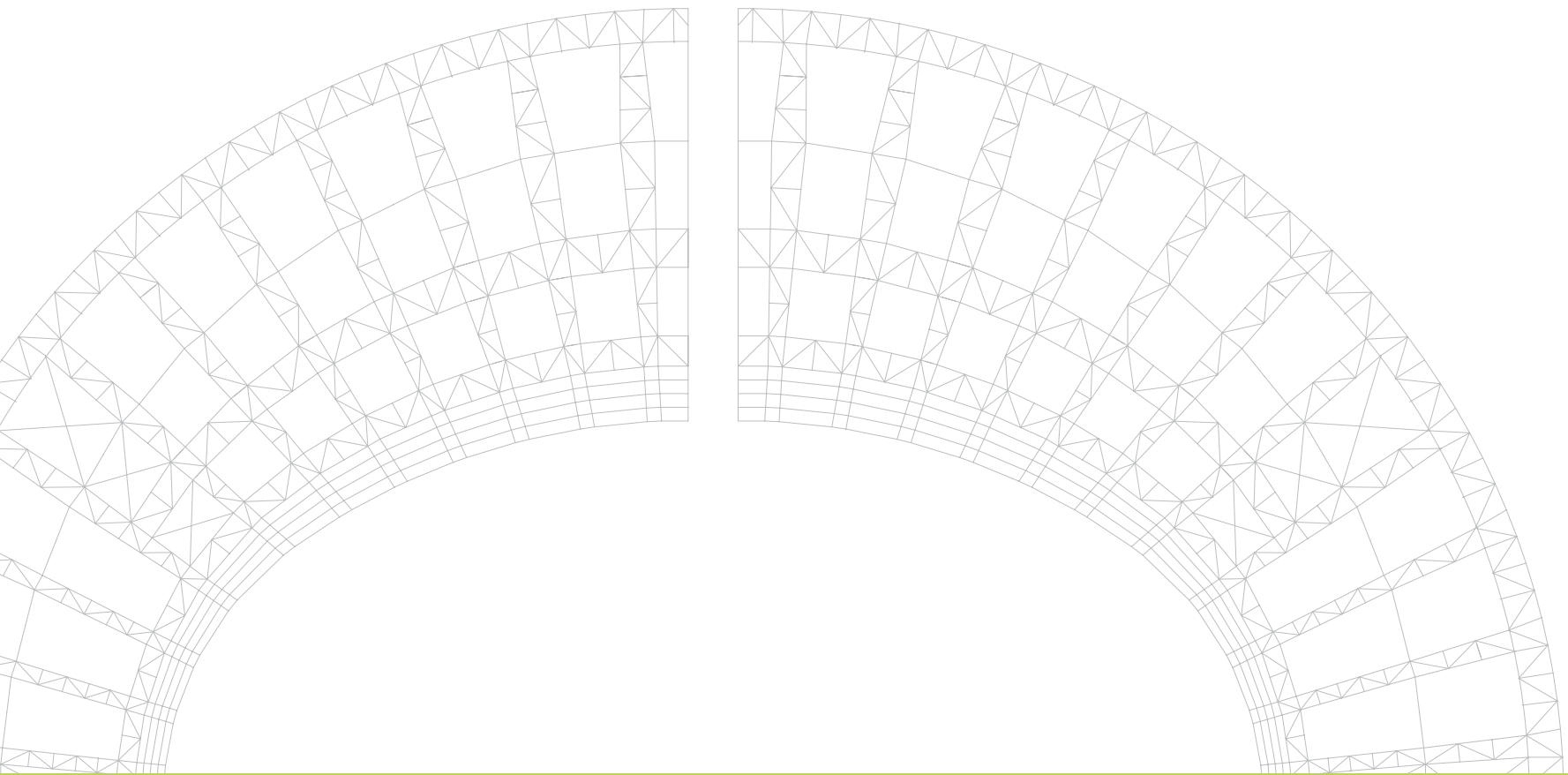




Architectural Projects Portfolio





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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. The products are used in a wide variety of applications and projects around the world, including building and construction, architectural projects, advertising and printing, agriculture, fabrication and DIY. Palram's global presence and advanced technological abilities allow us to provide our customers with competitive 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 supporters, plastics engineers and others. The team offers a bundle of professional services based on accumulated experience in medium and large scale projects, a part of which are displayed here.

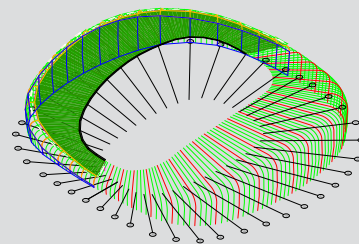
Architectural Services

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 due to our accumulated field experience.

The systems offer:

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

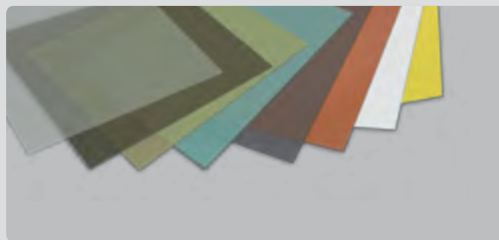


Panels for Construction & Architecture

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 requirement.

