REFERENCE BOOK

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- Martin

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Almost everything starts with a dream, a vision. With imagination, enthusiasm and a little help from Reynaers, your dream becomes a project that will soon become reality.

Reynaers has developed a leading position in the aluminium industry in Belgium and in the rest of the world. We have achieved this position through reliable partnerships with every one of our stakeholders. Whether it's the investors, engineers, architects, suppliers, sales people or project developers... we all work closely together to reinforce our position as a best in class provider of standard systems or matching solutions for the needs of your projects.

Our team strives to keep expanding its knowledge and dynamism by staying in close contact with all our stakeholders. We are convinced that these close partnerships allow us to keep responding to our partners' needs and that it supports us in strengthening our position as a reliable and inspirational partner.

Some breathtaking projects that we have done together with our partners can be found in this reference book and are proof of our superb technical quality and our dedication to keep meeting the highest demands in architectural excellence.

You can rest assured that with Reynaers, your project is in the right hands from start to finish. Not only today, but also in the future we will keep working...

TOGETHER FOR BETTER!

Reynaers Aluminium develops and sells innovative and sustainable aluminium systems for the building industry. Our goal is to increase the architectural value of buildings and enhance the living and working environment of people worldwide. Comfort, security, architectural design and energy-efficiency come first in the development of our products. Reynaers systems are processed by fabricators and construction companies into **windows**, **doors**, **sliding modules**, **conservatories**, **façades**, **skylights**, **sunscreening systems and solutions for solar panel integration**. We provide solutions for all types of architectural styles for both the residential (new build and renovation) and project market (apartments, office buildings, hotels, shopping centers, public buildings, schools, hospitals, etc.).

Reynaers Aluminium owes its leading position to its constant investments in the **research and development** of market-oriented products. We advise and inspire by offering different kinds of printed and digital documents as well as events and fairs. Thanks to an **advanced logistical approach** the company succeeds in supplying its customers very efficiently. Reynaers satisfies the international **ISO 9001:2008 guality standard**.

We consider socially **responsible entrepreneurship** to be inherent to doing business and have been practicing values such as sustainable development, integrity, dialogue, honesty and social commitment from the creation of the company. The installation of **16.000m² solar panels** on the roof of our warehouses (Duffel headquarters) covers 80% of our total energy consumption and is a good example of our environmentally-friendly policy. Furthermore Reynaers in Duffel has obtained the **ISO 14001 certificate for Environmental Management**.





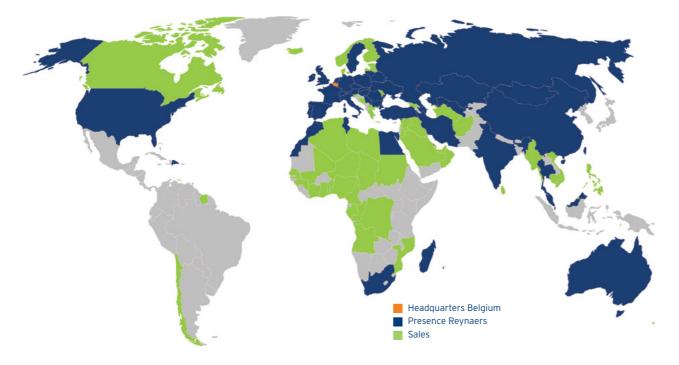


TOGETHER FOR BETTER

Our success is the result of a close collaboration with our partners. Our projects are living proof of the synergies we have created with investors, suppliers, project developers, architects and fabricators all over the world. We want our clients to know that they can count on us, today and in the future. As long as we work together, we will continue to improve our designs and systems. So let's work together. **Together for Better.**

THE REYNAERS INSTITUTE

To support the internal and external exchange of knowledge and information amongst all stakeholders, we have created the Reynaers Institute. It is an international meeting place and source of inspiration that motivates us to join forces and work on the building vision of the future. The Reynaers Institute houses one of the largest private test centers with dedicated installations for all relevant official tests according to European standards. You can visit the Reynaers Institute for trainings and seminars, general company visits, demonstrations of machines and testing.



FACTS & FIGURES

Reynaers Aluminium, established in 1965 is currently present in more than 30 countries and exports to more than 60 countries worldwide. Reynaers is considered by all players in the industry as one of the leaders in its business. In 2013 the Reynaers group achieved a turnover of 315 million euros (26 000 tons of aluminium) and has 1500 employees throughout the world.

6 22	RESIDENTIAL
36	OFFICE BUILDINGS
56	PUBLIC BUILDINGS
74	AIRPORTS
86	HOSPITALS
92	НОТЕLS
104	EDUCATION
120	LEISURE

eynaers systems CR 120, CW 50, CP 50, ES 50

BIO-INSPIRED PRIVATE HOUSE

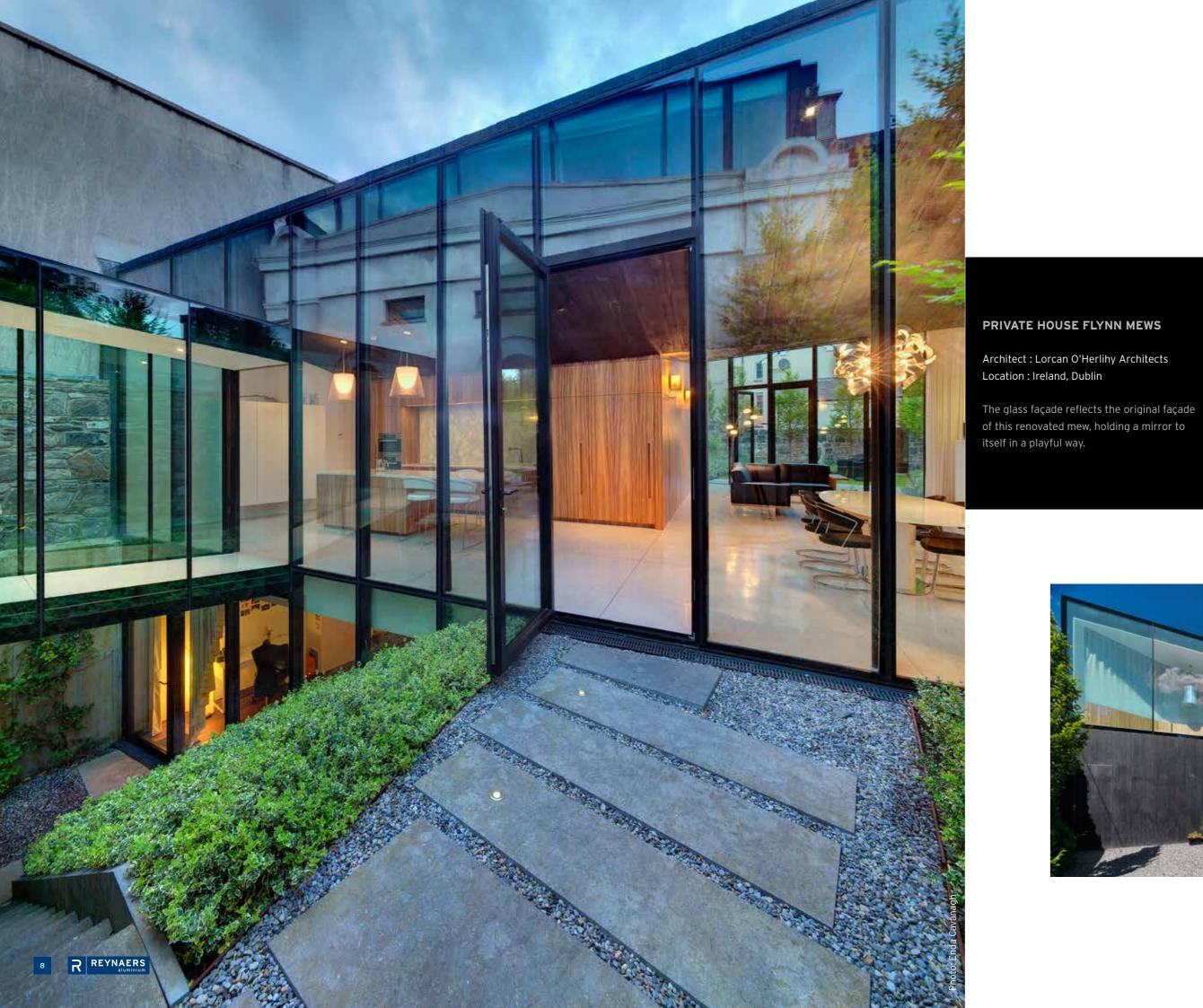
Architect : Arquitraço (Luís Rebelo de Andrade, Tiago Rebelo de Andrade, Manuel Cachão Tojal) Location : Portugal, Lisbon

This house with a 'vertical garden' is a good example of sustainability in the heart of the city.

