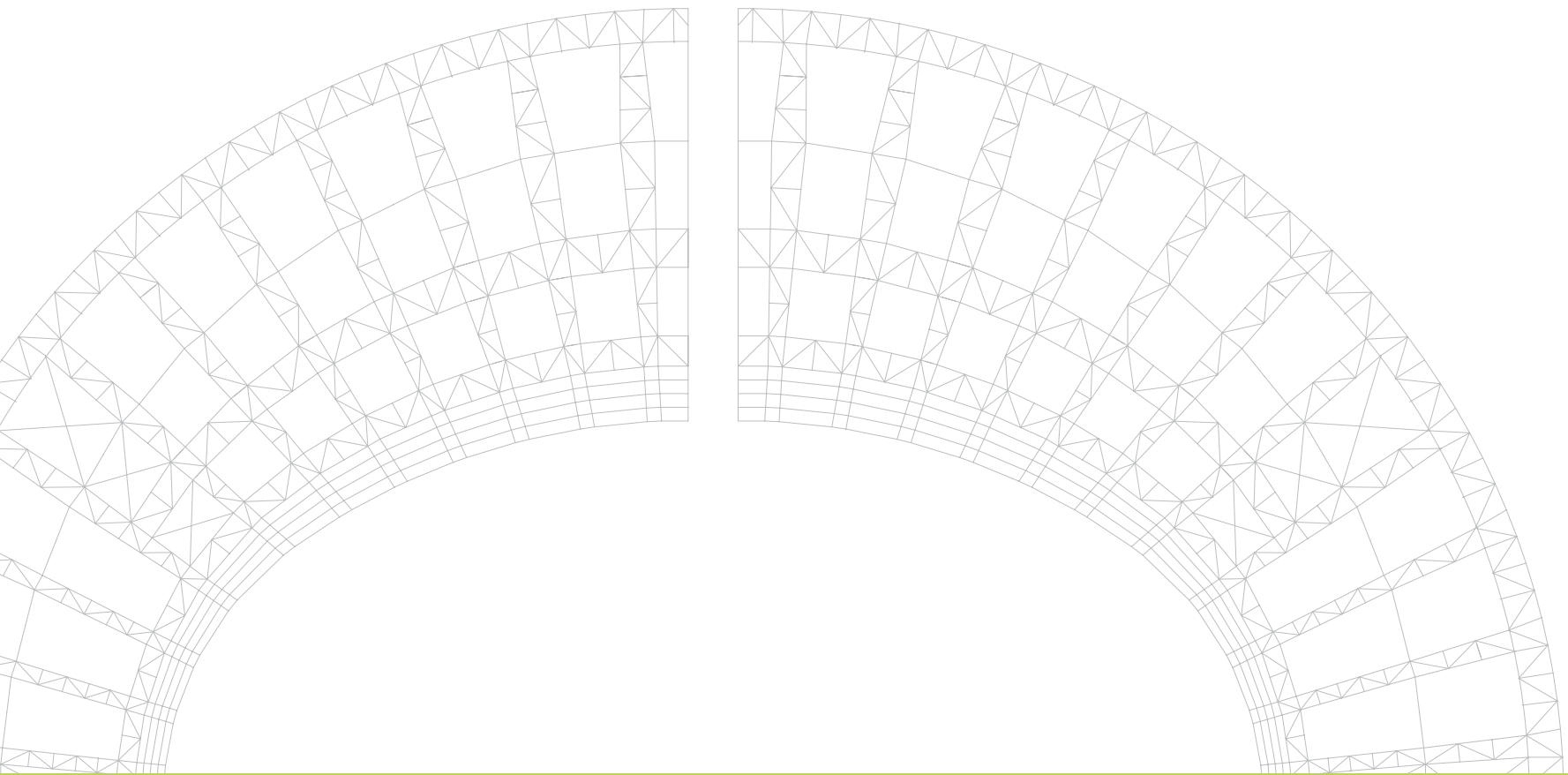




# Architectural Projects Portfolio





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Freedom in design



## About Palram

### Global Leader in Thermoplastic Panels and Panel Systems

Palram is a leading multinational manufacturer of thermoplastic sheets, mainly from polycarbonate, PVC and acrylic. Our products are used in a wide variety of applications and projects around the world, including construction and architectural projects, advertising and printing, agriculture, fabrication and DIY. Palram's global presence and advanced technological abilities allow us to provide our customers with competitively priced products, while maintaining a high level of service.

Palram delivers excellence to a global marketplace, backed by professional support and service on a local and regional level. Palram is proud of its unique corporate culture that makes us agile, creative and committed to all our customers.

### Architectural Project Support

In the last two decades, Palram's Project Support Center has helped specify, adapt, support and facilitate architectural challenges around the globe. Among the Center's team members are civil engineers, designers, technical consultants and plastics engineers. The team offers a bundle of professional services based on accumulated experience in medium and large scale projects, samples of which are displayed here.

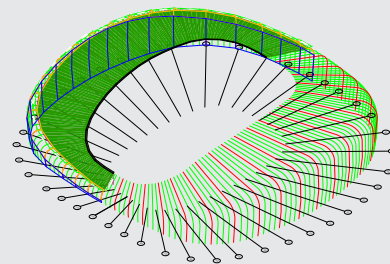
## Service Solutions

### Planning Stage

- Quick matching of product specifications per project
- Adapting plans while preserving the architect's vision
- Creating specific planning details for architects
- Professional consultation on planning meetings
- Expert advice on materials and engineering
- Creating conceptual designs for given structures

### Implementation Stage

- Creating specific installation guidelines per project
- On-site support at important execution stages
- Background construction engineering supervision
- Conducting special seminars upon request





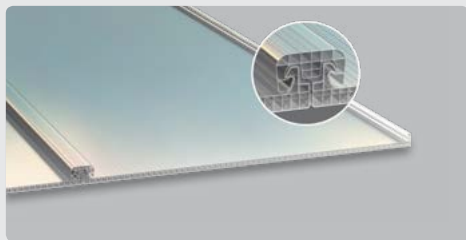
## Product Solutions

### Architectural Systems

Palram offers a range of advanced panel systems, which are constantly enhanced as a result of to our accumulated field experience.

#### Palram systems offer:

- Leak free design
- Double sided UV protection as standard
- Resistance to high loads
- Resistance to extreme weather and hail
- Thermal expansion gaps
- Suitability for curved designs

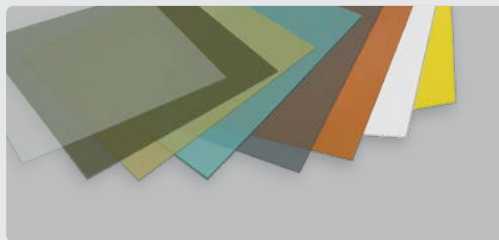


### Panels for Construction & Architecture

Palram has produced the widest available range of thermoplastic panels for over 50 years. The panels are fine-tuned and tailored to match every project's requirements.

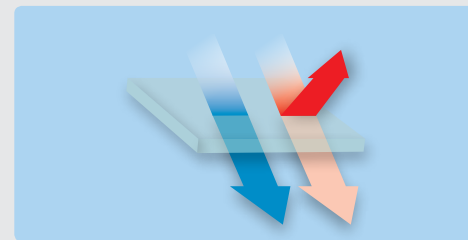
#### Palram panels offer:

- Wide product range
- Resistance to extreme weather and hail
- Tailor made color matching and solar properties
- Architectural implementation advisory



### Energetic Efficiency by SolarSmart™

SolarSmart™ is a multi-benefit technology combining high light transmission with low heat buildup. Panels with SolarSmart™ colors selectively transmit and block different segments of solar energy, allowing better use of natural daylight and improving climatic conditions in closed spaces. As a result energy consumption and costs are cut due to reduced lighting and air conditioning requirements.



## Milestone Projects

### Aviva Stadium, Dublin, Ireland

#### HOK Sport (Populous)

SUNTUF® - Clear & Matte, 3 mm  
Corrugated Polycarbonate Panel  
Skylight/Roof - 20,000 sqm

Palram was challenged to stretch its capabilities for the project in terms of design, production and logistics. The roofing material was characterized with relatively thin panels, a requirement met by Palram's proprietary corrugation technology. A revolutionary solution was conceived: installation of the corrugated panels perpendicular to the slope, relying on the stadium's unique "wavy" architectural design. This allowed a 65% decrease in the panels' thickness, which provided a cost efficient solution that preserved the architect's vision.













## Milestone Projects

### Shenzhen Universiade Sports Centre, China

#### GMP

PALSUN® - Smart Green, 8, 10, 12 mm  
Flat Solid Polycarbonate Panel  
Skylight/Roof - 45,000 sqm

The Universiade Sports Centre Stadium is one of three venues built for the 2011 Universiade games. It had the largest polycarbonate roof in the world upon its completion. Palram was deeply involved in the project from early design stages, including consultation at design meetings across the globe and characterization of the panel properties and the installation system used. The project required a custom designed installation system, which Palram developed with the main architect and local design studio.







## Milestone Projects

### Athens Olympic Stadium Greece

**Santiago Calatrava**

PALSUN® - Solar Olympic, 12 mm  
Solid Polycarbonate Panel  
Skylight/Roof - 24,000 sqm

The Athens' "OAKA" Olympic Stadium was renovated to serve as the centerpiece for the 2004 Olympic Games. The stadium's roof was designed by the renowned Santiago Calatrava and is still one of the largest polycarbonate installations in the world. PALSUN polycarbonate panels with a tailor-made color and abrasion-resistance were fitted into the GA2004 pre-assembled glazing system. The system's unique design allowed 0° slope and offered built-in drainage, room for thermal expansion and many other benefits.









## Milestone Projects

### Hangzhou Sports Park, China

**NBBJ in partnership with CCDI**

SUNPAL® - Clear, 20 mm  
Multiwall Polycarbonate System  
Stadium Skylights/Roofing -  
15,000 sqm

China's largest stadium project this decade is a grand structure. The roof was required to withstand wind loads of 310 kg/sqm. Palram designed an aluminum joiner for connecting the polycarbonate sheets. Unique design attributes were the 18 meters long sheets and an aluminum profile with a rubber gasket directing the water flow towards the gutter for proper drainage due to the roof's near 0° slope.







