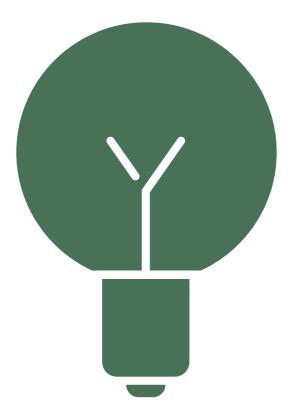


THE REFERENCE BOOK

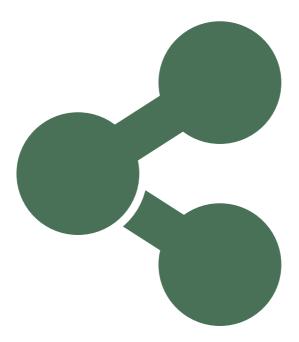
Inspiring creativity

The seven principles of outstanding partnerships



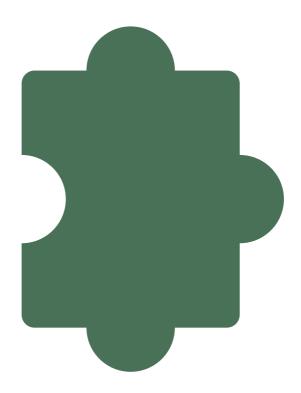
1. Involvement from the start

From the earliest design stages on we lead you to the most suitable aluminium facade and fenestration system, whether it be a standard or bespoke, custom built solution.



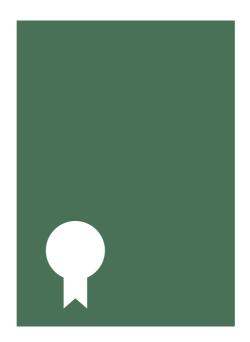
2. Sharing of expertise

We gather global insights and experiences by analysing successes and constraints. Also we constantly cross reference knowledge from all domains and segments we are active in.



3. Simplicity in design

We design our products with ease of use in mind. Simple, reliable, easy and intuitive to operate but also extremely straightforward to manufacture and install.



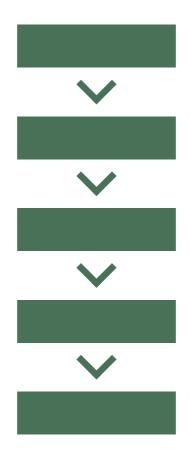
4. Making reliable products

Your peace of mind is paramount. Therefore we only release our building solutions following thorough development and testing procedures and after proper, comprehensive certification.



5. Teaming up with professionals worldwide

Our fabricator network in 24 countries takes on your project realisation. People in the network are continuously trained to reach consistent levels of performance.



6. Embodying vertical integration

We design and test but also extrude. We deliver surface finished aluminium profiles with thermal breaks. We support on site installation and provide post-sales assistance.



7. Engineering and software to support

SapaLogic is a user-friendly calculation program for fast, efficient and complete calculation of windows, doors, structures, curtain walls and conservatories.

SapaThermic is a detailed thermal simulation software for doors, windows, sliding systems and curtain walls.

Adding value and architectural excellence to every project has been Sapa Building System's mission from the beginning. That is why we provide market leading architectural aluminium solutions that are innovative, energy efficient and environmentally sustainable.

EUROPE

REST OF THE WORLD

// Angola // Australia

// China

// India

// Ivory Coast

// Mozambique

// United Arab Emirates

// Morocco

// Qatar // South Africa

// USA

- // Austria // Belgium // Czech Republic // Denmark // Finland // France // Germany // Italy // Lithuania // Luxemburg // Netherlands // Norway // Poland // Portugal // Slovakia // Spain // Sweden // Switzerland // Turkey // United Kingdom
 - lovakia pain weden witzerland urkey nited Kingdom

Working on the new Siemens headquarters



Siemens, the world's largest supplier of sustainable and environmental solutions, recently moved into impressive new headquarters in Munich. Exciting architecture, character, transparency, openness, sustainability, energy-efficiency... are but a few attributes to describe the futuristic project. In close collaboration with Strabag AG, Direction AO Metallica, the construction company, and Henning Larsen Architects, Sapa was entrusted with the complex, unitised curtain-walling, encompassing facades, windows and doors. The 45,000 m² building has been certified DGNB Platinum and LEED Platinum.

Part of the Munich community

The new complex not only serves Siemens' own employees, it also allows for interaction with the broader community through the open and publicly accessible ground floor counting several courtyards, cafés, restaurants, other public facilities and even a fountain. Pedestrians and cyclists alike can use the public space as a handy passage to other parts of the town. This was Siemens' way to give something back to the community of the city that had been hosting the company since the start.

Sapa fits the bill

Siemens and Henning Larsen Architects had set their goals and minds on sustainable, energy-efficient and creative solutions to shape the skyline and facades of the impressive building. Sapa's unitised curtainwalling solutions with distinct industrial look perfectly fitted the bill. Also the low-energy character of the Sapa solutions completely filled Siemens' needs. It was immediately clear that the trustworthiness, global experience and client-centered approach of Sapa would stand for an important added value in the designing and building process. Furthermore Sapa's important and flexible extrusion capacities added to the reliability of the Sapa offering.

Rounding edges without cutting corners

The building is composed of different volumes, held together by a vertical 'spine' and culminating in a central roofed courtyard. One of the most distinctive features of the building is the frequent use of rounded corners combining vertical and inclined facades. These demanded extraordinary efforts and ingenuity from Sapa and Strabag, since not only the profiles, but also the glass for the windows had to be well connected. Many edges have been rounded, but on the quality and technology side no corners have been cut!

Multiple challenges

Sapa engineers and specialists have been confronted with a series of challenges, making this one of the most complex but rewarding projects they have ever worked on. The industrial looking unitised curtainwall system with 64 mm side line had to be devised from scratch. Furthermore bent as well as distorted profiles and glass had to be fabricated. In fact, more than 70 different and newly designed profiles have been integrated in the building. Combining vertical and inclined facades also asked for ingenious out-of-the-box solutions. Siemens' clear commitment to Munich strengthens our city as a location for the future. The new Siemens corporate campus is a showpiece of sustainable and responsible urban development, enhancing the attractiveness of our city center and making Munich even greener.

Christian Ude, Former mayor of Munich

In our new corporate headquarters, we want to establish a symbol that stands for working together, for integration into society and for taking action towards more sustainability.

Joe Kaeser, President & CEO Siemens



Impressive numbers

Some facts and numbers attesting to the project's complexity: 2 types of glass thickness were used (54 and 68 mm), 1,200 Pa was required for the facades and 750 Pa for the windows, all unitised facades together totaled 15,000 m², 400 motorised inclined windows were used in a tilted application and 600 windows in a vertical application. The latter weighed in at 130 kg for the turn & tilt version and at 200 kg for the turn version for which special friction stays had to be developed. All 1,000 windows came from the Avantis 95 series, the 50 glazed doors were based on Avantis 75 but customised to Siemens' specific needs in a structural glazed design.

Stunning architecture

Henning Larsen Architects devised a contemporary reinterpretation of the original building's neoclassical style. With lots of glass and, of course, making ample use of Siemens' photovoltaic technology. The building consists of one volume where four rectangular, rounded courtyards are cut out. Due to the large glass surfaces, employees have visual contact with their colleagues across the courtyards. The old Siemens headquarters, the Ludwig Ferdinand Palace, have been restored by Henning Larsen Architects and seamlessly integrated with the new construction.

Highest sustainability standards

Coupling the Siemens and Sapa technologies has led to the highest standards for sustainability. The new building consumes 90% less electricity and uses 75% less water than its predecessor. The tilted inner facades increase the amount of penetrating natural light, thus reducing the need for artificial lighting. 30,000 data points are used to control heating, ventilation and air conditioning. Employees can adjust heating, ventilation and air conditioning in their areas as needed. Consequently the building has been certified DGNB Platinum and LEED Platinum.

From day one the Siemens building has become part of Munich and offers this historic city a new architectural experience. Architecture is fundamentally about staging human interaction - and in the new Siemens building architecture stages an open and inviting gesture to Munich and the surrounding world. This achievement makes me proud.

