

UFC ARENA Case Study

UFC 242
September 2019
Yas Island, Abu Dhabi

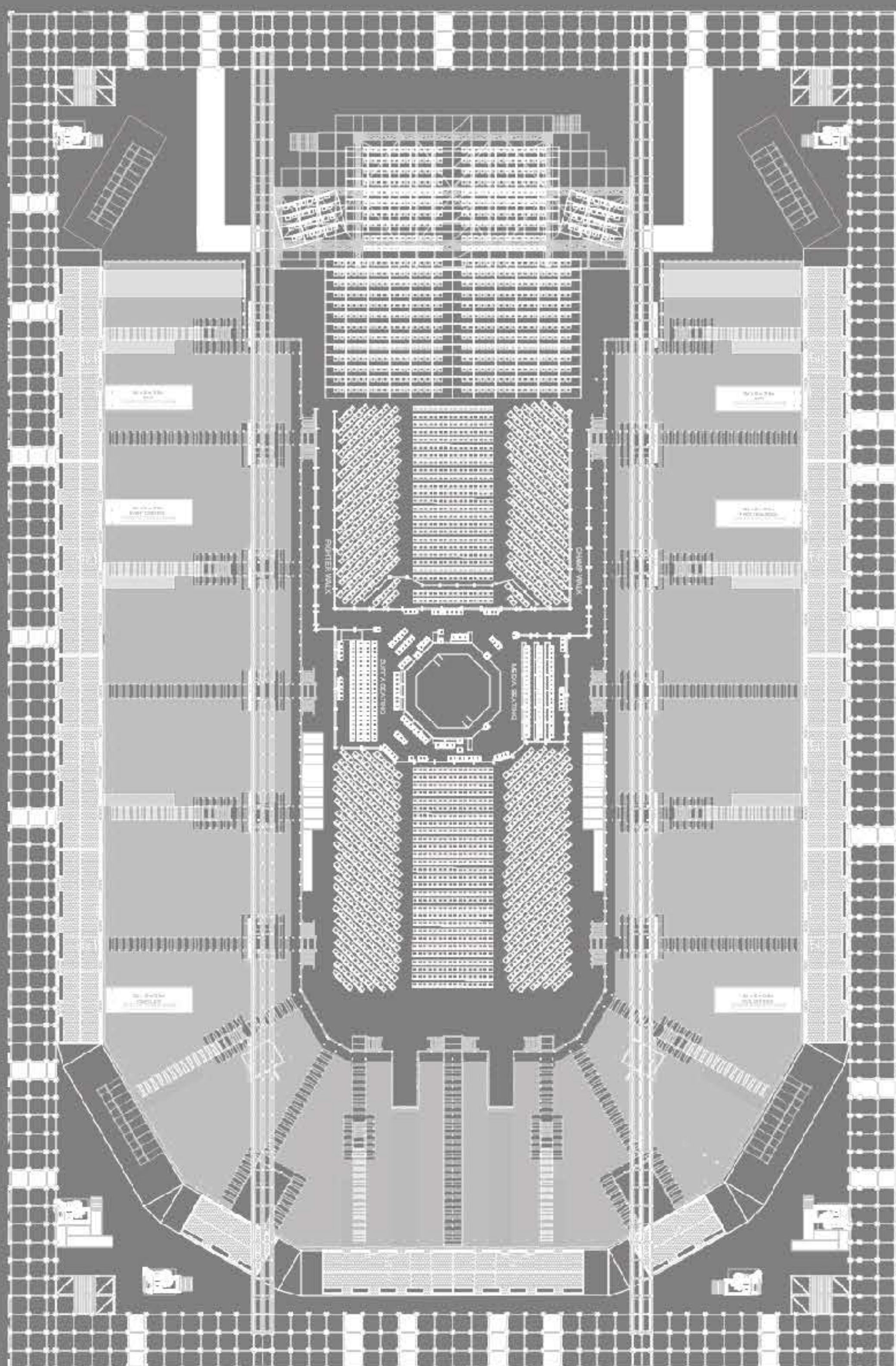
A build overview and technical
information guide.

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The AES arena is a temporary roof system, which is a unique and distinctive cover solution, suitable for not only grandstands, stages and events but also public utility works, local authorities, government buildings, historic buildings, highways, bridges and industrial market sectors.