## Milestone Projects

### Beijing Urban Rural Century Plaza, China

#### Beijing Design Institute

SUNPAL® - 18 mm,  
Multiwall Polycarbonate Standing-  
Seam Architectural System

PALSUN® - Light Blue Diffuser Plus,  
6 mm, Flat Solid Polycarbonate Sheet  
Skylights - 10,000 sqm

The Beijing Urban Rural Century Plaza (which is the retail section of the Urban Rural Century Plaza) is a high volume shopping mall structure in the Beijing Yizhuang Development Zone. Palram supplied over 10,000 sqm of polycarbonate sheets which were installed as roofing & skylights in the uniquely cross shaped structure. The center of the cross is a large dome covered in PALSUN.







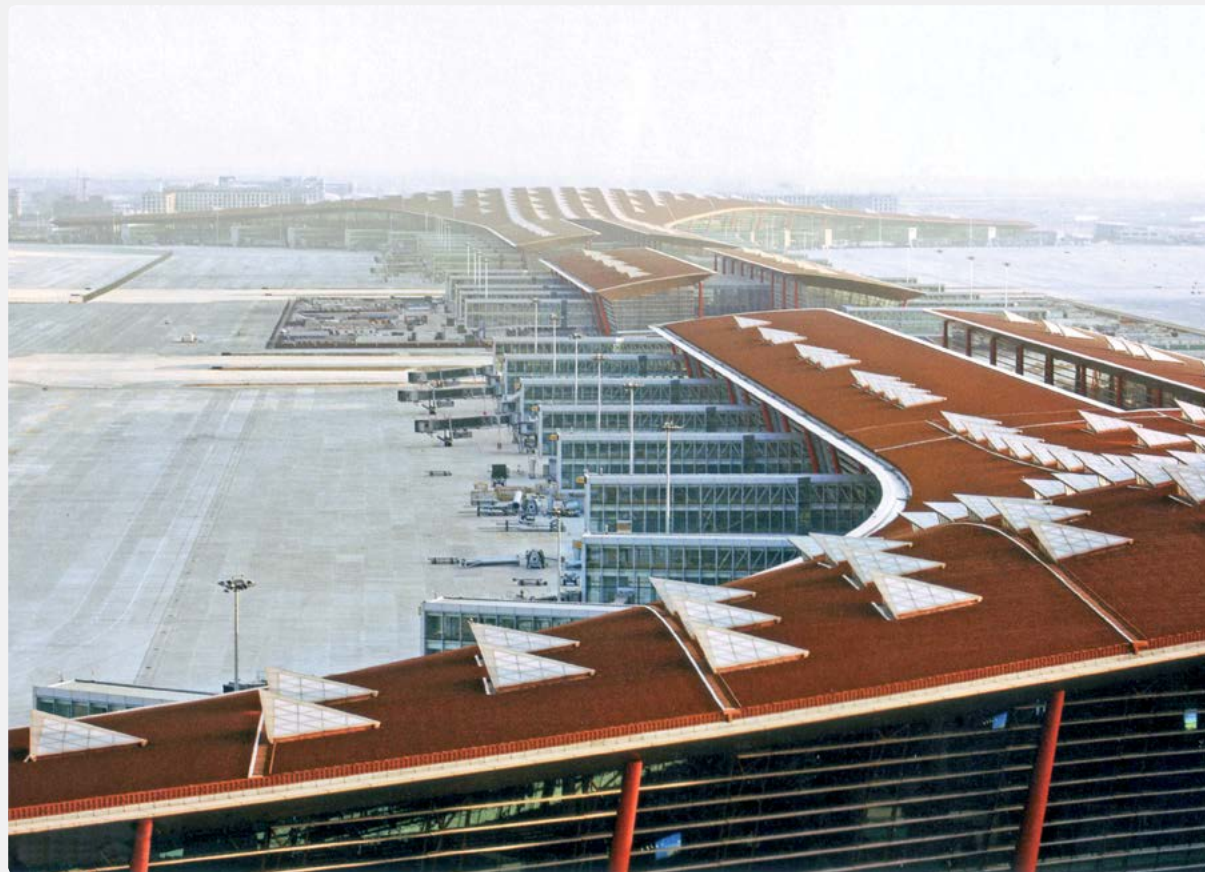
## Milestone Projects

### Beijing International Airport, Terminal 3, China

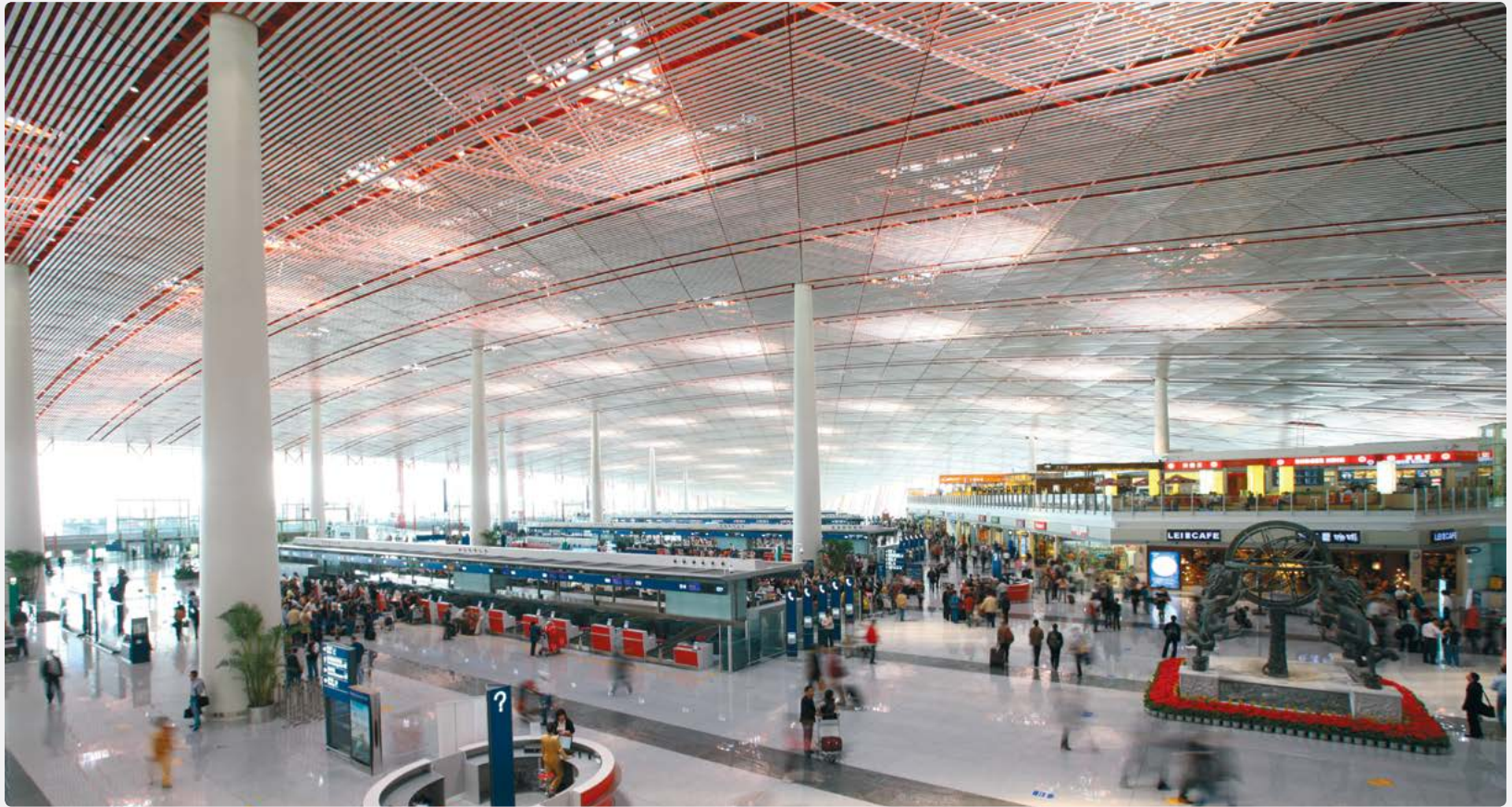
**Foster & Partners**

SUNLITE® - Clear, 25 mm  
Multiwall Polycarbonate Panel  
Skylights - 45,000 sqm

Beijing International Airport's Terminal 3 boasts a stunning dragon-shaped design. It covers over a million sqm and can accommodate 82 million passengers annually. The advanced terminal has many sustainable features, including an integrated environment-control system and south-east oriented "dragon-scale" shaped skylights, which were supplied by Palram.







## Milestone Projects

### Qingdao Railway Station China

Shandon Province Design Institute

PALSUN® - W. Diffuser, 8 mm  
Flat Solid Polycarbonate Panel  
Skylight/Roof - 55,000 sqm

The Qingdao Railway Station was extensively renovated for the city's hosting of the Beijing 2008 Olympics Regatta (boating) competitions. The station is typical for Qingdao architecture, incorporating German architectural style into a Chinese-designed building. The enormous 60,000 sqm roof is considered one of the largest of its kind. PALSUN white-diffuser solid polycarbonate panels were specified in order to diffuse direct sunlight and create a pleasant atmosphere for the crowd.







## Sports venues

### Dacia Arena (Friuli Stadium) Udine, Italy

Lorenzo Giacomuzzi Moore

SUNTUF® - Clear, embossed, 3 mm  
Corrugated Polycarbonate Panel  
Roof - 4,000 sqm

Dacia Arena, home to 'Udinese Calcio' soccer team, has undergone an extensive 33 million USD renovation and became a multipurpose sports arena in 2015. The stadium received modern spectator seating and a complete roofing plan, including a clear inner strip made of SUNTUF corrugated polycarbonate panels. Palram's Project Support Center provided a complete solution, including proprietary sliding connectors that were successfully implemented in previous projects.







