

LORD'S CRICKET GROUND · LONDON, UK

Stadia & sports venues

Roofs, stands and facades for the world's stadiums and arenas

Tensile fabric and ETFE for stadiums, grandstands, training centres, concert venues and major events. Designed, engineered, made and installed by one team, from our factory in Chepstow, UK.

architen.com · +44 (0) 1291 638 200

INSPIRE · INNOVATE · PERFORM

ARCHITEN LANDRELL



HAMPSHIRE ROSE BOWL · SOUTHAMPTON, UK

Who we are

Tensile fabric and ETFE structures, designed and made in the UK

Architen Landrell designs, engineers, fabricates, installs and maintains tensile fabric and ETFE structures. Since 1983 we have built roofs, canopies and facades for stadiums, arenas, concert venues and major events on six continents.

We work hand in hand with architects, engineers and contractors, from the first sketch to maintenance. Every fabric panel and ETFE cushion is cut and welded in our own factory, and our group company, Metafab Structures, makes the steelwork that holds it up.

Inspire

We draw on our experience, other industries and the natural world to create inspiring designs.

Innovate

We challenge existing ways of doing things to push boundaries, improve structural and environmental performance, and make the seemingly impossible possible.

Perform

We deliver high-quality products that meet the design and performance requirements of every project.

1983
founded in Chepstow, South Wales

6 continents
where our structures stand

2,000 m²
of production space in our Chepstow factory

In-house
design, engineering, manufacture, installation and maintenance

Company information

The Architen Landrell Group

Four specialist companies, one integrated offer: from bespoke landmark roofs to modular structures, steelwork, coatings and the keder that holds it all together.

Bringing these capabilities together under one group means stadium owners, architects and contractors can come to a single partner for the membrane, the structure that supports it and the components that fix it.

Architen Landrell

ARCHITECTURAL TENSILE FABRIC AND ETFE

Tensile fabric and ETFE architectural structures. Complex and bespoke projects around the world.

architen.com

Metafab Structures

STEELWORK AND COATINGS

Advanced architectural and structural steelwork fabrication for strong modular buildings, tensile structures and rapid construction. Advanced coatings with Metacoatings.

metafabs.com

Fabric Architecture

MODULAR AND SMALL-SCALE STRUCTURES

A standard range of tensile fabric canopies and shade structures, popular with schools and colleges. Full turnkey solution including groundworks.

fabricarchitecture.com

UK Keder

KEDER PRODUCTS

Supply of high-quality keder products for a wide range of applications, from tensile structures to caravans.

uk-keder.com

Our services

From concept all the way through to handover, then maintained

Every service delivered in-house, so one accountable team carries the design intent all the way to match day and beyond.

Runs through every stage — **Project management** — One point of contact, from design to handover

Design
Beautiful, buildable concepts

Engineering
For wind, snow and extreme weather

Manufacturing
2,000 m² in-house production

Support structures
Steel, aluminium or timber

Installation
Safe, skilled site teams worldwide

Maintenance
Inspection, cleaning and repair



BUSAN ASIAD MAIN STADIUM · SOUTH KOREA

Why fabric and ETFE

Long spans, daylight and a signature shape, on a far lighter structure

01

Large clear spans

Fabric pre-stressed into double curves carries its loads in tension, so it covers stands and pitches with far less steel than a conventional roof. Every roof is engineered for the wind and snow at its site.

02

Daylight

From blackout fabric to high-translucency PVC at up to 64% light, and ETFE at up to 95%: enough for natural grass to grow indoors. Printed ETFE and lined fabrics control glare and heat.

03

Sound

A single skin does little to stop sound. Acoustic linings absorb it while still letting light through, as under the Jakarta velodrome roof, and rain noise suppression stops drumming.

04

Fire

Our fabrics and foils are tested to EN 13501-1 and to German and US standards such as DIN 4102 and NFPA 701. We send the test certificates for the material we propose.

