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ARCHITECTURAL ALUMINIUM SOLUTIONS

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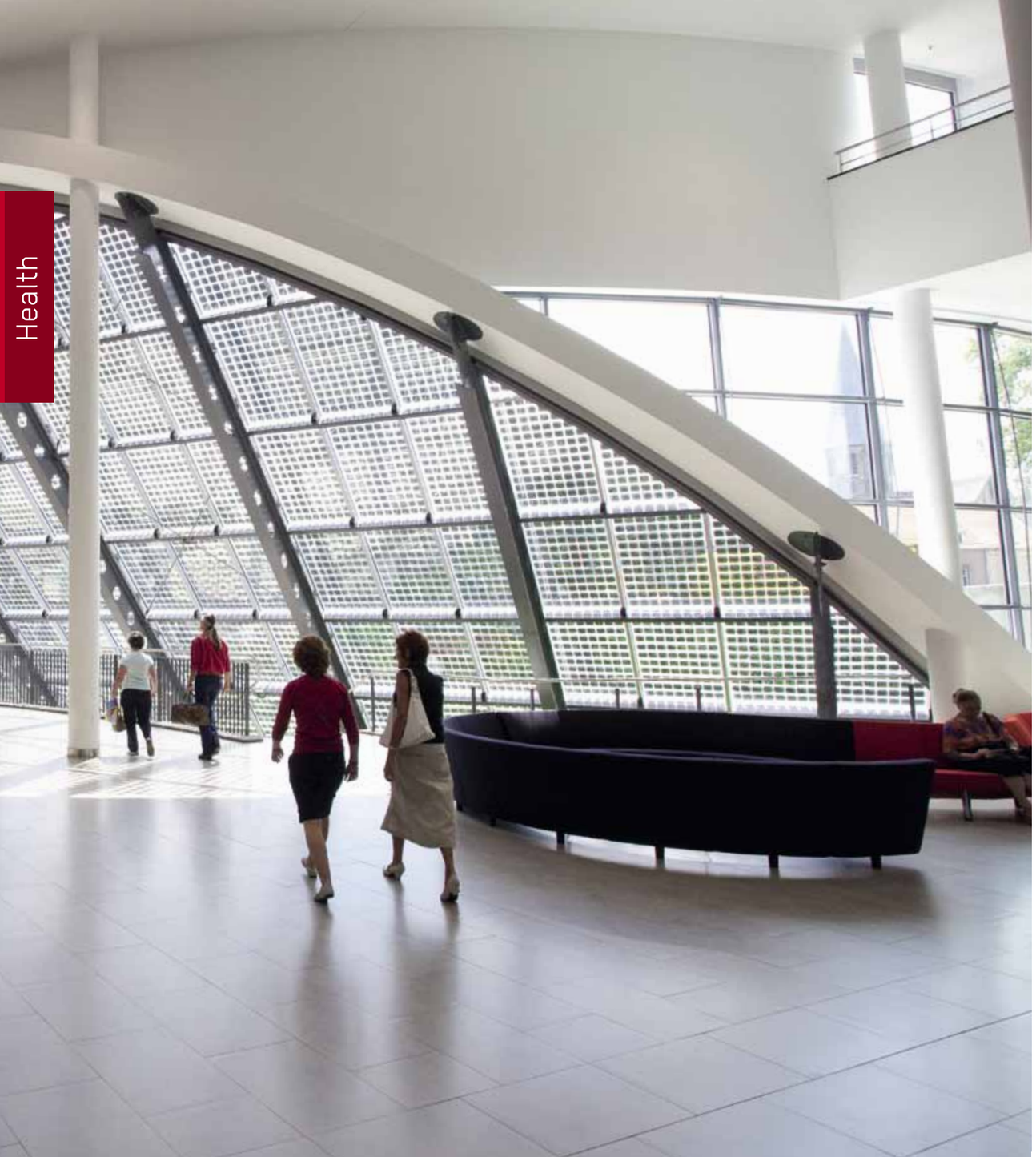
Sapa Building System



Health

Over the years Sapa Building System has consistently applied its knowledge of architectural aluminium systems for creating secure and practical environments where doctors and medical staff can provide the best care and treatment to their patients.

The health sector plays an important and valuable role in our society. To successfully perform their many vital tasks doctors, nurses and other health professionals need practical and hygienic surroundings. This is where Sapa Building System focuses its efforts.