The panels offer:

- Wide product range
- Resistance to extreme weather and hail
- Bespoke color matching
- Tailoring solar properties on demand
- Architectural implementation advisory



Energetic Efficiency by SolarSmart™

SolarSmart™ is a multi benefit technology that combines high light transmission with low heat buildup.

Panels with SolarSmart™ colors selectively transmit and block different portions 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 reduced lighting and air conditioning requirements.



Milestone Projects

Athens Olympic Stadium, Greece

Architect: Santiago Calatrava

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

Athens' "OAKA" Olympic Stadium was renovated to serve as the centerpiece for the 2004 Olympic Games. The stadium roof was designed by the renowned Santiago Calatrava and is still one of the largest polycarbonate installations in the world. PALSUN polycarbonate panels with 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 expansion and many other benefits.





Milestone Projects

Beijing Olympic Sports Centre Stadium, China

Architect: BIAD

SUNLITE® - Solar Control 15% LT,
Clear 16mm
Multiwall Polycarbonate Panel
Skylight/Roof - 12,000sqm

The stadium was renovated for the Beijing 2008 Olympic Games, for the hosting of the football games and athletics finals. In the renovation the number of seats was doubled to 40,000 and a roofing structure was added, which was fitted with SUNLITE Solar-Control multiwall polycarbonate panels. The panels were selected for their cool lighting benefits to the match the metallic roofs of other venues in the complex. The roof's inner rim was fitted with clear panels to avoid shadowing of the sport ground.





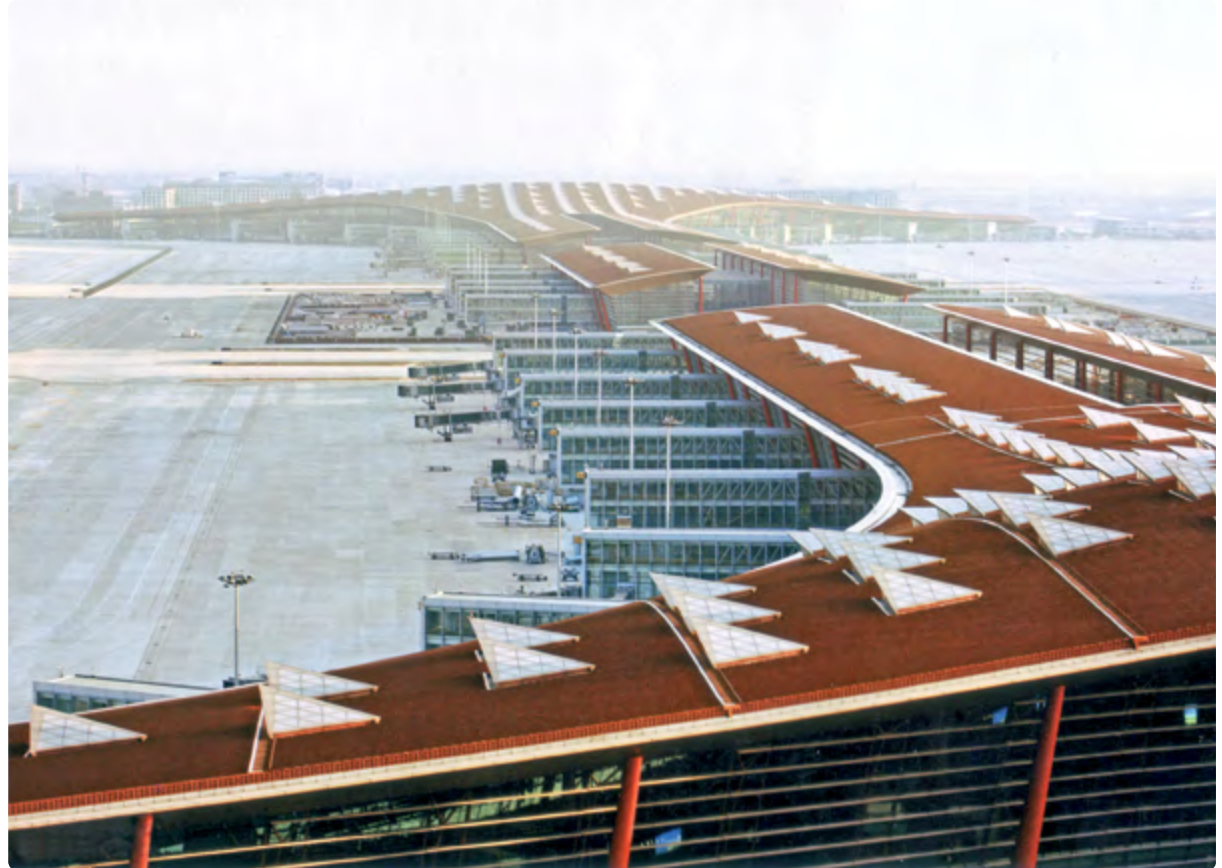
Milestone Projects

Beijing International Airport, Terminal 3, China

Architect: Foster & Partners

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

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 integrated environment-control system and a south-east oriented "dragon-scale" shaped skylights, which were supplied by Palram.