05

Insulation

A twin skin loses about 40% less heat than a single skin, and our insulated Thermal system reaches 0.18 W/m²K, meeting Part L. A 4-layer ETFE cushion reaches 1.4 W/m²K.

06

Identity

Curved, sculpted forms on slender supports that can be coloured, printed or lit: a silhouette that belongs to the club and to the skyline.

Choosing the right membrane for each venue

We work in all the main architectural membranes, and our engineers recommend one for each stand, roof or facade, balancing life, light, fire, sound, look and cost.

Fabric	Design life	Light and look	Best for
PTFE glass	30+ years	White or coloured; sunlight keeps white PTFE white and rain washes it clean	Stadium roofs, landmark and long-life roofs
PVC polyester	15–30 years, by grade	Up to 64% light in high-translucency grades; many colours; printable	Stands, indoor pitches, venues; folds for temporary and retractable roofs
Silicone glass	20–25 years	Bright white and available in colours; up to 42% light in white	Bright covers, planted spaces, insulated skins
ETFE foil	30+ years	Up to 95% light; about 1% of the weight of glass	Pitch roofs, atria, pools, facades

Source: Architen Landrell materials pages and ETFE System Guide to Design.



PVC polyester

VERSATILE AND COST-EFFECTIVE

Light and flexible, it takes structural movement, folds for demountable and retractable roofs, and can be coloured, printed or lit. Our most used membrane for grandstand canopies, indoor pitches and touring venues.

- 15–30 years, by grade
- Up to 64% light (high-translucency grades)
- Acoustic linings available

Fire	B-s2,d0 (EN 13501-1) · B1 (DIN 4102-1) · NFPA 701
Used at	Oriam, St George's Park, Jakarta velodrome, Bath Rugby



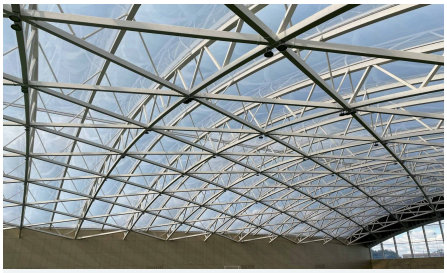
PTFE glass

FOR LANDMARK, LONG-LIFE ROOFS

PTFE-coated glass fibre is strong and stiff, ideal for large permanent stadium roofs. White PTFE stays bright in the sun and is washed clean by rain; it is also available in colours.

- 30+ years design life
- About 14–17% light
- Our highest fire class

Fire	A2-s1,d0 (EN 13501-1) · B1 (DIN 4102) · ASTM · NFPA 701
Used at	Busan Asiad Main Stadium, Chene Park



ETFE foil

MAXIMUM LIGHT AND INSULATION

A single tensioned layer, or air-filled cushions of two to four layers: the choice where daylight and natural grass growth matter.

- About 1% of the weight of glass
- Up to 95% light, set by printing
- 30+ years; 100% recyclable

U-value	2-layer 2.9 · 3-layer 1.8 · 4-layer 1.4 W/m²K
Fire	B-s1,d0 (EN 13501-1) · B1 (DIN 4102)
Used at	LCFC Training Ground, Munhak Aquatics Centre

COMPTON AND EDRICH STANDS · LORD'S, LONDON

Featured project

Lord's Cricket Ground: the Compton and Edrich Stands

WilkinsonEyre wanted the two new stands to match the Media Centre, whose shell is made of GRP panels, each a different shape. Building the stands the same way in GRP would have been very expensive. Fabric gave the same sculpted look for much less, and is lighter on the structure and quicker to install.

1,300 m² of PVC polyester roof and facade now frame the upper tiers. To keep the back of the stands seamless, the fabric meets an aluminium bullnose folded in two directions. On site, our team overlaid the 3D model on the timber beams with augmented reality on an iPad, so beams out of position were corrected before our brackets went on.