MAPAX INVESTIME

RESIDENTIAL-PRIVATE





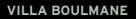
of this renovated mew, holding a mirror to





9





Architect : Hervé Marcel Location : Morocco, Marrakech

The different stacked volumes with a large sliding door give the sheltered private home a light and transparent appearance.





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PRIVATE HOUSE HOLSBEEK

Architect : DMOA Architecten Location : Belgium, Holsbeek

Characteristic of this residence is the feeling of enclosure created by the partially submerged walled patio. At the same time it welcomes in a maximum of light, thanks to the skylights and large expanses of glass on opposing walls, and offers an unobstructed view of the hills and forest.



, CS 77,

Reynaers systems : CS 59Pa, CP 45Pa

YACHT HOUSE

Architect : Robin Monotti Architects Location : Ukraine, Foros, Crimea

The Concept Folding 77 door in this white stacked holiday home and yacht house offers unobstructed views of the Black Sea.



PRIVATE HOUSE HOLSBEEK

Architect : DMOA Location : Holsbeek, Belgium

Characteristic of this residence is the feeling of enclosure created by the partially submerged walled patio.

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REYNAERS

PRIVATE HOUSE LUZARCHES

Location : France, Luzarches

The large CF 77 folding door creates a transparent and direct link between the interior and the exterior.







RESIDENTIAL-PROJECTS

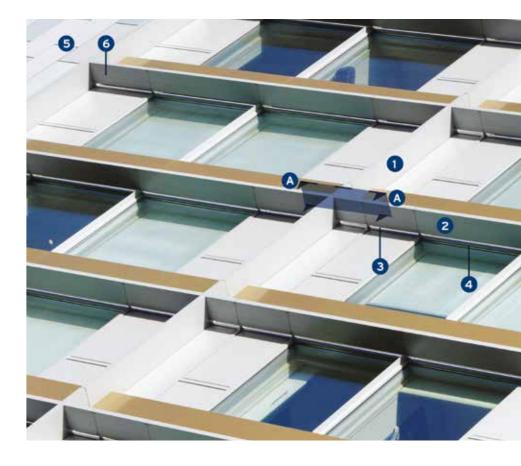
22 REYNAERS

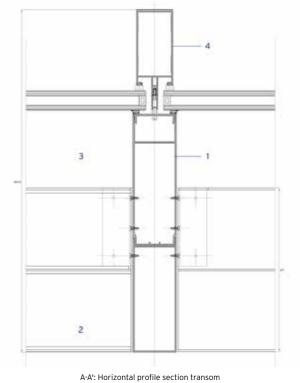


STUDENT ACCOMODATION **1 GREAT MARLBOROUGH STREET**

Architect : Hodder + Partners Location : United Kingdom, Manchester

Architects Hodder & Partners have sculpted an elegant solution which is strong and confident and at the same time carefully stated.





Bespoke solution face cap transom
 Bespoke solution face cap mullion
 Cavity
 Transom
 Terracotta tile rain screen
 Flush effect





GINKGO DE BERGBEEK APARTMENTS

Architect : Casanova + Hernandez Architects Location : The Netherlands, Beekbergen

One building is clad in an organic-look 'coat of vegetation' that communicates with its environment.



OLYMPIC VILLAGE

Architects : Denton Corker Marshall Ltd, Lifschutz Davidson Sandilands, Glenn Howells Architects, Panter Hudspith Architects, PRP Architects, Eric Parry Architects, CF Miller Architects UK Ltd, De Rijke Marsh Morgan Architects Location : United Kingdom, London

The Olympic Village which accommodated the athletes for the 2012 Olympics in London consists of seven buildings. A great many architects collaborated on the design. Reynaers provided various window, door and sliding door systems. Reynaers systems :

ES 50, CS 68, CS 68-HV, CS 77, CP 96, CP 130-LS

31



CORNEMUSE APARTMENTS

Architect : Hartmann & Schüpbach Architekten GmbH Location : Switzerland, Vinelz Bei Biel

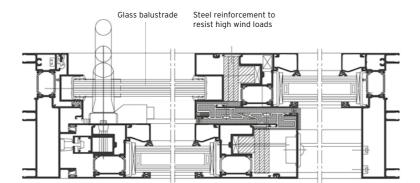
Exposed concrete and lots of glass characterise these apartment buildings with a stunning view of the lake.



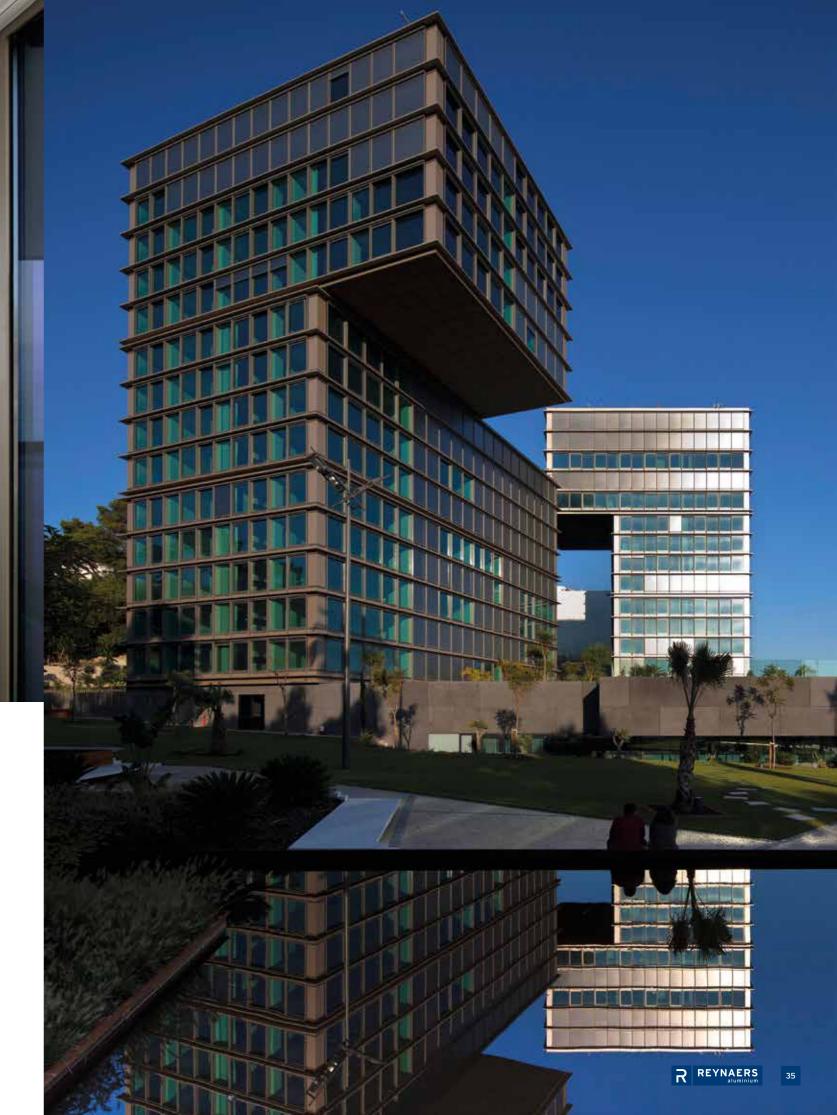


Architect : Gonçalo Byrne Location : Portugal, Cascais

Full-height windows allow a magnificent view of the sea and create a spacious feeling.