Prof. Louis Becker, Principal, Partner of Henning Larsen Architects

contents

28 Styria Media Center Graz - Austria Offices

32 Hotel Park Dedeman Levent Istanbul - Turkey Hotel

34 BB Delta Centrum Prague - Czech Republic Offices

36 Hoprom Kortrijk - Belgium Offices

40 Luanda Financial Center Luanda - Angola Offices

42 Siemans Headquarters Munich - Germany Offices

46 Villa Jaune Helsinki - Finland Housing 48 Centre de Thalasso Cabourg - France Hotel

50 General Electrics Belfort - France Offices

52 Villa Tuuli Turku - Finland Housing

56 Villa A Belfort - France Housing

58 Ny-Krohnborg Skole Bergen - Norway Education

60 Bournemouth University Bournemouth - United Kingdom Education

62 Sede EDP Lisbon - Portugal Offices 66 CNFPT Strasbourg - France Offices

70 Semcon Headquarters Gothenburg - Sweden Offices

72 Gärstadverken Linköping - Sweden Industry

74 Solheimsgata 21 Lillestrøm - Norway Offices

76 Sport and Rehabilitation Center of Medical University Warsaw - Poland Leisure

78 Birmingham Dental Hospital Birmingham - United Kingdom Hospital

80 IMA Meaux - France Offices

references

84 Hotel Intercontinental Estoril - Portugal Hotel

86 Private Housing Boortmeerbeek - Belgium Housing

88 Hubhult Meeting Centre Malmö - Sweden Offices

90 60 Commercial Road London - United Kingdom Education

92 Illovo Johannesburg - South Africa Offices

96 MAX IV Laboratory Lund - Sweden Offices

100 Gevaco Advocaten Beringen - Belgium Offices 102 Spinnhuset Norrköping - Sweden Hotel

104 Grand Central Birmingham - United Kingdom Transport

108 World Maritime University Malmö - Sweden Education

112 Ashrafieh Towers Beirut - Lebanon Offices

114 Selby Leisure Center Selby - United Kingdom Leisure

116 Mermerler Plaza Istanbul - Turkey Offices

120 The View Newcastle - United Kingdom Education **122 Vistrap** Oostende - Belgium Retail

124 Castings House Huddersfield - United Kingdom Education

126 Order of Engineers and Architects Tripoli - Lebanon Offices

130 The Verde Newcastle upon Tyne United Kingdom Education

134 Apartments Hasselt - Belgium Housing

136 Office Building Battice - Belgium Offices

OFFICE

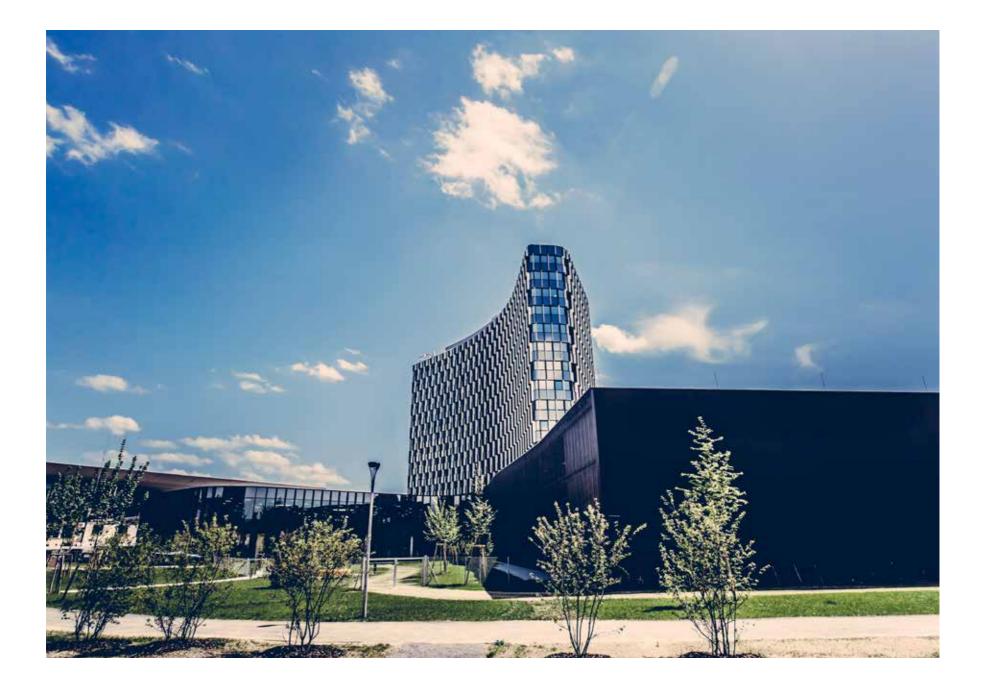
Styria Media Center Graz - Austria

Graz - Austria Styria, which was founded in 1869, is one of the leading media groups in Austria, Croatia and Slovenia. With 3,084 employees, Styria Media Group generated a market revenue of 427 million euros in 2015.

Architect: ArchitekturConsult - DI Herfried Peyker Fabricator: Alu Sommer Contractor: Porr Bau GmbH. Hochbau



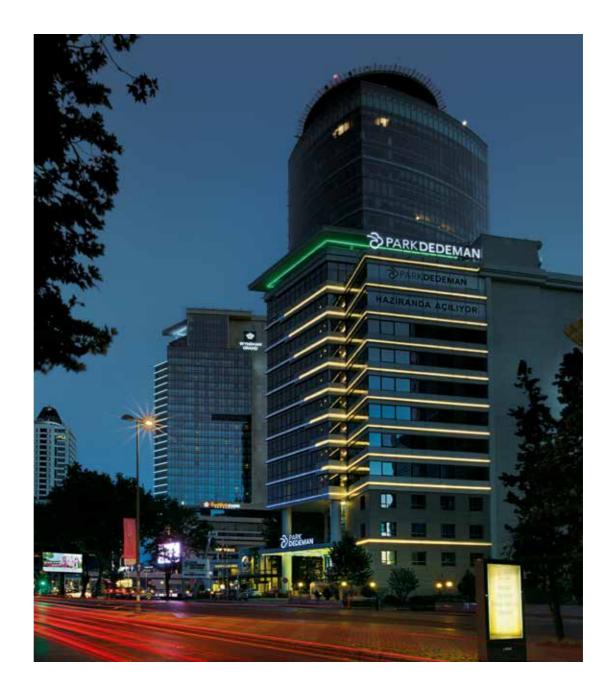




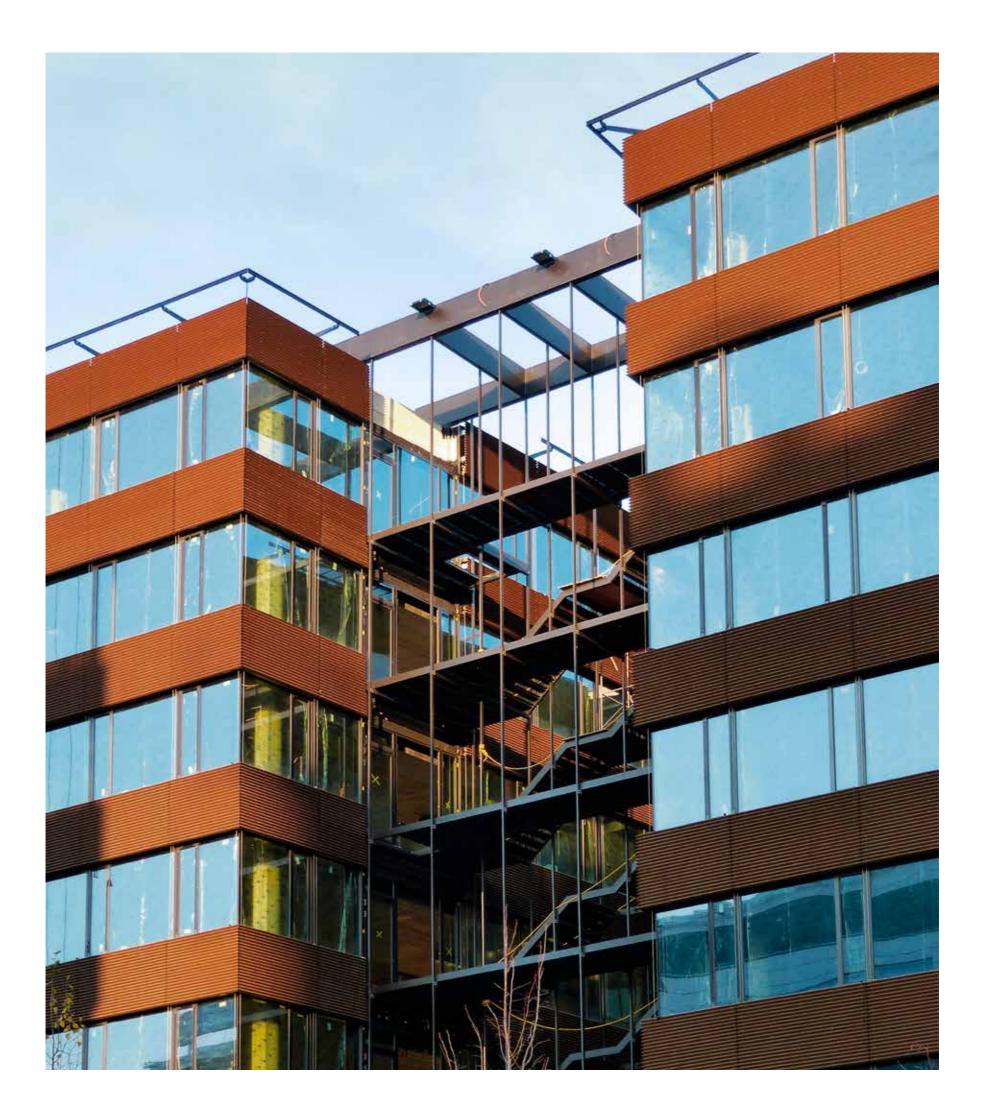
HOTEL

Hotel Park Dedeman Levent Istanbul - Turkey One of the city's leading buildings with its LEED Gold certified environmentally friendly construction and contemporary architecture.

Architect: Akan Mimarlık Contractor: Halk GYO





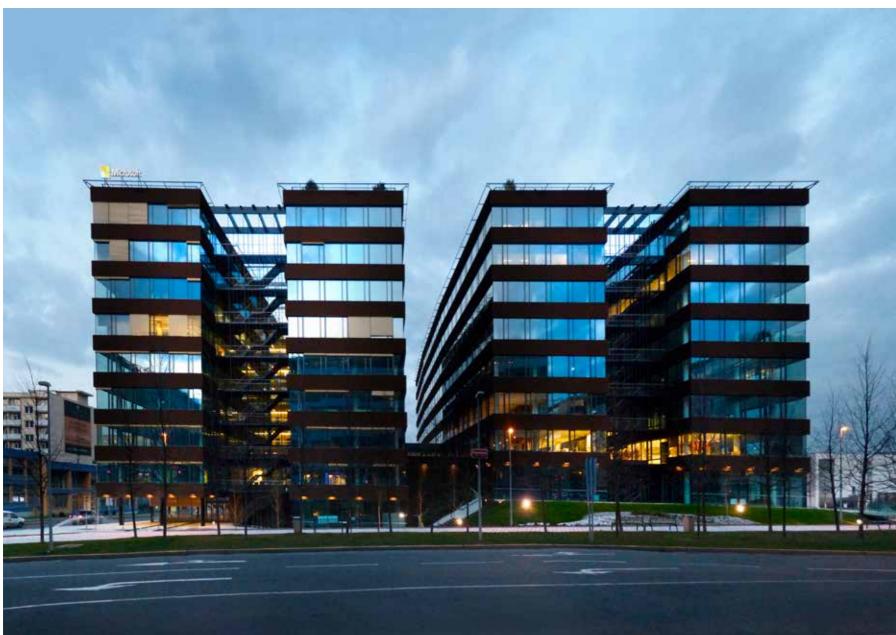




OFFICE

BB Delta Centrum Prague - Czech Republic A perfect example of a building with curtain walling. The building contains in total more than 22,000 m² of facades.

Architect: Aulík & Fišer architekti Fabricator: OK mont S.T.M., Brno-Czech Republic



OFFICE

Hoprom Kortrijk - Belgium

For this office-building a design-look needed to be created with attention to the environment where it stands.

Alter The Carl Star

Architect: De Volder Architecten Fabricator: Alu Verschueren



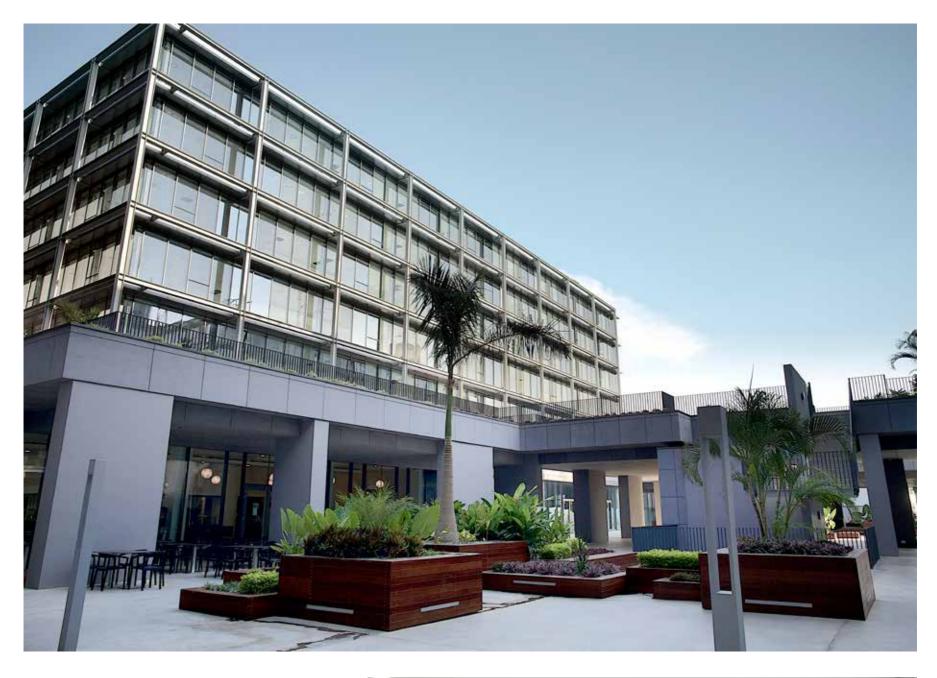








Eyecatcher here is the minimalistic window Artline which is used almost throughout the whole building, allowing natural light to illuminate the offices inside.