## Sports venues

### Arena Castelão (Plácido Castelo Stadium) Fortaleza, Ceará, Brazil

#### Vigliecca & Associados

SUNTUF® - 177/51 Waves, Clear,  
2 mm  
Corrugated Polycarbonate panel  
Skylight/Roof - 8,000 sqm

*Photos by Regis Capibaribe*

Plácido Castelo Stadium, popularly known as "Castelão", was renovated for the 2014 FIFA World Cup and became the first Brazilian Stadium to obtain the LEED "Green" certification. The Palram team's solution for the project was based on 9 meter SUNTUF sheets spanning the entire roof circumference, which provided elegant appearance without overlap shading and prevented leaks.







## Sports venues

### Allianz Parque Stadium São Paulo, Brazil

Tomás Taveira, Edo Rocha

SUNTUF® - 177/51 Wave, Clear, 2 mm  
Corrugated Polycarbonate Panel  
Skylight/Roof - 7,000 sqm

Allianz Parque, popularly known as Palestra Itália Arena, is a one of the most advanced multipurpose stadiums in Brazil. Opened in 2014, the São Paulo stadium meets the highest standards of FIFA and was constructed to host shows, concerts, corporate events and especially football matches of the Sociedade Esportiva Palmeiras team. Clear SUNTUF panels cover the inner part of the roof to form a rain shelter and admit natural daylight to minimize shading of the playing ground.





## Sports Venues

### Zakho Stadium, Iraq

#### Tengbom

SUNPAL® - ML Red/White and  
Clear Diffuser Plus, 18 mm  
Multiwall Architectural System  
Skylight/Roof - 12,000 sqm

SUNPAL Polycarbonate architectural panels were fitted into the roof of a football stadium in Zakho, Iraqi Kurdistan. Palram was awarded the tender to supply 'Global Sport IQ' with 12,000 sqm of specially tinted 18 mm panels, and provided in-depth support of the project. Zakho International Stadium was the first installation of SUNPAL multilayered panels. Red and White panels were used to match the colors of the Zakho Football Club. This significantly enhances the stadium's visual appearance and boosts the local team's pride in their beautiful home.



## Sports venues

### Sammy Ofer Stadium Haifa, Israel

KSS

SUNTUF® - 7770,  
Clear Embossed, 3 mm  
Corrugated Polycarbonate Panel  
Skylight/Roof - 5,000 sqm

Sammy Ofer is the first Israeli sport venue to meet UEFA's highest stadium criteria. 11 meter tailor-made SUNTUF panels span the entire width of the skylight, creating an elegant look by eliminating shading overlaps. Additionally, Palram's project support team designed a proprietary connector that allowed the panels to be installed directly onto the main structure, thus enabling considerable saving on construction costs.







## Sports venues

### Nanchang International Sports Center Stadium, China

CCDI

PALSUN® - Solar Olympic, 8 mm  
Solid Polycarbonate Panel  
Skylight/Roof - 12,000 sqm

Nanchang International Sports Center was built to host China's 7<sup>th</sup> National Intercity Games and accommodates up to 60,000 spectators. The stadium roof was fitted with PALSUN Solar Olympic panels and the GA-2004 pre-assembled glazing system. The Solar Olympic tint blocks a segment of the Infrared radiation, creating "cool lighting" for the crowd. The GA-2004 system's built-in drainage allows true self-cleaning and 0° slope.







## Sports venues

### Essen Stadium, Germany

W+P

SUNTUF® - 43/332, Clear, 1.2 mm  
Corrugated Polycarbonate Panel  
Roof - 12,000 sqm

SUNTUF sheets were used in the roof construction of the Essen Football Stadium in Essen, Germany (stadium capacity 20,000 spectators). An innovative combination of perforated metal sheets and clear polycarbonate sheets, layered on top of each other, created a roofing solution that is robust, transparent and waterproof. Palram provided a profile that matched the metal profile and a specially designed aluminum cap that runs along the standing seam and clamps together the metal and the SUNTUF sheets.







## Sports venues

Trent Bridge  
Nottingham, England

Maber Associates

SUNLITE® - Trans. Blue  
Multiwall Polycarbonate Panel  
Sidelight

Trent Bridge is the home of the Nottinghamshire County Cricket Club, which has been hosting cricket matches since 1838. The cricket ground's stand, which has 2,300 seats, incorporates light blue SUNLITE sidelights to allow pleasant, moderate lighting.





## Sports Venues

### Plaza del Toro Vitoria, Spain

PALSUN® - Clear, 10 mm  
Solid Polycarbonate Panel  
Skylight/Retractable Roof  
2,200 sqm

Bullfighting is a national sport for the Spaniards. In this case, clear PALSUN panels were specified to maintain the arena's inner atmosphere with the roof in either closed or retracted position.



# Airports

## Hangzhou Airport, China

ZIAD

SUNGLAZE™ - Solar Olympic, 4 mm  
Solid Polycarbonate System  
Skylight/Awning - 1,900 sqm

Hangzhou airport, one of the busiest in China, was built as a joint venture with Hong Kong's Airport Authority. Although glass was originally specified for the terminal entrance canopies, Palram conceived an effective solution based on the SUNGLAZE panel system. SUNGLAZE panels were easily installed into the wavy entrance canopy profiles using cold bending. Their leak-free design was complemented by tailor-made gutters at the lower ends of the canopy.







## Airports

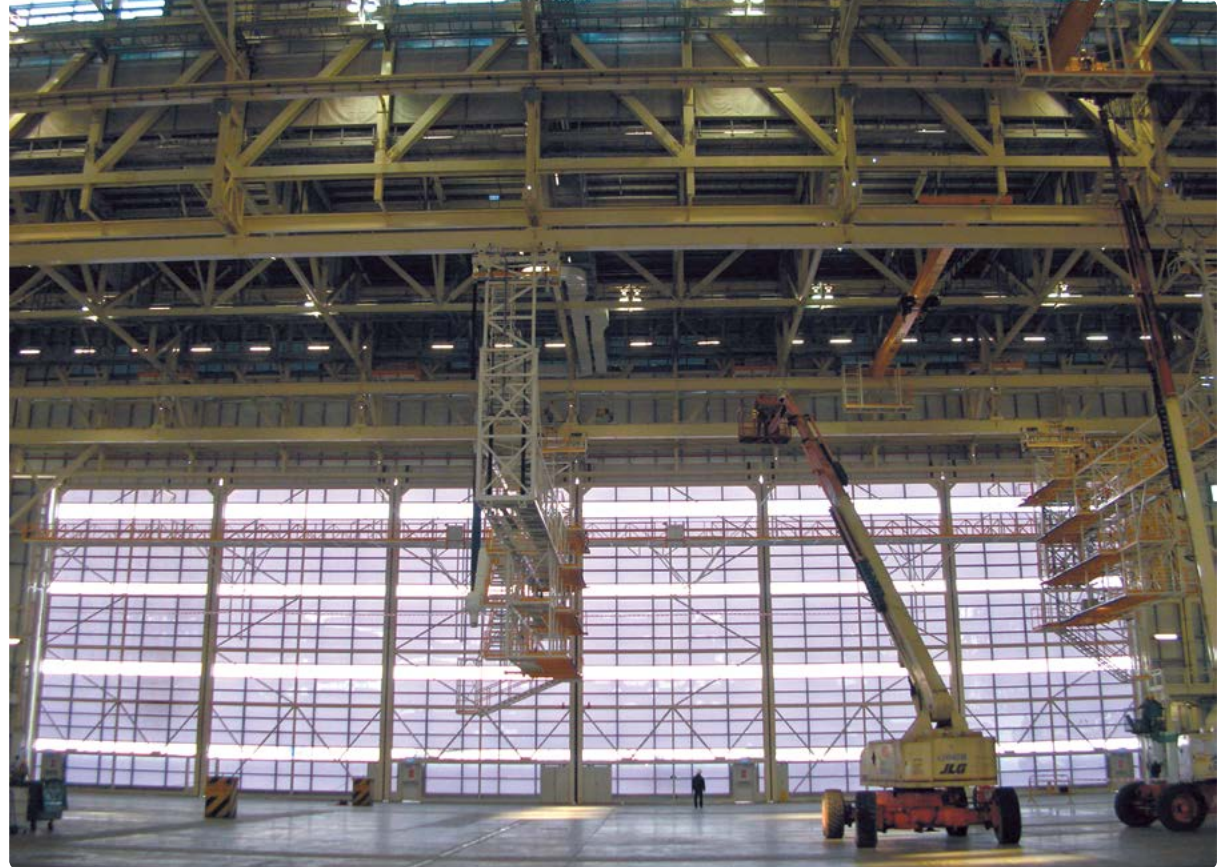
### HAECO Hangar II, Hong Kong Intl. Airport, China

RMJM

PALSUN® - Clear, W. Opal, 12.7 mm  
Solid Polycarbonate Panel  
Curtain Wall - W. Opal 800 sqm  
Clear 448 sqm

The hangar planners aimed to provide natural daylight to the structure, while making the interior only partially visible.

Translucent white opal PALSUN panels were selected as the main material, combined with a small number of clear stripes within.





## Airports

HAECO Hangar III  
Hong Kong Intl. Airport, China

Aedas

PALSUN® -  
Solar Control, Blue, 12 mm  
Solid Polycarbonate Panel  
Curtain Wall



## Transportation

### Hangzhou Bay Bridge, China

Tongji University Design Institute,  
Shanghai

PALSUN® - Clear, 8 mm  
Flat Solid Polycarbonate panel  
Wind shields - 14,000 sqm

Hangzhou Bay Bridge spans 36 km across the Hangzhou Bay on China's eastern coast and is the world's longest trans-oceanic bridge. The bridge provides quick access to and from the busy Port of Shanghai. Project schedule was tight for the hosting of the 2008 Olympics torch. Palram supplied tailor-made curved wind shields for the bridge. The rounded shields provide ultra-high impact resistance, designed to reduce the bridge's strong side winds and help withstand extreme weather conditions.