Milestone Projects

Qingdao Railway Station, China

**Architect: Shandon Province
Design Institute**

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

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 60,000sqm roof is considered one of the largest of its kind. PALSUN white-diffuser solid polycarbonate panels were specified in order to diffuse direct sunlight create a pleasant atmosphere for the crowd.





Milestone Projects

Shenzhen Universiade Sports Centre, China

Architect: GMP

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

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 company.





Milestone Projects

Aviva Stadium, Ireland

Architect: HOK Sport (Populous)

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

Palram was challenged to stretch its capabilities for the project in terms of design, production and logistics. The roofing material was characterized with low thickness 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.





Acoustic Barriers

Zhanxi Soundproof Tunnel Beijing, China

Architect: BMEDI

PALSUN® - Clear 10mm
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

Architect: Hong Kong HYD

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



Acoustic Barriers

East Link Toll Road
Melbourne - Australia

Architect: Wood Marsh Pty Ltd
Architecture

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





Airports

HAECO Hangar II,
Hong Kong Intl. Airport, China

Architect: RMJM

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

The hangar planners aimed to provide natural daylight to the structure, while making the inside 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

Architect: Aedas

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



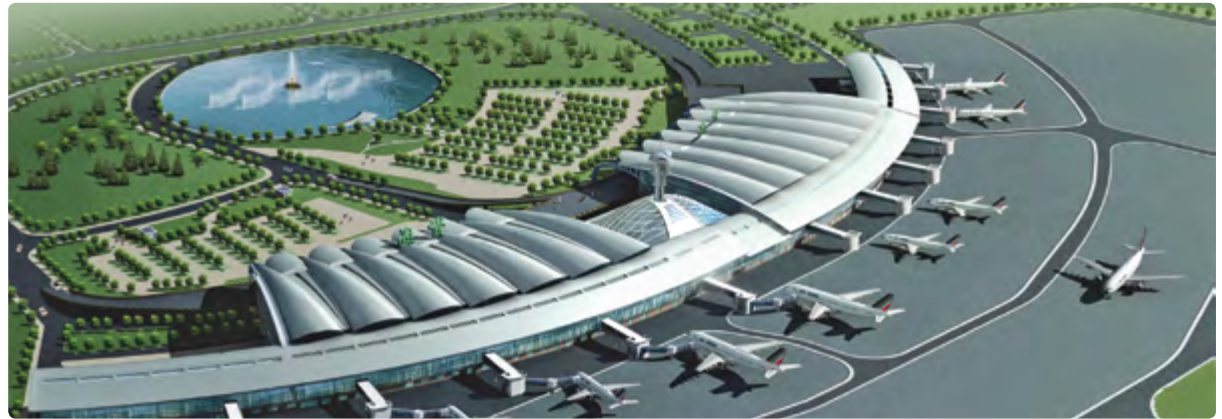
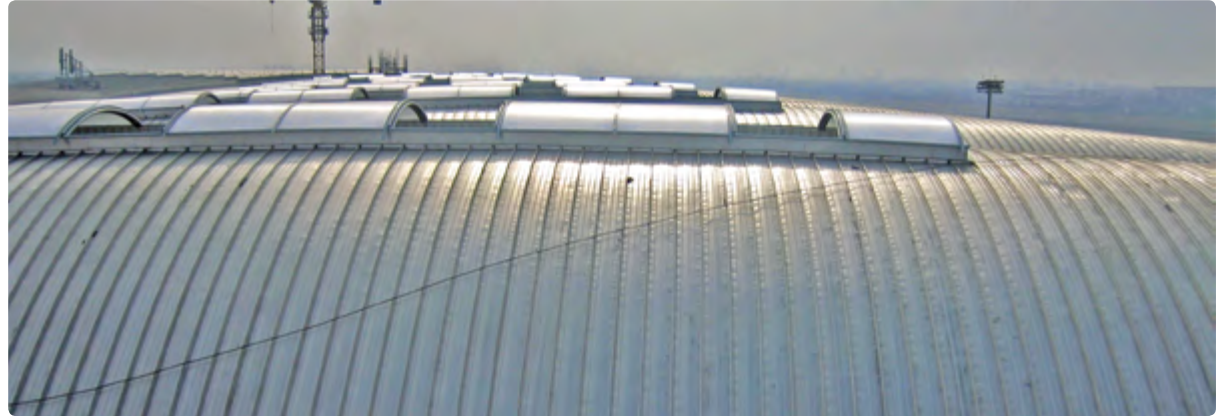
Airports

Qingdao Airport, China

Architect: QADG

SUNLITE® - Clear 25mm
Multiwall Polycarbonate Panel
Skylights - 2,300 sqm

Qingdao's local airport was renovated for the city's role as Olympic co-host for the Beijing 2008 games. The airport was added with new terminal, runways and an aircraft apron area. SUNLITE panels were selected as skylights for the new terminal due to their high thermal insulation and light transmission.





Airports

Hangzhou Airport, China

Architect: ZIAD

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

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 profiles using cold bending. Their leak-free design was complimented by tailor-made gutters at the lower ends of the canopy.