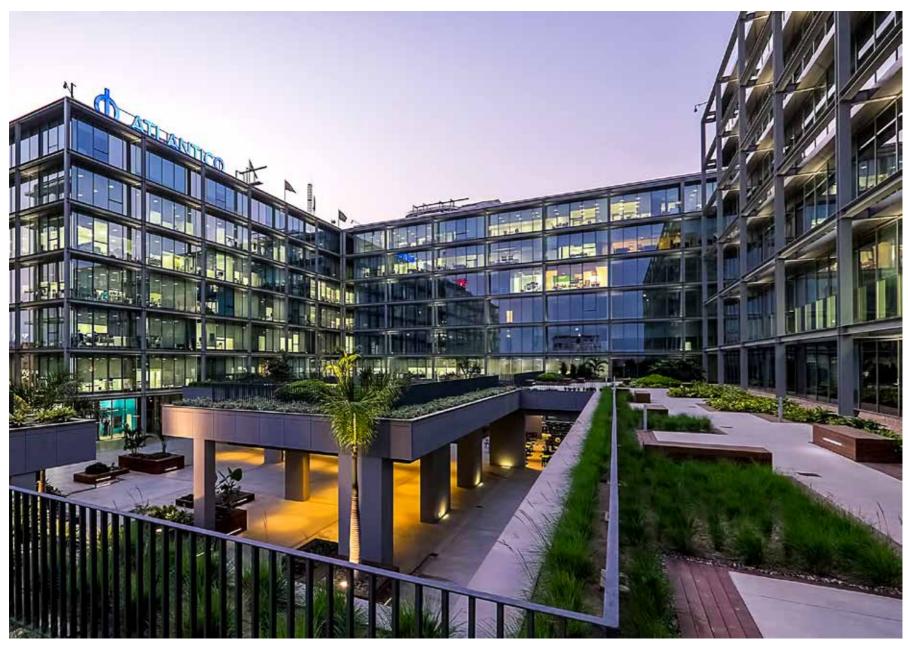




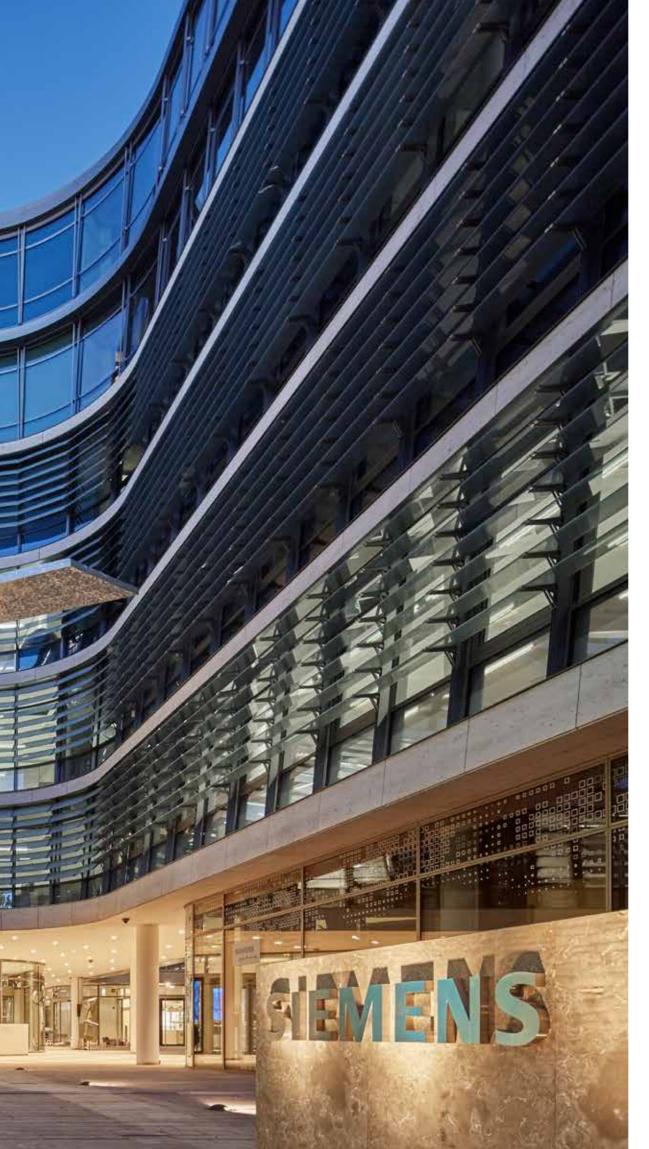
Luanda Financial Center Luanda - Angola

Luanda - Angola Cidade Financeira is an administrative complex, located in Talatona, in the south zone of Luanda, and consists of a total of six buildings, destined to services and offices.

Architect: Costa Lopes Fabricator: Cociga Angola



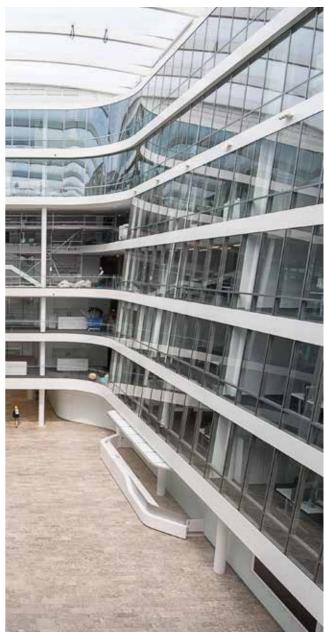




Siemens Headquarters Munich - Germany

Sapa was entrusted with the complex, unitised curtain-walling, encompassing facades, windows and doors. The 45,000 m² building has been certified DGNB Platinum an LEED Platinum.

Architect: Henning Larsen Architects Fabricator: Strabag AG, Direction AO Metallica



One of the most distinctive features of the building is the frequent use of rounded corners combining vertical and inclined facades.





HOUSING

Villa Jaune Helsinki - Finland

Helsinki - Finland The villa's glazed walls add lightness to the sides of the building. For the glazed facade, minimalistic glass holders of only 32 mm were used in order to maximise the impression of lightness.

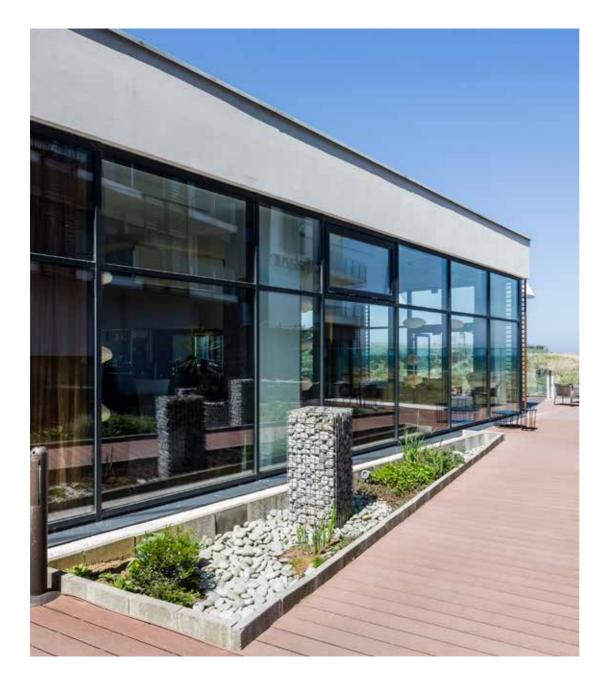
Architect: Professor Jyrki Tasa, Arkkitehdit NRT Oy Fabricator: Imera Oy The glazed walls create the illusion of defying gravity.











HOTEL

Centre de Thalasso Cabourg - France

The beautifully crafted windows bathe the interior with natural light and enable guests to benefit fully from the sea views.

Architect: ROBINSON Architectes Associés Fabricator: STAB



General Electrics Belfort - France

The General Electric building in Belfort, one of GE's earliest locations around the world, has just been refurbished and now boasts a very fine architectural flourish.

Architect: Architectes Atelier CEVIRGEN Fabricator: France Fermetures

The more than three hundred high performance energy saving windows bear the Sapa name.







HOUSING

Villa Tuuli Turku - Finland

This modern minimalistic villa incorporates three Artline sliding doors: two perpendicular in the ground floor courtyard with a floating corner, and a further one in the master bedroom leading onto the roof terrace.

Architect: SIGGE architects Oy, Pekka Mäki Fabricator: Alavus Alufront Oy

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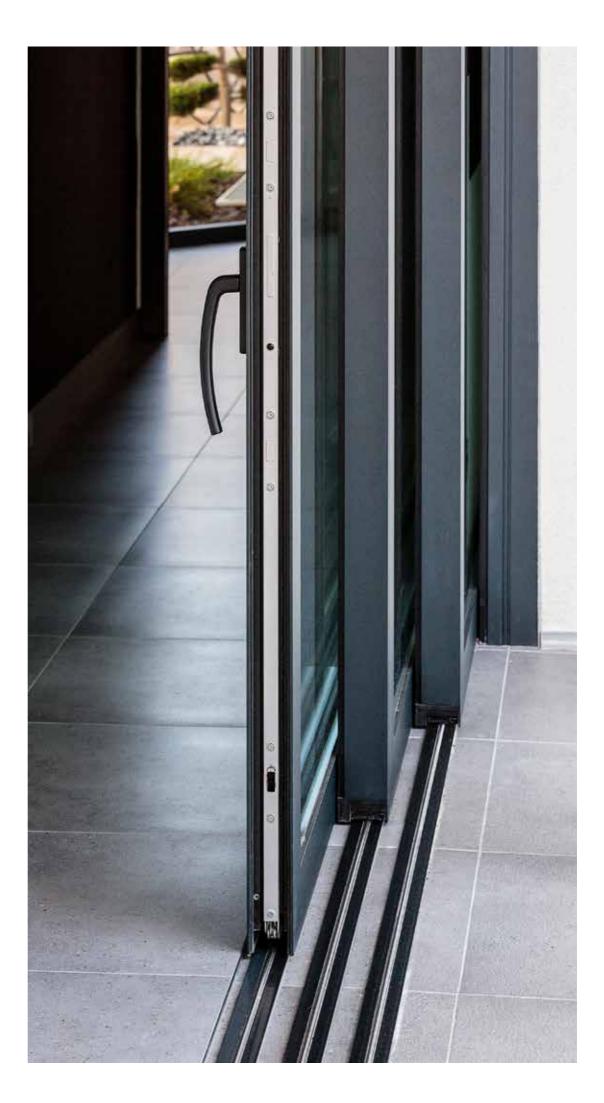
The house's style is minimalist modernism, with large opening glazed areas offering magnificent panoramic view over the sea and landscape all around.