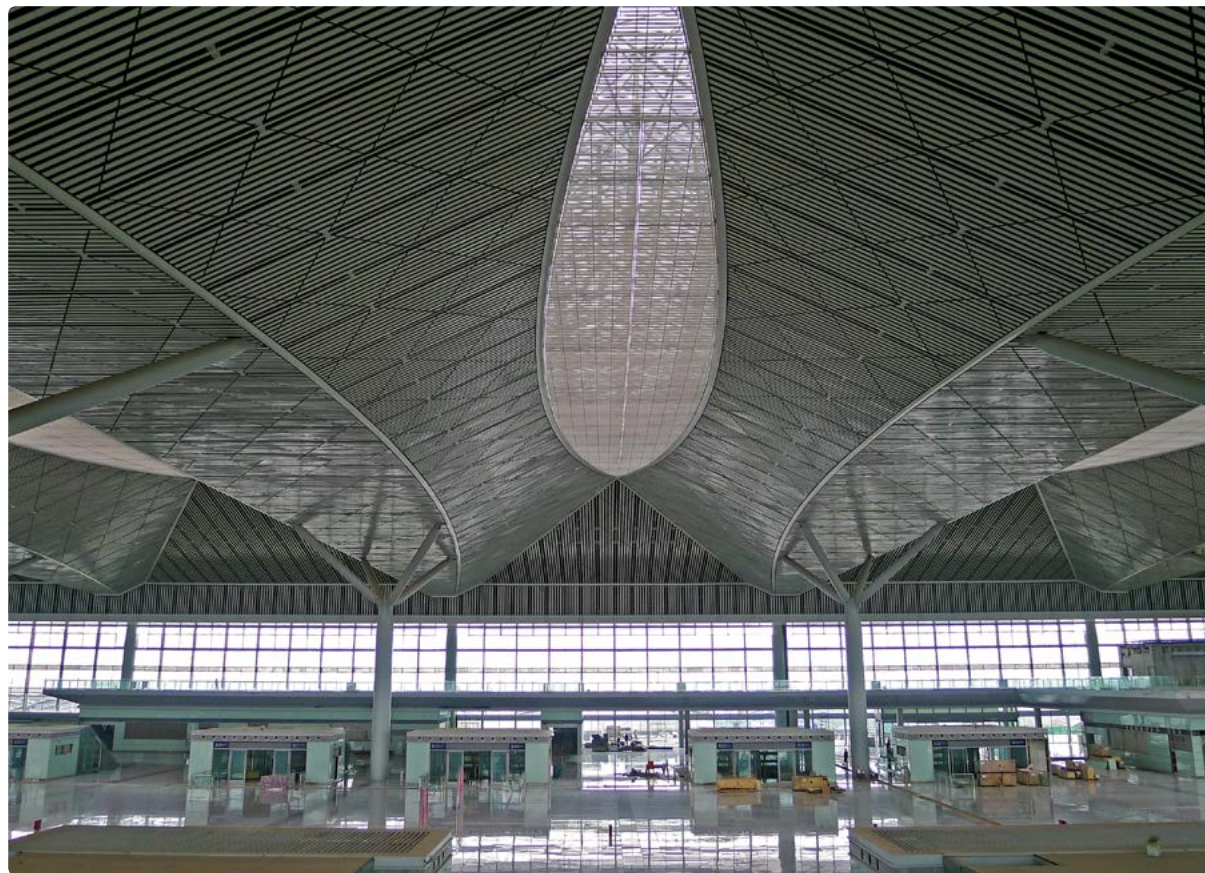
## Transportation

### Xian North Railway Station, China

CSADI

SUNPAL® - Clear, 18 mm  
Multiwall Architectural System  
Skylight/Roof - 7,000 sqm

Opened in January 2011, the Xian North Railway Station was built as a supplement to the original Xian Station and accommodates the high speed trains passing through the city. The two railway stations are a hub connecting Northwest and Southwest China. The station was fitted with clear 18 mm SUNPAL skylights, which provide leak-proof design and structural robustness.





## Transportation

### Kelmscott Train Station, Australia

SUNPAL® - Solar Grey, 10 mm  
Multiwall Polycarbonate System  
Sidelight

The Kelmscott Train Station and Interchange was renovated as part of the Western Australian Government's Train Stations Improvement program in 2008. a new station shelter structure was constructed as well as a new transit office booth on the station platform. a new passenger drop-off and station entry shelters on both the east and west sides of the station were built as well.



## Transportation

### Table Mesa Pedestria Bridge Glazing Denver, Colorado

PALGARD™ - Clear & Bronze, 9,5 mm  
Flat Solid Abrasion Resistant  
Polycarbonate Sheet  
550 sqm (per bridge, 5 planned  
in total)

The designer identified the benefits of Palram's PALGARD hard coated monolithic Polycarbonate for the bridges' glazing material. Critical considerations were safety, resistance to physical impact, vandalism and graffiti, adverse weather conditions, aesthetics and high light transmission. Clear and bronze panels achieve the required transparency, light transmission, and overall look and feel.







## Commercial

### Unicentro de Occidente Bogotá, Colombia

SUNLITE® -  
Multiwall Polycarbonate Panel  
Skylight/Roof

SUNPAL® - Solar Grey 10 mm  
Multiwall Polycarbonate System  
Sidelight

This project made use of two separate Palram products. SUNLITE X-Lite Solar Control panels were used for the dome. The SUNPAL system was installed in a barrel vault.





## Commercial

### "My Mall" Shopping Center Limassol, Cyprus

Alex Raz Architects

SUNLITE® - CL, 32 mm  
Multiwall Polycarbonate Panel  
Skylight/Roof - 5,000 sqm

Special Heat-blocking SUNLITE CL panels were installed at the My Mall shopping center to effectively reduce heat buildup while transmitting diffused light into the structure and creating a pleasant atmosphere for the visitors. The extensive use of diffused daylight is also energy efficient via reducing both lighting and air conditioning costs.



## Commercial

Fun Republic Mall,  
Coimbatore, India

Arris Architects

SUNPAL® - Solar Control, 10 mm  
Multiwall Architectural System

SUNLITE® - Solar Control, 10 mm  
Multiwall Polycarbonate Panel  
Skylight/Roof - 3,700 sqm

Multiwall polycarbonate system and panels were chosen for the project due to their high thermal insulation and light transmission capabilities. To moderate heat buildup within the structure, Solar Control tint with metallic-reflective heat blocking was specified on both materials. SUNLITE X-Lite panels were used in the dome and the SUNPAL system was installed in a barrel vault with both systems allowing cold bending for the curved installation.







## Commercial

Farmers Market, Ennis,  
County Clare, Ireland

P. Coleman & Associates

SUNGLAZE™ - Clear, 4/600  
Solid Polycarbonate System  
Skylight/Roof

SUNGLAZE was specified as the roofing material for this structure once the advantages and capabilities of polycarbonate in general and SUNGLAZE Solid Polycarbonate Standing-Seam Architectural System were demonstrated (the initial plan was to use flat glass). The double curve was achieved via 14 m long sheets of Clear 4/600 SUNGLAZE.

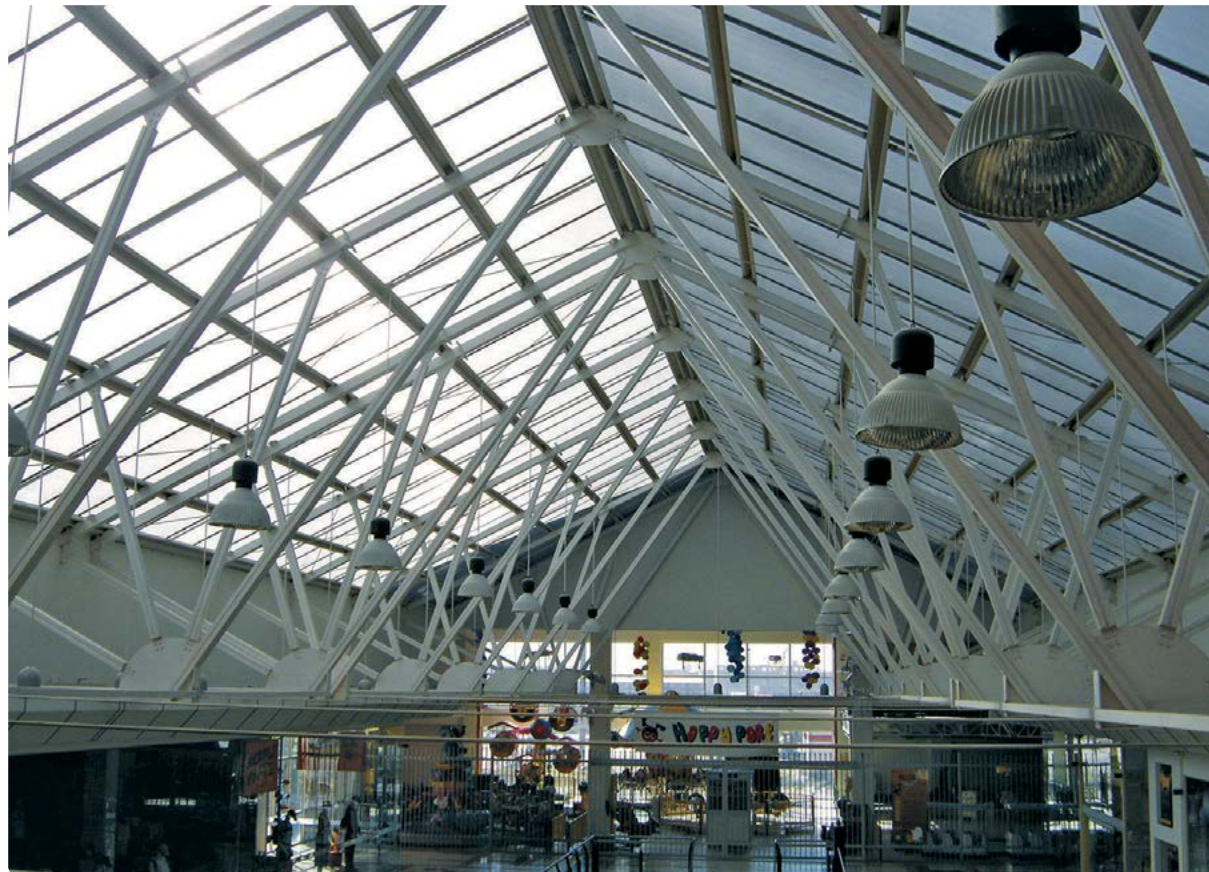




## Commercial

Tintal Plaza  
Bogotá, Colombia

SUNLITE® - Solar Control  
Multiwall Polycarbonate Panel  
Skylight/Roof



## Commercial

### Manufactura Outlet Village Kiev, Ukraine

Chief Architect: Victor Salamatin

SUNGLAZE™ - Solar Grey, 4/800  
Solid Polycarbonate Panel System  
Skylight/Roof - 1,800 sqm

This large installation of SUNGLAZE panel system has a glass-like appearance that integrates with the classic architectural style, but with reduced sub-structural requirements, along with many other benefits associated with this system. The whole roof is leak-proof with no need for sealants and blocks harmful UV radiation.