CP 155-LS monorail : horizontal section





101 TOWER

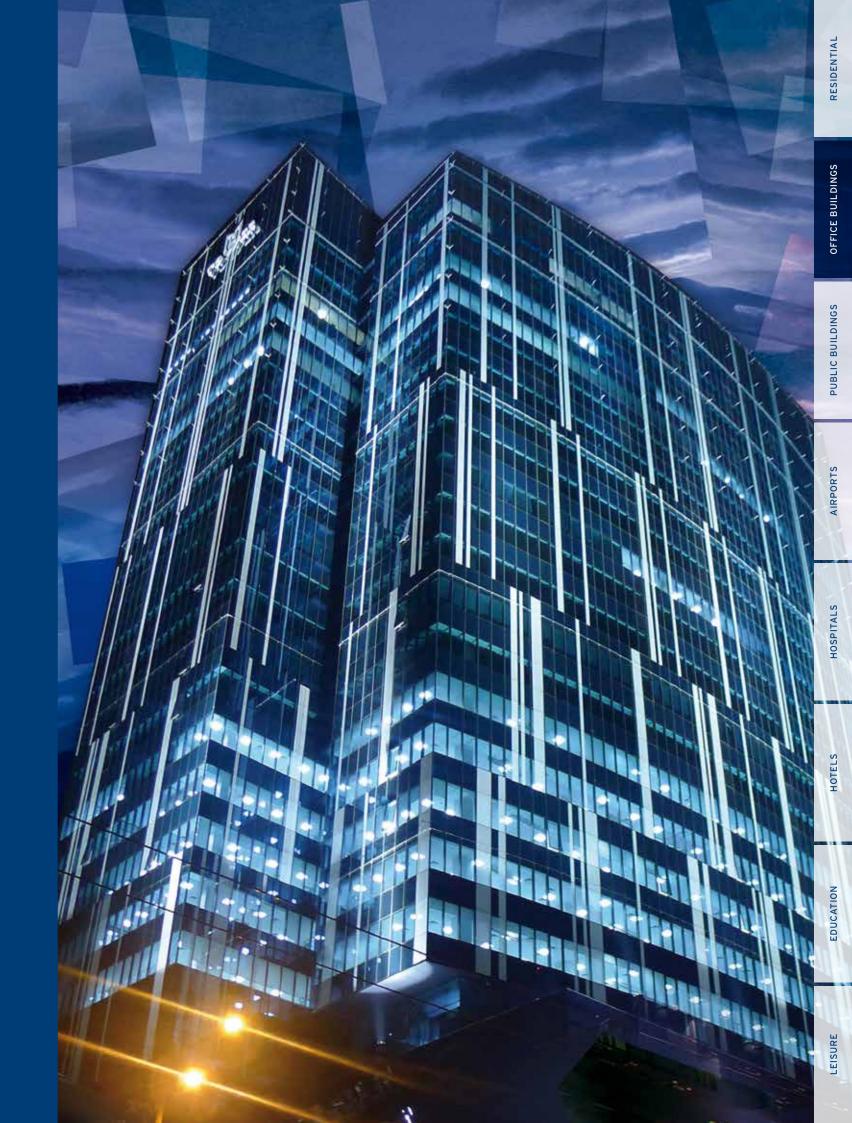
Architect : Architecture Office A. Koval, architecture group, Archimatika Location : Ukraine, Kiev

A typical office building is turned into an outstanding architectural landmark of the Ukrainian capital.

> Reynaers systems : CW 50, CS 77

OFFICE BUILDINGS

36 REYNAERS







eynaers systems CW 50, CW 50-SC

PARAGON TOWER

Architect : Gökhan Aksoy Mîmarlik Location : Turkey, Ankara

At night Paragon Tower lights up as a striking landmark.





BUSINESS CENTER AQUAMARINE

Architect : Speech Location : Russia, Moscow

The four buildings of different shapes and heights are arrayed along a slightly curved road and are characterised by modern grid façades, panoramic windows, and - unusual for Moscow - terraces.

Reynaers systems CW 50,



DET FAGLIGE HUS

Architect : Arkitema Location : Denmark, Esbjerg

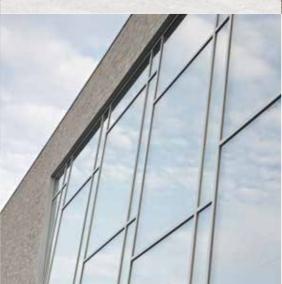
Seen from above, the Y-shaped building nearby Esbjerg Aiport is somewhat reminiscent of an aeroplane.

DETENGLIGENUS

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N WWW

Reynaers systems : CW 50-HI, CS 104, BS 100













AMBAR ENGINEERING AND **INNOVATION CENTRE**

Architect : Sobrellano Arquitectos Façade Engineer: Strain Engineering S.L. Location : Spain, Santander

Each frame and glass surface is of a different size, creating the building's unique appearance.



CW 86-VE

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Kiril Konstantinov

Photo:

FITECO

Architect : Colboc Franzen & Associés Location : France, Changé

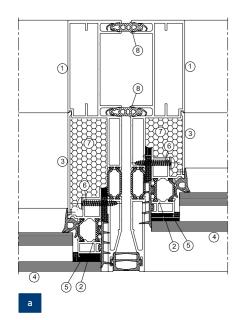
The mirror-polished stainless steel cladding and glass reflect the surrounding nature and everchanging light so that the building and surroundings, architecture and city disolve into each other. Sophormo business towe

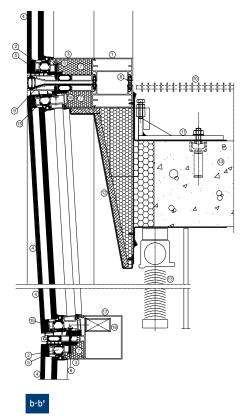
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SOPHARMA LITEX BUSINESS TOWERS

Architect : Architectonika studio Location : Bulgaria, Sofia

For this highly energy-efficient landmark in the centre of Sofia, Reynaers developed a unique bespoke solution that combines a double skin breathing façade based on CW 86-EF, CS 86-HI and the French technology for "façades respirantes" in one.





a : horizontal section sloped glass parts b-b' : vertical section with sloped glass parts

1. Outer frame 2. Thermal broken glass frame 3. Clips profile 4. Vision glass 5. Structural silicone sealant
 6. Screw fixation
 7. Insulation 8. EPDM linking gasket 9. Continuous gasket 10. Ventilation grid 11. Brackets 12. Fire screen 13. Sun blind 14. Concrete floor 15. Thermal broken vent 16. Outer frame for vent 17. T-profile 18. Motor for vent



HÖFÐATORG

Location : Iceland, Reykjavik

lends the façade its lively appearance.

REYNAERS

50

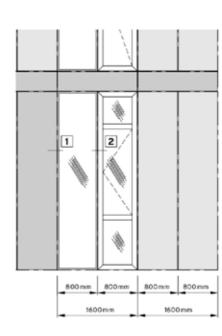
Architect : LWW Architekten, PK-Arkitektar

An irregular pattern of oblique surfaces

14



Α



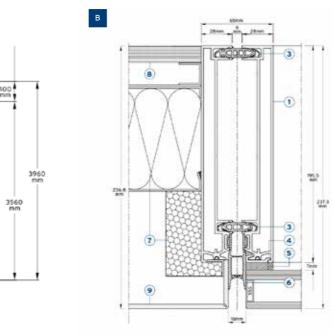
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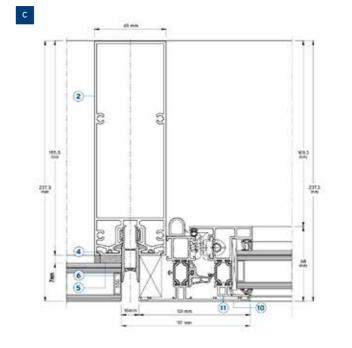
ETOPIA

Architect : MCBAD /Colomer Dumont Location : Spain, Zaragoza

Etopia, Center for Art and Technology, is an open space where artists, engineers, and the general public can come together.