We develop bespoke solutions to perfectly meet the needs of the client and end user. We have developed a tailored offer for the Health sector to provide adapted solutions for hospitals, clinics, elderly homes, laboratories, medical research centres and all other institutions and organisations where hygiene, medical team and patient comfort, quality and long life within an eco-friendly environment are key attributes.

Sapa Building System is committed to working closely with key specifiers including architects, 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.

Hans Johansson
President Sapa Building System

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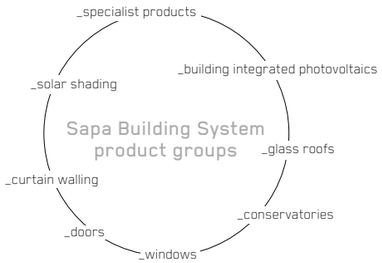
People seeking medical care in hospitals and health centres often feel insecure and vulnerable. Sapa Building System can be counted on to help create an environment which puts their minds at rest and reduces stress.



Patients, nurses and doctors' environment
For operating rooms, recovery rooms and patient rooms Sapa offers high performance solutions based on windows, with low air permeability, high sound insulation, high thermal performance and light control.

Thermal insulation and light control
Sapa's comprehensive product range includes various efficient thermal insulation solutions which combine a **high performance façade** with **solar shading** to capture the light in winter and protect against it in summer. The aim is to keep cool in summer without resorting to air conditioning, whilst enabling energy savings in winter by reducing the need for heating. Our super-insulating, thermally broken aluminium systems, combined with high performance glazing, meet the strictest thermal requirements. Adapted ventilation systems ensure healthy air at all times.

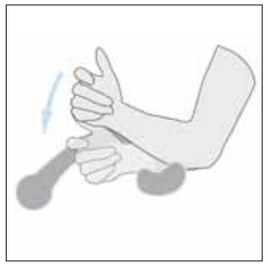
Acoustics
Sapa Building System's integrated window solutions are designed to restrict excess sound and disruptive background noise to an absolute minimum.

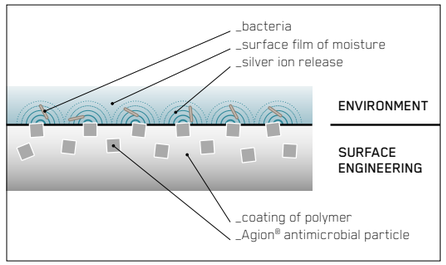
Design, colours and shapes
Aluminium profiles and accessories are available in a vast range of colours and shapes including polyester powder coating in gloss or matt finish. Alternatively, anodizing provides a subtle sheen of colour to aluminium's natural patina. Bespoke profiles can be incorporated into a project design.

Sustainable development and energy savings
The Sapa solution to energy efficiency encompasses high thermal performance systems, solar control and building integrated photovoltaic systems. Furthermore, aluminium and glass can be endlessly recycled without degradation of physical properties.

Sapa Building System product ranges provide design solutions in new build and refurbishment for a vast range of constructions in the health sector from hospital complexes, clinics, medical centers, laboratory, pharmacy to elderly homes.

Health care facilities aspire to state of the art buildings and equipment. They aim to provide patients and medical staff with leading technology and a positive working environment to ensure people's comfort and have patients appreciate their stay in a hospital, clinic or elderly care home.





Hygiene protection

As the hands are the main vehicle for bacteria, Sapa Building System offers a special type of door handle. The so-called Ulna Handle is powered by the elbow which considerably reduces the risk of bacterial colonization in door handles. To further reduce the propagation of bacteria the aluminium profiles of doors and windows can be coated with the Agion® coating. When exposed to humid air, the coating releases silver ions which efficiently maintain an anti-bacterial surface. This process lasts as long as the product itself.

Security and fire safety

For security reasons, access to areas designated for children and mental health patients often must be limited to authorized personnel only. Doors can be fitted with monitoring devices or lock systems restricting access to badge holders. Meanwhile, panic bars can be fitted to doors which ensure the fast evacuation of the building in the event of fire. Furthermore, Sapa Building System protection range includes fire resistant doors and screens.

