höije Arkitektkontor AB
City: Trollhättan - Sweden

Fabricator/Installer: GlasLindberg Fasad AB



**Överby shopping centre
 Trollhättan, Sweden**

Överby, in Trollhättan, is an existing shopping centre which has received a badly needed extension with Steen & Ström's new construction, which incorporates 38 new shops over two levels. Beneath the entire construction there are parking spaces for about 200 cars. The shops on the upper storey are reached through a generously proportioned entrance hallway via two escalators and a centrally located lift. The planning principle is simple. Goods in from one side, and customers in from the other. Accordingly, the principle governing the appearance of the building is closed at the back and open at the front.

The idea of the large, forward-sloping glass section with its white entrance cube is, naturally, to create interest in the building from a distance, and, as you approach it, to give a rapid overview of what is within and make a clear statement about where you are entering in. The information people get through the glass is designed to create expectation.

The shopping centre's inclined glass façade is implemented in façade system SFB 4150 with outward opening ventilation hatches, SFB 1074, fitted with automatic control. The main entrance is completed with two double doors, SFB 2074. Two glass roofs, system SFB 5050, bring extra light to the escalators.

Systems provided:

Curtain walling

Windows

Doors



Project: Newbury Racecourse
Architect: Brotherton
City: Berkshire - United Kingdom

Newbury Racecourse
Berkshire, United Kingdom

Sapa Building System's vertical and sloped curtain wall, along with heavy duty entrance doors, casement and pivot windows and sliding doors were used in the construction of the main grandstand at this 100 year old major sporting venue (home of the Hennessy Gold Cup) which is also a conference and events centre. Corporate hospitality clients demand that the building operates at the highest quality level in terms of weathertightness and safety.

Systems provided:

Curtain walling

Windows

Doors

Smart Tower

Mechelen, Belgium

In Aartselaar, right next to the busy traffic artery that services Antwerp, Smart's new showroom was built in the form of a 15 meter high glass tower. Smart towers have been the trademark of Smart Centres the world over. For the gable, the Elegance 52-series of Sapa Building System proved to be the ideal solution, a choice dictated by the designers' desire to achieve elegance while keeping costs contained.

Systems provided:

Curtain walling



Project: Smart Tower

Architect: Architecten bureau FDA

City: Mechelen - Belgium

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