## Commercial

Anvers Confectionery  
Tasmania, Australia

J&M Weeda

SUNGLAZE™ - Solar Grey, 4/800  
Solid Polycarbonate Panel System  
Skylight/Roof

The SUNGLAZE solid Polycarbonate architectural panel system was used for the entire roofing of the visitor center of the Anvers Confectionery. The system's minimal design creates an elegant appearance and provides leak proof, shatter proof and a safe solution for the roof and walls.



## Commercial

### Mercedes Benz R&D Center Bangalore, India

Atelier Architects Pvt Ltd SMLXL

SUNPAL® - Sky Blue, 18 mm  
and Solar Control  
Multiwall Polycarbonate System  
Skylight/Roof - 1,500 sqm

The Bangalore Mercedes Benz R&D facility is the company's largest research facility outside Germany and was the first SUNPAL installation in India. Short SUNPAL panels were used in the sawtooth shaped skylight/roof above the terrace cafeteria. Blue and solar control panels were combined to create a colorful and pleasant atmosphere suitable for a recreational area of this type.





## Commercial

SPAR - Shopping center,  
Tbilisi, Georgia

Architect - Irakli Abashidze

SUNPAL® - White Diffuser, 20 mm  
Multiwall Polycarbonate System  
Facade

SUNPAL was used to cover a newly built store in Tbilisi, Georgia. The system was installed vertically to create a brightly illuminated outer envelope for the structure. The inverted sheets provide a seamless and smooth surface to the outer walls and contribute to the unique overall appearance. SUNPAL Alu Joiners C were fixed to the bare concrete walls, to which the Sunpal panels were attached. The building is now clad in durable panels, fully weather protecting the structural concrete.



## Commercial

Mall Plaza El Castillo,  
Cartagena, Colombia

Designed by:  
Canales Desarrolladores  
Installed by: Apice

SUNGLAZE™ - Breeze, 4/800  
Solid Polycarbonate System  
Skylight/Awning - 1,058 sqm

The designers utilized sustainable architecture principles and placed strong emphasis on energetic efficiency. Palram proposed a skylight solution based on SUNGLAZE panels incorporating Solar Smart technology. They admit more natural daylight while reflecting outwards the heat generating infrared radiation. Energy saving is promoted via considerable reduction of lighting and cooling costs.







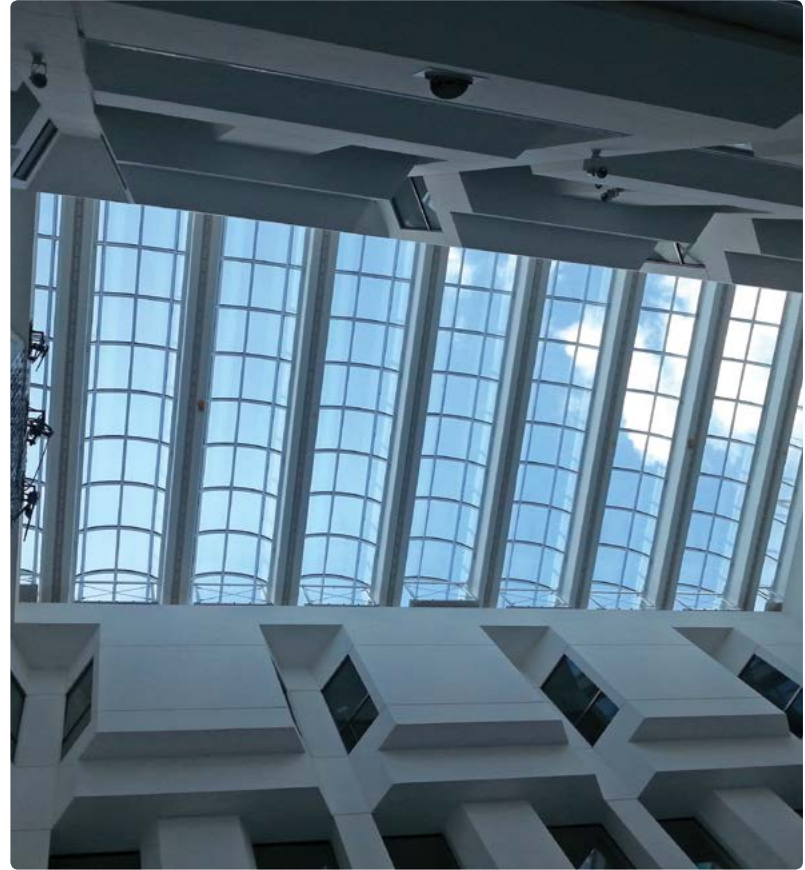
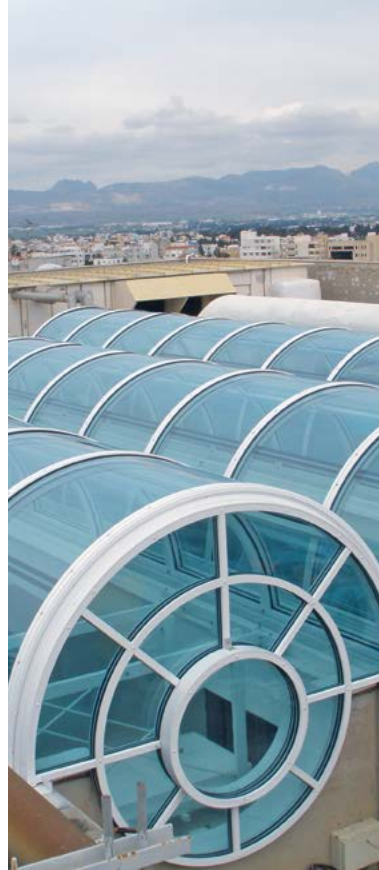
## Public Facilities

### Central Bank Of Cyprus HQ Limassol, Cyprus

J&A Philippou Nicosia

PALSUN® - Bluish Breeze & Clear  
6 mm, Flat polycarbonate panels  
Skylight

PALSUN flat polycarbonate sheets were used as double glazing in a classic barrel-vault skylight at the prestigious headquarters of the Central Bank of Cyprus. The Bluish Breeze tint of the panels reduces heat buildup in the main hall by reflecting most of the Infrared solar radiation, while providing a clear and unobstructed view of the sky above.





## Public Facilities

### Ipswich Post Office, Australia

SUNPAL® - Green, 10 mm  
Multiwall Polycarbonate System  
Skylight/Canopy

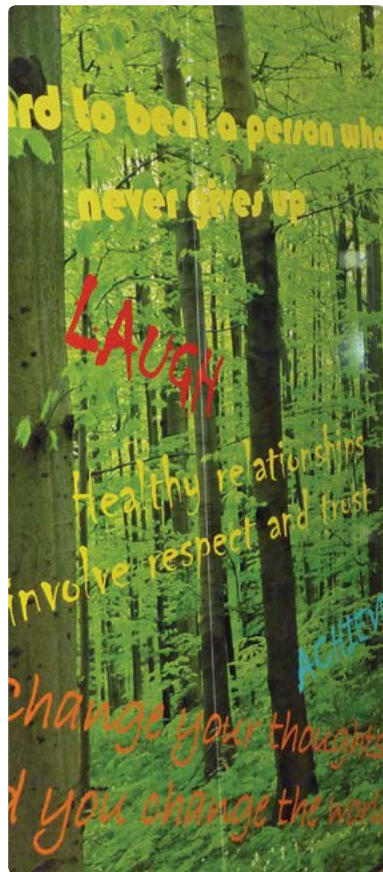


## Public Facilities

### 'Green Towers' Hinckley Club For Youth, Leicester, UK

PALCLAD™ Pro HYG -  
Hygienic PVC Wall Cladding System  
Various colors

The 'Green Towers Hinckley Club for Young People' was designed with respect to the requests of youth from the local community. PALCLAD Pro was chosen as wall cladding material to add an abundance of color to the walls in many locations of this large facility, including sport halls, offices, showers and more. Some PALCLAD Pro panels were printed with graphics that promote positive educational environment.





## Public Facilities

### Children Hospital, Germany

Murodesign GmbH

PALCLAD™ Pro HYG -  
Hygienic PVC Wall Cladding System  
Various colors

HELIOS is a clinical center for children, located in the southern city of Krefeld, Germany. The center's extensive renovation project in 2015 was used to create a happy atmosphere for the young patients. Each floor was designed with a different theme using Palram's Palclad Pro cladding system. Colorful PVC cladding was used to create a cheerful atmosphere using ocean, desert and arctic as well as other landscapes. The panels were printed with lively graphics and a few were cut in the shape of animals, smiling at the visitors from the walls.



## Public Facilities

### Nazareth Hospital, Nazareth Israel

PALCLAD™ Pro HYG -  
Hygienic PVC Wall Cladding System  
Beige

The Nazareth Hospital is an on-going project, started initially with cladding a single operating room with PALCLAD Pro HYG. Since then, additional operating & MRI rooms as well as corridors were clad as well.





## Public Facilities

### St. Panteleimon Emergency Hospital, Bucharest, Romania

PALCLAD™ Pro HYG -  
Hygienic PVC Wall Cladding System  
Green

Saint Pantelimon hospital in Bucharest was renovated in 2014 and became Romania's leading emergency clinical facility. 2,000 sqm of PALCLAD Pro panels of various colors were installed using welding rods of matching color within a tight 2 week schedule to meet construction deadlines. The wall cladding was an important part of the upgrade, along with the new and modern medical equipment.