Accessibility

Restricting obstacles to a minimum is of paramount importance for people with reduced mobility and patients in wheelchairs. Automatic doors, sliding windows sunk into the floor and without raised threshold, electrical controls and sufficiently wide thresholds enable patients to move more freely through hospitals and nursing homes.

Anti-ligature and self harm protection

Sapa Building System can incorporate anti-ligature protection systems in most of its products. They effectively restrict the ways in which a patient can hang him or herself using the window or any of its components. Sapa also offers systems to prevent patients from cutting themselves with sharp parts of the window or harming themselves in any other way.

Specially designed Ulna door handles combined with Agion® anti-bacterial coating on the aluminium profiles of doors and windows effectively reduce the propagation of pathogenic organisms through the hands of medical staff and visitors.

Sapa Building System's global experience in building design for the health care sector is a valuable contribution for the success of your project. We provide turnkey solutions combining state of the art products, engineering, extensive support and continuous advice.

One stop shop

Sapa Building System's 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, statics, 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 authorized 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

LIFT

Cudworth, UK

As part of the NHS LIFT scheme, Cudworth Health Centre is one of a new breed of multi-use facilities designed to bring together a range of amenities covering general medical, community health and social services. The design of the Cudworth Centre is light, friendly and welcoming, thanks to the glazed roof area. Dualframe Roof was specified not only because the system is designed to cope with the loads generated by the large spans, but also because it offers a faster installation time to traditional curtain walling.

Once the site survey had been completed, Sapa's specialist contractor Bonam and Berry Ltd of Nottingham placed the order and the Dualframe roof team processed it using their standard manufacturing software. In line with standard production practice for large orders, the team carried out a test build of the roof. Everything went smoothly and all of the components were checked and packed into boxes for transport to site. The only deviation from normal was the extrusion of extra length hip bars to cater for the span involved.

Andrew Spencer of Bonam & Berry takes up the story. "We worked off scaffolding erected over the 2-storey atrium. The kit format of Dualframe Roof enabled us to simply open the boxes in sequence and install the frames above the structural steelwork. The very nature of Dualframe Roof enabled us to glaze the atrium far more quickly than a curtain wall or patent glazed system. This, as we all know from the typical British weather, is a major advantage for follow on trades."

Systems provided:

Glass roofs
Casement windows
Doors

Project: LIFT (Local improvement Finance Trust)
Architect: Pearce Bottomley Architects
City: Cudworth - UK
Investor: NHS Barnsley
Fabricator/Installer: Bonam and Berry Ltd

Project: Monica VZW - Campus O.L.V. Middelares
Architect: LLOX Architects, Wilrijk
City: Deurne - Belgium

Monica VZW - Campus O.L.V. Middelares Deurne, Belgium

The O.L.V. Middelares Campus in Deurne, near Antwerp, was extended along a very busy access road. Closed structures were added on the street side of the complex, while the patients' rooms were oriented to the enclosed garden. The architect chose Elegance 52 profiles for the curtain walling because they provide an economical solution and combine good thermal insulation with a slim sightline. The two-chamber Confort 50 system was selected for the windows. Its thermal insulation values are equal to those of the three-chamber system Avantis 55, which is also manufactured by Sapa Building System.

Systems provided:

Curtain walling
Casement windows

Al Ahli Hospital
Doha, Qatar

The Al Ahli hospital in Qatar is an exceptional and highly innovative health care facility which combines the comfort and quiet of a five-star hotel with the best of technical and medical amenities. There are 16 dedicated operating rooms for ambulatory surgery. All 250 rooms, including the Royal Suites and the VIP rooms, are perfectly equipped and attention has been paid to the minutest detail to guarantee a pleasant stay. There are eight beds in the Neonatal Intensive Care Unit (NICU), five beds in the Intensive Care Unit (ICU) and five beds in the Coronary Care Unit (CCU).

For the realisation of this prestigious private hospital all exterior joinery had to be designed and built to the highest standards. In the harsh environmental conditions of Qatar, with temperatures up to 50°C and with the proximity of the desert and the sea, only high performance and certified products could be used. Consequently, the Elegance 52 and Confort 50 thermally broken aluminium systems were selected. Sapa Building System's research centre designed a special window latch mechanism to meet all acoustic, thermal and functional requirements. In addition, the system had to guarantee optimum weather tightness and ease of maintenance to meet hospital standards.