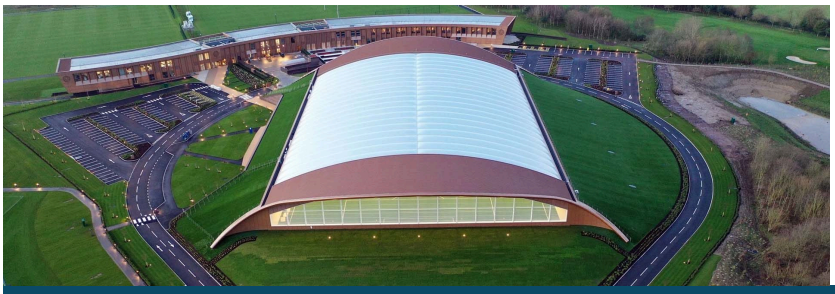


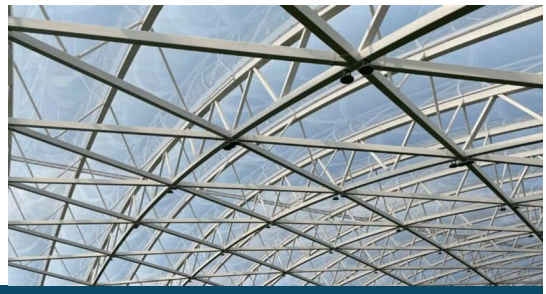
2,600
extra seats across the two stands

1,300 m²
of PVC polyester roof and facade

Training and performance centres

Full-pitch roofs, flooded with light





Leicester City FC Training Ground

SEAGRAVE, LEICESTERSHIRE · ETFE

A full-size indoor pitch under a two-layer ETFE cushion roof that lets in enough daylight for natural grass to grow. A single layer of ETFE on cables replaces glazing on the end wall.

Plan area	8,300 m²+
Cushions	40, two-layer
Footprint	75 m × 112 m
U-value	2.9 W/m²K





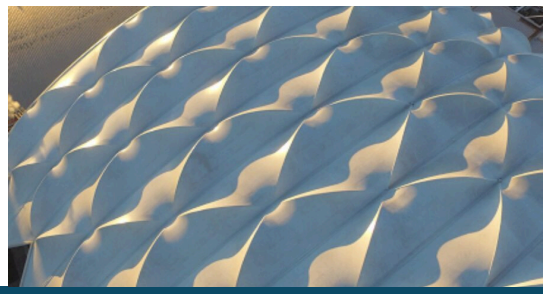
St George's Park, National Football Centre

BURTON UPON TRENT · PVC POLYESTER

The indoor pitch at the £105m training base for England's national teams, under a roof nearly the size of two full-size pitches. Lighter than glass, it saved steel and lets teams train in daylight in any weather.

Fabric	13,500 m² PVC polyester
Building	120 m × 80 m
Covers	Pitch and 200-seat gallery
Architect	Red Box Design Group