- A: CW 65-EF-SG bespoke façade solution B: Section 1: horizontal section frame C: Section 2: horizontal section transom with CS 68-HV

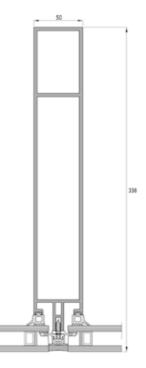
1. Outer frame

- Vertical transom
 Connection gasket
 Bonding profile
- 5. Structural silicone sealant
- Weather gasket
 Insulation

- 8. Gipsum board
 9. Aluminium panels
 10. Outer frame CS 68
- 11. Vent CS 68



PUBLIC BUILDINGS



CW 50-SC mullion with ix of 2690 cm⁴

LAZIKA MUNICIPALITY

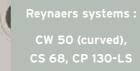
Architect : Architects of Invention Location : Georgia, Lazika

The municipality building is the only building in the city of Lazika and is constructed on stilts, in connection to its natural environment, the wetlands.

MUNICIPALITY OOSTKAMP

Architect : Carlos Arroyo Location : Belgium, Oostkamp

In the whimsical design of this 'cloudshaped' town hall, dome-shaped components provide the clouds.













PROSECUTOR'S OFFICE TBILISI

Architect : Architects of Invention Location : Georgia, Tbilisi

The black frame with elegantly stacked transparent boxes acts as a landmark at the entrance of the city.

CW 50-SG, CS 77

-44

500

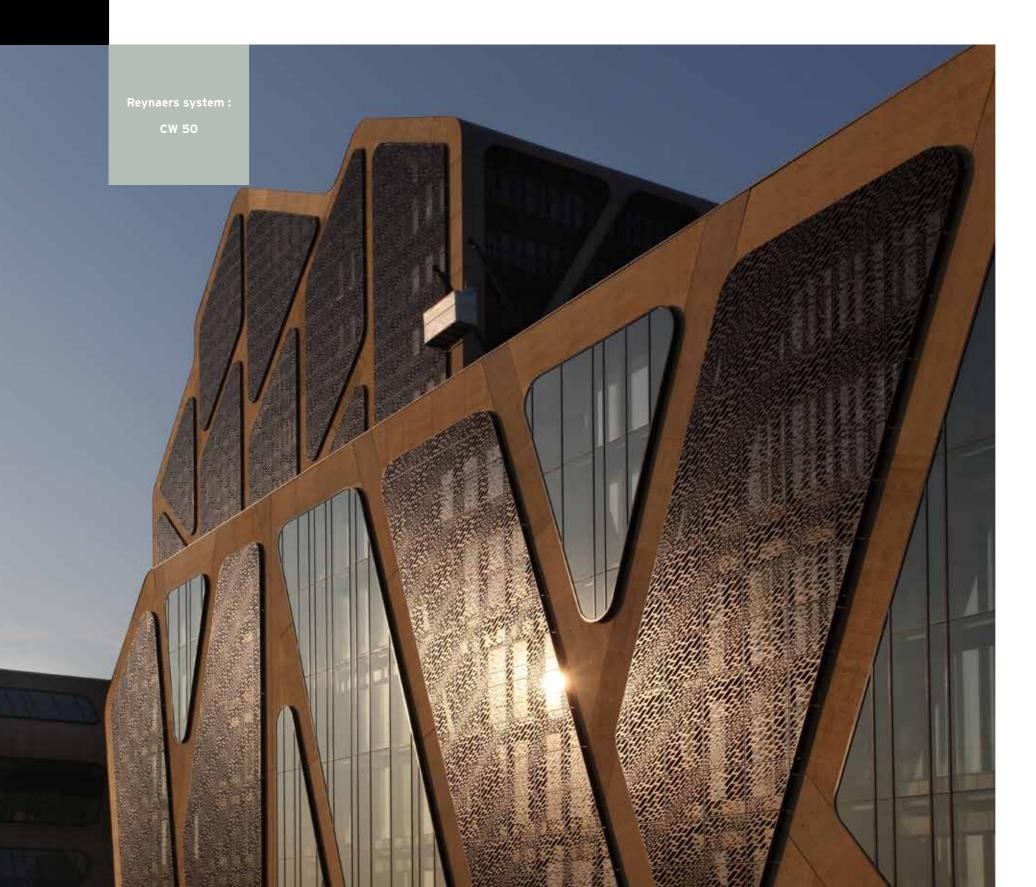
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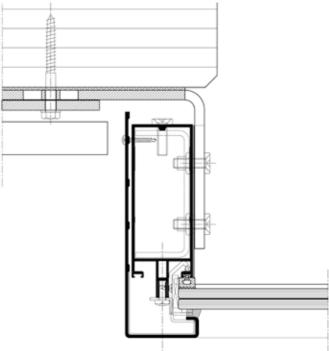


COURT OF JUSTICE 'THE HASSELAAR'

Architects : TWINS (J. Mayer H./ a2o architecten/ Lensºass architecten) Location : Belgium, Hasselt

The Hasselaar has a tree-like structure and forms an icon to the skyline of Hasselt.

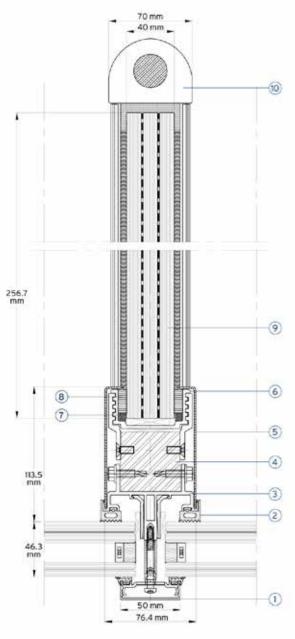


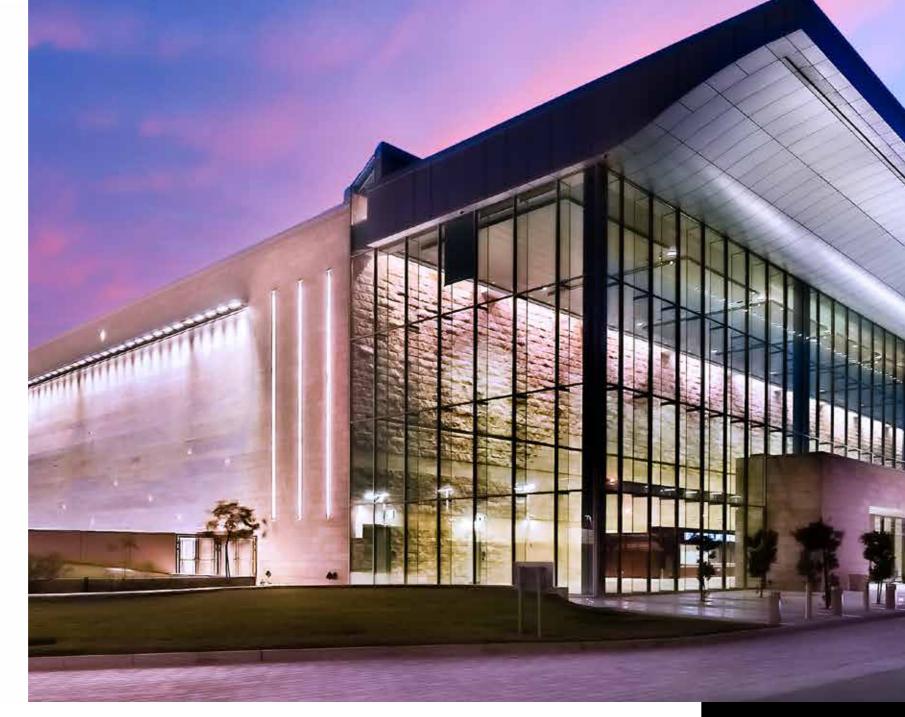


CW 50 horizontal section of upper slanted façade



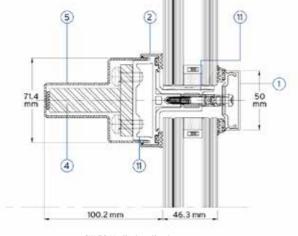
A special edge profile was developed for the curved elements





CW 50 Horizontal section mullion

- 1. Aluminium face cap
- 2. EPDM gasket
- 3. Aluminium mullion profile
- 4. Steel support profile 5. Stainless steel cover cap
- Glue profile
 Norton tape
 Silicon seal
- 9. Glass fin
- 10. Stainless steel glass socket
- 11. Aluminium transom profile



