MakMax
Taiyo Middle East

ETFE layers

SINGLE & MULTI LAYER APPLICATION

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SINGLE LAYER APPLICATION

ETFE foil can be applied in a single layer to form a durable, lightweight glazed roof.

Reinforced with cables, lightweight steel or aluminum to maintain shape and stability, a single-layer ETFE structure is perfect for allowing natural light into a building via applications such as skylights and atrium roofing.

Flexible and able to form architecturally unique shapes, ETFE foil is also popular as an architectural building facade.

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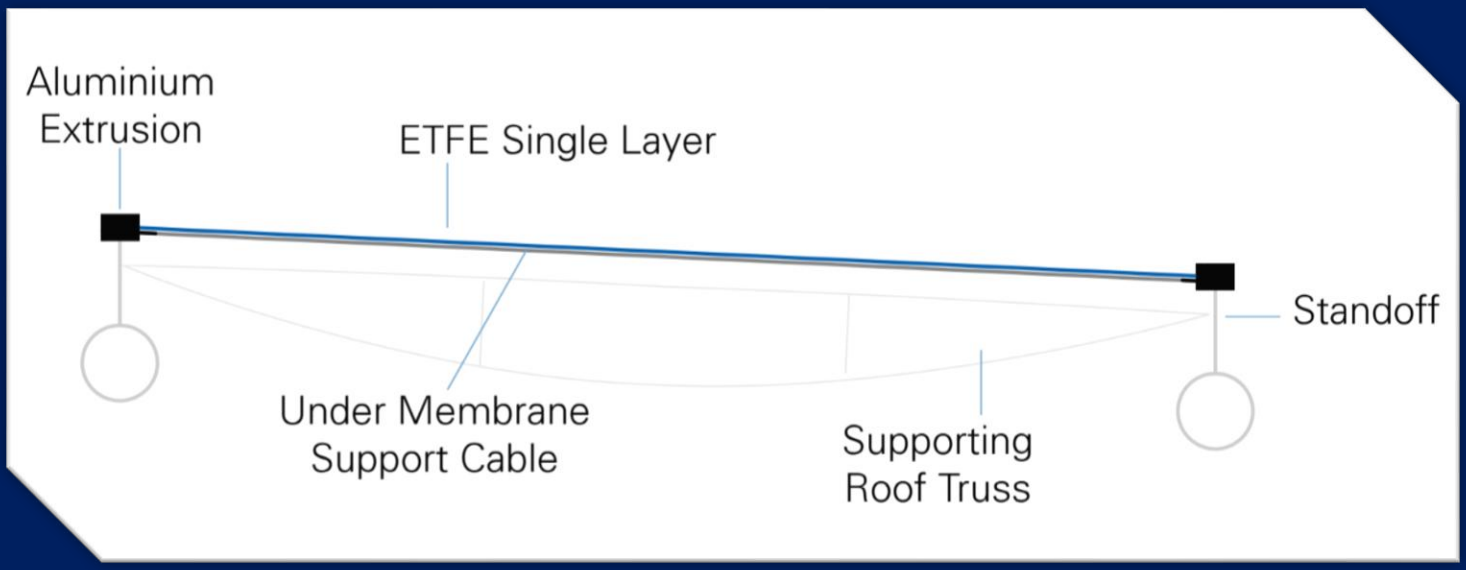
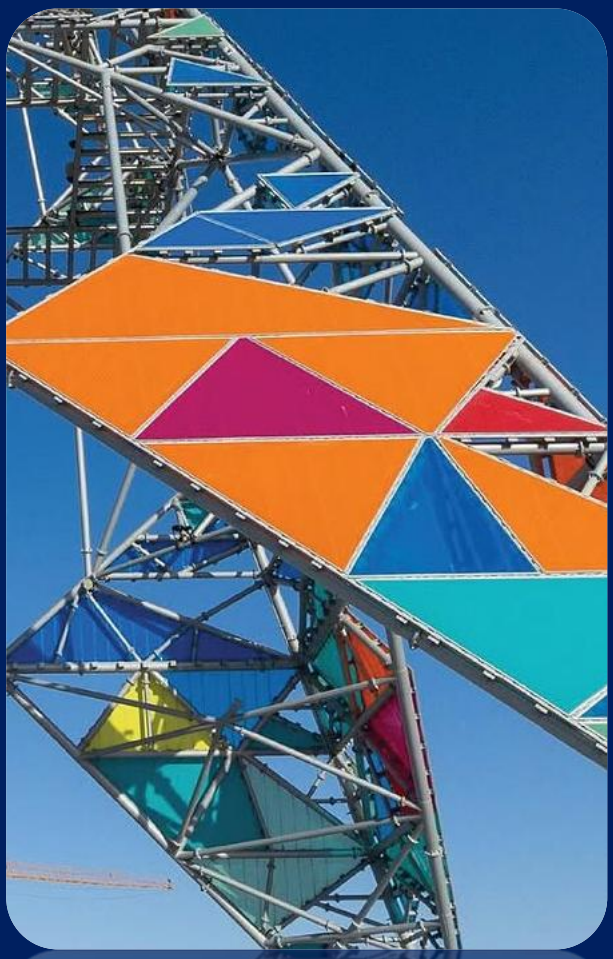
Single Layer





Art Tower – Riyadh, KSA

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MULTI LAYER APPLICATION

Taiyo ETFE system makes use of air-filled ETFE pillows to create lightweight, thermally insulated and highly translucent roofing.