Oriam, Scotland's Sports Performance Centre

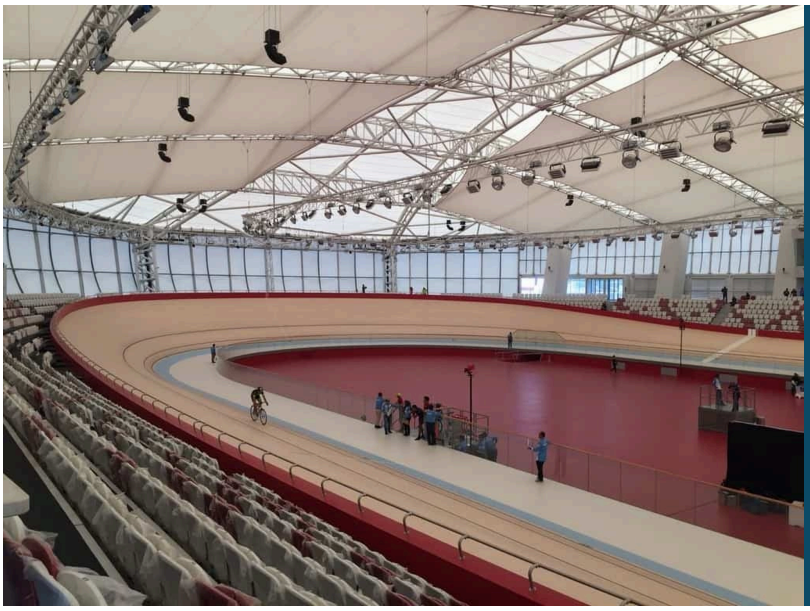
EDINBURGH · PVC POLYESTER

16 PVC polyester panels stretch over diagonal arches to form an undulating barrel vault: Europe's largest-span tensile fabric roof over an indoor 3G pitch. CIBSE Building Performance Awards 2018, Project of the Year (Leisure).

Roof area	9,000 m²
Plan	116 m × 76 m
Panels	16 tensile membranes
Pitch	Indoor 3G

Major games venues

Built for the world stage

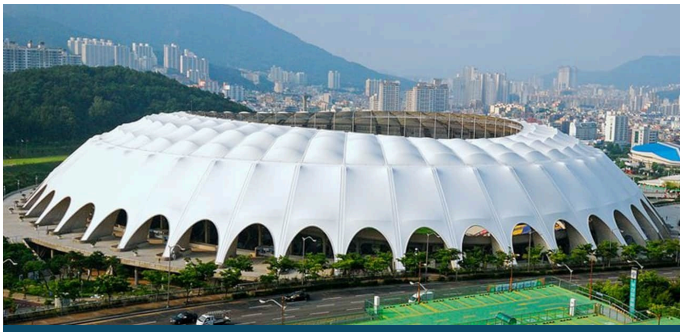


Jakarta International Velodrome

JAKARTA, INDONESIA · PVC POLYESTER

Built for the 2018 Asian Games: roof, acoustic liner and shaped wall panels, made in Chepstow and installed by our own team. The liner absorbs sound but lets light through, so the track needs little artificial light by day.

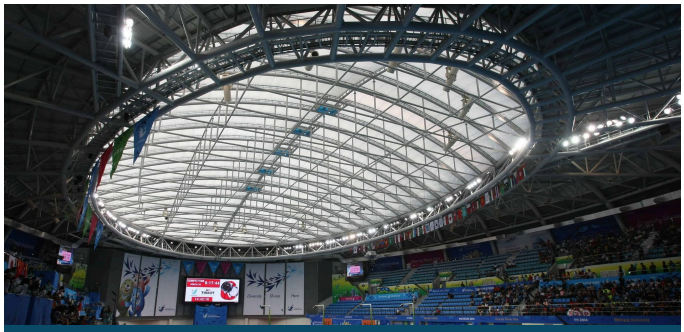
Roof	10,000 m² PVC polyester, 36 panels
Largest panel	10 m × 45 m
Acoustic liner	5,000 m²
Walls	3,500 m²



Busan Asiad Main Stadium

BUSAN, SOUTH KOREA · PTFE GLASS

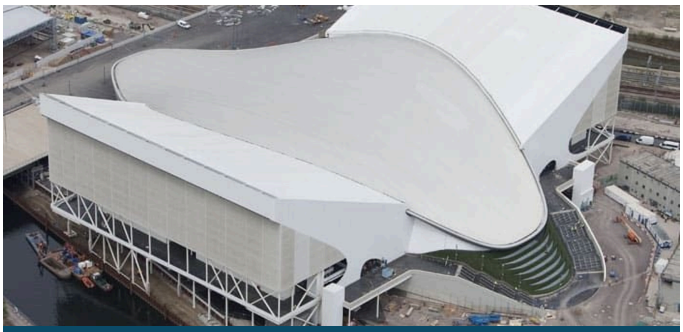
Engineering and detailing of the PTFE glass roof over 53,769 seats, for the 2002 Asian Games and FIFA World Cup. More than 120 biaxial tests; templates cut in our UK factory.



Munhak Aquatics Centre

INCHEON, SOUTH KOREA · ETFE

Three-layer ETFE roof for the 2014 Asian Games: 49 cushions over 3,000 m², with 85% light transmission and opening rooflight vents.



