



4 - 13

FEATURE FOCUS

The brilliance of rainscreen

16-17

IN TANDEM

When old dormitories become halls of residence

26-27

100 % SPORT

An elegant sash

36-37

100 % LEDS

Let there be light!

number 1528

Feature focus

THE BRILLIANCE OF RAINSCREEN

Brilliance and linearity

Playing with reflections

Fresh air in the city

Transcendent light effects

Translucent skin over a wooden structure

A clear visual signal

SNAPSHOT

Villa britania apartments

Multicultural space

Maidagan park

N TANDEM

When old dormitories become halls of residence

High-end renovation

Between heaven and earth

Plawless visibility

Invisible chapel

NEWS

5 Curved lines

100% SPORT

26 An elegant sash

Tri-coloured swimming pool

Olympic glazing

Reinterpreting the codes of a traditional Paris building

Protective barrier

100% LEDS

Let there be light!

A new nocturnal look

Successful climatic adaptation

A memorial and a symbol

TECHNICAL Trends

Digital printing

42 Industrial transparency



EDITORIAL

Reflections, transparency, opacity

Architecture is a profound, fundamental and necessary human activity.

Architecture speaks of and to humans; it creates the backdrops to their lives, their homes, their neighbourhoods and their cities. It speaks of people and thus of society, and the interactions between its individual members.

Reflections, when we see in others what we are ourselves or would like to be.

Transparency, in the form of the sincerity and trust we offer and receive.

Opacity, in the privacy we want to keep for ourselves.

Reflections, transparency, opacity: three levels of interpretation and communication. Three architectural choices, made possible by our systems and expressed by our talented customers throughout the world.

They share their vision with us, and we thank them for it.

Enjoy reading about them

The editors.



Feature focus THE BRILLIANCE OF RAINSCREEN

CLARITY AND **IMMATERIALITY**

In both new-build and renovation, architects often use the effects created by materials, colours and forms to make their buildings stand out in an urban landscape that is more constrained with every passing day.

While Danpalon® rainscreen, used as a ventilated exterior cladding, allows for this kind of very visual expression, this is not necessarily its most common purpose. And the success of the opal, clear and ice colours shows how interested project managers are in another property of the material: its ability to create buildings with a certain immateriality; to create imposing buildings without imposing them.

With cladding that is more or less transparent, the pale colours of Danpalon® rainscreen have the ability to reflect natural light and create different vibrations and intensities with effects of light and shadow depending on the time of day and the angle of the sun. A form of architectural expression that suggests more than it reveals, and integrates buildings gently into their surroundings by creating breathing spaces that are all too welcome in our urban landscapes.

BRILLIANCE

AND LINEARITY

Housing in ZAC Rives de Seine ■ Boulogne-Billancourt (France)

These two eight and nine-storey housing blocks appeal by their harmony and fine finishes.

t the end of 2014, the SBBT architecture firm (Paris) delivered the second stage of the construction of 187 apartments, divided between two buildings with exterior thermal insulation. This was a high-profile project for the municipality of Boulogne-Billancourt, as it is located in a former Renault industrial site known as the "Trapèze" in the ZAC (joint development zone) of Seguin.

Ultimately, the development will include nearly 30,000 m² of housing. "To fits into this context. "We give all the apartments were looking for a cladding an interior quality, we de- suited to the constraints of signed duplex apartments on the ground floor. And to create a transition between

urban space, we incorporated screen-printed glass in the loggias," explains architect Sophie Berthelier. Another guiding theme of the project is the wraparound balconies running along all the facades, giving all the apartments the benefit of outdoor space.

Linear facades

As for the materials used, Sophie Berthelier selected them for their "matt and glossy materiality" as part of the overall effect. The choice of a microcellular polycarbonate rainscreen cladding the northern facade. Danpalon® rainscreen cladding has the unique property of the housing space and the reflecting light and providing shine. Depending on the season and the time of day, its nuances vary from white to light grey. You can feel the material! The choice enabled us to achieve a building with a uniform, consistent response to light,"

■ Ventilated Rainscreen, Danpalon® BRV 8, 600 mm, opal, 2,000 m²

Playing with Contrast

To accentuate the linearity and shine of the facades, the architect also uct would last and achieve took great care with the the best effect," concludes finer details of the project. Working with the manufacturer Dacryl, she designed

adds Sophie Berthelier.

crusted with aluminium flakes and decorated the panels separating the balconies with sheets of mirror-polished stainless steel. The whole project was drawn at 1/10 scale to ensure the greatest possible precision and avoid the need to cut Danpalon® rainscreen on site. The goal? "To ensure the prodthe architect.

railings using perspex en-



PROJECT CLIENT

NEXITY FONCIÈRE COLYSÉE ■ Puteaux (France) ■ www.nexity.fr VINCI IMMOBILIER www.vinci-immobilier.com

DANPALON®

RAINSCREEN CLADDING

HAS THE UNIQUE

PROPERTY OF

REFLECTING LIGHT

AND PROVIDING

SHINE.

PROJECT MANAGER

SOPHIE BERTHELIER

- Sophie Berthelier Benoît Tribouillet Archite
- Paris (France) +33 (0)1 58 14 29 55
- sbbt@sbbt-architecture.com
- www.sbbt-architecture.com



Feature focus THE BRILLIANCE OF RAINSCREEN

INTERVIEW - PRODUCTION DIRECTOR - BATEX Thierry Lambert

What was your responsibility?

■ TL: We were in charge of installing the cladding on the facades and balconies. It was a major project with over 2,000 m², requiering five to six people on site. Despite the large area of Danpalon® rainscreen cladding, the project went fairly quickly because we only had one framework to install!

So you weren't confronted with any particular problems or difficulties?

■ TL: Between the first phase of construction (delivered in 2012) and the second, delivered in 2014, the techniques for fitting Danpalon® rainscreen products evolved. Between the two phases, Everlite Concept developed a profile that hides the fixed points in the lower sections.

The project manager wanted all the cladding panels to be cut in the factory. What did that change for you?

■ TL: It made our work easier. When you have to cut Danpalon® rainscreen lengthwise on site, you need to vacuum up the dust to avoid it becoming encrusted in the panels.

Did the installation operation go well?

■ TL: Fixing the rails is the part where you can't compromise. If that is done properly, the work goes guickly. There was one issue on this site due to the height (eight and nine storeys). We had to set up scaffolding and anchor it to the facade. This meant we had to leave spaces on the facade where the scaffolding was anchored, and then come back and cover them up when the scaffolding was taken down.

BRILLIANCE AND LINEARITY

The **PROJECT**

THIERRY LAMBERT (phase 1)

- Batex Le Plessis Trévise (France) +33 (0)1 45 76 02 08
- batex@wanadoo.fr www.batex.fr

REPISOL SA (phase 2) ■ St Germain-Lès-Corbeil (France) ■ +33 (0)1 69 89 43 00 ■ repisol@repisol.fr





PLAYING WITH REFLECTIONS

Chennevières school ■ Conflans-Sainte-Honorine (France)

3 Questions for **CEDRIC MENU**

ARCHITECT AT THE PARTICULES FIRM

What did this project involve?

The goal was to integrate a building for extracurricular activities (400 m² over two floors, including four rooms of 60 m²) into the Chennevières school complex in Conflans-Sainte-Honorine (Yvelines), nestling in the corner of the existing L-shaped main building. Although the project is minimalist in terms of the materials used, we designed a bright, fun building that breaks away from the austerity of the previous building while still fitting in with its architectural style.

In that case, why didn't you choose a brightly-coloured facade?

We decided to bring the building to life with reflections in the facade. That was our choice. We looked for a material able to create a play of light and shade and respond to the reflections in the horizontal windows on the ground floor. The Danpalon® ice rainscreen cladding solution was an obvious choice. We even achieved a slightly transparent effect, giving a glimpse of the kraft finish on the rock wool insulation beneath the cladding.

So where is the fun aspect?

It's definitely there! For one thing, we hope the children have claimed the building and enjoy the play of light and reflection. And we also kept a playful note by painting the window frames in four bright colours, using the same colours in the interior design (on the floor, on doors etc.).

PROJECT CLIENT

CITY OF CONFLANS-SAINTE-HONORINE

- **+**33 (0)1 34 90 89 89
- www.conflans-sainte-honorine.fr

PROJECT MANAGER

ATELIER PARTICULES

- Paris (France)
- +33 (0)1 42 22 17 67
- contact@lesparticules.
- www.lesparticules.fr



QUANTITY SURVEYOR

MATTHIEU ECALLARD

- Paris (France) +33 (0)1 42 22 17 67
- ecallard.economiste@gmail.com
- www.ecallard-economiste.com

INSTALLER

E.T.B.I ■ Antony (France) ■ +33 (0)1 56 45 15 00

- contact@etbi.fr
- www.groupe-yvelines-etancheite.fr

PROJECT COST

■ 680,000 euros

FRESH AIR IN THE CITY

From the Blériot building in Tours to the Jules Verne building in Rennes, these externally insulated projects lie at the heart of new residential districts built to relatively dense, constrained plans. In both cases, the choice of Danpalon® clear rainscreen cladding has created an effect of lightness and breathing space.