## Public Facilities

Swinburne Hawthorn,  
Australia

Blomquest & Wark

SUNPAL® - Red, 18 mm  
Multiwall Polycarbonate System  
Outdoor Wall Cladding

Located at the Swinburne Hawthorn University, this red topped building is home to Film & Television studies as well as computer labs. Palram's SUNPAL cladding provides a translucent emphasis to the structure, representing the University's red & white logo.





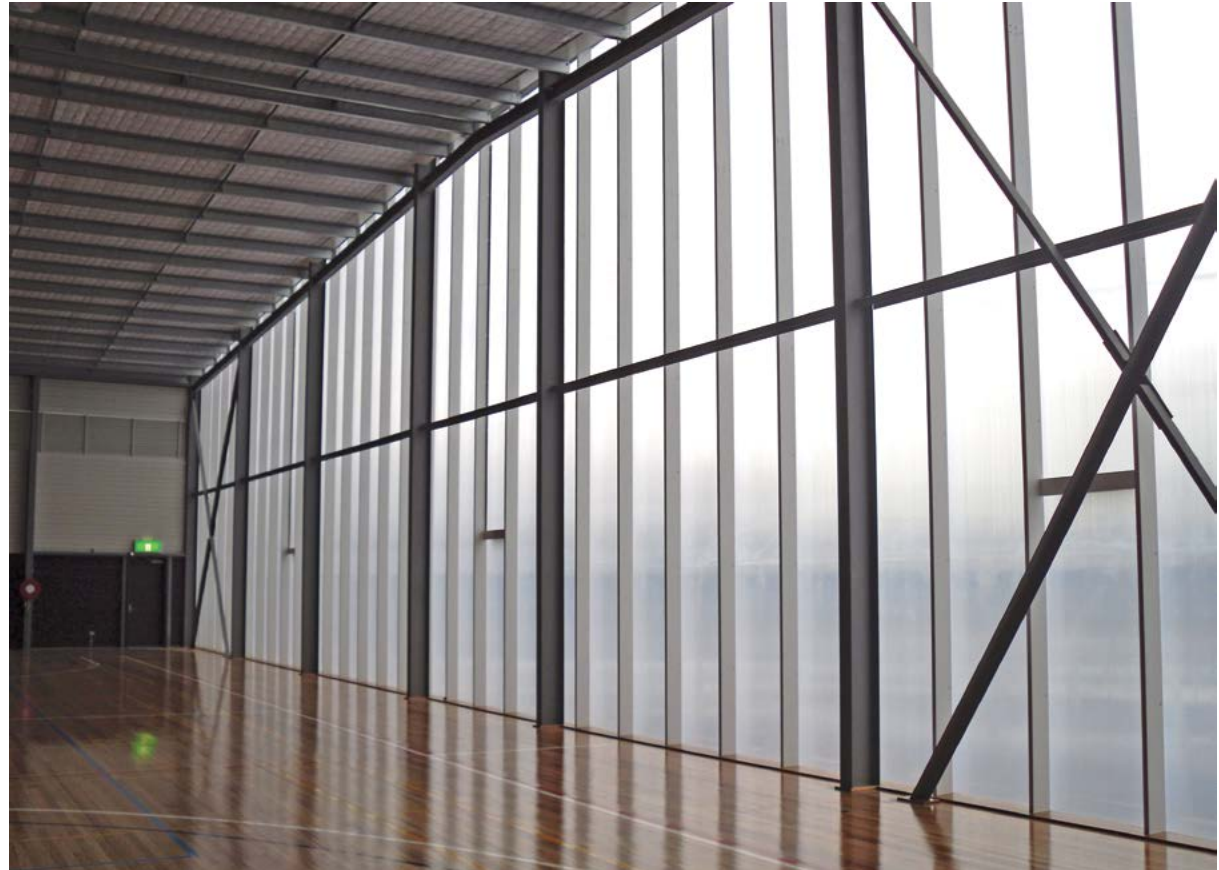
## Public Facilities

Victoria University  
Community Sports  
Stadium, Australia

Peddle Thorp Melbourne

SUNPAL® - Solar Ice, 18 mm  
Multiwall Polycarbonate System  
Curtain Wall - 400 sqm

The SUNPAL panel system was used in a vertical installation to create a semi-transparent wall. The system provides a complete installation solution with clean appearance and leak-proof design with no need for sealants.



## Public Facilities

### School Basketball Court, Taiwan

SUNPAL® - White Ice, 18 mm  
Multiwall Polycarbonate System  
Skylight/Roof





## Public Facilities

### Derby School, Kansas, USA

SUNGLAZE™ - White Opal  
Solid Polycarbonate System  
Skylight/Awnings

SJCF Architecture

Palram's SUNGLAZE - solid polycarbonate architectural panel system was installed as a walkway and window awnings. The built in advantages for these applications included modular design, quick and easy installation, minimal maintenance, tolerances for high loads and the ability to match existing structural appearance.



## Public Facilities

### Amberley RAAF Base Queensland, Australia

SUNPAL® - Solar Ice, 18 mm  
Multiwall Polycarbonate System  
Dining Room Sidelight/Walling

The dining hall is a central structure within the RAAF Amberley Base. It was designed with an emphasis on being an eco-friendly and energetically efficient structure. Daylight enters the building via the SUNPAL sidelights.





## Public Facilities

Yarraville Community Centre  
Victoria, Australia

Whitefield McQueen Irwin Alsop

SUNPAL® - White Ice, 18 mm  
Multiwall Polycarbonate System  
Sidelight/Walling

The original building was constructed in the 1880's and has undergone extensive renovations. The sidewalls and side lights are White Ice 18 mm SUNPAL. The artwork was printed directly onto the polycarbonate sheets, and contributes to the shading and light transmission properties of the application as well as to the overall aesthetics.

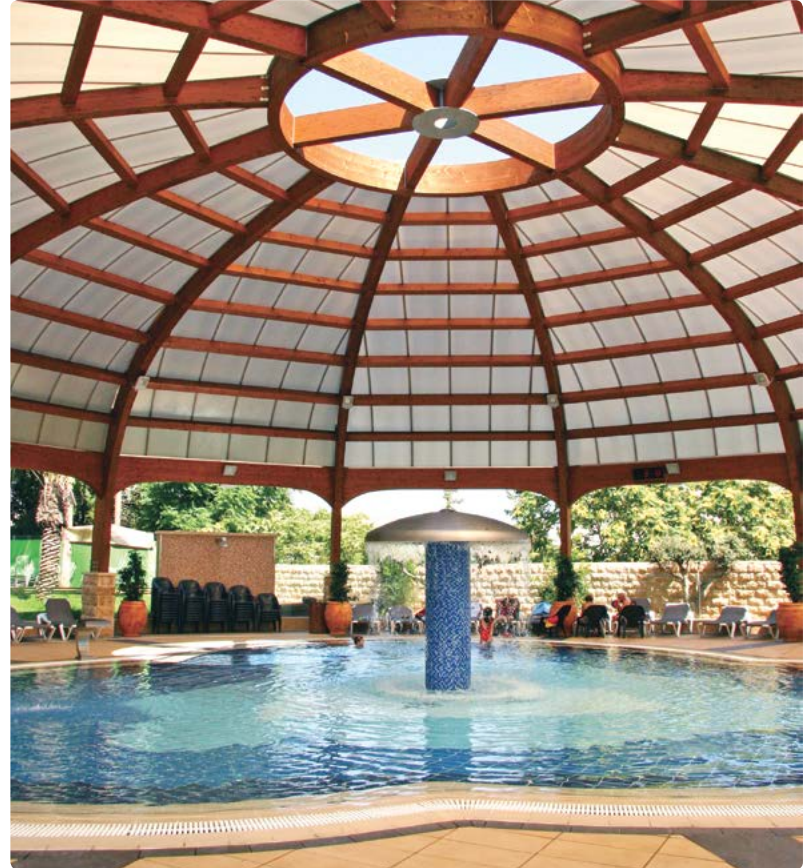


## Pools

### Technion Sports Center, Israel

SUNPAL® - Diffuser Plus Bronze  
& Blue, 18 mm  
Multiwall Polycarbonate System  
Skylight/Roof - 3,200 sqm

The sports center of the Technion Institute of Technology in Haifa, Israel operates three pools, all of which were fitted with Sunpal multiwall Polycarbonate panels. The panels are specified with different tints and the Diffuser Plus feature that prevents glare from both transmitted daylight and the underwater lighting in the pool used at dark hours, creating balanced and pleasant lighting at any given time of the day.







## Pools

### Aquanation Center Melbourne, Australia

#### Peddle Thorp

SUNPAL® - white opal  
diffuser plus, 18 mm  
Multiwall Polycarbonate System  
Skylight/Sidelight

Palram worked with the architects on Aquanation from 2012 until its completion in 2015. The specified roofing system, SUNPAL White Opal Diffuser Plus 18 mm, features a double diffuser effect to soften the transmitted natural daylight as well as the inner reflections of electric lighting during dark hours. The multiwall polycarbonate architectural panel system was integrated into the skylights along with 3 types of curved roof deck finishes. Palram provided a unique span-bar rafter system with a custom bracket design to enable this challenging installation.







## Pools

### Hotel Terme Jezercica, Croatia

SUNLITE® - White Opal, 16 mm  
Multiwall Polycarbonate Panel  
Skylights

Terme Jezerčica (pronounced Terme Yezerchitza) is a wellness center located in the town of Donja Stubica, 40 kilometers outside the capitol Zagreb, Croatia. The heart of the center is a naturally healing hot mineral spring. Terme Jezerčica also houses two pools, one for swimming and the other is part of a children's playground, both of which have skylights made of Palram's SUNLITE multiwall polycarbonate panels. The skylights transmit natural daylight that complements the center's health and wellness theme and values.