Work on the building project was carried out according to the highest standards, resulting in very high quality environment for patients seeking the best possible treatment. The Al Ahli hospital has been called a 'Pearl of Health Care' and it is the first health care centre in the Middle East to be awarded an international gold star for quality, customer satisfaction, management, innovation and prestige.

Systems provided:

Curtain walling
Casement windows
Doors

Project: Al Ahli Hospital
Architect: Arab Engineering Bureau, Doha
Dar Al-Handasah, Doha
Contractor: Contraco W.L.L, Doha
Fabricator/Installer: Aluminium Technology Auxiliary Industries, Doha
City: Doha - Qatar

Project: Centro Diagnostico Italiano
Architect: Studio di Architettura Antonio Cerutti
City: Milan - Italy

Centro Diagnostico Italiano
Milan, Italy

The Centro Diagnostico Italiano S.p.A. opened at the beginning of the 1970s in Milan. It soon established itself as an innovative health care provider with a main focus on early diagnosis. From the outset the Centro Diagnostico Italiano (CDI) has aimed to maximise the synergy of medical and business competences with the purpose of creating a health care organisation that complies with the highest European standards.

Today, the CDI heads a network of health care centres in Italy which provide a full spectrum of health care facilities and services in diagnostic, preventive, therapeutic and rehabilitative medicine. Wherever possible the CDI tries to avoid hospitalization, thus reducing health costs for both the individual and society.

For the new clinic building in Milan Sapa Building System redesigned its classic Elegance 65 system to meet the very specific demands of the customer. Thanks to the clean linearity of its design the new customised E65 system is pre-eminently suitable for a hospital environment. It also has improved insulating properties due to the new design of the external profile of the thermal break frames and transoms. Finally, through the insertion of a steel sheet into the outer profile Sapa Building System has succeeded in making the new windows soundproof up to 44 Db.

Systems provided:

Curtain walling
Sliding windows

Academic clinic
Linköping, Sweden

The new Linköping University Hospital building was designed to accommodate over 70 hospitalized patients and a medical staff of about 350 people. It houses specialist facilities for oncology, haematology, pneumology and radiology which offer complex surgical and oncological treatment to approximately 200 patients every day.

The architect's prime objective was to provide doctors and medical staff with a stimulating working environment. This is clearly reflected in the choice of furniture and the layout of rooms, common areas and corridors. Lifts, staircases, junction nodes and strategically placed entrances contribute to the accessibility and flexibility of the hospital. A well-considered floorplan ensures that walking distances are always kept to a minimum.

While great care has been taken to avoid acoustic discomfort, the building's design is still very open and transparent. Large windows and a carefully chosen clear colour scheme lend the hospital a pleasant airy feel. Attractive courtyards and green areas create a sense of harmony and help patients and medical staff feel more comfortable.

Systems provided:

Curtain walling
Glass roofs
Sliding windows
Doors

Project: University Hospital
Architect: Carlstedts Arkitekter
City: Linköping - Sweden

Fabricator/Installer: Alab Aluminiumprofilsystem AB

photographer Hans L Bonnevier

Project: O.L.V. Ziekenhuis
Architect: VK STUDIO Architects, Planners & Designers
City: Aalst - Belgium

Fabricator/Installer: Francovera n.v.

"Sapa Building System's expertise is essential in the development of the eyeshaped curtain wall that holds over 18,000 photovoltaic cells."

A BENCHMARK PHOTOVOLTAIC PROJECT

For years, O.L.V. Ziekenhuis in Aalst (Belgium) has been one of the best hospitals in the world for researching and curing cardiovascular conditions. The hospital wanted its facilities to reflect its prominent role. Ever since 2005, Sapa Building System has contributed to the creation of a new, state-of-the-art campus, of which BIPV (Building Integrated Photovoltaics) is an important part.

The highlight of the renovated hospital undoubtedly is the atrium. While being the focal point of the impressive entrance hall, it has all the energy-efficient, insulating and aesthetic qualities of BIPV thanks to its south-facing 45-degree slope.

The construction of the façade was preceded by an extensive study. The structure should not just have the capacity to support the photovoltaic cells; it also needs to include the required connections for the panels.

Attention was paid to ensure it is fire-resistant and maintenance-friendly. A movable cleaning installation was initially considered for the glass surface but, by mutual agreement of Sapa Building System, the architects and the contractors, a different solution was developed and a self-cleaning façade surface with a draining system that rinses away any settled dust has now been installed.