JULES VERNE RESIDENCE

■ Rennes (France)

n south-western Rennes, the district of La Courrouze is coming to life. Begun during the 2000s, the development of these 115 hectares is due for completion by 2020. Ultimately, it should house 10,000 residents and provide 3,000 jobs. In the middle of the office blocks, shops and public amenities stands the Jules Verne Residence, a block of apartments designed by the David Cras architecture firm. "The 53 apartments are divided between three blocks, with the ground floor occupied by business premises (five in all). This fairly cramped plot, already defined by the urban planning scheme, left us little room for creativity. Under these conditions, the treatment of the fa-

cade is a means of expression," explains the architect, David Cras. He thus selected Danpalon® clear rainscreen, not for its insulating properties or its ability to refract light but to create an impression of immateriality. "Creating an imposing building that doesn't impose itself," he summarises. Installed on the northern facade, the Danpalon® panels also smooth and unify the surface. "The northern exposure is often difficult to treat because there are lots of small windows," adds the architect who combined the Danpalon® cladding with a white opacifying agent to avoid "uncontrolled sun reflections" on the building. "It is a silent presence," concludes David Cras.

The **PROJECT**

PROJECT CLIENT

- **+** 33 (0)2 23 48 80 00
- neotoa@neotoa.fr
- www.neotoa.fr

PROJECT MANAGER

DAVID CRAS

- Agence David CRAS Architectes
- Rennes (France)
- +33 (0)2 99 30 00 33

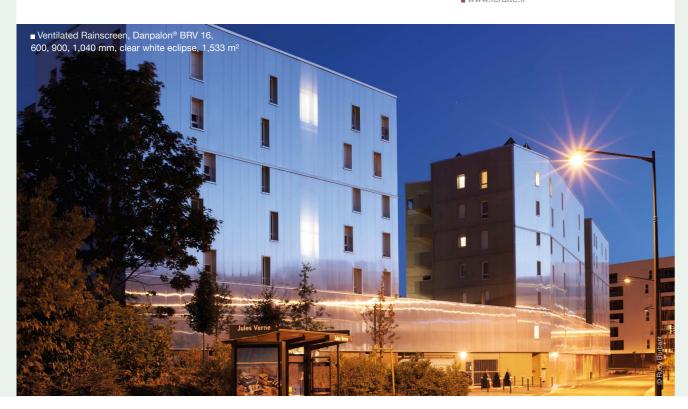




GENERAL ENGINEERS TCE

INSTALLER

- FERATTE
- Guignen (France) **+33 (0)2 99 92 20 82**
- feratte.michel@wanadoo.fr
- www.feratte.fr





BLERIOT RESIDENCE

■ Tours (France)

ocated in northern Tours, a small new neighbourhood known as Îlot Colombier is beginning to emerge. On a 1.9-hectare plot, the project client has undertaken a building programme that will result in 140 homes, a community space and an office building. The Residence Bleriot consists of two five storey

atrium. "This atrium, which houses the lifts and staircases, gave me the framework of the building. I used Danpalon® clear rainscreen cladding with a white opacifying agent, because this colour goes well with the glass and gives the building an immaterial appearance." comments the architect. Jean-Yves Barrier. "Here, the Danpalon® clear buildings linked by a central glazed rainscreen is a living part of its en-

vironment. When the sun shines, it glistens. When the sun goes down, it takes on new depth with a greater variety of colours. What's more, it reflects the surroundings, enabling it to blend into its urban setting by creating a pause for breath between the new buildings with their various styles." he concludes.

The **PROJECT**

PROJECT CLIENT

SEM MARYSE BASTIÉ ■ Tours (France) ■ +33 (0)2 47 60 28 01

accueiltours@marvsebastie.fr www.sem-marvsebastie.fr

PROJECT MANAGER

JEAN-YVES BARRIER

■ Jean-Yves Barrier Architectes ■ Tours (France)

■ +33 (0)2 47 64 89 74 ■ jyb.architecte@wanadoo.fr

CIBETANCHE AGENCE DE DESCARTES ■ Descartes (France)

■ +33 (0)2 47 92 97 37 ■ secretariat.centre@cibetanche.fr ■ www.cibetanche.fr

TRANSCENDENT LIGHT EFFECTS

Léonard de Vinci school ■ Massy (France)

(nursery and primary) into this new urban space, the municipal architect Pascale Colin took the opposite direction from the dominant construction model, favouring an effect based on

n the heart of the ZAC (joint dematerials rather than colour. "I wanted elements, made of prefabricated con-

Elegance and restraint

floor area of 4,500 m². The structural the architect.

velopment zone) of Atlantis in to create a building that would evolve crete panels, are painted with a gold Massy (Essonne), the Léonard with the movement of the sun, with a stain, and the remaining 1,780 m² of de Vinci school complex is part fairly unified colour scheme. In the the facade is covered with Danpalof a fast-changing area housing many morning, the school complex is white on® clear with iridescent gold rainbuildings with brightly coloured fa- and luminous, while in the afternoon screen. These single-height panels, cades. To integrate the 17-class school it takes on warmer shades," explains rising up to nine metres, break up the monolithic, rigid, matt appearance created by the concrete panels. The result? A restrained, elegant building To achieve this result, the architect se- for about 8 million euros. "Danpalon® lected two separate facade claddings rainscreen provided the vital touch to embellish the building, which has a of lightness for the project," adds





The PROJECT CLIENT MASSY CITY HALL

PROJECT MANAGER

PASCALE COLIN ■ Pascale Colin Architecte

- City Heritage Departement +33 (0)1 80 38 02 87
- p.colin@mairie-massv.fr www.ville-massv.fr



JOLY SAS

- Saint-Marcel (France)
- **+**33 (0)2 32 51 40 30
- contact@jolysas.fr www.iolysas.fr

TRANSLUCENT SKIN

OVER A WOODEN STRUCTURE



How did you integrate this building without taking up too much of the space available (part of the playground)?

■ PDB: We had only two classrooms to add (250 m²), so we wanted a light construction that would blend in without being too imposing. We decided to place the building at a height, diagonal to the existing building, preserving the view and making the most of the light from the east. The materials also contributed to the overall harmony. By choosing cladding made of aluminium sheets and Danpalon® clear with iridescent gold rainscreen, we worked with colours that blended with the yellow sand-lime brick of the existing building. The building is contemporary without being a visual assault. This was what the project client wanted.

Wouldn't a glass facade have created greater lightness?

■ PDB: The translucent effect of the Danpalon® rainscreen contributes to the lightness. It's an interesting material in terms of the shifting reflections and the immateriality it creates. Initially, the project was conceived with a PROJECT free-standing glass solution. But this would have been much too expensive. PROJECT CLIENT The polycarbonate cladding helped to CITY OF LULLY (Switzerland) balance the budget for the project.

Is there a sustainable development aspect to the project?

PDB: That's a fashionable concept! But yes, the building has a wooden frame, prefabricated in the workshop and insulated. The Danpalon® rainscreen creates a watertight skin to which we fixed letters of the alphabet. INSTALLER That's the fun educational touch a school project needs!

- +41 (0)21 801 21 60
- www.lullv.ch



PROJECT MANAGER

- PASCAL DE BENOIT ■ Pascal de Benoit
- & Martin Wagner Architectes SA

RENOVATION

- Morges (Switzerland) **+**41 (0)21 647 30 80
- architectes@debenoit-wagner.ch
- www.debenoit-wagner.ch

FACETEC SA - Crissier (Switzerland) ■ +41 (0)21 636 19 19 ■ infocrissier@facetec.ch

- www.facetec.ch







3 Questions for

David Memin TECHNICAL OFFICE MANAGER

CIBETANCHE

Was this your first experience with this polycarbonate facade cladding?

We had done projects with Danpalon® rainscreen before, but never with different coloured panels. It required more careful organisation on site and a good knowledge of the products' mechanical properties. For example, the different colours do not have the same heat absorption capacity. which affects the techniques used.

Is the product well suited to renovations?

The product is just as easy to install in new-build or in renovations, as long as the layout work is correct, as the product has a much better aesthetic with an even surface. What's more, as we were working on an existing building, the Danpalon® rainscreen panels did not correspond to the width of the existing openings. This required extra care in cutting the panels, as the architect wanted the cladding panels to cover the whole height of the building (6,840 mm).