HOUSING

Villa A

Belfort - France Architecturally designed villa with a Sapa triple track sliding door system that incorporates a "galendage" frame.

Architect: Atelier d'Architecture Robert Gomez Fabricator: France Fermetures





This built in design enables each of the door leafs to be fully retracted and concealed within the walls of the surrounding structure, creating an impressive 9 m wide opening in the building.



EDUCATION

Ny-Krohnborg Skole Bergen - Norway

The shape and materials all reflect the red colour of the brick in the original building in a new multicoloured glass facade.

Architect: Arkitektgruppen Cubus AS in partnership with Rambøll Norge AS (ARK) Fabricator: Bue Aluminium AS









EDUCATION

Bournemouth University Bournemouth - United Kingdom The facility provides over 2,900 m² of academic space for Bournemouth University, along with 392 student bedrooms and further communal areas.

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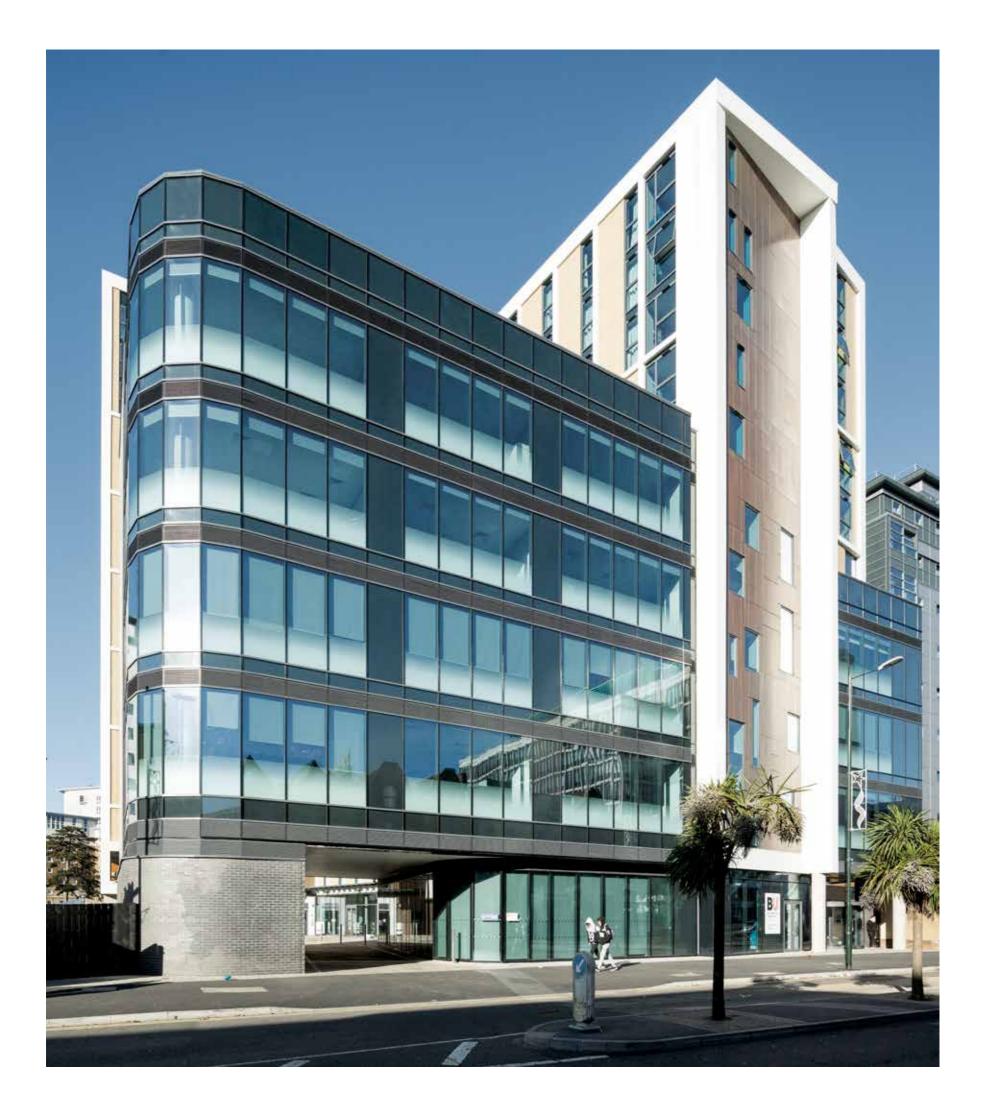
Architect: Manson Architects Fabricator: North Cheshire Windows Contractor: Watkin Jones Construction

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www.sapabuildingsystem.com

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Sede EDP

Lisboa - Portugal With its pure, imposing and unique shapes, EDP's new headquarters, is the new architectural landmark of Lisbon city.

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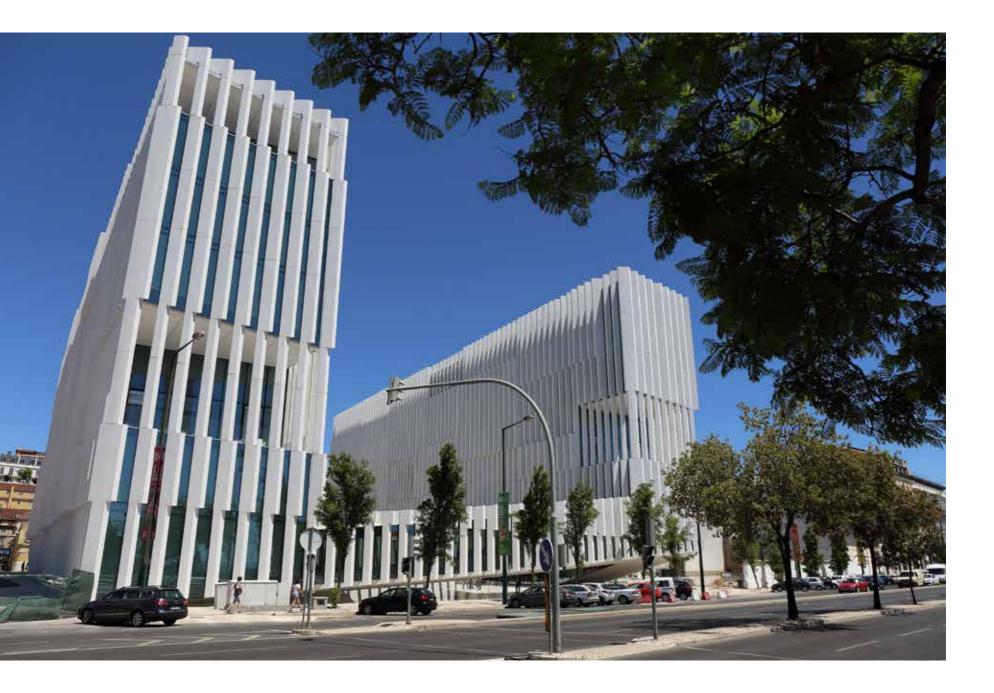
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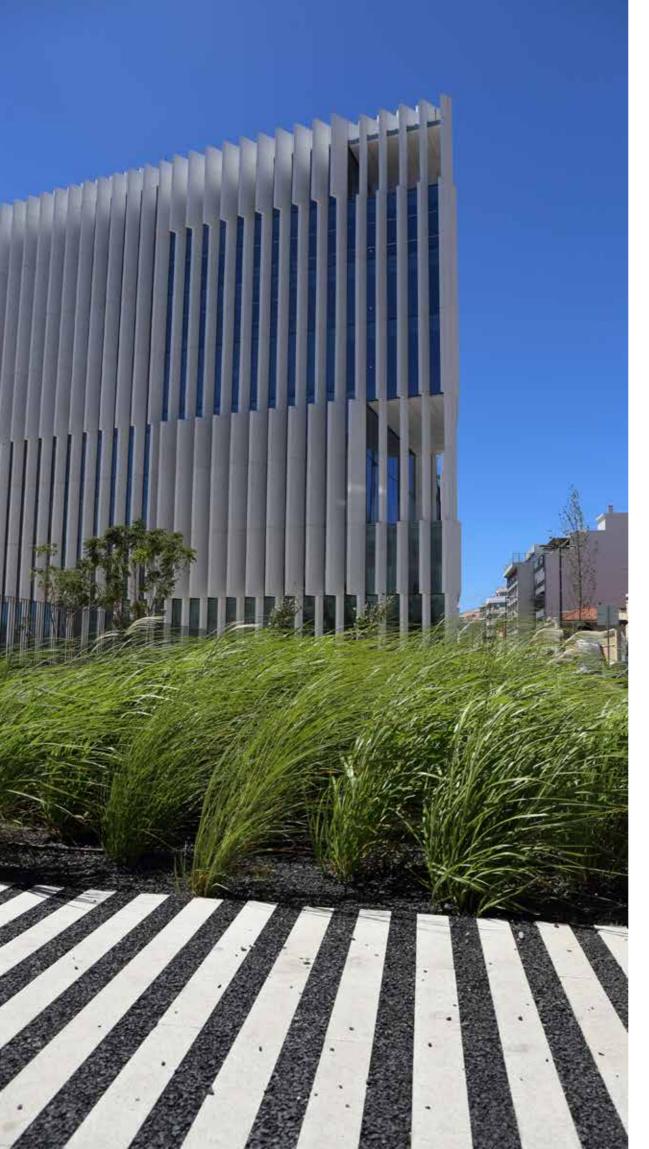
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Architect: Aires Mateus Fabricator: Martifer







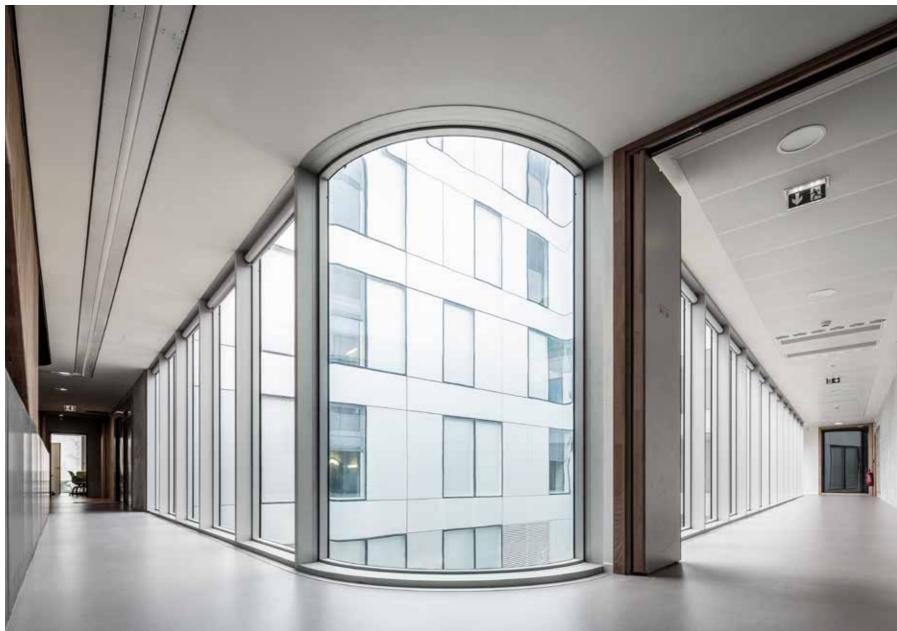
The building is a new landmark in Lisbon city designed by Aires Mateus.