The photovoltaic cells are incorporated in between two plates of safety glass. These pre-assembled modules – which are 120 by 240 cms in size – are connected by aluminium frame sections with built-in thermal breaks and integrated connectors to transport the generated electric energy.

Sapa also researched the support capacity of the aluminium frame and the integration of the connection points. Particularly any bending of the frame is critical. The modules with the photovoltaic cells are very heavy. Even the slightest deflection of the frame can damage them or jeopardise their operation. Needless to say keeping the construction wind and waterproof was an absolute condition of the specification. Various test set-ups were tried at the Sapa Building System testing centre and the best solutions were used.

The solar energy is fed into the hospital's electrical network, for which green power certificates are received. The annual capacity is 31,122 kWh. Every square metre produces 100 W and the total net surface area of the photovoltaic cells is 500 m^2.

Systems provided:

Curtain walling
Building integrated photovoltaics
Casement windows

In order to maximise the output of the 45° angle curtain wall, special glass-modules were made with custom connected cells that fit the hospital's eye-shaped public hall.

Project: Centre Médico-chirurgical de réadaption des Massues
City: Lyon - France

Fabricator/Installer: SNMA

Medical rehabilitation centre Des Massues
Lyon, France

This medical-surgical centre was founded in 1960 and is specialised in diagnosing, treating and rehabilitating patients with locomotive disorders of various origins.

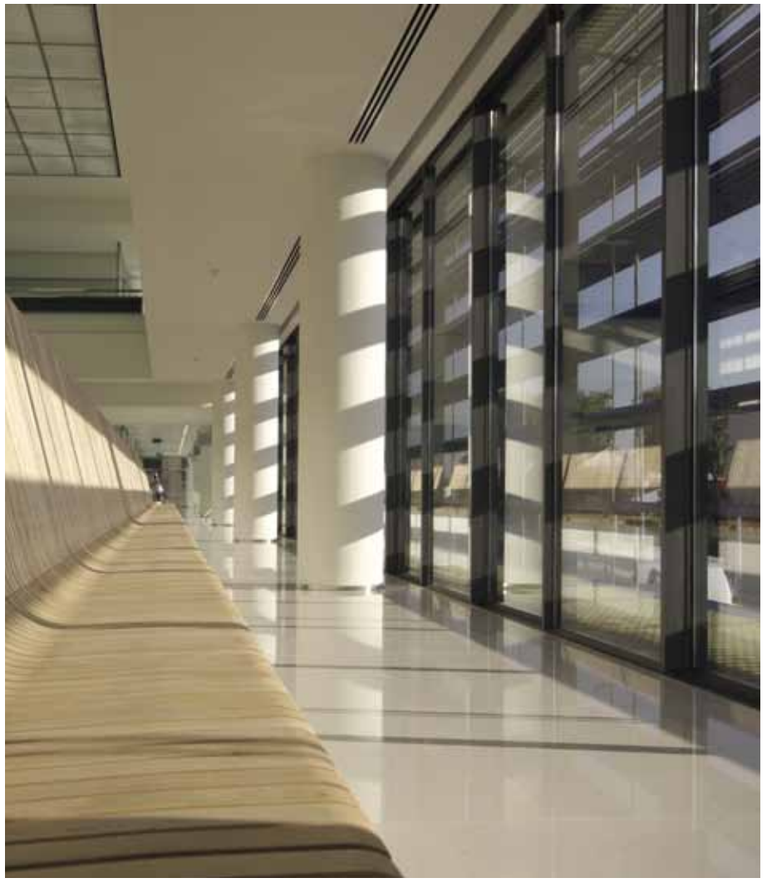
For the refurbishment of the hospital premises Sapa Building System supplied Elegance 52 curtain walling and Confort 50 thermal insulation windows with a latch mechanism that was specially designed for the project. The latching system offers maximum functionality and absolute ease of use and maintenance.

Thanks to its special design, the curtain wall and glass roof allow for a broad diffusion of light in a natural way, while maintaining a constant interior temperature in winter as well as in summer. This greatly improves the comfort conditions of patients and medical staff.