How was the exterior thermal insulation achieved?

To avoid any nasty surprises, we took measurements in advance and tested whether the fixings could be dislodged. We then fixed the Danpalon® rainscreen framework (connectors) to the existing concrete structure, which itself was covered with a mosaic of small 5x5 tiles, before inserting our insulation and positioning the Danpalon® cladding, adding about 25 cm to the thickness of the building.

or the town of Descartes (In- Energy sieve a strong political gesture. Why? apartments dating back to the 1960s, "The site, which covers 9,000 m², lies with the occupants in residence. A real at the meeting point between two for- energy sieve whose performance had to the work are currently in progress. Most mer municipalities, which have now be improved, while making the new ex- of them include colourful Danpalon® rainmerged. The project client thus want- terior "a strong visual signal", recalls the screen solutions. ed to create an ensemble that would architect. "This dual requirement guided be very graphic and colourful," sums us in the choice of thermal insulation for up the architect, Stéphanie Gherissi. the exterior, which we clad with Danpal-

dre-et-Loire), renovating the The firm SG Design Architecture was en-La Chartrie site to improve trusted with the first phase of the work, its energy performance was renovating a two-storey block of eight

on® rainscreen in several colours: orange, bronze and clear with iridescent gold." The result? A striking building whose colourful, iridescent appearance changes with the time of day... with energy savings approaching 30%. Further phases of



CITY OF DESCARTES ■ +33 (0)2 47 91 42 00 ■ mairie@ville-descartes.fr ■ www.ville-descartes.fr

PROJECT MANAGER

STÉPHANIE GHERISSI

■ Architectes SG Design Architecture ■ Tours (France) ■ +33 (0)2 47 66 81 41

www.sg-design-architecture.fr

INSTALLER

DAVID MEMIN

Cibetanche Agence de Descartes

Descartes (France)

■ +33 (0)2 47 92 97 37 ■ secretariat.centre@cibetanche.fr ■ www.cibetanche.fr



1 VILLA BRITANIA APARTMENTS. TOULOUSE (FRANCE)

Ventilated Rainscreen, Danpalon® BRV 12, 600 mm, red, 163 m²

FONTA PROMOTION IMMOBILIÈRE PROJECT CLIENT

Toulouse (France) +33 (0)5 34 40 24 02 fonta@fonta.fr www.fonta.fr

PROJECT MANAGER ATELIER JF MARTINIE (SCP) Toulouse (France) +33 (0)5 62 48 61 31 contact@martinie.fr www.martinie.fr

GENERAL ENGINEERS

BUREAU VERITAS Toulouse (France) +33 (0)5 61 31 57 00 www.bureauveritas.fr

2 MULTICULTURAL SPACE.

Ventilated Rainscreen, Danpalon® BRV 8, NARBONNE PLAGE (FRANCE) 600 mm, red, 260 m²

PROJECT MANAGER

AGENCE P. DEFFAYET ARCHITECTURE & PAYSAGES Narbonne (France) +33 (0)4 68 32 90 86 deffayet@wanadoo.fr

ALAIN ESCRIVA Narbonne (France) +33 (0)4 68 40 94 33

■ INSTALLER

MÉTALLERIE COURCIÈRES Narbonne (France) +33 (0)4 68 41 75 50 contact@courcieres.fr www.courcieres.eu

3 MAIDAGAN PARK. GETXO.

Canopy, Danpalite multicoloured, 705 m²

■ PROJECT MANAGER
KEPA SACRISTAN Bilbao, (Spain)

+34 (0)9 4413 0668

■ INSTALLER

Ventilación, Estructuras y Montajes Burgos (Spain) +34 (0)9 4751 2012

presupuestos@vemsa.es www.vemsa.es

GENERAL ENGINEERS

ARCAIN

Leioa (Spain) +34 (0)6 8260 1577 arcain@arcain.es www.arcain.es







Mixing MATERIALS WHEN OLD DORMITORIES

BECOME HALLS OF RESIDENCE

P18-19

HIGH-END

RENOVATION

AND EARTH

BETWEEN HEAVEN

FLAWLESS VISIBILITY

INVISIBLE CHAPEL

hen Danpalon® combines with other materials, it's never just a coincidence. The blends dreamt up by project designers result in buildings with unique aesthetics, favouring wood/polycarbonate or polycarbonate/metal construction systems. Buildings that take the best from each material – the warmth and softness of wood or the strength of metal - to create a primary structure which provides the setting for the luminosity and translucency of polycarbonate cladding. How to highlight a structure by enhancing it through clever little touches...

WHEN OLD DORMITORIES

BECOME HALLS OF RESIDENCE

Laval agricultural college ■ Laval (France)

Goodbye dormitories, hello halls of residence! At the Laval agricultural college (Mayenne), nearly 350 students can now sample the charms of this new building whose aesthetics rival those of conventional housing.

uilt using a modular prefabricated wood system, the new accommodation block at the Laval agricultural college is part of a protected site surrounded by huge expanses of fields just outside the town. "We were building on contour lines, which led to curved installations fitting the shape of the ground," explains Philippe Vaulet of the firm GDV Architecture (Charente-Maritime). Extremedelivered several months ahead of schedule. The use of wooden two-storey modules, built and finished in the factory, was largely responsible. "All we had to do was assemble them on site." summarises the architect.

Visual signal

To enhance the appearance of the building, the project manager incorporated Danpalon® rainscreen cladding on the staircase facades and the en- diffuses natural light through these trantrance porch. "We played with three sit areas," concludes the architect. ■ ly unusually, the project was colours - green, opal and clear. We

added a white masking finish to the inside skin of each panel for greater clarity." With its irregular framework, "the Danpalon® rainscreen adds a playful note to these tall towers," adds Philippe Vaulet. The four passageways linking the sleeping areas consist of a wooden framework clad with Danpalon® clear, opal and green panels that recall the colours of the staircase towers. "This adds lightness to the overall effect and





Interview

Lionel de Vannoise - SITE SUPERVISOR - ISORE BÂTIMENT

You were responsible for two separate aspects of the site. One was cladding the four passageways with Danpalon®. What were the challenges?

We had to fix two different colours of Danpalon® to the wooden framework. To fix the cladding, sometimes to framework 6.5 metres high, the structure had to be perfectly set up. This That might look simpler, because we required perfect coordination between the different roles. We also had to work without cut-outs. But we still had to

on positioning and integrating the windows (600x1200 mm) and smoke extraction ducts (1200x600) without disturbing the building's watertightness and airtightness.

How did the installation of the rainscreen system on the stairwells go?

were working with complete panels

deal with three different frame heights and three different colours. We also had to come up with a custom system, working with Everlite Concept, to ensure that rainwater run-off would not damage the facade. That was the main difficulty.



PROJECT

PAYS-DE-LA-LOIRE REGION

- **+33 (0)2 28 20 50 00**
- accueil@paysdelaloire.fr
- www.paysdelaloire.fr

PROJECT MANAGER

PHILIPPE VAULET

- GDV Architectes associés
- La Rochelle (France): +33 (0)5 46 67 18 8 ■ Nantes (France): +33 (0)2 40 73 77 20
- contact@gdvarchitecture.com



LIONEL DE VANNOISE

- Isore Bâtiment
- Saint Berthevin (France)
- **+33 (0)2 43 66 96 51**
- contact@isore-batiment.fi

HIGH-END

RENOVATION

Marius Régnier sports hall ■ Puteaux (France)

t the heart of the park on Puteaux island, the Marius Régnier sports hall lies alongside the new Palais des Sports pool, borders the Seine and enjoys breathtaking views over the Défense towers. To preserve the ageing hall, the municipality wanted to renovate the building. It entrusted the task to the firm Axis Architecture. "Despite an interesting construction principle, with a main structure of laminated wood consisting of curved gantries, the gymnasium suffered from a high level of energy loss and an almost total lack of natural light. Moreover, the facade of timber panels was flat, with no relief," explains the architect, Tanguy Rodier.

New translucent skin

To preserve the architectural identity of the timber building, ensure good thermal performance and, above all, introduce more light, the architect retained just the basic struc-

ture and designed three new facades consisting of glazed strips at the bottom of the walls "to conserve the views over the park" and Danpatherm K7 ice Softlite curtain walls with excellent impact resistance (interior O3). "This solution provided diffused natural light perfect for use in a sports hall because of the anti-glare nature of the material," sums up Tanguy Rodier. To counter the direct light, the project manager also fitted a timber sun screen in front of the Danpatherm K7 panels. These timber strips "are single pieces, some of them up to 8 metres tall," adds the architect.