CNFPT Strasbourg - France Original creation developed in France. Double skin facade with curved elements and fire access openings.

Architect: Zundel, Paris Fabricator: Spitz, Colmar / BE facade Interface 88 Contractor: Garrigue







As a non-standard solution, the facade was rigorously tested for air-water-wind at Sapa's technical centre in Puget before construction began on site.





Semcon Headquarters Gothenburg - Sweden

The new headquarters is an open building with a double-skinned glass facade which makes it possible to use large areas of high-transparency glass.

Architect: Semrén & Månsson Arkitektkontor AB Fabricator: Göteborgs Glasmästeri AB Contractor: Semcon







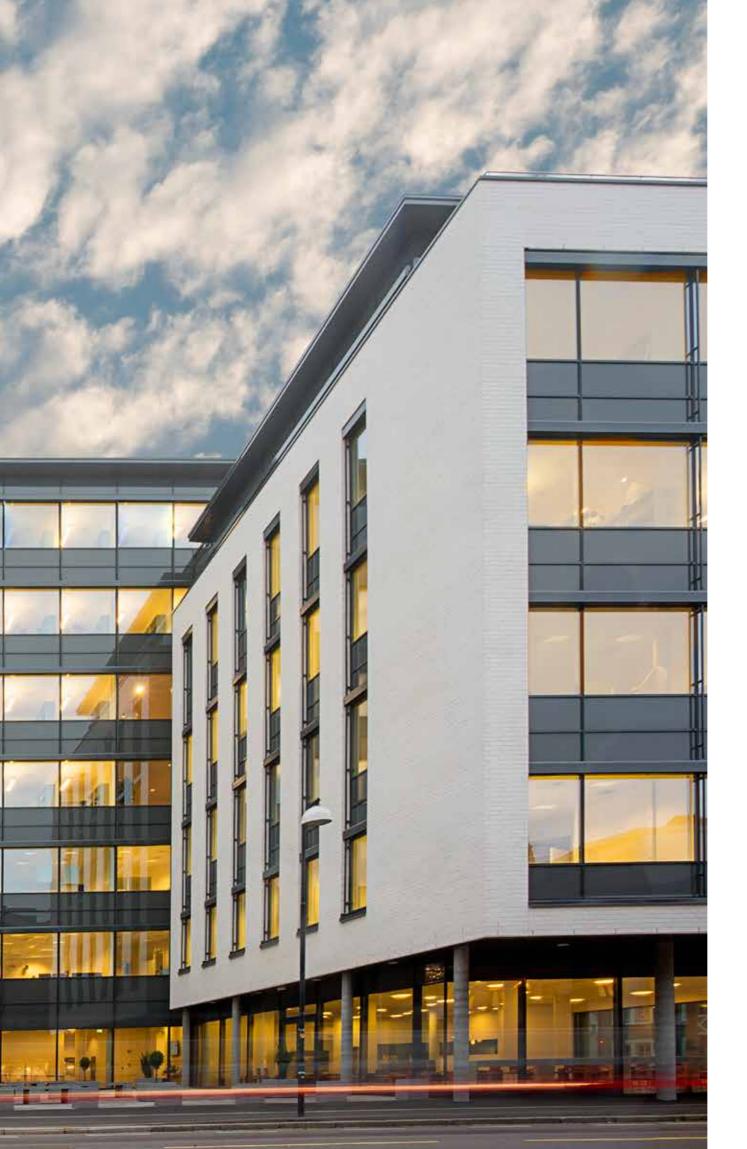
INDUSTRY

Gärstadverken Linköping - Sweden

Linkoping - Sweden The new waste heat boiler in Gärstad (the one to the right) has a chequered structure which is replicated in the large glazed facade, providing onlookers with a view into the workings of the building.

Architect: Winell & Jern arkitekter AB Fabricator: Alab Aluminiumsystem AB Contractor: Tekniska Verken i Linköping AB





Solheimsgata 21

Lillestrøm - Norway The buildings facade utilises grey painted aluminium profiles with a combination of transparent and coloured glass for a hi-gloss polished appearance.

Architect: Arkitektene Fosse og Aasen AS Fabricator: Nordmarkens Fasader AB Contractor: Plantax AS

LEISURE

Sport and Rehabilitation Center of Medical University Warsaw - Poland

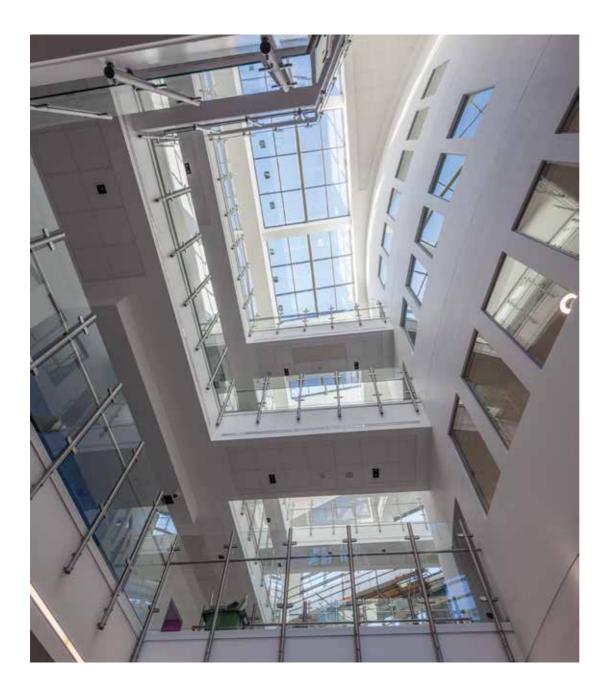
BIPV installation with more than 1,500 m² of photovoltaic cells incorporated into the sports hall facade (photo) and adjacent swimming pool.

Architect: Kontrapunkt V-projekt, Aleksander Mirek Fabricator: AL.-ITAL Paweł Rogowski









HOSPITAL

Birmingham Dental Hospital Birmingham - United Kingdom The Dental Hospital and School of Dentistry, as part of Birmingham Community Healthcare NHS Foundation Trust, provides a unique range of dental services for the people of West Midlands and further afield.

Architect: One Creative environments Ltd Fabricator: Trent valley Window & Door Company Ltd Contractor: Galliford Try Construction



IMA

Meaux - France

This training and research centre accommodates 2,000 apprentices and 1,500 auditors. It was designed based on an innovative, modular architectural approach using Sapa High-Performance solutions.

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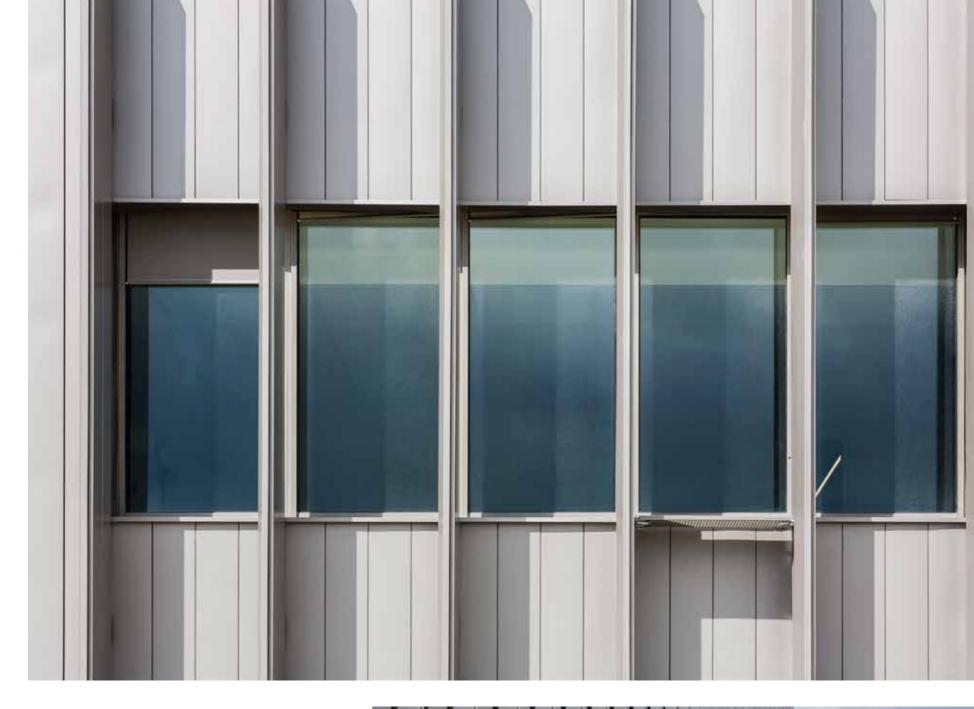
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Architect: Emmanuelle COLBOC Fabricator: STAB

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HOTEI

Hotel Intercontinental Estoril - Portugal

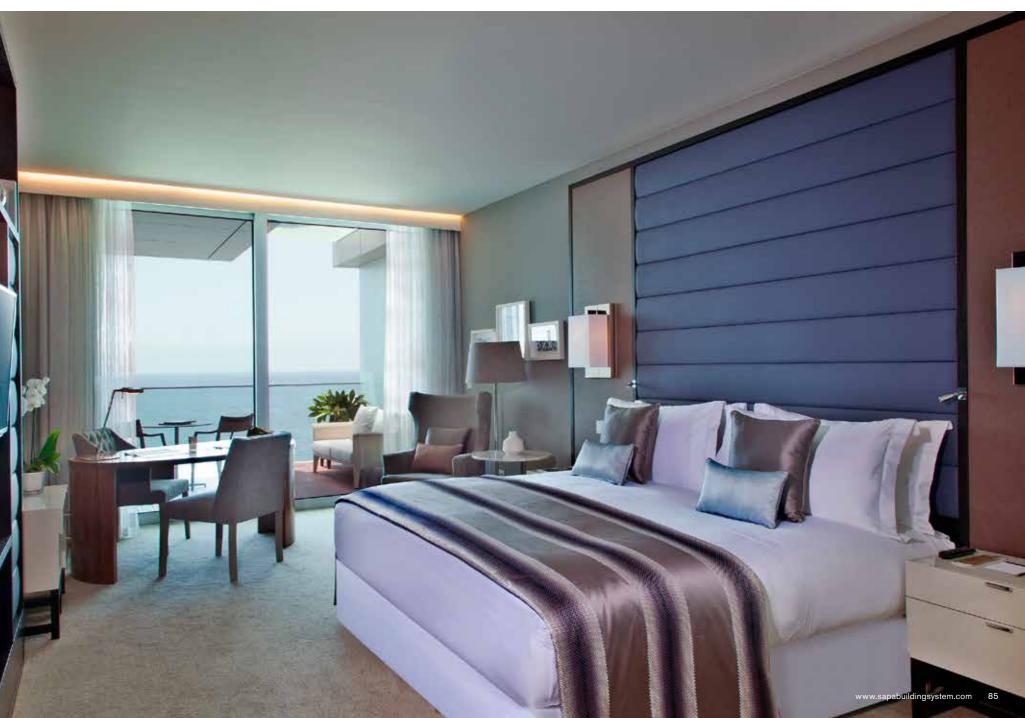
A luxury hotel in Cascais bay using Sapa Building System solutions. It is one of very few buildings in Portugal to receive certification from the National Laboratory of Civil Engineering (LNEC)