CW 50 Vertical section transom

QATAR NATIONAL CONVENTION CENTRE

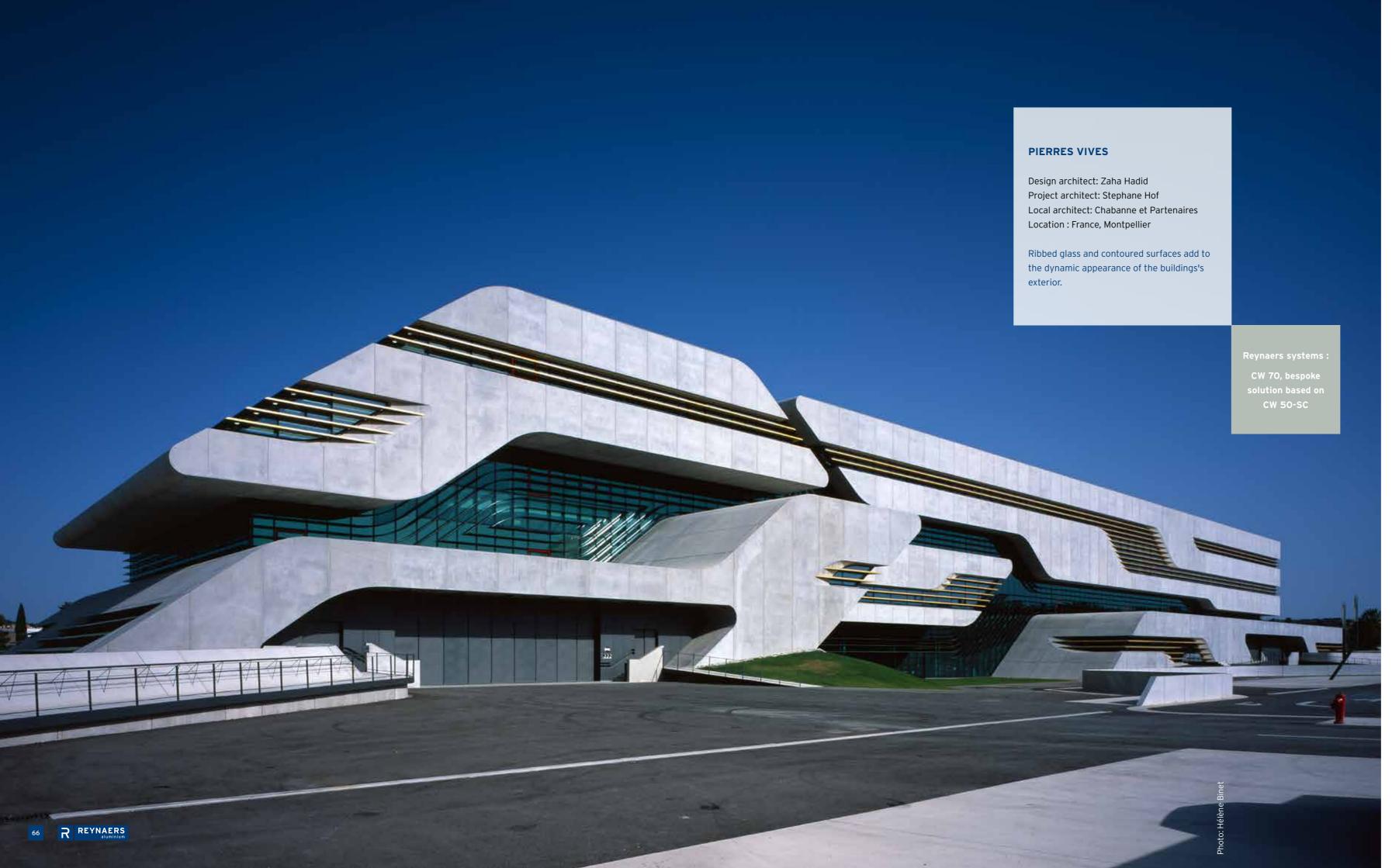
Architect : Arata Isozaki Location : Qatar, Doha

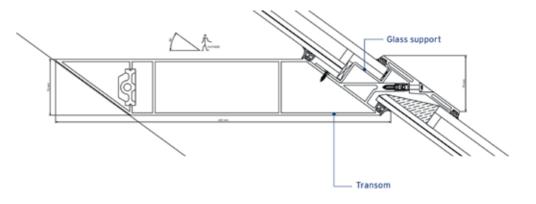
The glass façade with a span of 250 metres wide and 15 metres high forms this multifunctional meeting place.

REYNAERS

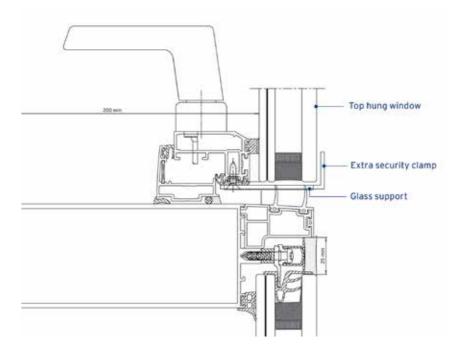
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Contractor Ball

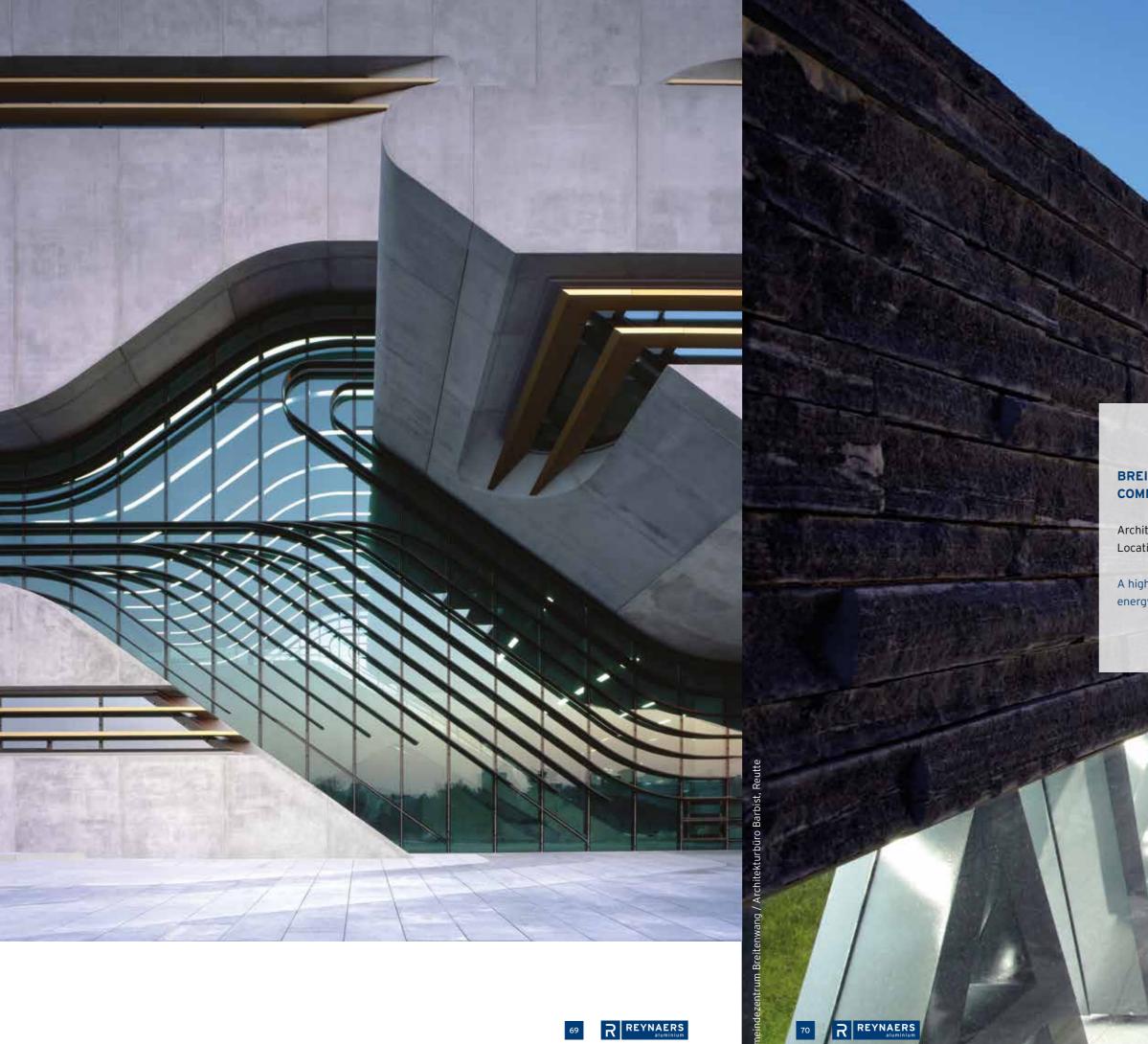




Vertical section CW 70 inclined transom



Vertical section CW 70 with vent



BREINTENWANG COMMUNITY CENTRE

Architect : Barbist Architektur Location : Austria, Breitenwang

A high-tech construction with a remarkable energy concept and plenty of comfort.