London 2012 Aquatics Centre

LONDON, UK · PVC POLYESTER

Two temporary wings, 50 m high, clad in 25,000 m² of solid and mesh fabric, took seating from 2,500 to 17,500. Taken down and recycled after the Games. With Zaha Hadid Architects and Arup.



London 2012 Water Polo Arena

LONDON, UK · INFLATED PVC

A fully demountable arena for 5,000 spectators under an inflated PVC cushion roof with an acoustic lining. IAA Award of Excellence 2013, inflatable structures.

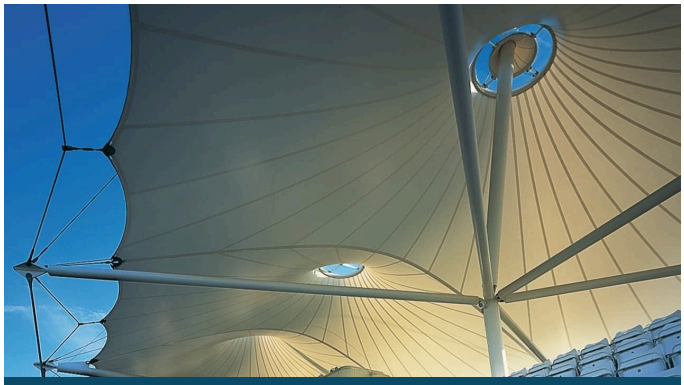
Shelter, shade and a signature skyline



Kensington Oval

BRIDGETOWN, BARBADOS

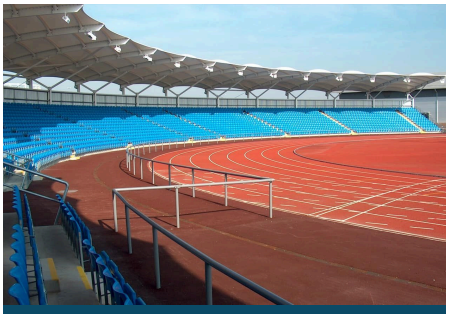
1,500 m² of translucent fabric ceiling and day/night sight screens for the ICC Cricket World Cup 2007, with Arup.



Hampshire Rose Bowl

SOUTHAMPTON, UK

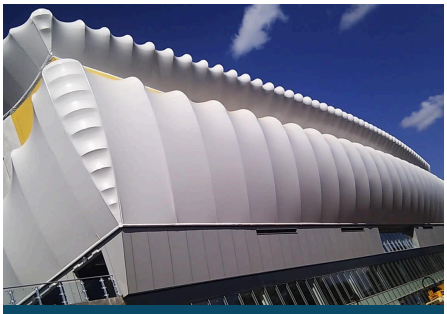
Now the Utilita Bowl. Fabric canopies over the pavilion and a 12,000-seat stand, with Hopkins Architects.



Manchester Regional Arena

MANCHESTER, UK

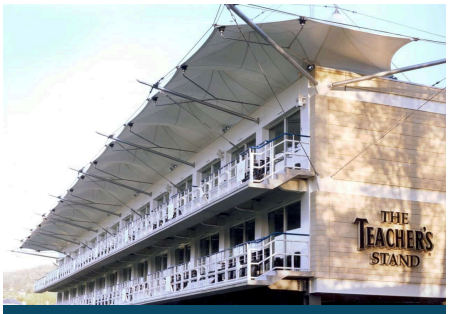
61 bespoke canopies lining 360° of seating, for the 2002 Commonwealth Games.



Alexander Stadium

BIRMINGHAM, UK

A curved grey skin wraps the back, roof and gables of a new grandstand.