## Pools

### St. Kilda Sea Baths, Australia

#### Peddle Thorp

SUNPAL® - Clear, 18 mm  
Multiwall polycarbonate  
architectural panel system  
490 sqm

St. Kilda Baths is a historical seaside structure, containing a seawater pool, spa and health club. SUNPAL was selected to cover the swimming pool for several reasons, particularly the ability to withstand high loads and the specified curvature of the roof beams. Additionally, the roof enables clear diffused sunlight to enter while providing double sided UV protection and thermal insulation.



## Pools

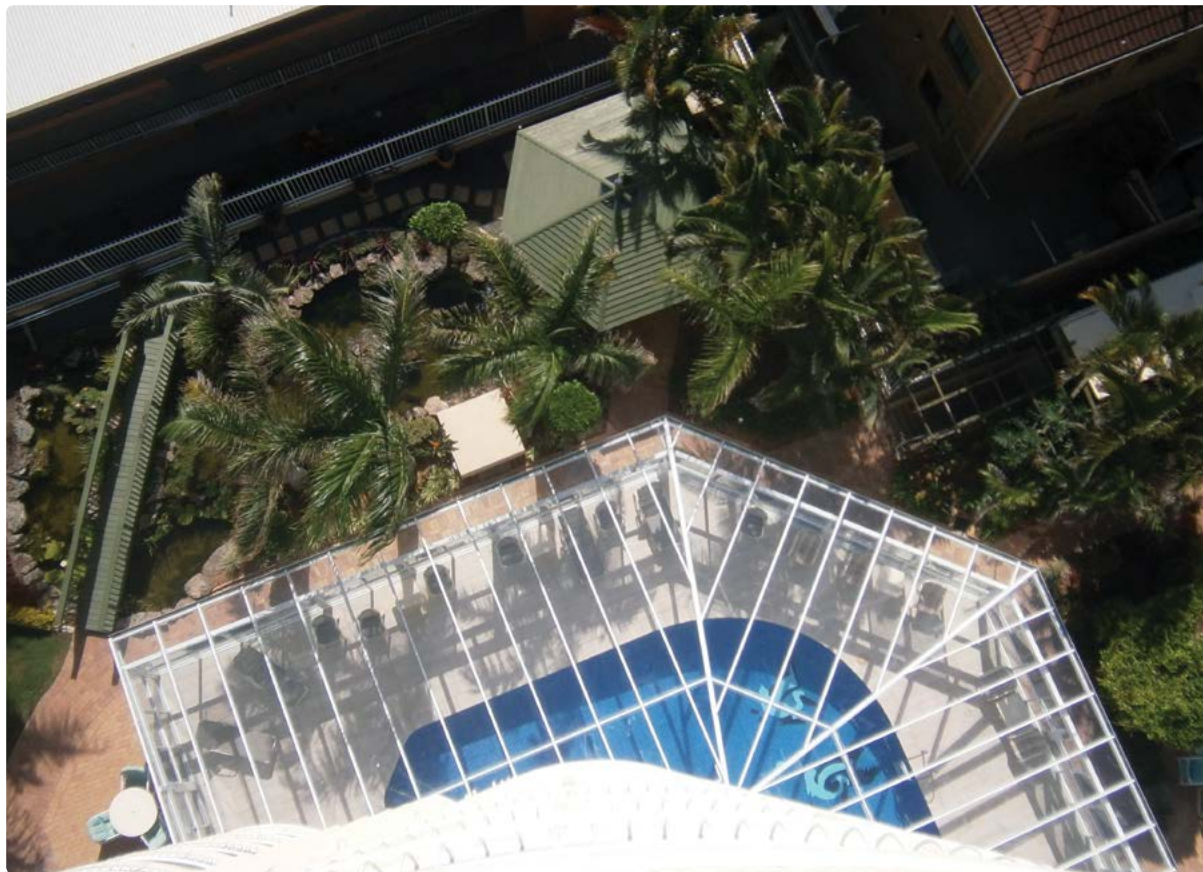
### Pool Cover Gold Coast, Queensland, Australia

R.H. Frankland Building Design &  
Consulting Studio

PALSUN® - Clear, 8 mm  
Flat Solid Polycarbonate Sheet  
Skylight / Roof - 800 sqm

Palram's PALSUN polycarbonate sheets were chosen to boost day-lighting & to improve the overall atmosphere at the gold coast residential pool. Critical considerations were sheet weight and impact resistance.

Palram provided all the specification details to customize the system for the application. A high-performance enclosure, sealing the transparent roof system to sliding glass doors and windows optimizes ventilation and temperature control inside the space.





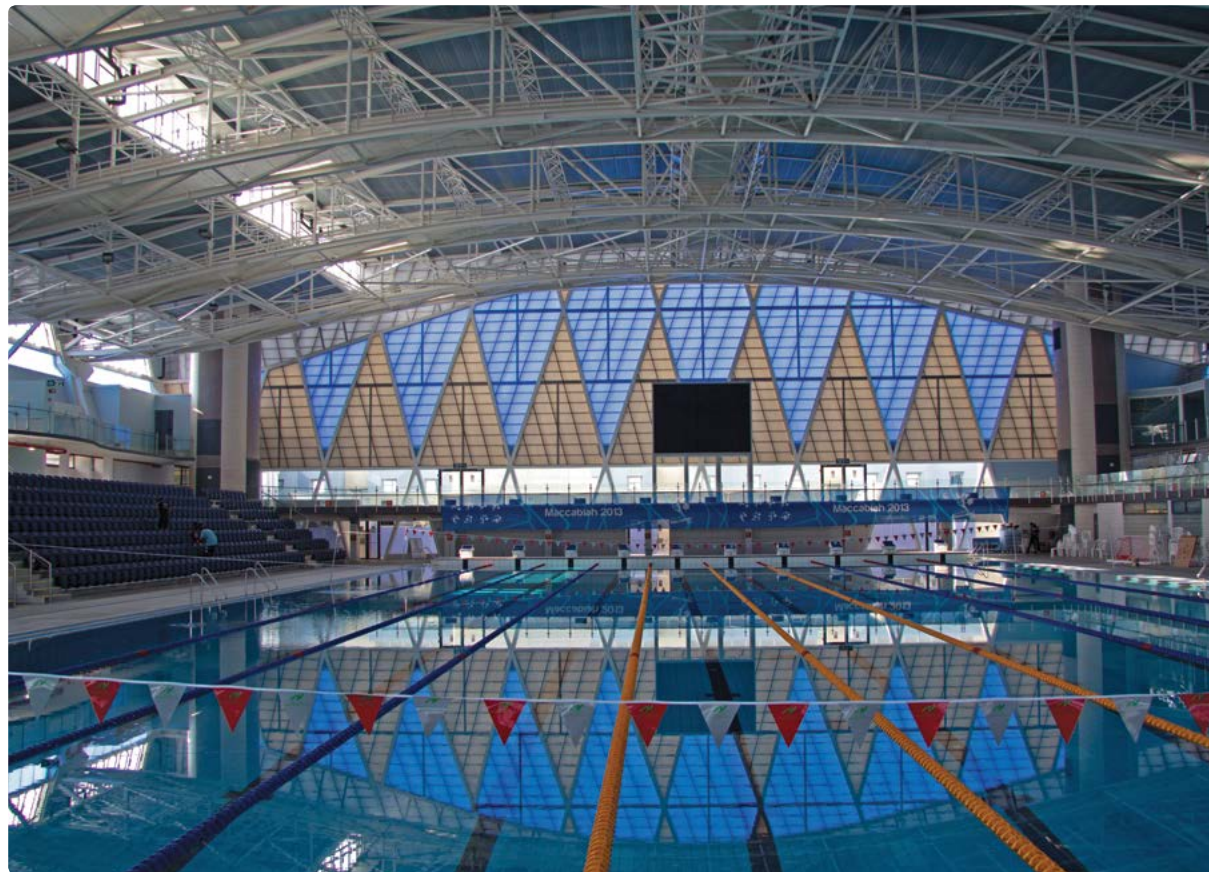


# Pools

Wingate Institute, Israel

Moshe Atzmon  
V5 Architects

SUNPAL® - Blue, Bronze & Solar  
Control diffuser plus, 18 mm  
Multiwall Polycarbonate System  
Wall cladding, Double skin, facade





## Pools

### "GaleyHadar" Country Club, Israel

SUNPAL® - Blue & White, 18 mm  
Multiwall Polycarbonate System  
Skylight/Roof



# Industry

## TIS Port, Ukraine

PALRUF® - White, 2 mm  
Corrugated PVC panel  
Industrial roofing

SUNTUF® - Clear, 1.2 mm  
Corrugated Polycarbonate Panel  
Industrial rooflights

TIS Port is located in the Ukraine on the shores of the Black Sea. The port's chemical warehouses are covered with Palruf Corrugated PVC panels, which are well suited for use in this corrosive environment due to their excellent chemical resistance. Suntuf Rooflight panels were integrated into the roof to admit natural daylight into the structure.





## Industry

James Boag Brewery  
Tasmania, Australia

SUNPAL® - White Ice, 10 mm  
Multiwall Polycarbonate System  
Sidelight/Walling

The James Boag Brewery Tower was clad in 10 mm White Ice Sunpal as the design called for reduced environmental impact. This cladding facilitated natural daylight lighting as well as natural ventilation and cooling of the tower.



## Walkways

### Hampton Inn Hotel, Tampa, Florida, USA

Lindsay, Pope, Brayfield, Clifford and Assoc.

SUNGLAZE™ -  
Solid Polycarbonate Standing-Seam Architectural System

New translucent canopies were added to the Hampton Inn Hotel, located in Tampa Florida, in 2016, including a curved canopy over the main entry. SUNGLAZE was selected due to its suitability to some of the climate extremes in Florida – Long and hot summers as well as frequent and hard hitting rain falls and of course the hurricanes and tropical storms. Palram's SUNGLAZE incorporates proprietary standing-seam profiling and glazing which enables wide spans and high loading capacity.