Respect for the timber structure

"Apart from its translucency, the neutral colour of the polycarbonate emphasises the curves of the wooden timber structure and the external metal posts," explains the project manager, who chose to ensure the Danpatherm K7 was installed in a simple form in order to emphasise the shape of the structure. "The lightweight nature of the product made it easy to install, especially at the high level, diagonal sections," he concludes.

The PROJECT

PROJECT CLIENT

CITY OF PUTEAUX

- www.puteaux.fr
- +33 (0)1 46 92 92 92

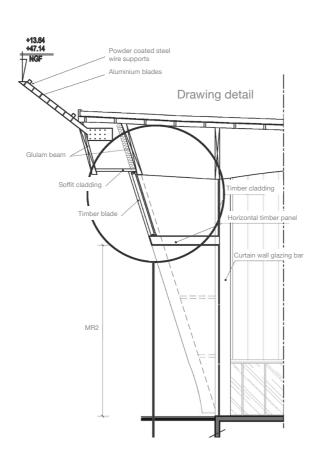
PROJECT MANAGER TANGUY RODIER

- Axis Architecture
- Serris (France)
- +33 (0)1 60 43 26 46
- axis77@axis-architecture-77.net
- www.axisarchitecture.net

INSTALLER

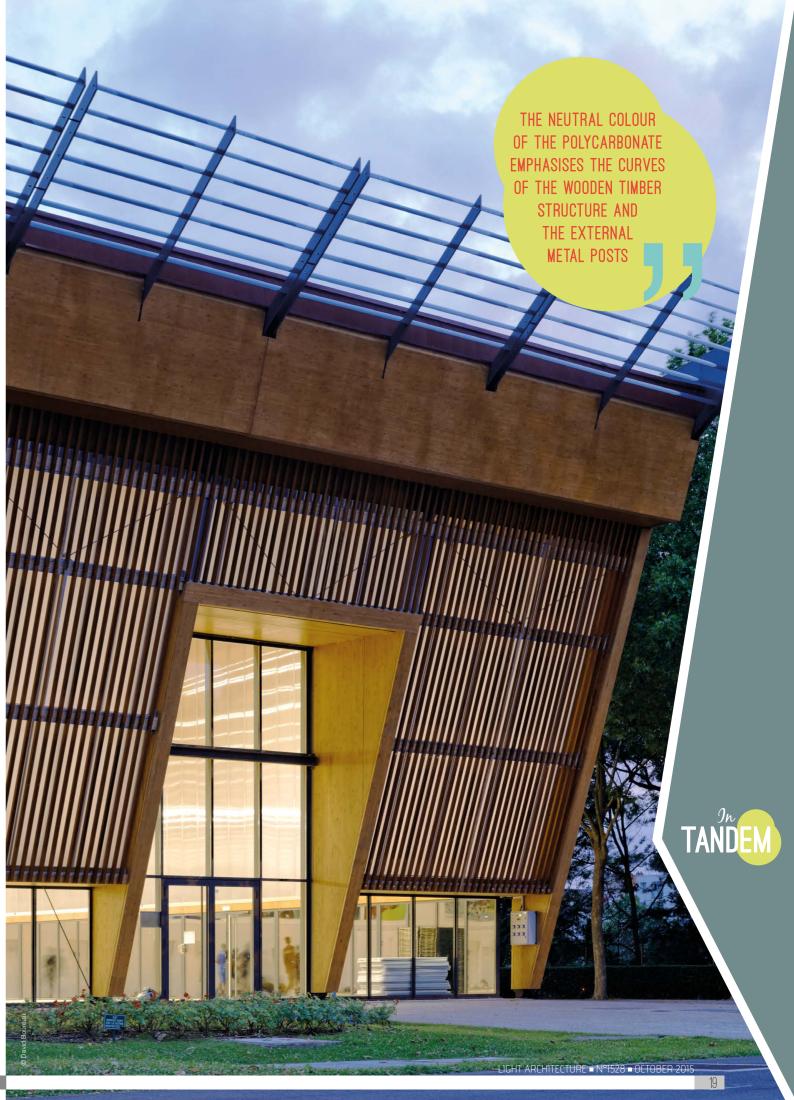
JOLY SAS ■ Saint Marcel (France)

- **+**33 (0)2 32 51 40 30
- $\blacksquare \ contact@jolysas.fr \ \blacksquare \ www.jolysas.fr$









BETWEEN

HEAVEN AND EARTH

Energy Recovery Facility ■ Suffolk (United Kingdom)

In the county of Suffolk, in Eastern England, the new waste treatment facility blends gently into the surrounding countryside. The Danpalon® facade is complemented by the aluminium aerofoil sun screen which contributes to the harmony of the whole building.

he construction of waste treatment facilities were often associated with unsightly buildings, noise pollution and other aspects of large treatment plants that would cause anxiety to local residents. But in the case of the Suffolk ERF, managed by Sita UK, the client and the project management team have succeeded in producing a facility that blends into the surrounding countryside. And that's not all - the plant provides economic and environmental benefits for the region, recycling and recovering over 269,000 tonnes of waste each year. The facility also generates electricity for 30,000 homes.

"The creation of this development has significantly reduced the use of landfill and reduced the costs to the taxpayer inherent in this method of disposal of household waste," says Stephen Davis, Buildings and Architecture Design Manager at Tata Steel Projects. The complex is divided into two separate entities; the central building, which contains the treatment plant and the incinerator (60 metres long by 30 metres wide), and the front

section of the building, which houses an education centre designed to raise awareness of the benefits of recycling. "The complex is right next to the Gipping valley natural park. This meant we had to create a balanced building, an industrial site that would respect the surrounding environment without creating significant impact," explains Stephen. In addition the project achieved a BREEAM excellent rating.

The Grimshaw firm of architects who were commissioned to design the concept, worked to create an aesthetic for the central building that would blend into the English sky and reflect the changing patterns of the clouds. To achieve this, the architects conceived a mixed solution consisting of a primary facade of Ice Danpalon® with a Softlite finish, creating an effect of transparency that recalls the colour of a cloudless sky. The facades were then entirely covered with horizontal aluminium aerofoils each set at a slightly different angle to the next in order to create a 'shimmer' whilst also shading from the sun.

The idea was to add depth to the building while injecting a dynamic aesthetic. "To accentuate the uniqueness of the facade, each of the sun-shades were positioned at incremental angles, creating an effect of volume and shine. These contrasts emerge as a v-shaped pattern to each elevation, harmonizing the building within the skyline and land-scape" concludes Stephen.

The PROJECT

PHUJEUI

PROJECT CLIENT SITA UK

■ Maidenhead (UK) ■ +44 (0)1 62 851 3100 ■ www.sita.co.uk

PROJECT MANAGER

GRIMSHAW ARCHITECTS ■ London (UK) ■ +44 (0)2 07 291 4141 ■ info@grimshaw-architects.com

STEPHEN DAY

■ Tata Steel Projects – Principle Design Consultant
■ York: +44 (0)1904 454 600
■ tatasteelprojects@tatasteel.com
■ tatasteelprojects.com

INSTALLER

CA GROUP LIMITED

Evenwood (UK) +44 (0)1 38 883 4242

info@cagroup.ltd.uk www.cagroupltd.co.uk





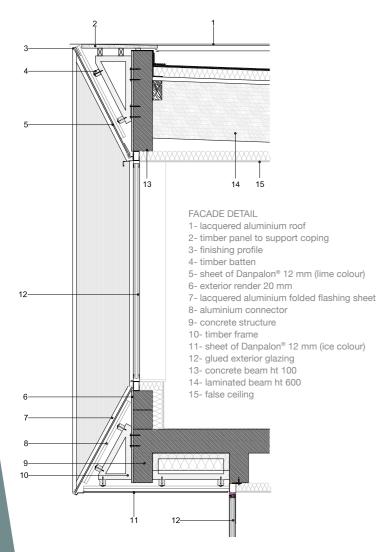




FLAWLESS

VISIBILITY

Pharmacy and doctors' surgery ■ Gruchet-le-Valasse (France)







This generously sized building (600 m²), which includes a pharmacy and four doctors' consulting rooms, is not the type of enterprise you expect to find in a retail park. Architect Pascal Desplangues of the firm Bettinger-Desplangues Architectes had to do everything he could to optimise its visibility.

The **PROJECT**

PROJECT CLIENT SCI PAMEB - Alvimare

PROJECT MANAGER Atelier Bettinger Le Havre (France) = +33 (0)2 35 43 31 46 www.atelier-bd.fr

INSTALLER SARL VAUTIER - Mannevillette (France)

+33 (0)2 35 20 38 35 menuiserie@sarlvautier.com www.vautiermenuiserie.com

PROJECT COST 505,000 € EXCL VAT (excluding landscaping)

PROJECT AREA 478 m² (doctor's surgery: 186 m², pharmacy: 292 m²)

How did you go about making the building stand out visually in such a diverse, disjointed environment?