Commercial

Unicentro de Occidente
Bogotá, Columbia

SUNLITE®
Multiwall Polycarbonate Panel
Skylight/Roof

For shopping malls, SUNLITE skylights and roofs provide an abundance of natural daylight, high thermal insulation, UV radiation blocking and ultimately contribute to energy conservation.



Commercial

"My Mall" Shopping Center Limassol, Cyprus

Architect: Alex Raz Architects

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

Special Heat-blocking SUNLITE CL panels were installed at My Mall shopping center to effectively reduce heat buildup while transmitting diffused light into the structure and create a pleasant atmosphere for the visitors.



Commercial

Fun Republic Mall,
Coimbatore, India

Architect: Arris Architects

SUNPAL® - Solar Control 10mm
Multiwall Architectural System
SUNLITE® - Solar Control 10mm
Multiwall Polycarbonate Panel
Skylight/Roof - 3,700sqm
2013

In this project SUNLITE X-Lite Solar
Control panels were used in a dome
and SUNPAL system was installed
in a barrel vault.





Commercial

Hangar 9
Tel Aviv Harbor, Israel

Architect: Y. Gutman Architects

SUNTUF® - Solar Ice
Corrugated Polycarbonate Panel
Decorative Cladding

As part of the Tel-Aviv Harbor renovation in 2001, Hangar 9 was altered from an industrial warehouse into a commerce area with fashion stores and coffee shops. The hangar's outer corrugated metal skin was replaced with a profile-matched SUNTUF Solar-Ice panels. This simple and cost effective solution gave the structure a fresh, modern appearance.



Commercial

Tintal Plaza
Bogotá, Columbia

SUNLITE® - Solar Control
Multiwall Polycarbonate Panel
Skylight/Roof



Commercial

Manufactura Outlet Village
Kiev, Ukraine

Chief Architect: Victor Salamatin

SUNGLAZE™ 4/800 Solar Grey
Solid Polycarbonate Panel System
Skylight / Roof - 1,800 sqm
2013



Commercial

Anvers Confectionery
Tasmania, Australia

Architect: J&M Weeda

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



Commercial

Mercedes Benz R&D Center,
Bangalore, India

Architect: Atelier Architects Pvt
Ltd – SMLXL

SUNGLAZE™ 18mm Sky Blue
& Solar Control
Solid Polycarbonate Panel System
Skylight / Roof - 1500 sqm
2013

The 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 at 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.



Covered Walkways

Huzot Hamifratz Center
Haifa, Israel

Architect: Eldar Architects

SUNPAL® - Solar Control 10mm
Multiwall Architectural System
Covered Street - 3,700 sqm



Covered Walkways

West Rail, KCRC
Hong Kong, China

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



Industry

Warehouse, USA

SUNTUF® Clear
Corrugated Polycarbonate Panel
Sidelights

SUNTUF Rooflights were integrated as sidelights into the metal walls of this warehouse, allowing plenty of natural light into the structure.



Industry

TIS Port, Ukraine

PALRUF® - White 2mm
Corrugated PVC panel
Industrial roofing

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

PALRUF PVC panels are ideal for corrosive environments due to their excellent chemical resistance, as was the case with this gigantic fertilizer storage located in the coast of the Black Sea. SUNTUF Rooflight panels were integrated into the roof in order to admit plenty of natural daylight into the structure.



Industry

James Boag Brewery
Tasmania, Australia

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



Interior Design

A₂SO₄ Design, USA

SUNLITE® - Clear
Multiwall Polycarbonate Panel
Semi-Transparent Walls

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



Interior Design

Griffith University
Gold Coast, Australia

SUNPAL® - Clear 8mm
Multiwall Polycarbonate System
Walls of group study pods
2010



Pedestrian Bridges

Transmilenio Project Bogota, Columbia

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



Pedestrian Bridges

Hung Mui Kuk Footbridge Hong Kong, China

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



Pedestrian Bridges

Pedestrian Bridge Athens, Greece

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



Pedestrian Bridges

Man Lai Court Bridge Honk Kong, China

PALSUN® Clear 8mm
Flat Solid Polycarbonate Panel
Skylight



Public Facilities

'Green Towers' Hinckley
Club 4 Young People,
Leicester, UK

Architect: William Saunders

PALCLAD™ Pro - Green and
orange with welding rods
PVC Wall Cladding System
Hygienic Wall Cladding
2010



Public Facilities

Castle Wood School,
Coventry, UK

Architect: cpmg Architects

PALCLAD™ Pro - Beige and green
with profiles
PVC Wall Cladding System
Hygienic Wall Cladding
2010



Public Facilities

St. Panteleimon Emergency
Hospital, Bucharest, Romania

PALCLAD™ Pro HYG - Green with
welding rods
PVC Wall Cladding System
Hygienic Wall Cladding
2010



Public Facilities

Sourasky Medical Center,
Tel Aviv, Israel

PALCLAD™ Pro HYG - White with
welding rods
PVC Wall Cladding System
Hygienic Wall Cladding
2014