Bath Rugby, The Rec

BATH, UK

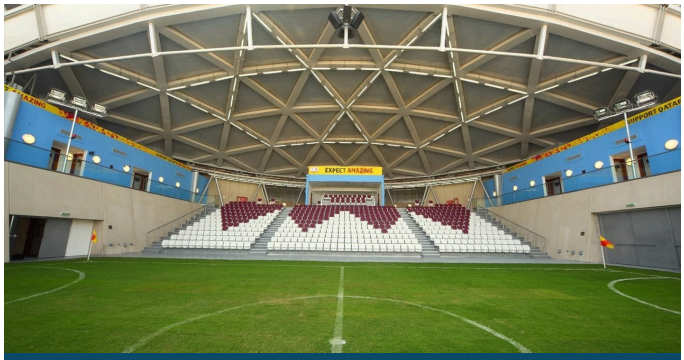
Multi-conic grandstand canopy with discreet stainless-steel siphonic drainage.



Ato Boldon Stadium

COUVA, TRINIDAD

Long-span barrel-vault grandstand canopy for the FIFA U-17 World Cup 2001.



Doha Showcase Stadium

DOHA, QATAR

We designed and made the 238 fabric hoods, with a LowE coating, for the showcase stadium of Qatar's 2022 World Cup bid.

Amphitheatres and performance venues

Cover for the crowd, and a clear view of the stage

Long-span canopies that keep audiences dry with clear sight lines to the stage, engineered for snow and wind, tuned for sound, and made in our UK factory for installation anywhere in the world.



Darien Lake Amphitheater

NEW YORK STATE, USA · PVC POLYESTER

A 5,000 m² PVC polyester canopy for the performing arts centre at Darien Lake, near Buffalo, covering almost four times the space of the original amphitheatre. Engineered and made in South Wales, then installed under our supervision.

5,000 m²
PVC polyester canopy

6,000
covered seats



Montage Mountain Amphitheatre

SCRANTON, PENNSYLVANIA, USA

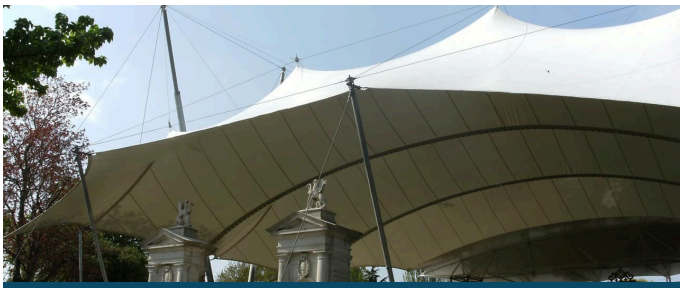
Our original canopy went up in 2000. After the 2007 blizzard we rebuilt it from patterns kept on file, in time for the first concert of the season, and we replaced it again in 2026.



Chene Park (Aretha Franklin Amphitheatre)

DETROIT, MICHIGAN, USA

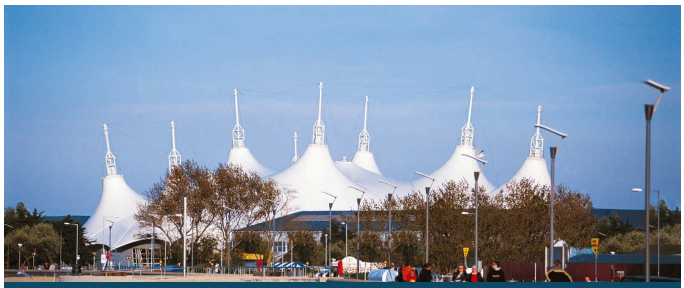
A re-engineered PTFE glass ridge-and-valley roof installed in an eight-week window, with a self-inflating gutter that sheds snow and adjustable acoustic baffles for clearer speech and music.



Opera Holland Park

LONDON, UK

A competition-winning free-standing canopy beside Grade I listed Holland House. Covered area up from 1,200 to 1,600 m², 23% more capacity, with peaks shaped to reflect sound to the audience.



Butlin's Skyline Pavilions

MINEHEAD, UK

One of three large tensile structures of about 10,000 m² each, covering entertainment, arena and concession spaces at Butlin's UK resorts.