The ETFE pillows, or cushions, are created with a pneumatic system which maintains low-pressure air between 2 or 3 layers of ETFE film. The cushions are restrained in aluminum extrusions and supported by a lightweight truss frame and cable system.

Under typical loading conditions, ETFE cushions can range from 1 to 5 meters wide and reach up to 60m in length.

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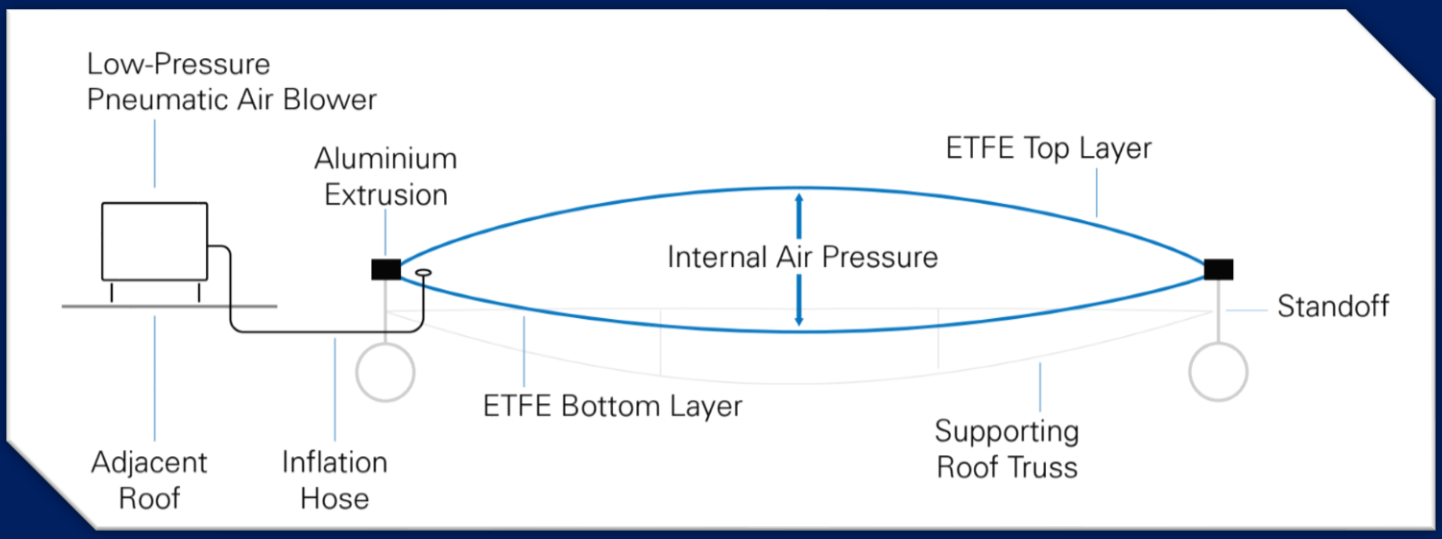
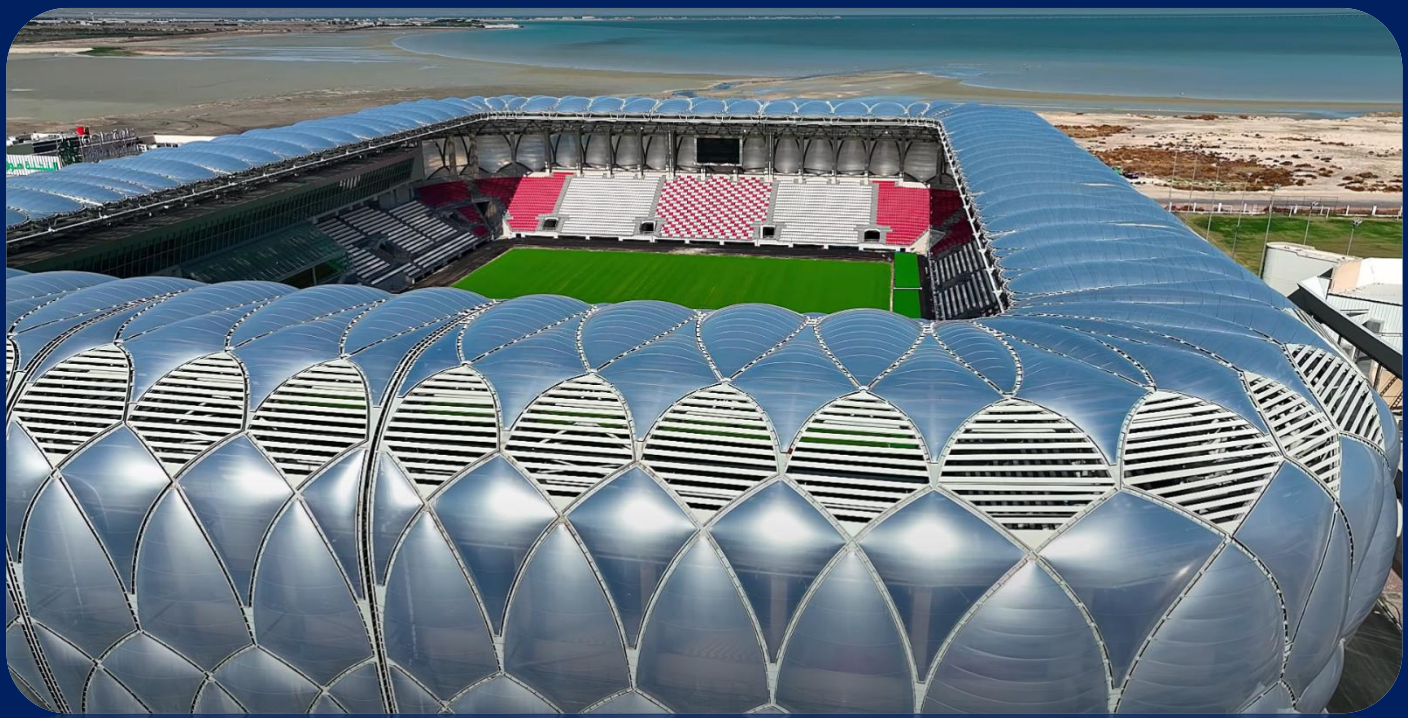
Dual Layer