Public Facilities

Ipswich Post Office,
Australia

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



Public Facilities

TAE ETB School
Bogota, Columbia

SUNTUF® - White Opal 1mm
Corrugated Polycarbonate Panel
Skylight/Roof



Public Facilities

Victoria University
Community Sports
Stadium, Australia

Architect: Peddle Thorp
Melbourne

SUNPAL® - Solar Ice 18mm
Multiwall Polycarbonate System
Curtain Wall - 400sqm
2011



Public Facilities

George Town Trade Centre
Tasmania, Australia

Architect: Loop

SUNPAL® - White Ice 10mm
Corrugated Polycarbonate Panel
Sidelight



Public Facilities

Yarraville Community Centre
Victoria, Australia

Architect: Whitefield McQueen
Irwin Alsop

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



Public Facilities

Amberley RAAF Base
Queensland, Australia

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



Pools

Canada Center, Israel

PALSUN® - Solar Control
Flat Solid Polycarbonate Panel
Skylight/Roof



Pools

YingTung Natatorium Olympic Indoor Pool (Beijing 2008), China

SUNLITE® - W. Opal, Clear 10mm
Multiwall Polycarbonate Panel
Skylight



Pools

Technion Institute of Technology, Israel

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

SUNPAL Diffuser Plus panels were installed in three pools at the recreational complex of the Technion, Israel Institute of Technology. The Diffuser Plus tint features double glare prevention - of both transmitted and reflected light, thus creating even and pleasant lighting at any time of the day.





Sports Venues

Le Coq Arena Stadium, Tallinn, Estonia

SUNTUF® - White Opal 1mm
Corrugated Polycarbonate Panel
Skylight/Roof - 11,000sqm

The Estonian soccer stadium was fitted with a new roof during renovation. SUNTUF panels were easily installed and provided a cost-efficient solution. The panels' White-Opal tint provides pleasant, moderate lighting in addition to panels' complete UV blocking.





Sport Venues

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

Architect: Vigliecca & Associados

SUNTUF® 5,6 Waves Clear 2mm
Corrugated Polycarbonate panel
Skylight/Roof - 8,000sqm
Photos by Regis Capibaribe

The “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 that span the entire roof length, which provided elegant appearance without overlap shading and reduced the risk of leakage.





Sport Venues

Allianz Parque, São Paulo, Brazil

Architects: Tomás Taveira,
Edo Rocha

SUNTUF® 5,6 Wave
Clear 2mm
Corrugated Polycarbonate Panel
Skylight/Roof - 7,000sqm

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 built to receive 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 shelter from rains and admit natural daylight to minimize shading of the playing ground.





Sport Venues

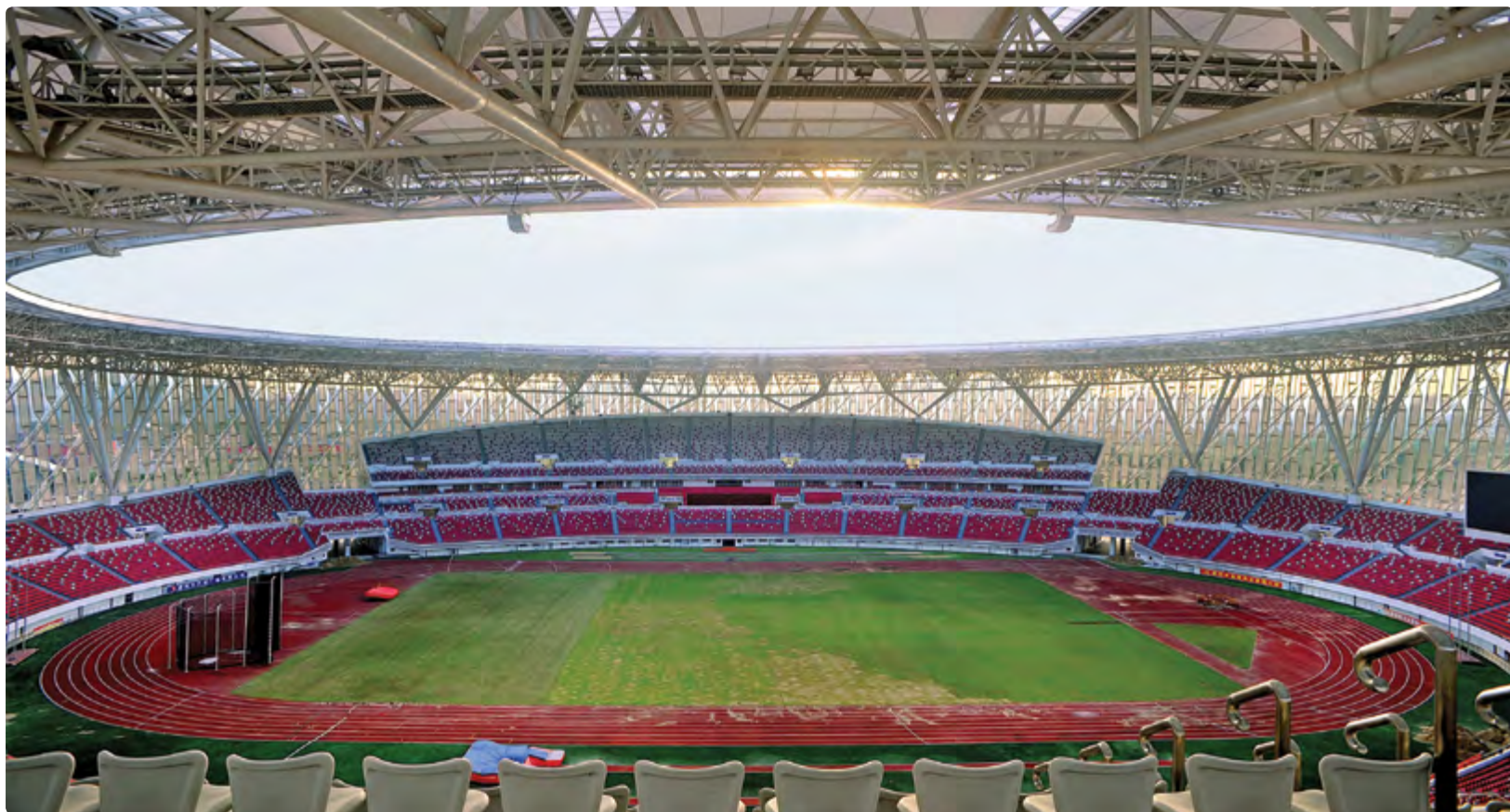
Huizhou Olympic Sports Centre Stadium, China