The pharmacy, which also includes four medical consulting rooms, is located in the huge retail park of Gruchet-le-Valasse. It is a varied, dense environment characterised by a succession of shop signs! The building thus needed to be perfectly legible and visible for drivers to see it. The choice of a two-storey building quickly became obvious. Then, in order to make the main facade stand out from its surroundings, we designed a composition of inclined surfaces based on a timber frame covered with lime Danpalon® microcellular polycarbonate rainscreen, recalling the colours in the staffrooms, but above all it allows us to pharmacy's visual identity. This gave create extra height and bring natural

ing transparent effect. The surfaces on there is no ceiling between the the ground floor are punctuated with vertical openwork wood cladding.

Composing a facade with oblique planes is never easy...

That's right; the interior angles are quite complex to achieve. What's more, the facade required us to create custom fixing pieces. However, despite the technical difficulty, we don't regret our decision at all - we would never have got the same effect and the same depth of colour with painted sheet metal cladding.

What is upstairs?

This space houses stockrooms and us a light appearance and an interest- light into the sales area, because

ground floor and the first floor!

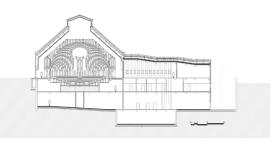
For the side facades, you chose Danpalon® ice rainscreen cladding. Why?

The transparency of the material adds softness and depth to the building, especially as there is an air gap of nearly 15 cm between the primary concrete structure and the Danpalon® ice panels. In this gap, on one of the facades, we installed an illuminated cross using green LEDs. At night, the pharmacy sign appears through the

INVISIBLE CHAPEL

Namseoul Church Missionary Center ■ South Korea

Inside this contemporary building is an incredible chapel with its choir decorated with suspended trunks of red cedar. Thanks to its pyramid-shaped Danpalon® roof, the space is saturated in gentle light, dubbed "the Light of Life".



hirty kilometres from Seoul fice (housing a chapel, about a hundred bedrooms dedicated to spiritual retreat and a restaurant). From outside, nothing suggests the sacred nature of the space within. On the contrary, you could easily mistake it for an office building combining the transparencies of glass and Danpalon®. "These materials optimise the flow of light and blend the building

(South Korea), in a verdant mountain region, lies a stunning religious edisubtly into the mountains, as the Danpalon® crystal solution of the primary facade reflects the landscape," explains the architect, Hyung-Chul Shin. But here the Danpalon® also fulfils another function. Once inside the building, visitors discover a chapel known as "the Light of Life" beneath the pyramid-shaped Danpa-Ion® ice roof. Above the choir hangs an incredible array of 834 solid cedar trunks, suspended in the air by metal ropes with three spaces left clear to allow the light to enter. Here the Danpalon® diffuses a gentle, muted light, creating an atmos-

phere suited to meditation and

contemplation.



■ Facade and roofing, Danpalon® 12, 900 mm, clear, Danpalon® 10, 600 mm, ice, 3,500 m²

The **PROJECT**

PROJECT CLIENT

NAMSEOUL CHURCH MISSIONARY CENTER

■ Gyeonggi-do (Korea)

PROJECT MANAGER

HYUNG-CHUL SHIN

■ Shin Hyung-Chul & Shin Claire Shinslab

Architecture IISAC Seoul (Korea)

+ 82 (0)2 762 4623

shintch@gmail.com www.shinslab.net

INSTALLER

- E-LAND CONSTRUCTION CO.,LTD
- Seoul (Korea) +82 (0)2 3219 9483
- dsieong@eland co kr = www elandconst co kr





The architecture of the new Max restaurants incorporates an external band of curved polycarbonate, emphasising the rounded shape of the dining room and helping to protect the facade against the sun.

ax? An institution in Sweden was founded in 1968 in the north of the country. The fast food chain initially concentrated on growing locally before extending its catchment area to the whole of Sweden in the mid-90s. Its success has even forced McDonald's out of several Swedish towns. Today the group has about a hundred restaurants in its home country and has also spread abroad to Norway, Denmark and the United Arab Emirates (seven restaurants).

Architectural unity

Although the group's first restaurants were all designed according to the same architectural model, with a sharply sloping roof, the new premises have opted for a more contemporary architectural style based on curves and natural light. This has been the focus of architect Pontus Lomar, of the Lomar Architekter firm, in his designs for twenty new restaurants. "These rounded buildings generate a positive architecture, and the Danpalon® band (orange, opal or green) surrounding the facade contributes to this. It is a strong

visual signal, both day and night, in the urban landscapes where these restaurants are usually located," explains the architect, who chose the product for its lightness and flexibility. The translucency of Danpalon® enlivens the building's facade with the sun's reflections throughout the day.



PROJECT CLIENT

PROJECT

MAX RESTAURANTS (Sweden) www.maxburgers.com



PROJECT MANAGER PONTUS LOMAR

Lomar Arkitekter Stockholm (Sweden)

46 (0)8 447 77 70 www.lomar.se pontus lomar@lomar.se



100 % SPORT

Thankfully, the days when athletes had to contend with stifling heat in summer and freezing draughts in winter are long gone. Today's buildings rely on high-performance thermal solutions to achieve real comfort and provide diffused natural light aswell as interesting and beautiful aesthetics.

AN ELEGANT

SASH

Les Galets multi-purpose hall ■ Chalampé (France)

The extension and updating of the multi-purpose hall in Chalampé (Haut-Rhin – East of France) was an opportunity to create a building with multiple, colourful reflections.

Our task was to upgrade the Chalampé multi-purpose hall to the latest standards, and to add new spaces to the building," explains architect Serge Gaussin. The firm SGA Architectes took advantage of these requirements to create a new structure that stands out from its surroundings. "With its cast concrete shell, the architecture of the former building was seen by residents as commonplace and old-fashioned. To overcome this, we decided to combine an extension with a coloured canopy running like a sash along the structure," adds Serge Gaussin.

The result is a refreshing building brought to life by a five-colour Danpalon® rainscreen cladding strip. While orange is the most prominent colour within the facade, the architect also added green, red, purple and yellow Danpalon®.

"At night, the building takes on a whole new dimension thanks to the light emanating from inside. To accentuate the nocturnal effect, we integrated lighting into the canopy ceiling," adds the architect. The project manager was also keen to introduce additional windows within the facade and we took advantage of the fact that the Danpalon® is so easily cut on site to allow us to integrate the glazing.

AN ORIGINAL SIGNATURE

To emphasise the new name of the multi-purpose hall, "Les Galets", an image of pebbles was digitally printed on 78 m² of Clear Danpalon® cladding to great effect and at night the lighting completes a great aesthetic.





PROJECT CLIENT

CITY OF CHALAMPÉ ■ +33 (0)3 89 26 04 37 ■ mairie@chalampe.fr ■ www.chalampe.fr

PROJECT MANAGER

SERGE GAUSSIN ■ Serge Gaussin & Associés/SGA Architectes

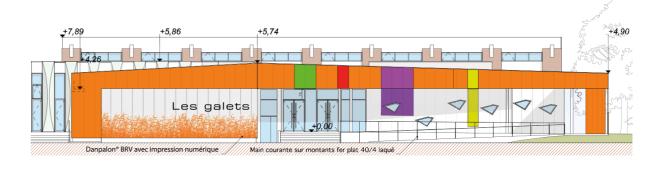
■ Mulhouse (France) ■ +33 (0)3 89 36 56 20 ■ gaussin-associes@sgaarchitectes.fr



SMAC ■ Wittenheim (France) ■ +33 (0)3 89 53 45 88 ■ mulhouse@smac-sa.com ■ www.smac-sa.com













A TECHNICAL FOCUS INTEGRATED COLOURED BOXES ...WITHOUT PIERCING THE FACADE

colourful purple, yellow and lime green Danpalon® boxes pass directly through the facade. How-

It may appear as though these and that 'half-boxes' of coloured Danpalon® could then be added, to both inside and outside of the facade. The project required cusever, they don't. Although this tom detailing and modification to was the architect's initial idea, the
the Danpalon® fixing components project was modified in order to which were specially adapted retain the building's air and wa- while the Danpalon panels themter tightness. In order to create selves were routed in the factory the illusion, Everlite Concept's to make them easier to fold on engineering team suggested site. The installers then fixed these that Atelier Po&Po install a con- 'half-boxes' to the main structure tinuous Danpalon® ice facade, as simple decorative elements.