Systems provided:

Curtain walling
Glass roofs
Special-designed casement windows

Project: CUF - Inst. Médico de Diagnóstico e Tratamento
Architect: Arq. Carlos Prata
City: Porto - Portugal
Fabricator/Installer: Martifer



CUF Medical Institute
Porto, Portugal

This new private hospital and clinic in the outskirts of Porto is based on a modern concept of health care.

The architect decided against the use of a conventional curtain wall. Instead, he proposed a façade based on a sliding doors concept with repeated fixed panes, for which he chose the Sapa Building Slimslide system. This resulted in an elegantly modulated façade. An intricate set of joined coloured tubes fulfils a decorative function while enveloping the maintenance side walks and providing the necessary sun shading.

Systems provided:

Solar shading

Doors

Great Western Hospital
Swindon, UK

A £100 million hospital, sited on 32 acres of land at Swindon was developed for the Swindon and Marlborough NHS Trust by a consortium led by Carillion Plc, the UK's leading contractor in the PFI sector providing the local community with state-of the-art medical facilities.

Sapa Building System completed the £900,000 contract to supply windows and curtain walling.

Swindon's new hospital was amongst the first UK health care projects to emerge under the Private Finance Initiative (PFI) guidelines - the government's plan to encourage private participation in the non-clinical and capital components of its national health care system. Working to strict timescales, Sapa Building System's dual colour windows were supplied direct to Trent Concrete - producers of pre-cast concrete panels - for fitting off-site by one of Sapa's fabricators and installers. This approach significantly reduced on-site installation time.

Special outer frame sections were developed to integrate directly with the Spanwall Stacking Cladding system the architect chose for this project. The window design was generally based on a straight horizontal ribbon emphasis and also included some concave and convex curved-on-plan areas. The curtain wall system was used to enclose the full height stairwell towers and incorporated doors in manual and automatic form to the main entrance areas.

Systems provided:

Curtain walling
Casement windows
Doors

Project: Great Western Hospital
Investor: Swindon and Marlborough NHS Trust
City: Swindon - UK

Project: Hospital České Budějovice
Architect: Ing. arch. Polcarová - A+U design
City: České Budějovice - Czech Republic

Fabricator/Installer: TETRAGON AL spol. s r.o.

Hospital České Budějovice
České Budějovice, Czech Republic

The Hospital České Budějovice has a history that goes back to the beginning of the 14th century. Presently, it is one of the largest health care facilities in the Czech Republic. With a total of more than 1,650 beds, it is the fourth largest hospital in the country. It offers basic, specialized and highly specialized care in practically all medical disciplines.

The recent construction and fitting out of a new hospital wing constituted one of the largest Sapa Building System projects in Southern Bohemia. The new wing features a glass curtain wall as well as windows and doors in manual and automatic form. Sapa Building System's products were instrumental in giving the hospital its contemporary look.

Systems provided:

Curtain walling
Casement windows
Doors

Project: Central Hospital in Vestfold, 6th stage
Architect: Arkitektfirmaet C. F. Møller
City: Tønsberg - Norway

Investor: Helseregion Sør
Fabricator/Installer: H-Glass AS

Central Hospital in Vestfold
Tønsberg, Norway

The construction and fitting out of the Central Hospital in Vestfold, Tønsberg, was conceived as a seven-stage process. Sapa Building System came into action in the last but one stage, during which some 23,000 square metres of hospital rooms, corridors, surgery and nursing wards had to be fitted up and equipped.

The open central space, which is located next to the central entrance, extends through all floors and plays a pivotal role in the building as it combines all the hospital's functions into one entity that is easy to comprehend and grasp. From here you can access the canteen, a café, the library, several meeting rooms, an auditorium and a shopping stall at the back.

The architecture of the central space epitomizes the spirit and dynamism of the hospital and the extensive use of Sapa Building System's aluminium profiles give it a modern and stylish appearance. Somehow, the bright open space acts as a bridge between the busy and noisy outside world and the inside of the hospital where the best care and treatment are offered by staff who are always friendly and focused.

Systems provided:

Curtain walling
Glass roofs
Sliding windows
Doors

Kliniek St.-Jozef
Pittem, Belgium

The Kliniek Sint-Jozef is a non-profit open and innovative psychiatric hospital, located on a 19th century castle estate. In the past decades the original buildings have been extended, renovated and converted into a modern psychiatric hospital.