Architect: CCDI

SUNPAL® - Clear 10mm
Multiwall Polycarbonate System
Skylight/Roof - 6,700sqm

The Huizhou Central Stadium has a 60,000 seat capacity and was a part of a sports complex that hosted the 13th Guangdong sport games. The stadium roof was fitted with clear 10mm SUNPAL skylights, which allow plenty of daylight into the crowd area.





Sport Venues

Sami Ofer Stadium,
Haifa, Israel

Architect: KSS

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

"Sami Ofer" is the first Israeli 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 to and be installed directly onto the main structure, saving on construction costs considerably.





Sport Venues

Trent Bridge
Nottingham, England

Architect: Maber Associates

SUNLITE® - Trans. Blue
Multiwall Polycarbonate Panel
Sidelight

Trent Bridge is the home of 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.





Sport Venues

Nanchang International Sports Centre Stadium, China

Architect: CCDI

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

Nanchang International Sports Center was built to host China's 7th National Intercity Games and accommodates up to 60,000 spectators. The stadium roof was fitted with PALSUN Solar Olympic panels and GA2004 pre-assembled glazing system. The Solar Olympic tint blocks a portion 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.





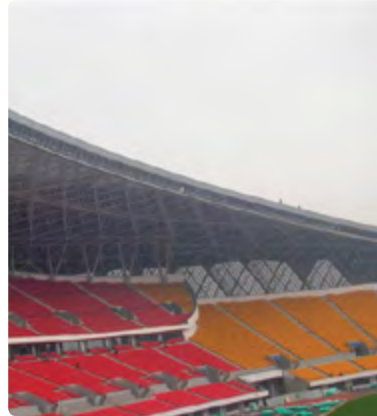
Sport Venues

Guiyang Olympic Sports Centre Stadium, China

Architect: CAPDI

SUNLITE® - Solar Control 16mm
Multiwall Polycarbonate Panel
Skylight/Roof

The stadium was built to host the opening ceremony and individual events of the 9th Ninth National Traditional Ethnic Minority Sports Meet. The stadium can accommodate 53,000 spectators. SUNLITE Solar Control panels were chosen for the roof in order to match the metallic grey appearance of the structure. The panels provide moderate lighting and partial heat blocking, which improve the climatic conditions for the spectators.