## Walkways

West Rail, KCRC  
Hong Kong, China

PALSUN® - Sun Green, 6 mm  
Flat Solid Polycarbonate Panel  
Covered Walkway



## Walkways

### Hung Mui Kuk Footbridge Hong Kong, China

PALSUN® - Trans. Green, 6 mm  
Flat Solid Polycarbonate Panel  
Covered Pedestrian Bridge





## Walkways

### Transmilenio Project Bogota, Colombia

PALSUN® - Clear, 6 mm  
Solid Polycarbonate Panel  
Covered Pedestrian Bridge



# Walkways

## Pedestrian Bridge Athens, Greece

PALSUN® - Solar Olympic, 12 mm  
Flat Solid Polycarbonate Panel  
Glazing





## Walkways

### Man Lai Court Bridge Honk Kong, China

PALSUN® - Clear, 8 mm  
Flat Solid Polycarbonate Panel  
Skylight



## Acoustic Barriers

### Zhanxi Soundproof Tunnel Beijing, China

BMEDI

PALSUN® - Clear, 10 mm  
Flat Solid Polycarbonate Panel  
Skylight - 3,800sqm

The Zhanxi Road Soundproof Tunnel is an enclosed roadway that spans 1.8 km across the Beijing Zoo. The tunnel was covered with semi-oval barriers in order to achieve optimal noise reduction for the animals. Clear PALSUN sheets are used as skylights in the tunnel and are integrated into its oval structure.





## Acoustic Barriers

Lai Chi Kok Viaduct (Tunnel)  
and Acoustic Barrier  
Hong Kong, China

Hong Kong HYD

PALGLAS® - Clear & Light Blue, 15 mm  
Flat Extruded Acrylic Panel  
Acoustic Barrier - 14,000 sqm



## Acoustic Barriers

East Link Toll Road  
Melbourne - Australia

Wood Marsh Pty Ltd Architecture

PALGLAS® - Orange, Green & Clear  
20 mm  
Flat Extruded Acrylic Panel  
Acoustic Barrier - 30,000 sqm

EastLink is a 39 km motorway connecting the eastern part of Melbourne with the freeways of the surrounding areas in Victoria state, Australia. The project, which includes 17 interchanges and over 80 bridges, uses many transparent acoustic barriers in the vicinity of populated areas. Approximately 30,000 sqm of PALGLAS panels were supplied to the constructing company, Thiess John Holland.







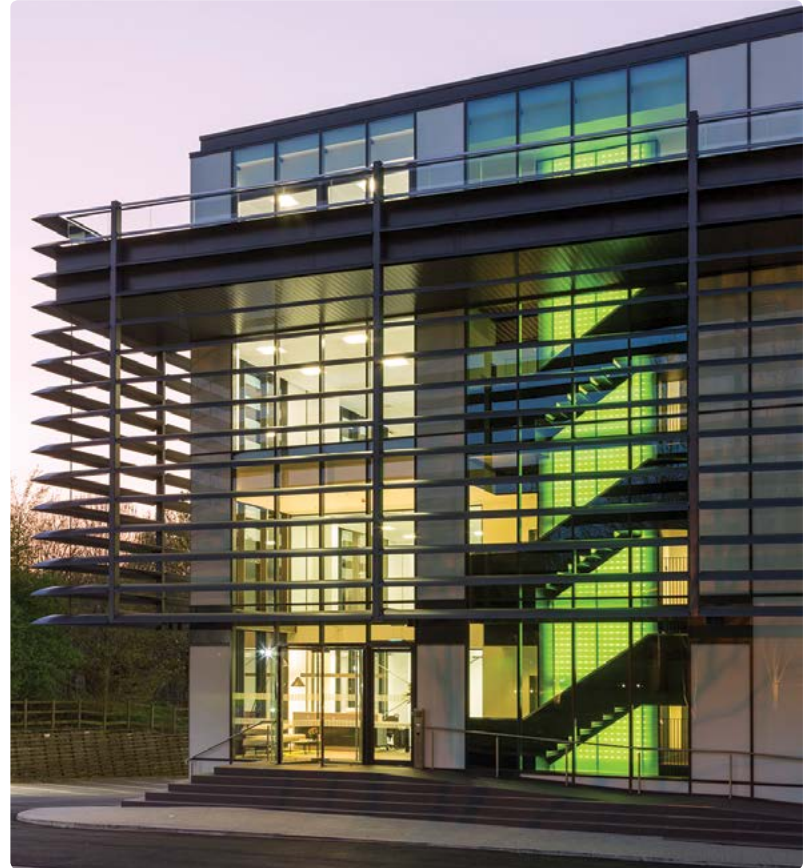
## Interior Design

### Leatherhead Business Park

Aros Architects UK

SUNPAL® - 16 mm, Multiwall  
Polycarbonate System  
146 sqm

The works comprise a new two storey extension of concrete composite construction bearing on the steel frame which is extended upwards. The existing brick cladding was removed and the structure re-clad with curtain walling.





## Interior Design

Griffith University  
Gold Coast, Australia

SUNPAL® - Clear, 8 mm  
Multiwall Polycarbonate System  
Walls of group study pods

The SUNPAL multiwall polycarbonate architectural panel system is well suited for vertical applications, such as creating walls and partitions. The system was used to create study rooms or "Pods" at the Griffith University, Gold Coast in Australia. The semi-transparent walls create ample privacy for studying without setting a complete boundary with the surroundings.



## Interior Design

A<sub>2</sub>SO<sub>4</sub> Design, USA

SUNLITE® - Clear  
Multiwall Polycarbonate Panel  
Semi-Transparent Walls

The hazy, semi-transparent appearance of SUNLITE multiwall panels is ideal for partition applications. In this case, a design agency used the panels to create moderate privacy without separating the private and public spaces entirely.





## Residential

### Private Residence, New Zealand

SUNPAL® - Solar Ice  
Multiwall Polycarbonate System  
Curtain Wall

The SUNPAL multiwall polycarbonate architectural panel system is well suited for vertical applications, such as creating walls and partitions. The system was used to form a semi-transparent wall in a private residence. The wall creates partial privacy and admits natural light during daylight hours.



# Residential

## Private Residence, Australia

SUNTUF®-  
Corrugated Polycarbonate Panel  
Pergola Roofing





## Residential

### Private Residence, Canada

PALSUN® & SUNLITE® - Clear  
Flat Solid & Multiwall  
Polycarbonate Sheets  
Private Pool Enclosure Glazing



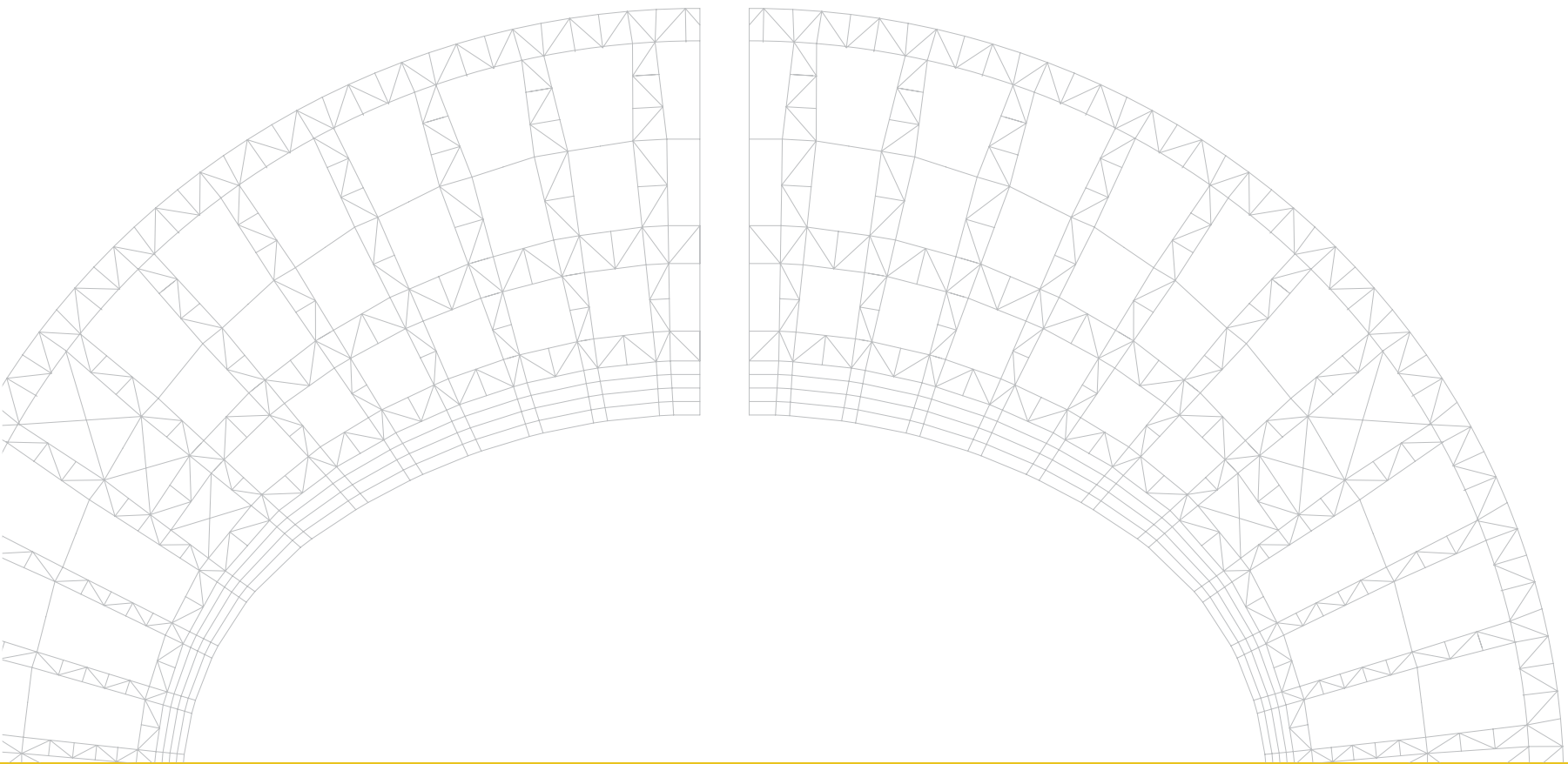
## Residential

### Private Residence, Australia

SUNPAL® - Solar Control, 10 mm  
Multiwall Polycarbonate System  
Pergola Roofing







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