Great pains were taken to preserve the original character of the castle and surrounding park. All windows were made using Sapa Building System's super-insulating, thermally broken two-chamber aluminium systems with a building depth of 50 cm.

Systems provided:

Casement windows

Project: Kliniek St.-Jozef
Architect: Architect's firm ir. Boeckx & Partners, Ostend
City: Pittem - Belgium

Project: Pasteur Confluent
City: Lyon - France

Fabricator/Installer: Dentand

Pasteur Confluent Research Centre
Lyon, France

This building houses the world headquarters of the Sanofi-Pasteur Group, which is a division of the Sanofi-Aventis Group. It is situated in the Lyon Biopole research centre which joins together the expertise of many world leading companies in the field of virology, immunology and diagnostic sciences.

For this project the architects chose an Elegance 52 VEP curtain wall. Sapa Building System also developed some specific products which lend the building its very clear and contemporary look, while fulfilling all acoustic, thermal, functional and safety requirements. The slenderness of the profiles used, together with the structure of the building, enhance the dynamic and contemporary character of the design.

Systems provided:

Curtain walling
Doors

Woon- en Zorgcentrum Ter Melle
Heule, Belgium

Woon- en Zorgcentrum Ter Melle is operated by the Public Welfare Centre of Kortrijk. It consists of three separate entities: the Ter Melle Home for the Elderly, the Elfenberg Service Flats and the Kolleblomme Day Care Centre. All windows were manufactured using Sapa Building System's three-chamber Excellence 65 system.

Systems provided:

Casement windows

Project: Woon- en Zorgcentrum Ter Melle
Architect: Jan Verschuere, Rumbeke - Roeselare
City: Heule - Belgium

Narborough Road Health Centre
Leicester, UK

The Local Improvement Finance Trust (LIFT) of the National Health Service (NHS) aims to develop a new market for investment in primary care and community based facilities and services. This new build PFI project, using Sapa Building System's Dualframe window and door suite, was completed by Sapa for Laing O'Rourke on their LIFT schemes. It demonstrated quality of products and service throughout the supply chain.

Fixing ribbon windows into the rotunda was a particularly challenging element of the project. To cope with the unique demands of this installation Sapa designed inward opening windows with automatic actuators and Pilkington's selfcleaning Activ glass to provide a low-maintenance installation with high level ventilation.

The slim sightlines of the aluminium frames made Dualframe an ideal solution, offering the benefit of different colours for the internal and external faces where required.

Systems provided:

Curtain walling
Casement windows
Doors

Project: Narborough Road, NHS LIFT
Architect: The Design Buro
City: Leicester - UK

Contractor: Laing O'Rourke
Fabricator/Installer: Bonam & Berry

Project: Nobles Hospital
Architect: DMB TAD
City: Isle of Man - UK

Fabricator/Installer: Regal Aluminium & Royal Extrusions

Nobles Hospital
Isle of Man, UK

The Isle of Man is in the middle of the Irish Sea and the hospital is located at one of the highest points of the island, hence, site location is very exposed to the elements.

Products used were curtain wall, vertical sliding, pivot and casement windows and heavy duty doors. All products had to have high weather ratings because of the exposed site, this included the sliding windows at 600Pa air and water and the doors having a weather rating despite a low threshold. Because of the size of the project and the high exposure, the products were independently tested for weather tightness.

Systems provided:

Curtain walling
Glass roofs
Sliding & pivot windows
Doors

Lifeline Hospital Building
Abu Dhabi, United Arab Emirates

The building was originally intended to be a commercial tower consisting of three floors of underground parking and 28 floors of high quality commercial office space. However, towards the end of construction the building took on a completely new intent when the Lifeline Group acquired the first three floors of the building.

The Lifeline Hospital was born out of a desire to provide world-class, specialized and superior health care complemented by a warm and personalized human touch to the growing population of the emirate of Abu Dhabi. True to its intent, it now offers quality and affordable medical care with the best and the most advanced facilities in treatment, equipment and diagnosis.

Etihad Airways, the National Airline of the U.A.E., around the same time took possession of the remainder of the building to accommodate its ever growing staff and as such what was meant to be a commercial office block constructed to high international standards was transformed into a hospital and apartment building of equal high quality.

Systems provided:

Curtain Walling
Doors

Project: Lifeline Hospital Building
City: Abu Dhabi - United Arab Emirates

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