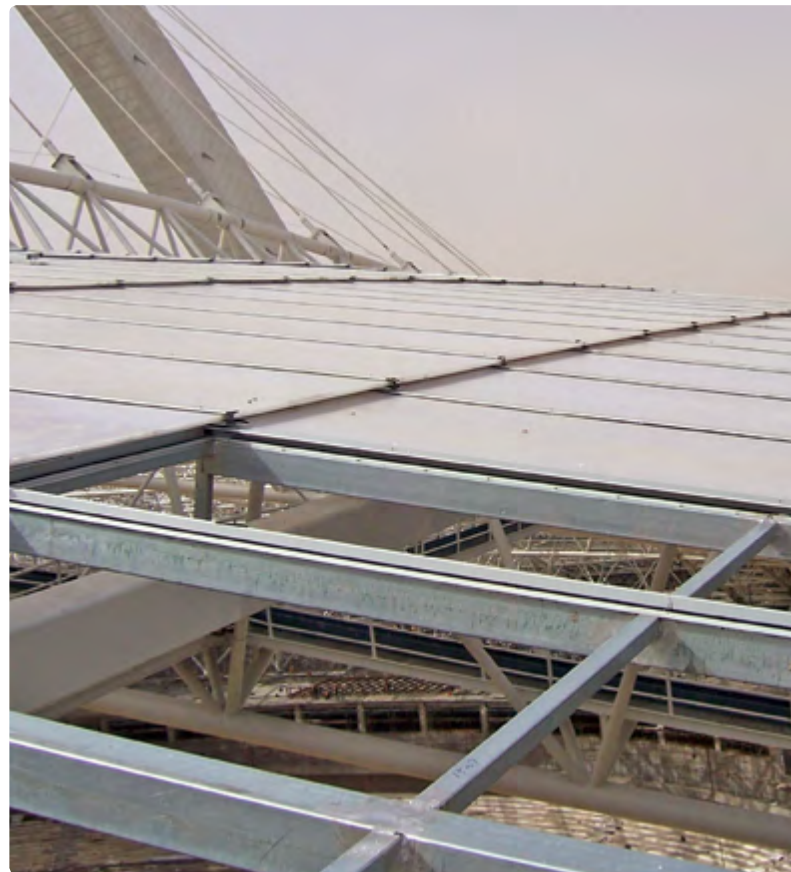
Sport Venues

Erdos Dongsheng Stadium,
China

Architect: China Architecture
Design & Research Group

SUNLITE®- White Diffuser 25mm
Multiwall Polycarbonate Panel
Skylight/Roof - 16,000sqm

The stadium was built for the National Fitness events and can accommodate 57,000 spectators. The stadium's retractable roof, which is considered the largest of its kind, was fitted with SUNLITE panels. The panel's White Diffuser tint creates soft lighting for the crowd and prevents blinding.





Sports Venues

Plaza del Toro Vitoria, Spain

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

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





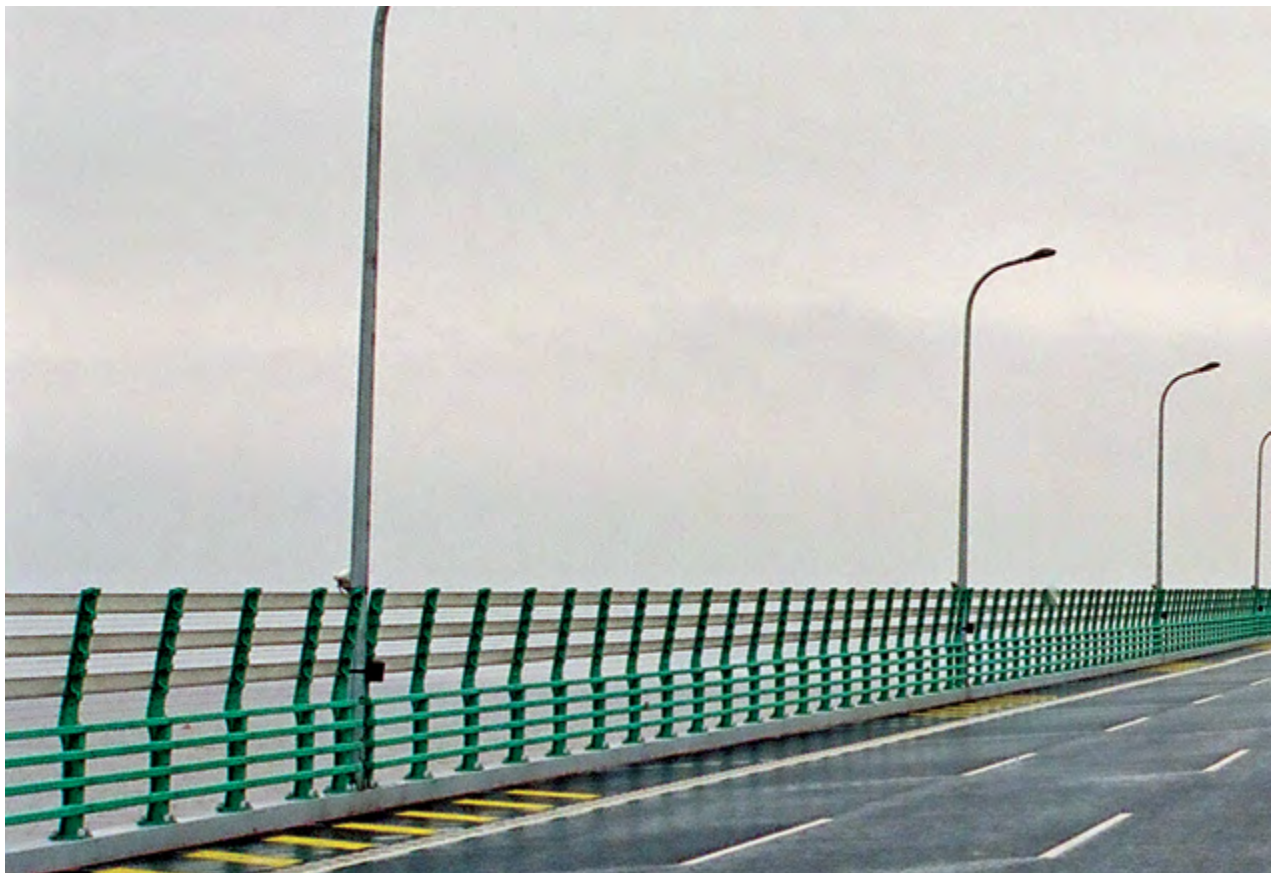
Transportation

Hangzhou Bay Bridge, China

Architect: Tongji University Design
Institute Shanghai

PALSUN® - Clear 8mm
Flat Solid Polycarbonate panel
Skylight/Roof - 14,000sqm

Hangzhou Bay Bridge spans across the Hangzhou Bay on China's eastern coast. Spanning 36km, it is the longest trans-oceanic bridge in the world. The bridge shortens the distance for transportation to and from the Port of Shanghai, the world's busiest port by cargo tonnage. Project schedule was tight to host of the 2008 Olympics torch carrier. 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.