INTERCOMMUNAL ASSOCIATION OF THE PARK AND SWIMMING POOL OF VAUROUX ■ Mainvilliers/Lucé (France) ■ +33 (0)2 37 18 56 80 ■ www.am28.asso.fr

PROJECT MANAGER

JEAN-LUC CALLIGARO, BRUNO PALISSON ■ Atelier Po&Po ■ Paris (France) +33 (0)1 42 89 50 39

■ bpalisson@poetpo.com ■ jlcalligaro@poetpo.com www.poetpo.com

THERMAL ENGINEERS

CD2i ■ Toulouse (France)

GENERAL ENGINEERS

C2CI ■ Servon (France) ■ +33 (0)1 60 34 60 53 ■ contact@c2ci.fr ■ www.c2ci.fr

INSTALLER

SOPREMA ■ Mignières (France) ■ +33 (0)2 37 28 46 20 ■ travaux-chartres@soprema.fr ■ www.soprema-entreprises.com



Why was it closed?

Because of its dilapidation. Several concrete pillars were located outside without being insulated, which created thermal bridges and water run-off that damaged the metal structure and tiebars and led to parts of the suspended ceiling collapsing. The original facade had very poor thermal performance.

Why did you retain the concept of a polycarbonate facade, which had already been used for the previous pool?

The old pool had an incredible wealth of affection. We retained the spirit of the existing building while giving it a new image by using a contemporary material with better durability and thermal performance. The Danpalon® ice diffuses a soft light throughout the pool area, and as the building is bordered with trees the sun projects a play of shadows into the interior, adding interest to the surroundings of the pool.

Where did the idea come from for the coloured cladding standing out from the facade?

It is not just an exterior cladding, as the same colours, purple, yellow and lime green, are also found inside. We developed the idea of coloured boxes with the Everlite Concept engineering team to add a note of originality!

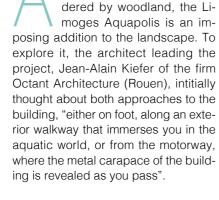




OLYMPIC **GLAZING**

Aguapolis aquatic centre Limoges (France)

In early 2015, Limoges opened its brand new aquatic centre, baptised Aquapolis, which welcomes both professional athletes and the public to use it's 50-metre Olympic pool beneath a majestic curving glazed roof.



longside the A20 motorway on a one-kilometre plot bor-



Inside, visitors can admire the combination of timber and metal structure at their leisure, pierced in the centre by a curved double Danpalon® window 70 metres long by 12 metres wide. Hugging the form of the roof, the opening diffuses a beautiful natural light across the Olympic pool. "Beneath the glazed structure, large galvanised steel rings evoke the shape of the Olympic rings," adds the architect. The ambition exuded by the building is matched by it's purpose and is set to host high-level competitions. Last March Aquapolis welcomed the French national swimming championships. A powerful symbol for the region.

■ Roofing double skin, Danpalon® 16, 900 mm, clear Softlite, Danpalon® 22, 900 mm, clear

■ Facade, Danpalon® 16, 600 mm, ice, Danpalon® 10, 600 mm. clear. 1.706 m²

PROJECT CLIENT

CITY OF LIMOGES

- ■+33 (0)5 55 45 79 00
- www.agglo-limoges.fr



PROJECT MANAGER

JEAN-ALAIN KIEFER ■ Octant Architecture

- Rouen (France) +33 (0)2 35 59 64 40 octant@octant-architecture.fr
- www.octant-architecture.fr

EMMANUEL DUTHEILLET DE LAMOTHE

Architects associates

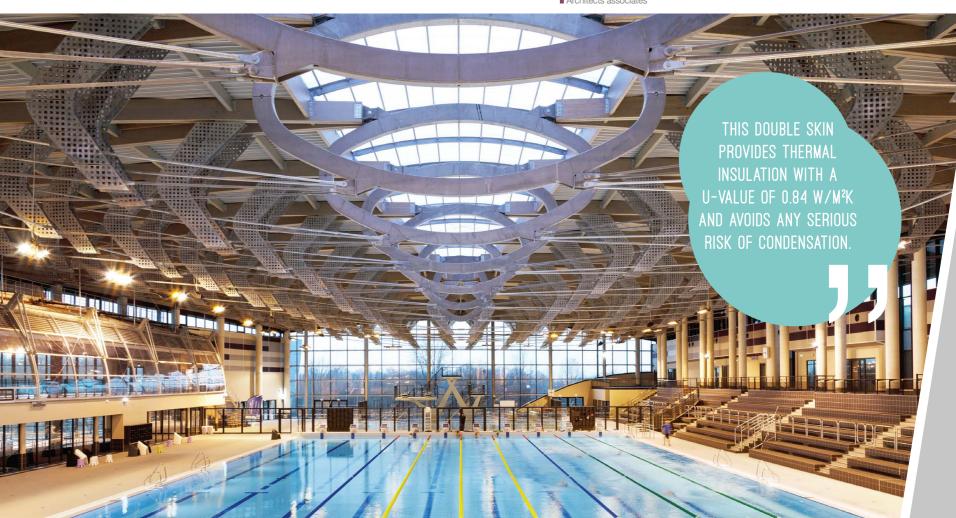
INSTALLER

ARNAUD PEYNOCHE & ERIC COMBES

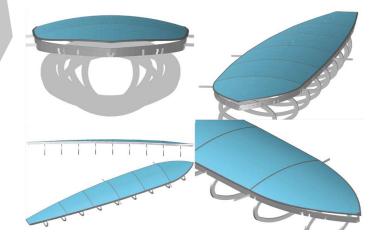
The

PROJECT

- Smac Limoges Limoges (France)
- +33 (0)5 55 33 48 35
- info@smac-sa.com
- www.smac-sa.com







3 Questions for

ERIC COMBES, DESIGN/METHODS & ARNAUD PEYNOCHE, EXECUTION OF WORKS

Why did you choose double Danpalon glazing?

filled polycarbonate sheets. Finally, by opting for a double-skin Danpalon® structure we limited the risk of leaks, because there were fewer drainage any serious risk of condensation. profiles to be installed.

What are the structure's characteristics?

22 mm thick Danpalon®, (this thickness ensures excellent load bear capability and flatness for rainwater

drainage), with an inverted anti-UV treatment, and an internal layer of Initially, we planned to use nanogel Danpalon® clear 16 mm thick with a Softlite finish. This double skin provides thermal insulation with a U-value of 0.84 W/m²K and avoids

Did you have any particular problems installing this glazed structure at such a height? It consists of external panels of clear (Editor's note: nearly 20 metres)?

We had to produce a lifting beam to hoist the panels and fix them to the metal framework without damaging them (some are over 10 metres long). During installation, the structural crane was still in place, passing through the area where the glazing was supposed to go! This did not prevent us from making progress, as we first installed the Danpalon® to the two ends, completing the facade with the central panels. However, as the facade is curved in both directions, we had a little more difficulty fitting the external panels, but in the end it all went very well.



REINTERPRETING THE CODES

OF A TRADITIONAL PARIS BUILDING

Housing in Rue Petit and Rue Hautpoul ■ Paris (France)

This was the challenge for Michel Ferranet Architectes, and the architect responded by using Danpalon® opal rainscreen cladding.





The **PROJECT**

PROJECT CLIENT

SIEMP Paris (France) +33 (0)1 42 77 20 20 information@siemp.fr www.siemp.fr

PROJECT MANAGER

MICHEL FERRANET

- Agence Michel Ferranet Architectes
- Paris (France)
- +33 (0)1 40 21 69 73
- contact@michelferranet-architecte.com
- www.michelferranet-architecte.com



JFR ■ Bondy ■ +33 (0)1 48 50 51 51 ■ contact@jfr-sas.fr ■ www.jfr-sas.fr



INTERVIEW - DIRECTOR OF MICHEL FERRANET ARCHITECTES

Michel Ferranet

Is it difficult to build in a very urban setting?

into account. This corner building in the 19th arrondissement of Paris consists of nine affordable apartments. (from one to five rooms) and covers Paris context, with tall windows and a on the sun to enliven the building. an area of 872 m². To avoid over- zinc roof. But rather than a traditional powering the existing buildings, we chose to separate it from the adjacent block in Rue Petit by installing render, we opted for a more contemporary facade cladding, Danpalon® opal rainscreen, which offers a surprising building, but not here. Why not? an outdoor staircase. Our Danpalon® rainscreen cladding only rises to the second floor at this point, creating a Does rendering not allow breathing space.

Was the choice of a light-coloured cladding part of this integration?

codes of Paris buildings while reinterpreting them. We thus designed a building in a light colour, fitting with the degree of depth.

same degree of life to a facade. The milky white colour of the Danpalon® You have to take the overall volumes We wanted to respect the traditional opal rainscreen cladding plays with the light and the way it catches the surface. In addition, the street facades face north-east, so we couldn't count

We chose a 1,040 mm framework, which corresponds to the width of the windows. We then cut the cladding panels to fit the window aprons so that A mineral cladding does not bring the we could include lacquered aluminium cladding, evoking the cornices of old Parisian buildings.