Jaber Mubarak Al Sabah Stadium - Kuwait

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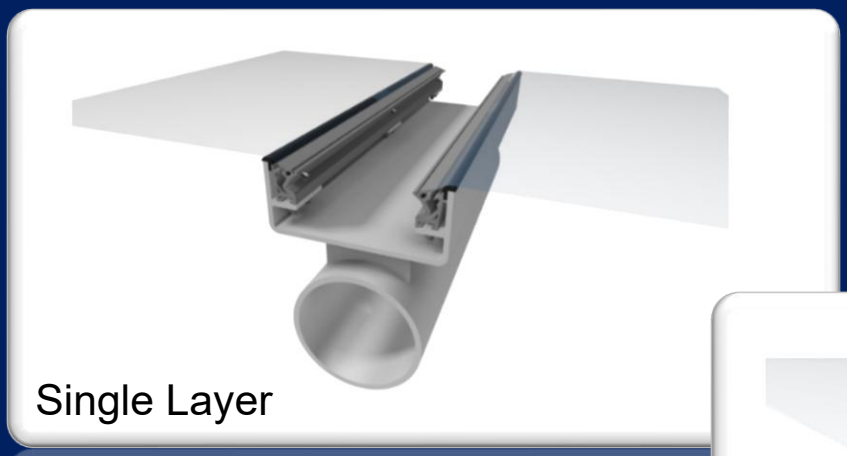
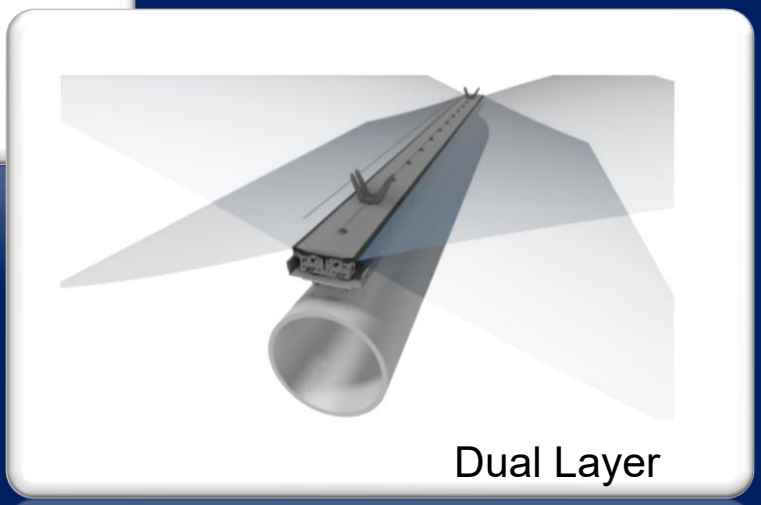
EXTRUSIONS / CLAMPING SYSTEMS

The ETFE foil layers are bonded to the steelwork via a lightweight anodized aluminum extrusion system. Extrusion systems incorporate internal rubberised components to make the connections waterproof.



Single Layer



Dual Layer

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