> eynaers system : BS 100

Steel bracket (galvanized) Façade Gear box / drive motor Glass

BS 100 louvre

-

REYNAERS aluminium 71



HARAGE

GERMAN EMBASSY

Architect: Slim Jbir Location : Tunisia, Tunis

Different bespoke solutions were developed to meet the stringent safety standards of the embassy. Parallel opening windows in the façade guarantee fresh air whilst keeping a high level of security.

COMMUNITY PALACE IN TUMEN'

Architect : Alexander Sonin, Adom Ltd. Location : Russia, Tumen'

A monumental community centre with an ecclesiastic ambience.



Reynaers systems : CS 77-HV, CW 50





AIRPORTS

SOFIA AIRPORT CENTRE

Architect : Cigler Marani Architects Location : Bulgaria, Sofia

A business centre with an environmentallyfriendly concept and stylish design.





INTERNATIONAL AIRPORT KHARKIV

Architect : Archstone Architect bureau, director Saratov Alexander Location : Ukraine, Kharkiv

This spacious and light new terminal building was built for the UEFA European Cup 2012, taking place in Ukraine.

eynaers system :

CW 50-SC



DONETSK SERGEY PROKOFIEV INTERNATIONAL AIRPORT

Architect : Viktor Romanchikov Location : Ukraine, Donetsk

A new seven-storey, 23 metres high terminal of 50.000 m² was constructed for EURO 2012 together with a new control tower.





LVIV DANYLO HALYTSKYI INTERNATIONAL AIRPORT

Architect : Tebodin Ukraine Location : Ukraine, Lviv

In preparation of EURO 2012, an entirely new terminal of 34.000 m² was built.







79

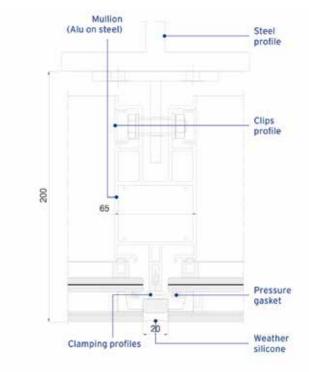


MPL PASSENGER TERMINAL

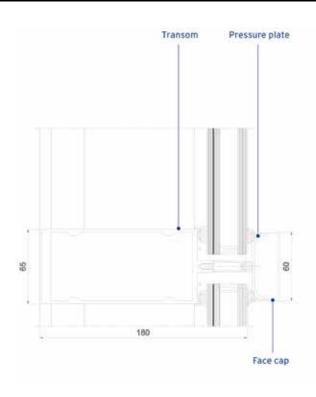
Architect : JSK Architektci Sp. Z o.o. Location : Wroclaw, Poland

Thirteen wave-like roof sections express movement of the building.

CW 65-HL bespoke solution, CW 50-HL, CW 50-HV-SG THW, CW 50-FP, CW 50-WS on steel substructure bespoke solution, CS 77, CS 59Pa



CW 65-EF horizontal section mullion



CW 65-EF vertical section transom



Reynaers systems : CS 68, CW 50

BRNO TURANY TERMINAL

Architect : Petr Parolek Location : Czech Republic, Brno

REYNAERS

A friendly alien has landed at BRNO airport. The form of the building reminds of the aesthetics of an airship.





EINDHOVEN AIRPORT

Architect : De Bever Architecten, KCAP, NACO Location : The Netherlands, Eindhoven

The architects created a very efficient building constructed mainly of glass, with an aluminium façade that integrates perfectly into the architecture.

REYNAERS

eynaers systems CS 86-HI,

PLZEŇ UNIVERSITY HOSPITAL

Architect : Jan Lacina Location : Czech Republic, Plzeň

A new oncology ward for the Plzeň University Hospital with a clearly arranged layout.

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HOSPITALS

86 REYNAERS





eynaers systen

HOSPITAL DE FIGUEIRA DA FOZ

Architect : Luís S. Neto Arquitecto & Associados Location : Portugal, Figueira da Foz

The emergency division of this hospital is foreseen with the latest energy- and safety control management systems.







DERBY CITY HOSPITAL

Location : United Kingdom, Derby

The BS 100 sunscreening system provides extra comfort for the residents of this hospital.





SAMITIVEJ SUKHUMVIT HOSPITAL

Architect : Teac Co. Location : Thailand, Bangkok

A new wing was added to the existing building, with a design that matches that of the main hospital while adding a more modern, stylish touch.

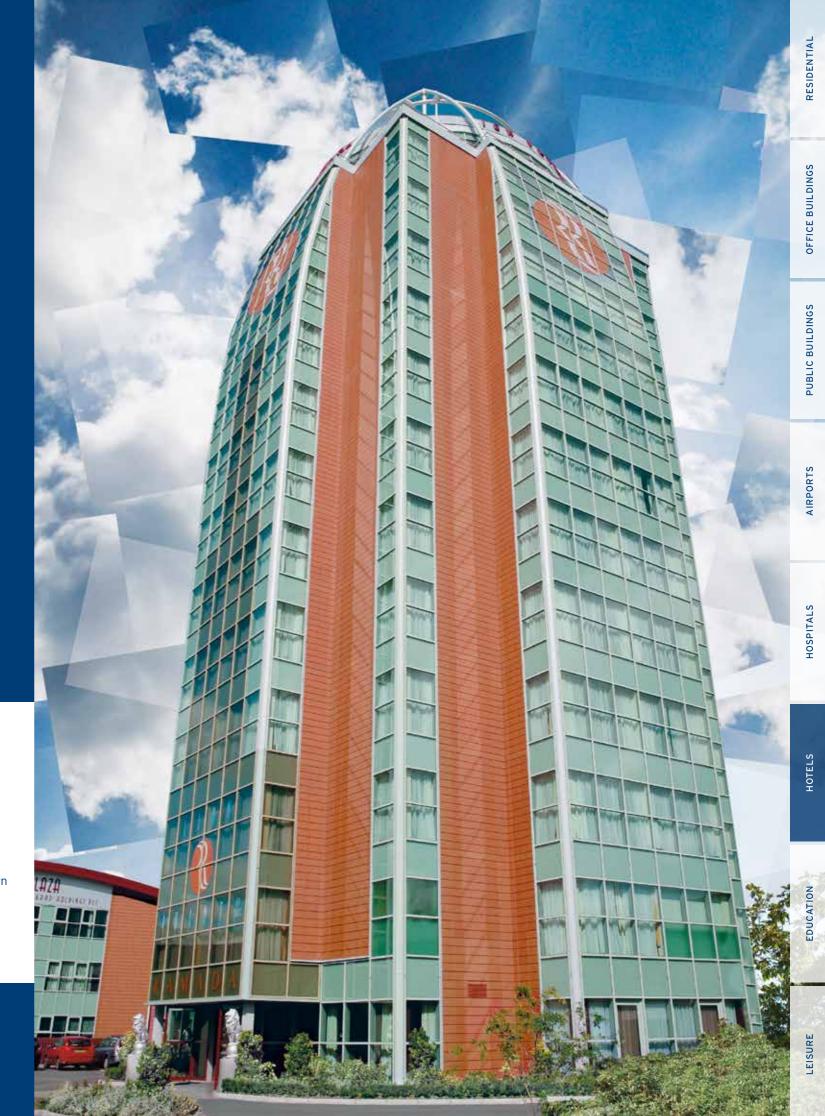
HOTELS

RAMADA HOTEL

Architect : The Pritchard Group Location : United Kingdom, Cannock

A landmark hotel in Cannock with a modern décor and clean lines.

teynders system









Reynaers systems : CW 50, CW 50-SC, CS 77, CS 59Pa, CP 155-LS

HOTEL NARVIL

Architect : KM Rubaszkiewicz Sp. Z o. o. Location : Poland, Warsaw

The geometric texture of the façade was inspired by tree branches.