Architect: João Paciência Fabricator: Martifer







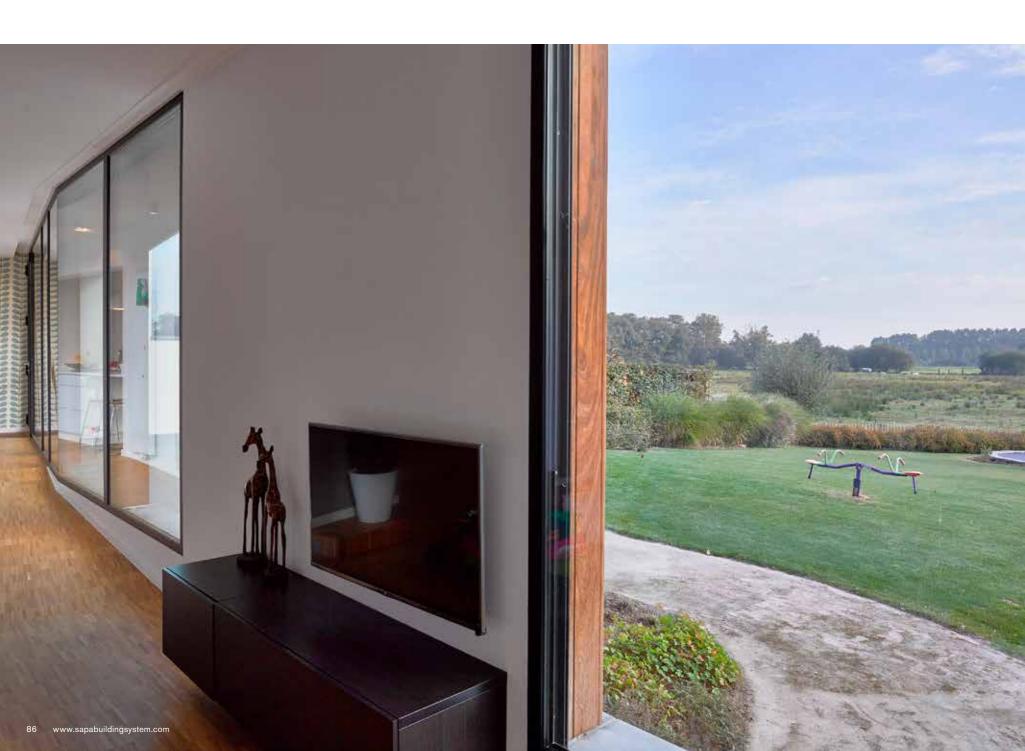


HOUSING

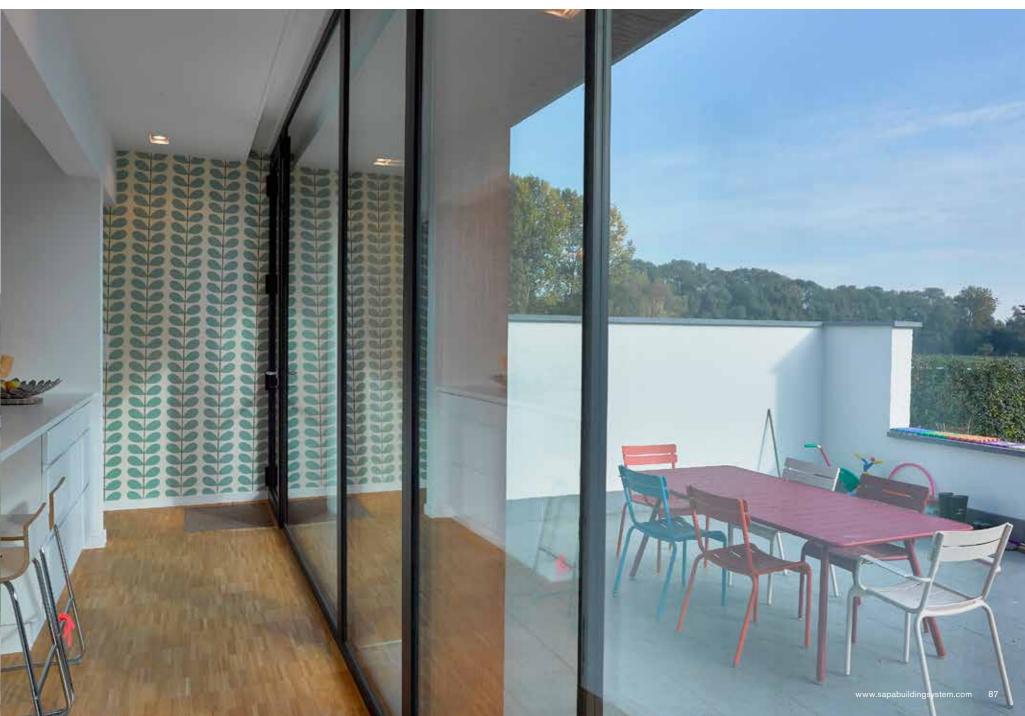
Private Home Boortmeerbeek - Belgium

Boortmeerbeek - Belgium Large window allowing light to flood in. In this specific case the aluminium profiles were combined with other materials in order to be in line with the style of the house.

Architect: Berckmans.Niewold architecten Fabricator: Baeten - Van Es







This is currently Scandinavia's most environmentally friendly office building, certified with BREEAM - Outstanding.



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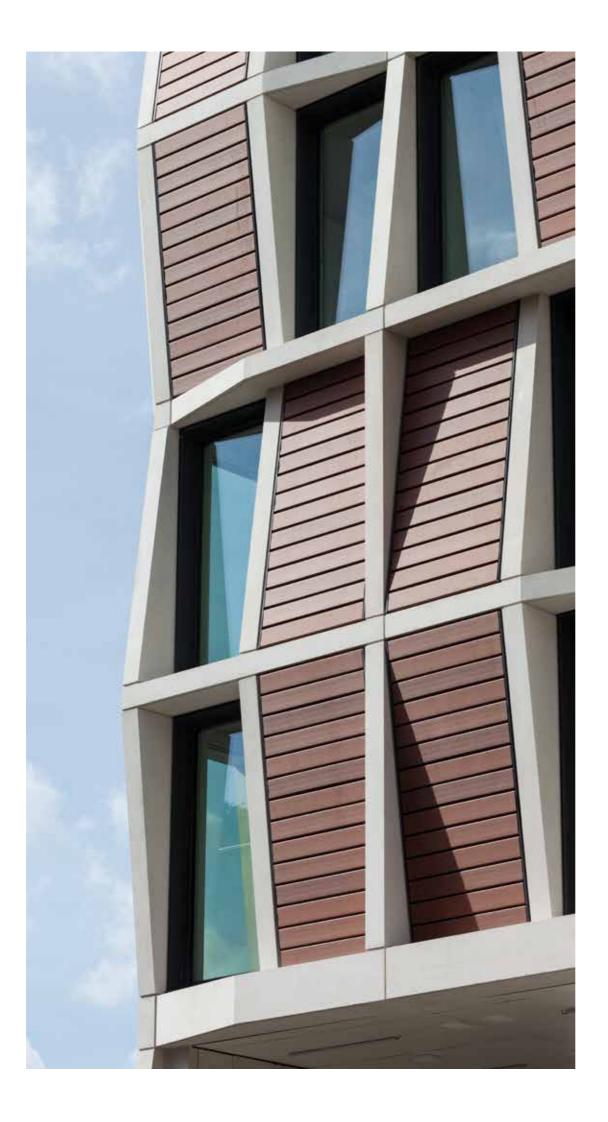
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Hubhult Global Meeting Centre Malmö - Sweden

From the overall geometry to the technical detail, the task was to create optimum energy efficient and sustainable solutions. One of the volumes is covered with solar panels on the facade.

Architect: Dorte Mandrup Arkitekter Fabricator: Preconal





60 Commerial Road London - United Kingdom

A new-build 19 storey student accommodation tower with a distinctive facade. Incorporating 417 student room units, communal spaces, sky lounge and 18th floor terrace.

Architect: Buckley Grey Yeoman Fabricator: North Cheshire Windows Ltd Contractor: Wates Construction

Illovo

Johannesburg - South Africa Illovo Edge Precinct is a modern business complex located in Johannesburg, South Africa - whose design is based on sustainability principles.

Architect: Hyperlink Fabricator: Seveme

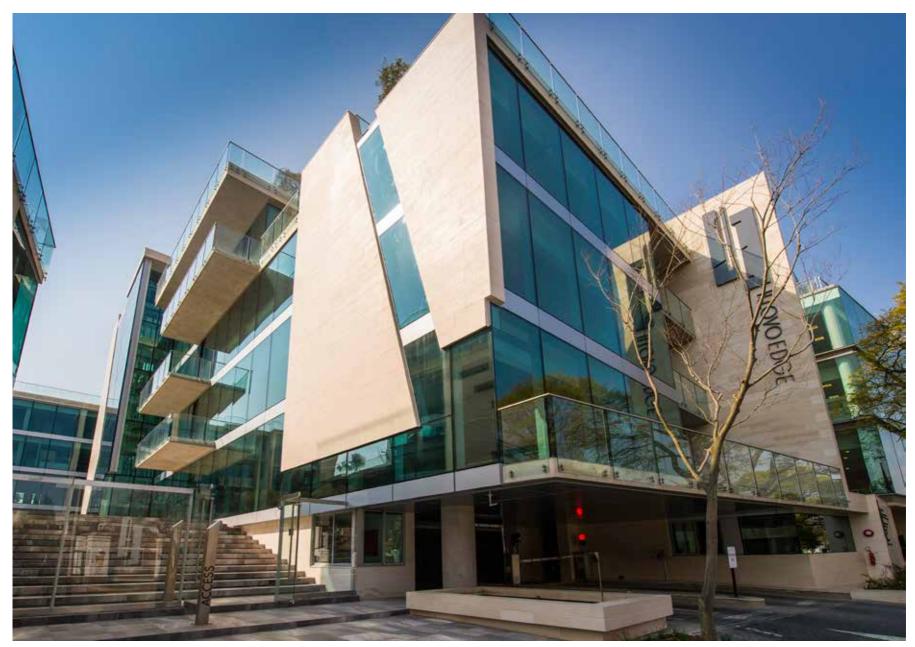


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Support and guidance from Sapa ensured the correct energy efficient products were used on the project, and with the addition of solar panels the building is not only sustainable but also a fantastic place to work.