Event overlay, stages and touring

Fast to build, ready to move

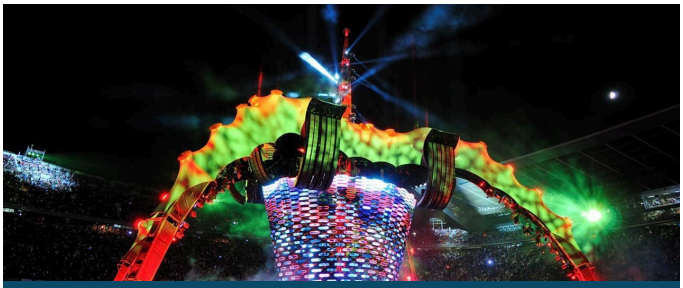
Demountable, reusable fabric for games venues, ceremonies and stadium tours: very large panels engineered for wind, often on steelwork that is used again.



Temporary climbing venue

PARIS, FRANCE · 2024

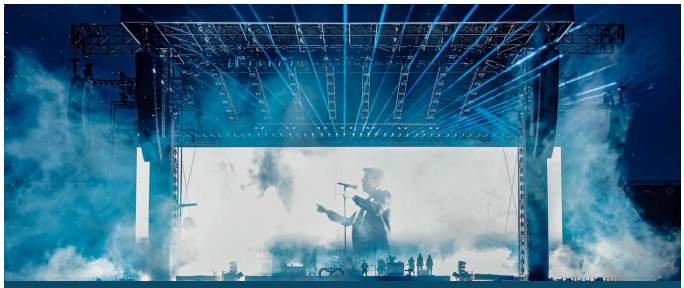
1,500 m² of printed fabric cladding on the steel frame behind the climbing walls: one image across 11 panels up to 32.25 m long. Afterwards the venue was taken down and its frame reused.



U2 360° world tour

STADIUM TOUR · 2009

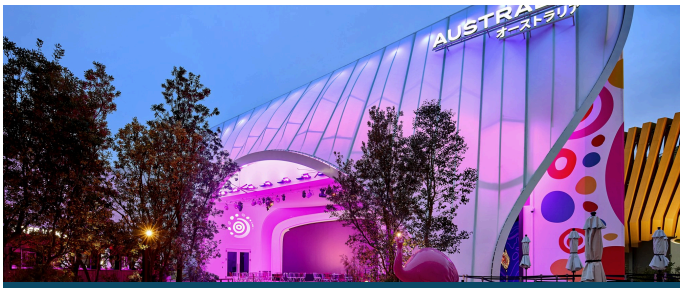
Multi-conic fabric clads Mark Fisher's steel "Claw" in a colour chosen by the band. The order came nine weeks before the first fitting in Barcelona, so the design had to be right first time.



The Killers tour

STADIUM TOUR · 2024

A new-generation flat stage roof for stadium shows, quick to put up and take down. We also make stage roofs for other stadium tours, including Pink and Harry Styles in 2023.



Australia Pavilion, Expo 2025

OSAKA, JAPAN · 2025

8,500 m² of sculpted fabric facade, walls and cushion roof in 87 panels, made in Chepstow. It sits on a reused steel frame with no permanent foundations, so it can be taken down and rebuilt. Photo © Hufton+Crow.



ABBA Arena

LONDON, UK

A demountable arena for ABBA Voyage, with acoustic fabric in the food and drink area that outperformed the timber first planned.



LEICESTER CITY FC TRAINING GROUND · SEAGRAVE, UK

Let's talk about your venue

Working hand in hand with design and engineering teams to find solutions

Maintenance and repairs

Already have a fabric or ETFE roof?

We inspect, clean, repair and re-skin fabric and ETFE roofs around the world, including roofs built by other companies, with a 24-hour emergency response.

- Inspections and condition surveys
- Cleaning and re-tensioning
- Repairs on site, or new sections from our factory
- Upgrades: insulation, LowE or acoustic linings

Maintenance team: maintenance@architen.com

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ARCHITEN LANDRELL

INSPIRE · INNOVATE · PERFORM

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