Architect : Tigon Design Group Location : Thailand, Cha-Am

A five-star hotel at the Cha-Am beach: energy-efficient, and in a contemporary Thai style.

REYNAERS

98 R REYNAERS





ASPIRE TOWER

Architect : Hadi Simaan Location : Qatar, Doha

A concrete core surrounded by a double skin façade.



HOTEL ALTAPURA

Architect : Studio Arch Location : France, Val Thorens

The CW 60 façade system with integrated photovoltaic panels reflects the beautiful countryside of Val Thorens.





RENAISSANCE HOTEL

Architect : Cuatrifolio Location : Spain, Barcelona

Effervescent elegance in a new hotel close to Barcelona airport.

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REYNAERS aluminium

VILNIUS UNIVERSITY LIBRARY

Architect : Paleko ARCH Studija Location : Lithuania, Vilnius

The building is designed to facilitate the modern approach to learning and research and forms the first building block of a future knowledge complex on the outskirts of the city.

Reynaers systems : CW 50, CW 50 Flush Roof Vents, CS 68

EDUCATION

104 REYNAERS





Reynaers systems : CW 86-VEP, XS 50, CD 50, BS 100

LYCÉE AGRICOLE DE LAVAL (BOARDING SCHOOL)

Architect : Pellegrino Gilbert, Pièces Montées Architecture Location : France, Laval

The modern board school is given a friendly, pleasant appearance by the application of a façade cladding consisting of square blocks in soft shades of green and yellow.



106 REYNAERS

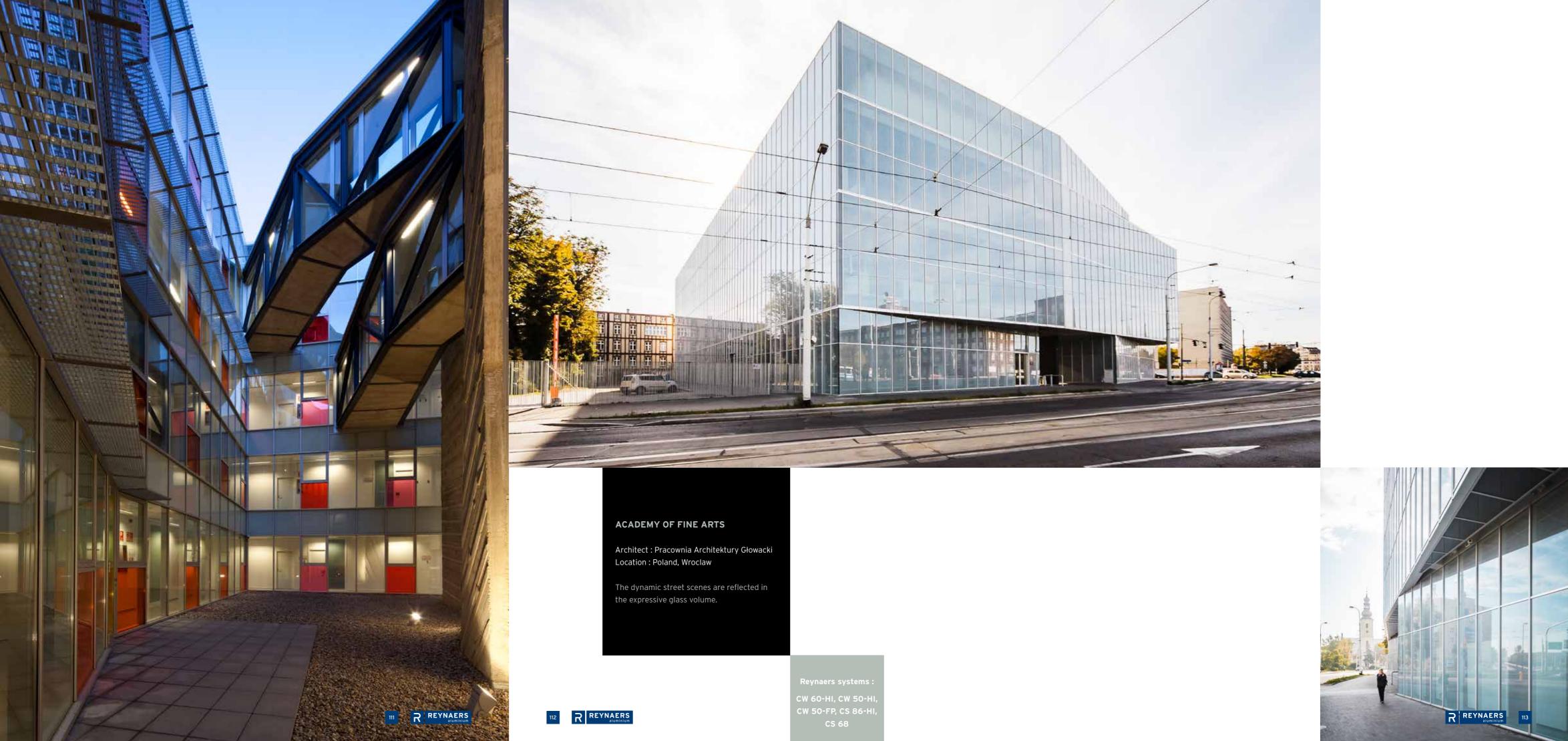


EUREKA RESEARCH BUILDING AT UAB RESEARCH PARK

Architect : GECSA Ingeniería y Obras Location : Spai<mark>n, Barcelona</mark>

Brightly coloured glass and the pedestrian bridge make Eureka stand out between the other buildings on the campus.



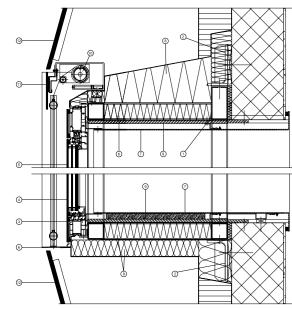


UNIVERSITY LUCERNE

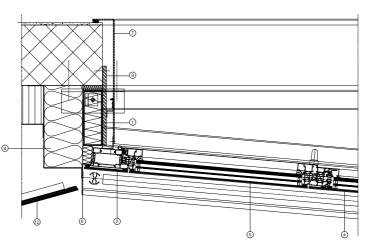
Architect : Enzmann & Fischer AG Location : Switzerland, Lucerne

A striking complete makeover of a former post office building.

CS 86-HI







B-B': Horizontal section opening elements

- Steel sub structure,
 Steel anchors,
 Alu frames,
 Structural Sealed Glazing,

- 5. SSG Vent,
- 5. 530 vent,
 Finishing profile aluminium plate of 3 mm,
 Finishing profile in alu 4 mm,
 Fire retarding insulation,
 Gipsum board,
 Sunscreens,

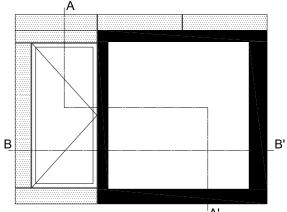
- 11. Sunscreen covering profile of ESG safety glass
- (SSG glazing), 12. Flat panel for façade cladding

114 REYNAERS

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MILLERA





CENTRE FOR LIFE SCIENCES

Architect : Rudy Uytenhaak Architectenbureau Location : The Netherlands, Groningen

The most characteristic detail of the building is its green façades which cover the steel construction.