Did you encounter any resistance from the project client?

We had to reassure the client about the material's durability. The self-cleaning property of Danpalon® rainscreen cladding and the ease of replacing a panel in the event of damage finally convinced him. From our point of view, it was an interesting experience to install it in an urban environment which is subject to a variety of exposed and differing environments.





PROTECTIVE

BARRIER

Isaac Newton Academy ■ Ilford (United Kingdom)

To improve the educational environment of the Isaac Newton Academy primary school in Ilford, the architect has insulated part of the brick building by covering it with a Danpalon® rainscreen facade. The facade extends upwards from the roof to create an outdoor space protected in the same way. Quite a surprise!

he architecture firm Pollard Thomas Edwards has confor the Isaac Newton Academy in Ilford, in London's eastern suburbs. a primary school, a secondary school Whitley had to fit the primary school

ill-suited to its young population, with ceived an astonishing project noisy streets and a working fire station nearby. To overcome the problematic location, Simon decided to insulate
To achieve this, the architect designed In building this complex, consisting of the street-facing building as much as a two-storey building with a primary possible while conserving some of brick structure, to which he attached a and a sixth form, architect Simon its overall architectural unity, which included building the ground floor

into an urban environment that was from the same red brick as the facade of the existing secondary school.

Protective cocoon

Danpalon® opal and clear rainscreen cladding with a Softlite finish about sixty

centimetres away from the building. The first floor houses common areas, such as the canteen, but the surprising aspect of the project lies in the ar-

chitect's desire to give the Danpalon® rainscreen cladding a second function as the walls of a sports pitch located... on the roof! The Danpalon® rainscreen

equivalent of an additional storey, en- ed beacon, reflecting the lights of the closing the roof and creating outdoor space. While perfectly sheltered from the noise and the wind, the children are still aware of movement outside passing through the translucent cladding. When night falls, the Danpalon® facades thus extend upwards for the rainscreen facades act as an illuminat-

street and the traffic. Far from contenting himself with the austerity inspired by a brick facade, the architect has successfully modernised and brought and can make the most of the light to life the image of the Isaac Newton Academy and made its pupils' lives more comfortable.





The **PROJECT**

PROJECT MANAGER

SIMON WHITLEY GEORGE SCOTT

- Pollard Thomas Edwar
- Diespeker Wharf London (UK)
- **+**44 (0)2 07 336 7777
- www.ptea.co.uk mail@ptea.co.uk

INSTALLER M CLARKE FACADES

- Antrim (UK)
- **+**44 (0)2 82 582 2500 office@mclarke.co.uk
- www.mclarke.co.uk



LET THERE BE LIGHT!

WE-EF ■ Satolas-et-Bonce (France)

Sometimes a facade cladding might not be an end in itself. but rather a means of expressing light. This trend can be seen among architects who are keen to create buildings that have a visual impact both during the day and at night. Buildings that illuminate, diffuse and reflect the light thanks to increasingly ingenious systems of back-lighting or LEDs able to create infinitely flexible curtains of light.

3 Questions for **AUDREY PALLIN**

ARCHITECT AT SECOBAT

Is it a head office or a factory? This building looks as if it could be either...

Both! The building is both the new French head office of the German industrial group WE-EF, which manufacturers urban lighting systems, and also its production site. The client wanted the building to reflect the group's corporate culture whilst demonstrating its products.

How did you convert this brief into reality?

We designed a robust, harmonious building using concrete. This style can also be found in the interior, where the structure remains visible, mirroring the ethos of the company's products: very reliable with no "frills". We then designed a lighting scenario, choosing a polycarbonate solution, Danpalon® ice, which is a canvass for the lighting and provides a lighter touch to the northern facade with three large openings five metres high.

So the Danpalon® is not so much an end in itself as a means of diffusing light?

Yes. We inserted LED light elements in these openings (externally, at the base of the facade), which produces a bluish light. The multicells and transparency of the Danpalon® catch the light particularly well and spread it uniformly across the whole height of the facade. We used single-height panels that are wide enough (900 mm) to limit the number of joints required.







PROJECT MANAGER

- AUDREY PALLIN
- Reventin Vaugris (France
- +33 (0)4 74 15 98 15
- apallin@secobat.com www.secobat.com

PROJECT CLIENT

- WE-EF Satolas-et-Bonce (France)
- **+33 (0)4 74 99 14 40**
- Info france@we-ef com
- www.we-ef.com

INSTALLER

- **BREUIL SA**
- Charnay-lès-Mâcon (France)
- +33 (0)3 85 20 55 20
- contact@breuil-metallerie.fr
- www.breuil-metallerie.com

DANPATHERM K7 WITH BUILT-IN LEDS Based at the same site, the company Flux Lighting specialises in producing fibre-optic lighting and exterior accent lighting. To show off its products, the project client decided to design a wall of colour-changing LEDs. The architecture firm installed a 75 m² facade of Danpatherm K7 7.2 metres high. The LEDs were installed inbetween the two layers of the cassette whilst to enable easy access for maintenance, the structure of the Danpatherm K7 panels was modified at the top. Two finishes were used: clear Softlite for the interior and ice Softlite for the exterior.



ZENITH SPORTS CLUB

■ Seoul (Korea)

A Korean architectural practice has come up with an off-the-wall idea for a golf course: several practice levels rising into the sky like a flying saucer. The futuristic effect is accentuated by the use of brightlycoloured LEDs built into the Danpalon® roof structure.

PROJECT CLIENT

TO WOO IN CONSTRUCTION CO, LTD

- Seoul (Korea) +82 (0)2 851 2434
- hangjo2002@naver.com

PROJECT MANAGER

YEWON DESIGN GROUP . Seoul (Korea)

■ +82 (0)2 443 8205 ■ lublna@empal.com





A NEW NOCTURNAL LOOK

Melvin Sports Complex, Strabane District Council ■ Northern Ireland

Sacrifice function to form? Out of the question! The Melvin Sports Complex in Northern Ireland successfully combines both requirements.

ocated in the town of Strabane in Northern Ireland, the Melvin needed urgent renovations. The operation was led by McGurk Chartered Architects, who wanted to restore the centre's modern image while creating an extension that would include four new sports courts. "More globally, the project aimed to optimise the quality of the town's sporting infrastructure and allow it to host local and regional competitions," explains Colm McGurk.

User comfort

For the extension, the architects recommended using Danpalon® doubleskin panels on the three

main facades, "This translucent solution bathes the main space in diffuse natural light. We also chose two differ-Sports Complex ent Danpalon® finishes, the exterior surface is clear with a Softlite finish, while the interior is a soft ice colour." explains the architect. As well as the futuristic way!

concept of user comfort, the firm also worked on the product's nocturnal presentation by incorporating several lighting effects into the extension's facades. At night, the building comes to life in a decidedly stylish and







- COLM MCGURK
- McGurk Chartered Architects
- Magherafelt (UK) +44 (0)2 87 930 1126
- info@mcgurk-architects.com
- www.mcgurk-architects.com

INSTALLER

EDGELINE METAL ROOFING LIMITED

- Magherafelt (UK)
- **+**44 (0)2 88 674 8455
- david@edgelineroofing.com

www.edgelinemetalroofing.com

SUCCESSFUL CLIMATIC

ADAPTATION

Isokarhu shopping centre

■ Pori (Finland)

The project manager of this shopping centre located in Pori, Finland, used tough materials which are able to withstand the Nordic climate. His choice was Danpalon® rainscreen, ideally suited to this requirement.

ne of the project client's specifications was the use of high-quality materials that can stand up to the country's climatic conditions, which include harsh winters with heavy snow but also warm summers, with temperatures approaching 30°C. To avoid overloading the building in snowy conditions, the architect had to limit as far as possible the weight of the facades covering the primary structure of the new Isokarhu shopping centre in Pori, Finland. "Danpalon® rainscreen, used for the signage of the shopping centre, is both light and solid and has a structure suited to the Finnish climate," explains Sergej von Bagh, an architect at the Finnish firm of BST-Arkkitehdit Ov. When it came to choosing colours, the project manager took a pragmatic approach: the black Danpalon® rainscreen indicating the entrances to the centre corresponds to the visual identity of the client's Isokarhu shopping centres. "As for the blue cladding, that is just there to indicate the car park entrances," adds the architect, who also appreciated the translucent ambience of the Danpalon® rainscreen cladding. "The light passing through the panels creates very aesthetic material effects. This lightness contrasts with the solidity of the medium," continues von Bagh, who intends to use Danpalon® rainscreen again on another project very soon.