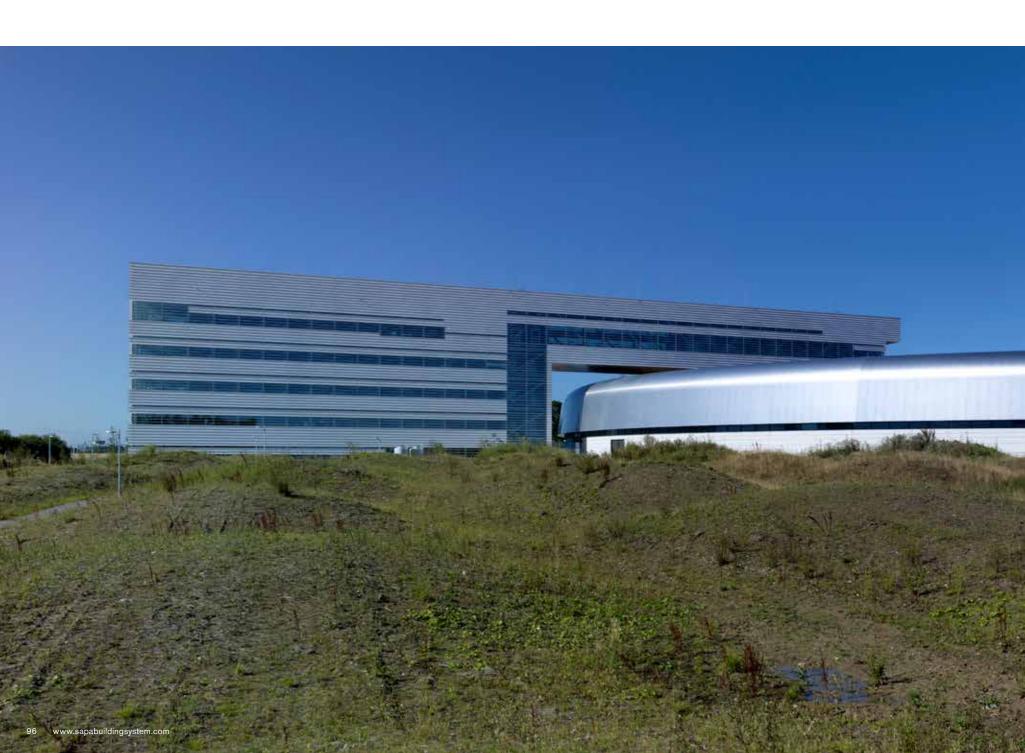
Photography: Brice Robert



MAX IV Laboratory Lund - Sweden

The office building has a steel frame with an exterior of white, horizontal aluminium panels, with two strips of windows on each floor. Each strip of windows has external horizontal solar shades in aluminium, painted white.

Architect: FOJAB arkitekter Fabricator: Alab Aluminiumsystem AB Developer: PEAB Sverige AB MAX IV is the next-generation synchrotron radiation facility in Lund, Sweden. It is the strongest of its kind in the world.









The entire facility has been given Green Building approval and a gold rating by the Sweden Green Building Council.



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Gevaco Advocaten Beringen - Belgium

Beringen - Belgium Large glazed surfaces were used to encourage the work environment. It is ideal to let the office be flooded with natural light and give the building a modern and architectural look.

Architect: D&D Architecten Fabricator: Van Hout - Alu Construct nv







HOTE

Spinnhuset Norrköping - Sweden

It's Norrköping's most modern hotel and certified according to the BREEAM environmental management system with the rating "very good".

Architect: Diabas Arkitekter Fabricator: Alab Aluminiumsystem AB





TRANSPORT

Grand Central

Birmingham - United Kingdom The renovated Grand Central train station in Birmingham features Sapa blast resistant curtain wall and door systems, providing the robustness needed for everyday use with added safety and security.

Architect: Atkins Fabricator: Martifer

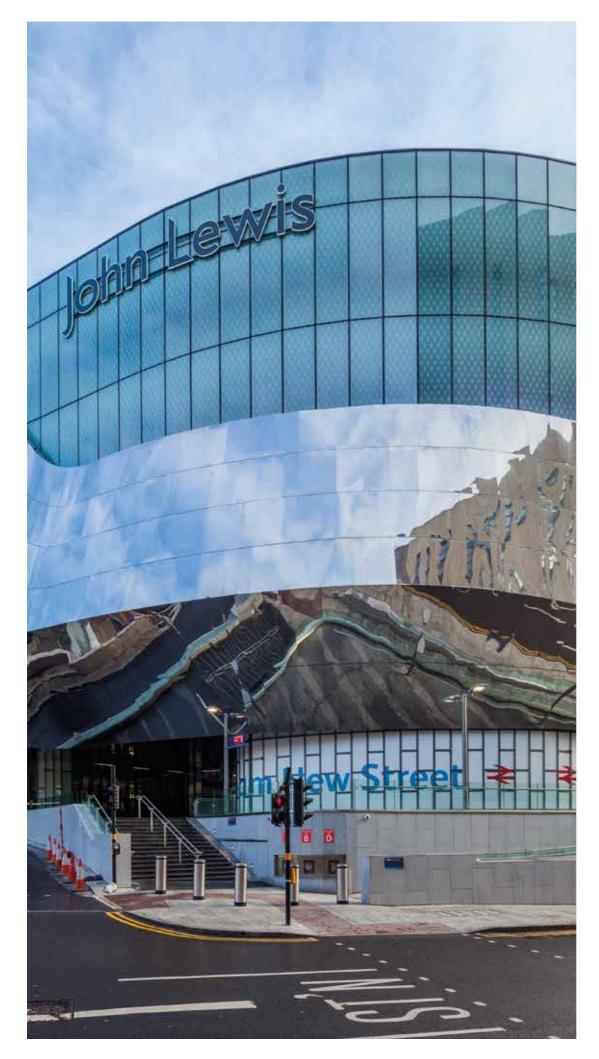
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EDUCATION

World Maritime University Malmö - Sweden

The project consists of a 3,000 m² extension to the existing port office. The old and new building are linked by a glass-covered atrium.

Architect: Terroir & Kim Utzon Arkitekter A/S Fabricator: Preconal Fasad AB

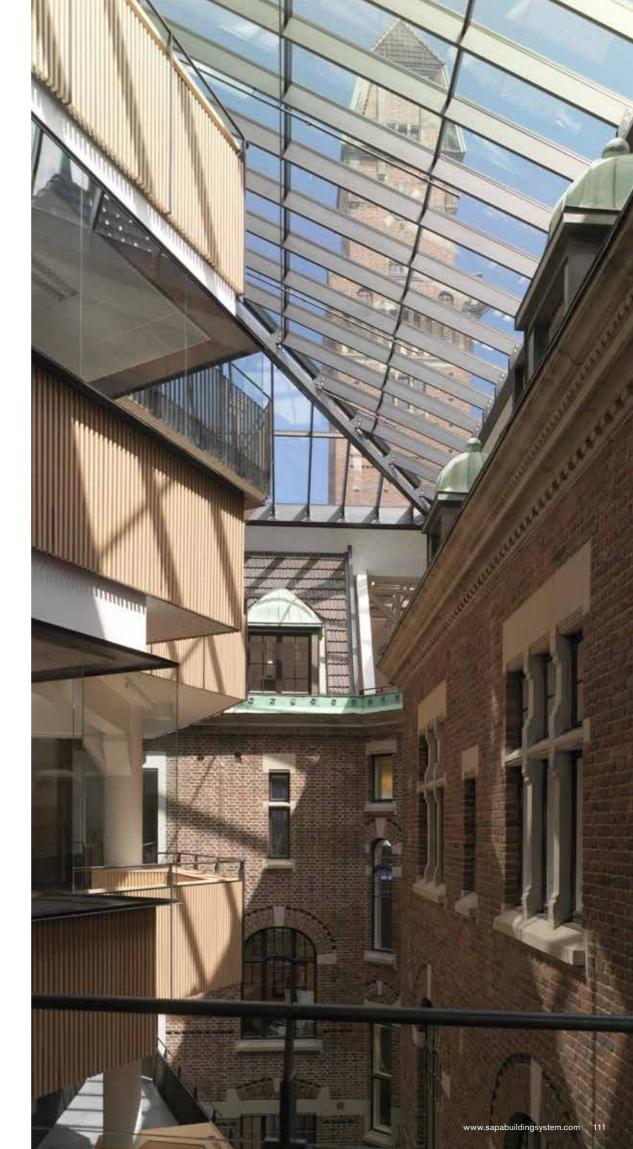
The extension consists in a building that stands as a separate entity, slightly rotated in relation to the existing building and with its own distinct sculptural language.





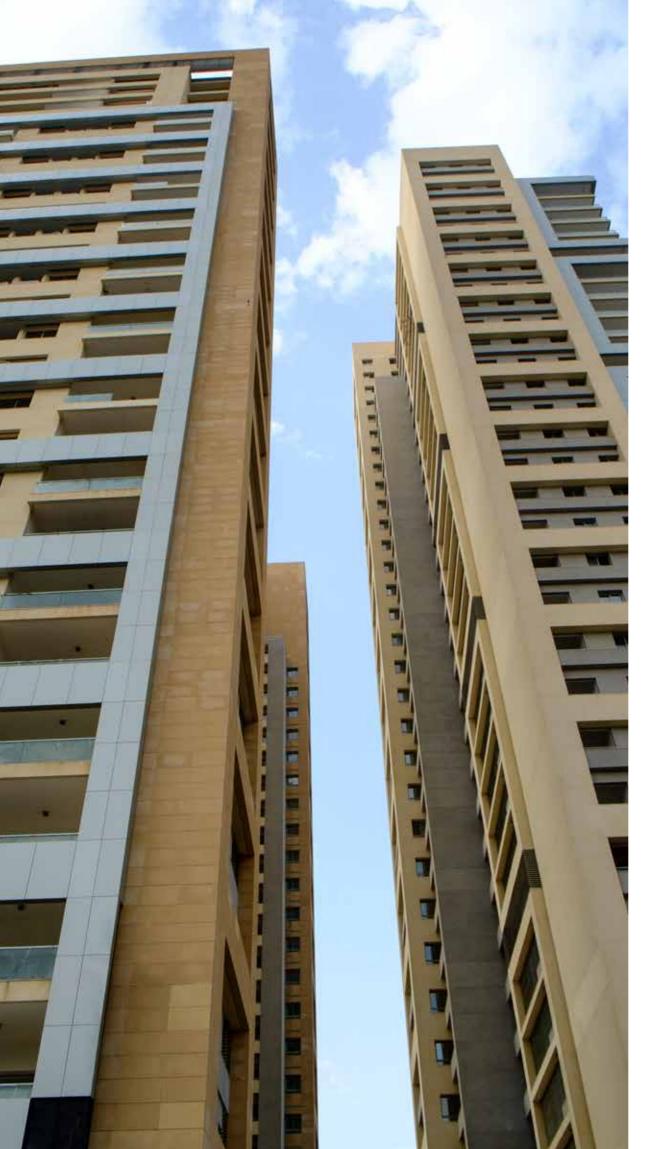
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The new building is entirely made up of unbroken triangular wall surfaces. Natural light floods into the new building through the large shards that separate the solid facets.