Hangzhou Bay Bridge, China

Transportation

Kelmscott Train Station, Australia

SUNPAL® - Solar Grey 10mm
Multiwall Polycarbonate System
Sidelight



Transportation

La Guardia Bus Station Tel-Aviv, Israel

PALSUN® - Solar Control 6mm
Solid Polycarbonate Sheet
Skylight/Roof



Transportation

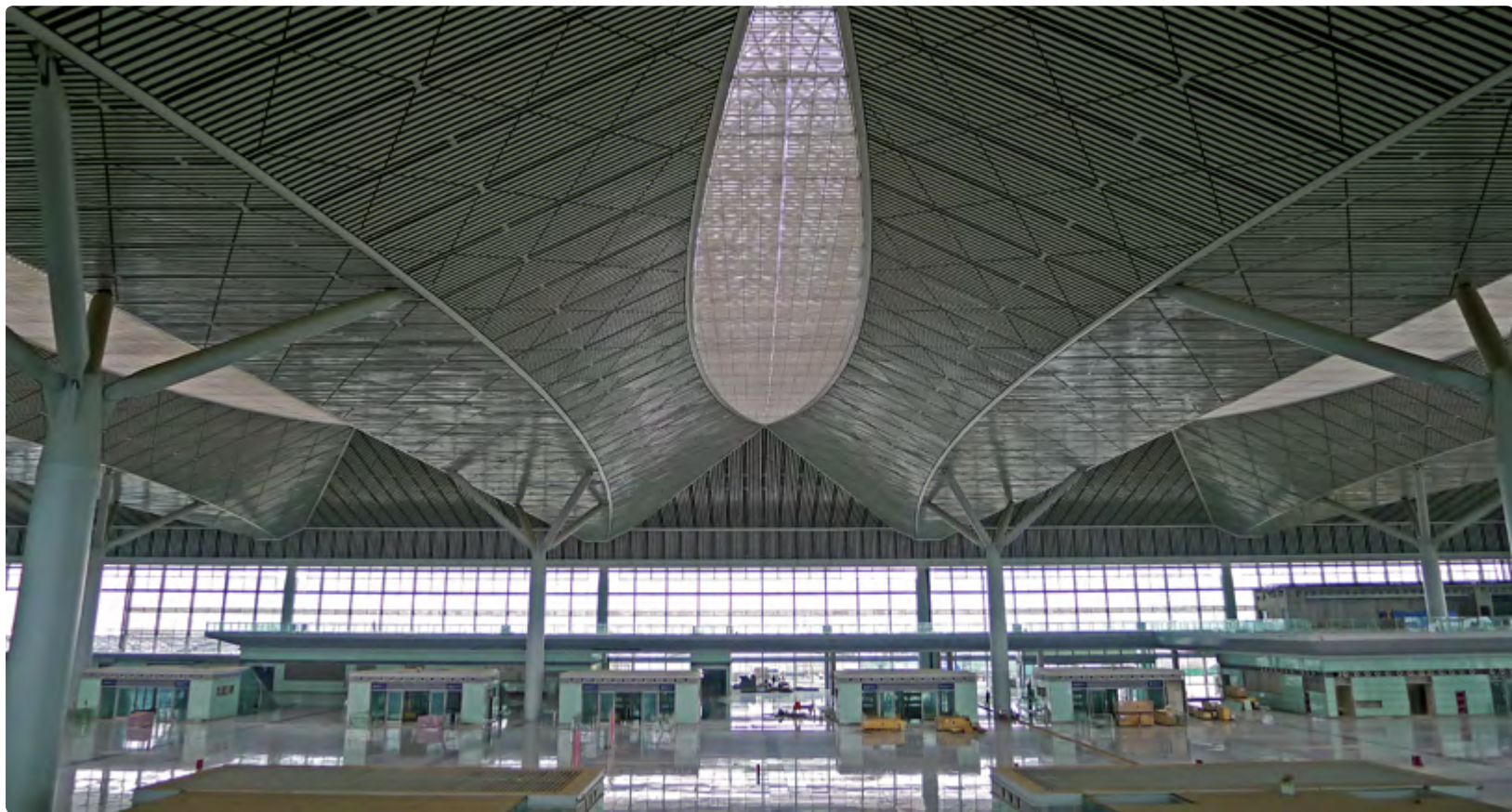
Xian North Railway Station, China

Architect: CSADI

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

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 18mm SUNPAL skylights, which provide leak-proof design structural robustness.





Residential

Private Residence,
New Zealand

SUNPAL® Solar Ice
Multiwall Polycarbonate System
Curtain Wall



Residential

Private Residence, Canada

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



Residential

Private Residence, Australia

SUNTUF®
Corrugated Polycarbonate Panel
Pergola Roofing



Residential

Private Residence, Australia

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





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