The **PROJECT**

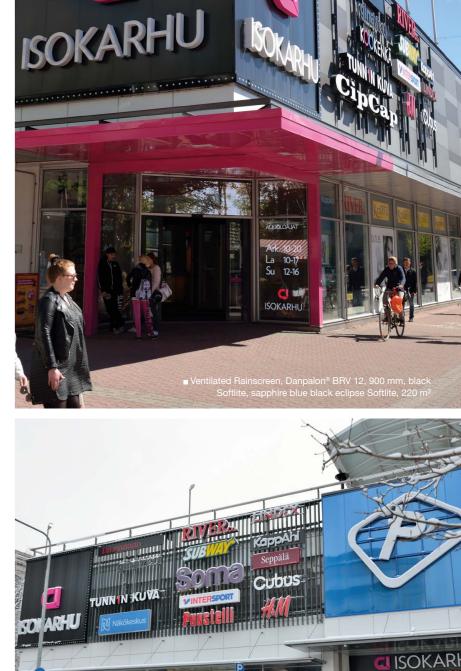
PROJECT MANAGER

SERGEJ VON BAGH

- BST-Arkkitehdit Ov ■ Tampere (Finland)
- +358 10 439 7500
- sergej.vonbagh@bst-ark.fi www.bst-ark.fi

INSTALLER

- Harjavalta (Finland)





- ASTORA-RAKENNUS OY
- **+**358 (0)44 755 7869
- www.astora.fi
- mika.rajamaki@astora.net

A MEMORIAL

AND A SYMBOL

ACTe slavery memorial ■ Pointe-à-Pitre (Guadeloupe)



Silver roots on a black box" is how the architect Fabien Doré of the firm Doré et Marton defines the architectural concept of M.ACTe. The Caribbean centre built in memory of the slave trade, opened on 10 May by the French president, François Hollande. Built on the site of a former sugar factory, the 7,124 m² structure lies by the sea in Pointe-à-Pitre. "In Guadeloupe, we have a tree, the 'figuier maudit' or cursed fig, which takes root in ancient ruins, history, culture

and heritage. We used this to defines the colonial history of the island. The roots, which symbolise the future, are represented by aluminium cladding surrounding a black box, a concrete structure covered with a granite skin, a symbolic homage to the victims of the slave trade," explains Fabien Doré.

Emerald green

The architects were also tasked with incorporating a large terrace on the upper level for hosting receptions and cocktails. To decorate the terrace and

shelter guests against rain, the project manager decided to cover 254 m² of the area with an Empire green Danpalon® canopy. A restrained, elegant colour whose transparency contrasts with the nearby aluminium cladding. "In this space we insisted on simplicity and restraint, while designing a canopy with elegant curves," explains Fabien Doré. The benefits of the product? "Apart from its aesthetic qualities, the Danpalon® was given a surface treatment designed to resist the Caribbean sunshine." he adds.



The PROJECT

PROJECT CLIENT

- AREA COUNCIL OF GUADELOUPE
- Petit Paris (Guadeloupe)
- **+**33 (0)5 90 80 40 40
- www.regionguadeloupe.fr

PROJECT MANAGER

ATELIER D'ARCHITECTURE BMC SARL

■ Petit Bourg (Guadeloupe) ■ +33 (0)5 90 95 85 34



ABIEN DORÉ

- Agence d'architecture Dore et Marton
- Gourbeyre (Guadeloupe)
- **+**33 (0)5 90 80 30 60
- arcaraibes@wanadoo.fr
- www.architectes-dore-marton.fi

INSTALLER

CASTEL & FROMAGET

- Fleurance
- **+**33 (0)5 62 67 45 45
- infos@castel.fayat.com
- www.casteletfromaget.fr

DIGITAL PRINTING Franco Brondani gymnasium Houilles (France)

In order to bring the Danpatherm K7 facade to life, the architect of the Franco Brondani gymnasium in Houilles (West side of Paris) chose digital printing. An attractive, colourful way of creating iconic signage specific to sport.

echnical TRENDS

3 Questions for

Charlotte Rich - PROJECT COORDINATOR AT EVERLITE CONCEPT

What does the digital printing process offered by Everlite Concept involve?

The process involves reproducing an image by printing it on the flat surface of the Danpalon®. It can be applied to Danpatherm K7 and Danpalon® of all sizes and thicknesses. It adds an individual touch to the building, especially with the huge variety of possibilities in terms of the different effects we can achieve such as colour, gradient, light and transparency.

Does the technique impose any particular constraints?

For this project, we needed to make the joints inbetween the Danpatherm K7 panels invisible. We printed the visuals so that they covered both the panels

and the connecting profiles (glazing beads). The result is particularly good because the digital image supplied by the client was very precise and of very high quality.

What advice would you give architects interested in this technique?

When planning the project, you have to take into account the fact that the average printing time is four to six weeks (in addition to the time to produce the panels). What's more, the project manager must take care to provide a high quality source file, which usually requires some digital work before it is ready to be used in the printing process. It may well be advisable to use the expertise of a graphic designer for this kind of project in order to achieve the best results.

The PROJECT

PROJECT CLIENT

- HOUILLES CITY HALL +33 (0)1 30 86 32 32
- www.ville-houilles.fr

INSTALLER

NORBA ILE DE FRANCE SUD SARL

Villebon-sur-Yvette (France)

- +33 (0)1 69 86 98 77
- +33 (0)1 69 86 98 77
- www.norba-menuiserie.com







The company SEW Usocome had two objectives for the construction of its new factory: creating a dynamic building and making maximum use of natural light.

Usocome, a manufacturer Delivered in October 2014, the fac-

taking the client's individual wishes linear build- to use Danpatherm K7 clear Softlite natural effect," he concludes.

he new premises of SEW ing parallel to the main road, while for the building's upper facades. "The product provides soft, diffuse specializing in automotive into account. This involved design- lighting in the storage, logistics and and drive systems, is lo- ing a building that would symbolise dispatch areas, but the project client cated at the new "Brumath district" movement and incorporate as much also chose it for its thermal properplatform", a business park recently natural light as possible," explains ties," adds the architect. To provide created by the Brumath group of Claude Wolfhugel of Studio Wolf- optimum solar protection, the curved municipal councils in Bas-Rhin. hugel (Bas-Rhin). The architect and roof overhangs the walls, acting as his team created this sense of move- a natural sunshade. "For environtory covers an area of 33,000 m². ment partly by alternating curved mental reasons, we didn't want a and horizontal roofs and stratifying specific nocturnal lighting design. "We had to respect the the roof of the reception area. Then, But when night falls the interior lightplanning rules, which to ensure the best possible lighting ing is filtered by the Danpatherm K7 required a very in the factory, the architect chose cladding, creating a very interesting

WHEN CURVES AND STRAIGHT

"The project client selected facades had to follow these top-of-the-range materials for movements, varying from 1 methe building that are not usually tre for the lowest areas to more found in industrial projects. The than 2.8 metres for the highest. use of Danpatherm K7 was a re- The layout had to be perfectly sponse to this desire to design respected, as each panel had a a truly unique building. Deploy- precise size and location." ing the product proved relatively complex due to the architect's Interview with Cédric Fluck, site decision to design a building with supervisor, Soprema (Bas-Rhin) curved roofs. The Dapatherm K7

The **PROJECT**

PROJECT CLIENT

- SEW USOCOME Haguenau (France)
- +33 (0)3 88 73 67 00 sew@usocome.com
- www.usocome.com

PROJECT MANAGER

CLAUDE WOLFHUGEL

- Studio Wolfhugel Hoerdt (France)
- **+**33 (0)3 88 68 21 00
- secretariat@studio-wolfhugel.eu

INSTALLER

CÉDRIC FLUCK ■ Soprema

- Strasbourg (France)
- **+**33 (0)3 88 79 84 79
- travaux-strasbourg@sopre





TECHNICAL TRENDS



EVERLITE

Registered trademarks: ARCHITECTURE LUMIERE national number: 12 3 958 828 BRV national number: 12 3 958 825 DANPATHERM national number: 12 3 958 823 K7 national number: 12 3 958 824 SOFILITE national number: 12 3 958 826 LIGHT ARCHITECTURE is published by Everlite Concept SAS 2-6 rue Condorcet - 91350 Grigny Cedex, France ■ phone: +33 (0)1 69 02 85 85 fax: +33 (0)1 69 02 85 87 ■ everlite.concept@everlite.fr ■ www.everliteconcept.com International circulation 26 000 copies ■ Publication Manager: Alain Chambron Commerce International (A.C.C.I) ■ Editorial Committee: C. Moureton, G. Pedulla, M. Ronan ■ Editorial staff: Céline Cadiou ■ Design and completion: www.thinkadcom.com ■ Light Architecture and Everlite are members of l'AFEX (Architectes Français à l'Exportation) ■ October 2015