Ashrafieh Towers Beirut - Lebanon

Beirut - Lebanon Located in the oldest and most charming part of Ashrafieh, Beirut. While taking advantage of the quietness of a pure residential area, the 25-storey skyscraper is surrounded by prestigious restaurants, hotels and shops.

Architect: Bureau Ghalayini Fabricator: Tabet Enterprises Contractor: Alusteel

Selby Leisure Center Selby - United Kingdom

Selby - United Kingdom Built at a cost of £6,5 million, it includes two swimming pools, a sauna, a health and fitness centre, a class and exercise studio, activities and sports such as judo, dance sessions and children's activities.

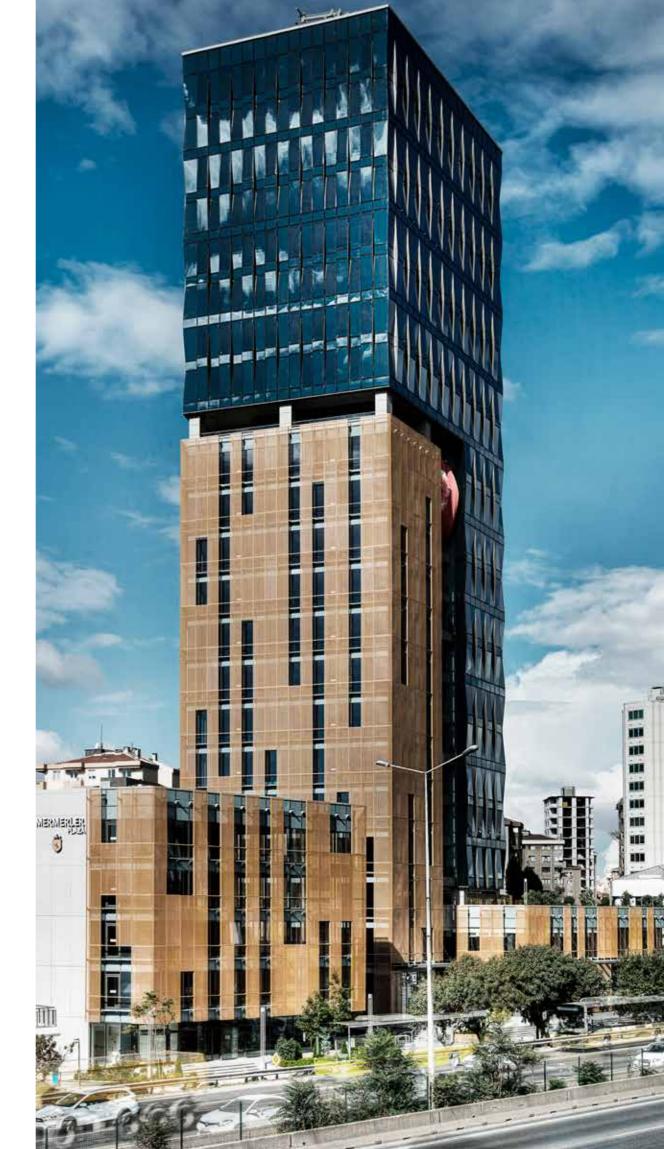
Architect: Bradshaw Gass & Hope Fabricator: NG Developments Contractor: ESH Group



Mermerler Plaza Istanbul - Turkey

Mermerler Plaza has tall wavy glass walls that provide a playful contrast to its shorter aluminium enveloped counterpart.

Architect: Ergün Mimarlık Contractor: Mermerler Group







The design incorporates randomised tan coloured sunscreens made from perforated aluminium sheets.



The View

Newcastle - United Kingdom

The View offers a new concept in Newcastle student accommodation for the city's students. It features a mix of contemporary studio apartments and shared flats as well as a range of communal spaces.

Architect: Simpsonhaugh & Partners Fabricator: Dane Architectural Systems Ltd Contractor: George Downing Construction Ltd





Vistrap

Oostende - Belgium

For this project a curtain wall system was used as it was the perfect solution to maintain the obstinate soul of the building. The colors of the building relate to its environment, as it is located at the Belgian coast.

Architect: Lobelle Studiebureau bvba Fabricator: Eric Verstraete nv Contractor: Van Huele Gebroeders NV







EDUCATION

Castings House Huddersfield - United Kingdom Castings House is a modern and well-equipped purpose built student accommodation.

Architect: O'Connell East Fabricator: North Cheshire Windows Ltd Contractor: Watkin Jones Construction

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Order of Engineers and Architects Tripoli - Lebanon

Tripoli - Lebanon The structurally glazed aluminium curtain wall from Sapa features outward opening Italian style windows and bespoke 450 mm solar shading blades suspended from projecting floor slabs.

Architect: Bureau Ghalayini Fabricator: Tabet Enterprises Contractor: Alusteel





This building in the north of Lebanon is an office building, hosting the headquarters of the Engineers and Architect Community.









EDUCATION

The Verde

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Newcastle upon Tyne - United Kingdom The Verde is a landmark student accommodation development, noticeable by its the striking Lamborghini green colour.

Architect: Simpsonhaugh & Partners Fabricator: Dane Architectural Systems Ltd Contractor: Downing Property Services Ltd

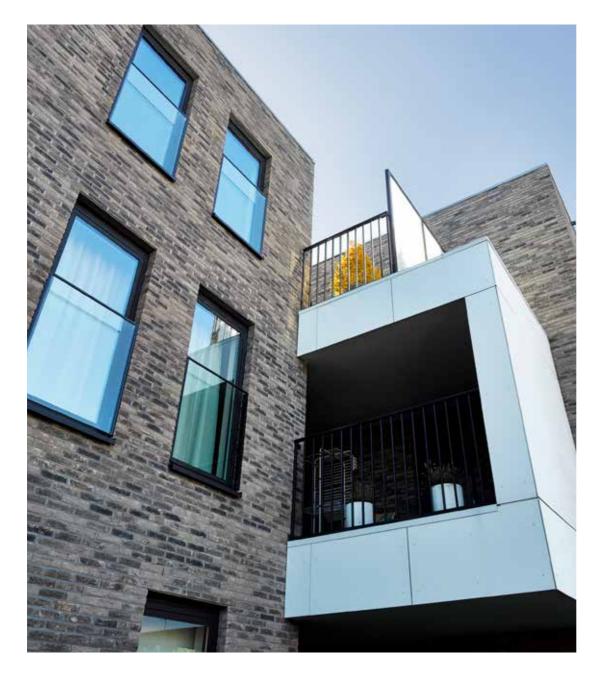
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www.sapabuildingsystem.com 131











HOUSING

Apartments Acaciapark Hasselt - Belgium

This project consists of 22 luxurious apartments, with the aim to rejuvenate the local area and bring a new lease of life to the neighbourhood.

Architect: DBV Architecten Fabricator: Van Hout Alu Construct nv Contractor: Kumpen NV

Office Building Battice - Belgium

For this project the windows were a crucial part in the architecture. Not only do they support the design of the building, they also are design in a functional way, maximising the view from the office to the outside.

Architect: Atelier Concept sc Fabricator: L. Lousberg SA









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Sapa Building Systems GmbH

Niederlassung / Sales Office Gleisdorf Pirching 90, A-8200 Gleisdorf // Österreich T +43 3112 73 66 - 0 www.sapabuildingsystem.com/at

Sapa Building Systems NV

Industrielaan 17, 8810 Lichtervelde // Belgium T +32 51 72 96 66 F +32 51 72 96 89

Sapa Building Systems (Beijing) Co., Ltd

1208, China Resources Building, No.8 Jianguomenbei Avenue, DongCheng District, Beijing 100005 // P.R.C T +86 10 6059 5686 F +86 10 6059 5622

Sapa Building Systems

Julsøvej 1, 8240 Risskov // Denmark T +45 86 16 00 19

Sapa Building Systems

Sinikalliontie 18 A, 02630 Espoo // Finland T +358 9 8678 280 F +358 9 8678 2820

Sapa Building System SAS

Espace Vernède 4-5, Route des Vernèdes, 83488 Puget-sur-Argens Cedex // France T +33 4 98 12 59 00 F +33 4 98 11 21 82

Sapa Building Systems GmbH

Einsteinstrasse 61, D-89077 Ulm // Deutschland T +49 731 3984 - 0 www.sapabuildingsystem.de

UAB Sapa Building Systems

Kirtimu g. 47, LT-02244 Vilnius // Lithuania T +370 5 210 2587 F +370 55 210 2589

Sapa Building System Mozambique

Parque do Língamo, Armazém Bloco 1 Nave C3 Estrada Velha da Matola – Língamo // Matola – Mozambique T +258 823 274 340 F +258 21 720 626

Sapa Building System bv

Alcoalaan 1, 5151 RW Drunen Postbus 75, 5150 AB Drunen // Netherlands T +31 416 38 6480 F +31 416 38 6489

Sapa Building System

Kjeller Vest 6 Postboks 34 - 2027 Kjeller // Norway T +47 63 89 21 00 F +47 63 89 21 20

Sapa Building System Poland Sp. z o.o.

ul. Graniczna 60 - 93-428 Łod // Poland T +48 42 683 63 73 F +48 42 640 04 26

Sapa North American Headquarters

6250 N. River Road Ste. 5000 Rosemont, IL 60018 // USA T 877-710-Sapa (877-710-7272

Sapa Building System Portugal

Rua Eng. Vasco Lima Villas 24, 2689-513 Prior Velho // Portugal T +351 219 252 600 F +351 219 252 699

Sapa Building Systems AB

Metallvägen, 574 81 Vetlanda // Sweden T +46 383 942 00 F +46 383 76 19 80

Sapa Building Systems AG

Hintermättlistrasse 1, CH – 5506 Mägenwil // Schweiz T +41 62 88741-41 www.sapabuildingsystem.ch

Sapa Yapı Sistem

Sanayi ve Ticaret A.S. EGS Business Park B3 Blok Kat: 2 No: 140, 34149 Ye ilköy Istanbul // Turkey T +90 212 465 76 50 F +90 212 465 76 48/49

Sapa Building System FZE

Office 2512/2513 JAFZA ONE Business Center P.O. Box 263237 Dubai // United Arab Emirates T +971 4 887 00 96 F +971 4 887 00 69

Sapa Building Systems Ltd

Severn Drive, Tewkesbury, Gloucestershire. GL20 8SF // United Kingdom T +44 1684 853500 F +44 1684 851850

www.sapabuildingsystem.com