S 50, CW 50

B S (=]]

R REYNAERS









NUI GALWAY ENGINEERING DEPARTMENT

Architect : RMJM Architects, **Taylor Architects** Location : Ireland, Galway

The ambition to have the act of learning facilitated by the organisation of the building is reflected in its design and construction.

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REYNAERS 119

LEISURE

Reynaers system CW 86-EF

FERRARI WORLD ABU DHABI

Architect : Benoy Architects Location : United Arabian Emirates, Abu Dhabi

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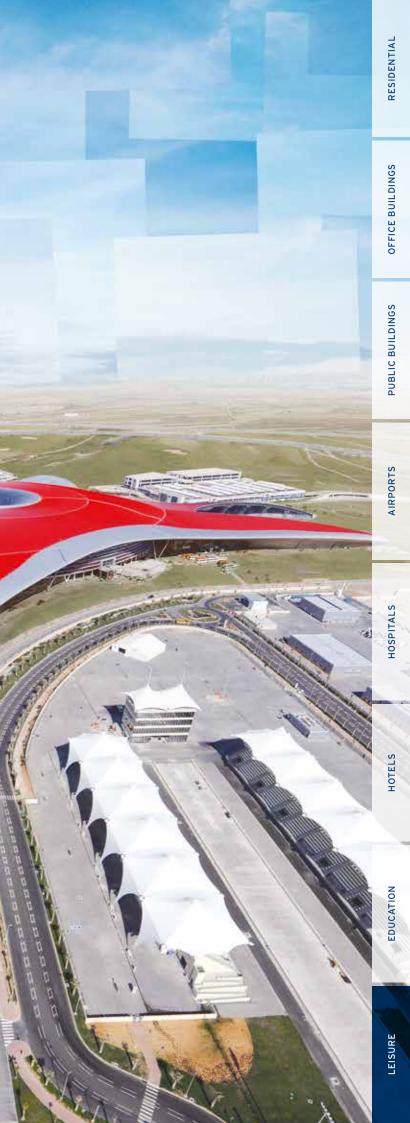
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They

FILL

UN.

Reynaers designed nearly thirty new profiles, twelve new gaskets and countless fittings for this spectacular project in Abu Dhabi. For the enormous funnel in the middle of the 210.000 m² roof surface, a bespoke façade solution was developed that, due to the special shape of the funnel, was mounted on a 3D steel support system.



Reynaers system : bespoke solution based on CW 50-SC

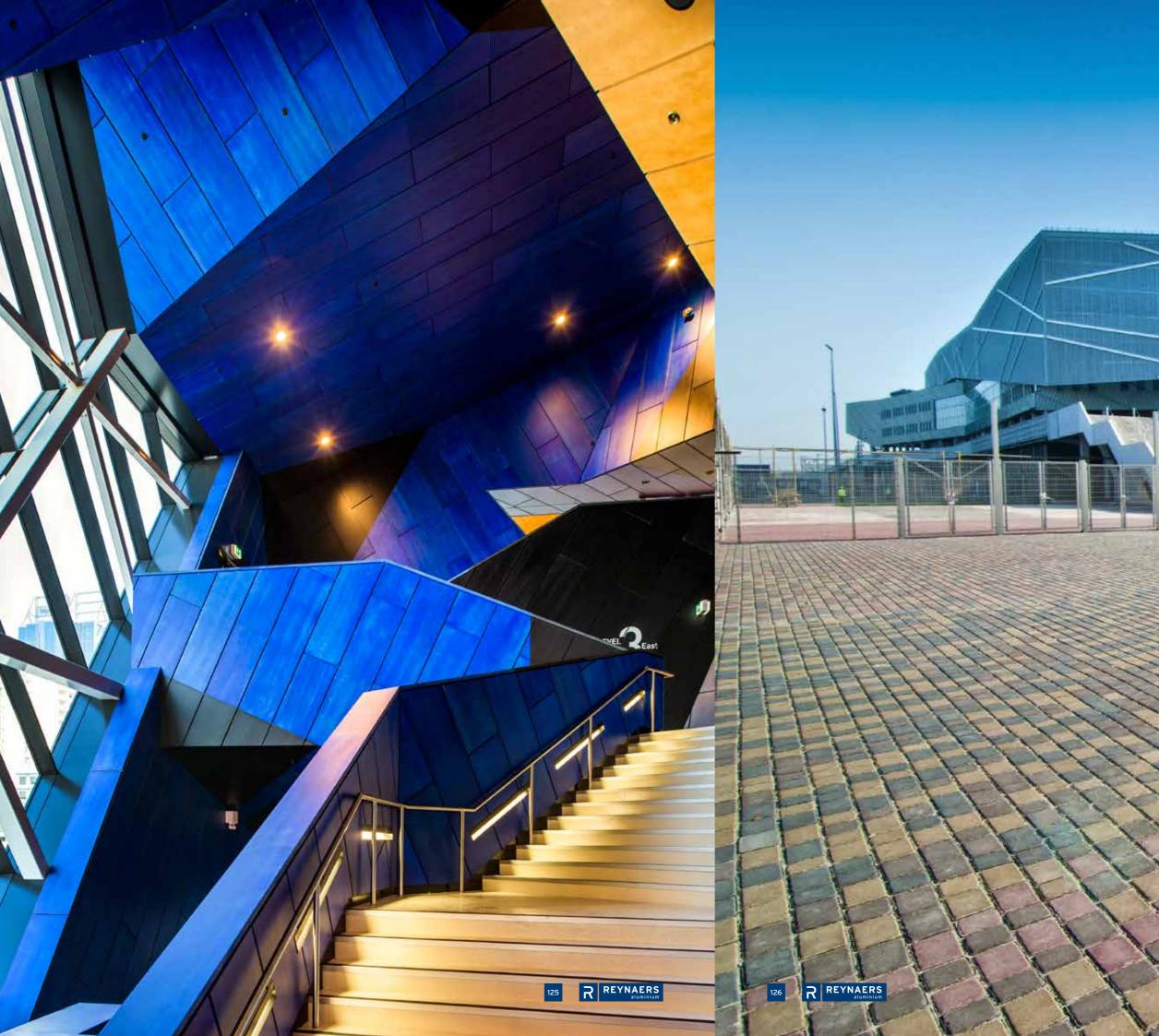
RECREATION/ENTERTAINMENT CENTRE PERTH ARENA

Architect : ARM Architecture, Cameron Chisholm Nicol Location : Australia, Perth

The architects designed an impressive, flexible concert venue and sporting events stadium. It is a piece of architecture that resembles a giant and complex jigsaw puzzle.



85 68



FOOTBALL STADIUM LVIV

S STAR

Architect : Albert Wimmer ZT GmbH, Arnika, Ukrdesigngroup Location : Ukraine, Lviv

This new football arena in Lviv was especially built for the 2012 European football championship.





KAAP SKIL MUSEUM VAN JUTTERS & ZEELUI

Architect : Mecanoo Architecten B.V. Location : The Netherlands, Texel

The glass wall behind the front façade made of wooden slats, allows visitors to the museum café to experience the outdoor light and the skies and cloudscapes for which this area of the Netherlands is known, in their full glory.









SPORTS CENTRE SOK KAMCHIA

Architect : Ivan Todorov Location : Bulgaria, Varna

The most striking element of this new sports complex is the roof, which creates a visual image similar to that of two rolling waves.

naers systems :

50, CW 50-RA , S 50, CS 59, CS 59Pa

MÉDIACITÉ

Lead Architect : Ron Arad Executive Architect : Jaspers & Eyers Location : Belgium, Liège

A new shopping centre that weaves like a snake through an old suburban district in the heart of Liège, adding a fresh touch to this part of the city by combining bold architecture with sustainable technology.



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ynaers system CW 50-SC

MUSEUM EXTENSION BERN

Architect : :mlzd Location : Switzerland, Bern

There is a dialogue between the old and the new in terms of materials and surface structure.







HISTORIAL DE LA VENDÉE MUSEUM

Architect : Plan01 Location : France, Les Lucs-sur-Bologne

The building plan revealed an evident wish to merge the Historial into the landscape.

CA. C. C. MARSON R. R. C. C. LANS

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