Arena Facts

155m (L) x 102m (W) footprint

10,296 sq.m of floor space

220,506m³ volume inside

26m internal height in centre

Approx. 170T rigging capacity in roof (UDL)

15m internal height on perimeter walls

Full A/C option

27,000m of vinyl skins - fully covered

High UV anti mieldue

FR BS 7837 TEST 5438B2 – B2 (British standard)

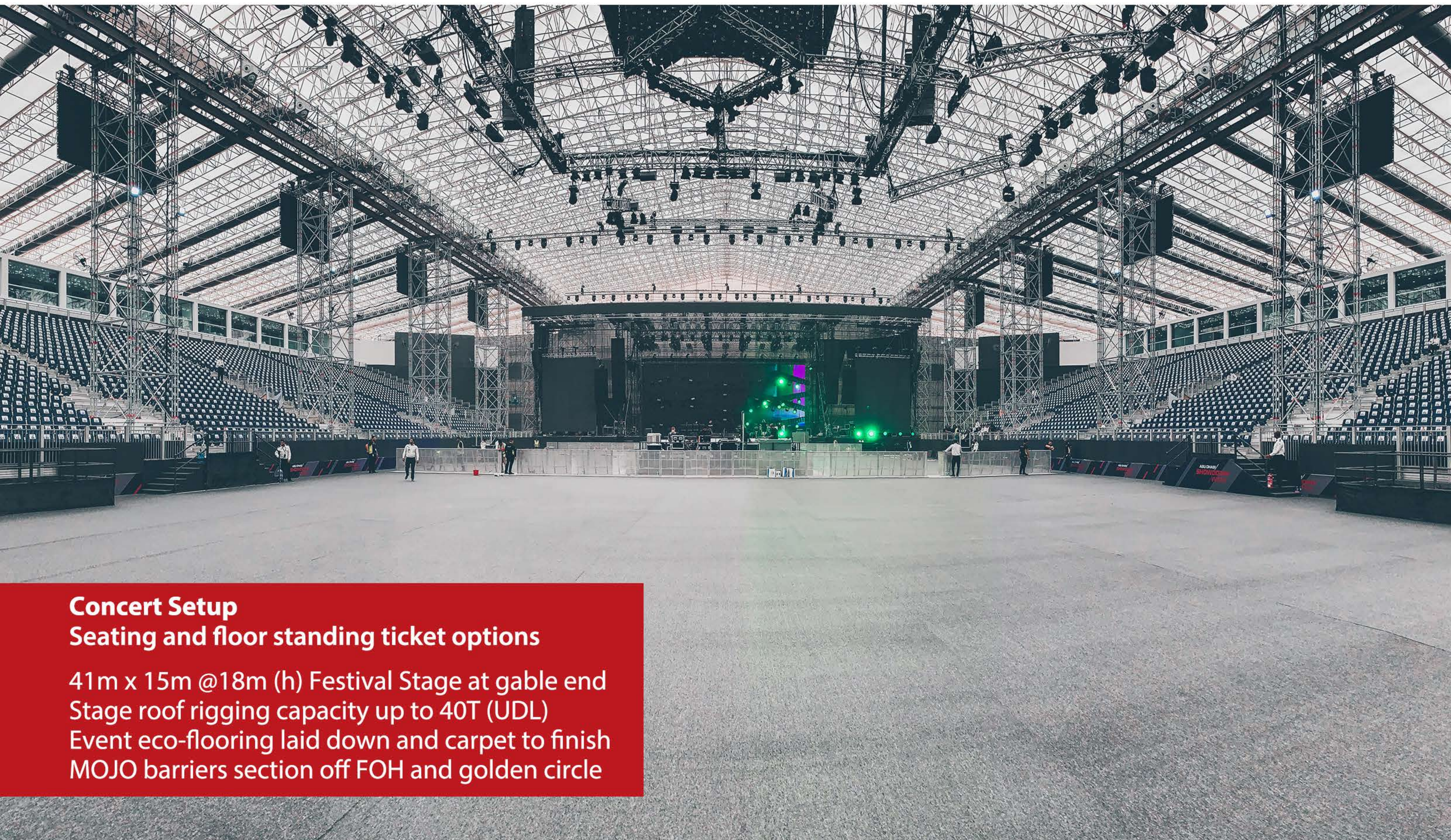
FR/DIN4102. (French & German Standard) B1-PASS

BSEN13501-1-B,S2,D1 Anti yellowing – 3 years

The AES arena is the largest temporary structure currently available in the MENA, that has high rigging capacity in the roof and high side/facade walls. The roof structure creates a large amount of internal space, which can be used for concerts, exhibitions, sporting events etc.

The Arena was purposely built on Yas Island, Abu Dhabi, to provide an indoor venue to host one the region's most highly anticipated sporting events in 2019, UFC 242. The sold-out MMA event took place on Saturday 7th September 2019 and over 15,000 fight fans turned up to fill the brand-new arena.

3 nights prior to the UFC fight night, the venue also hosted the Red Hot Chili Peppers. The rock band had over 13,000 fans attend the music festival using both, floor standing and seating options.



Concert Setup

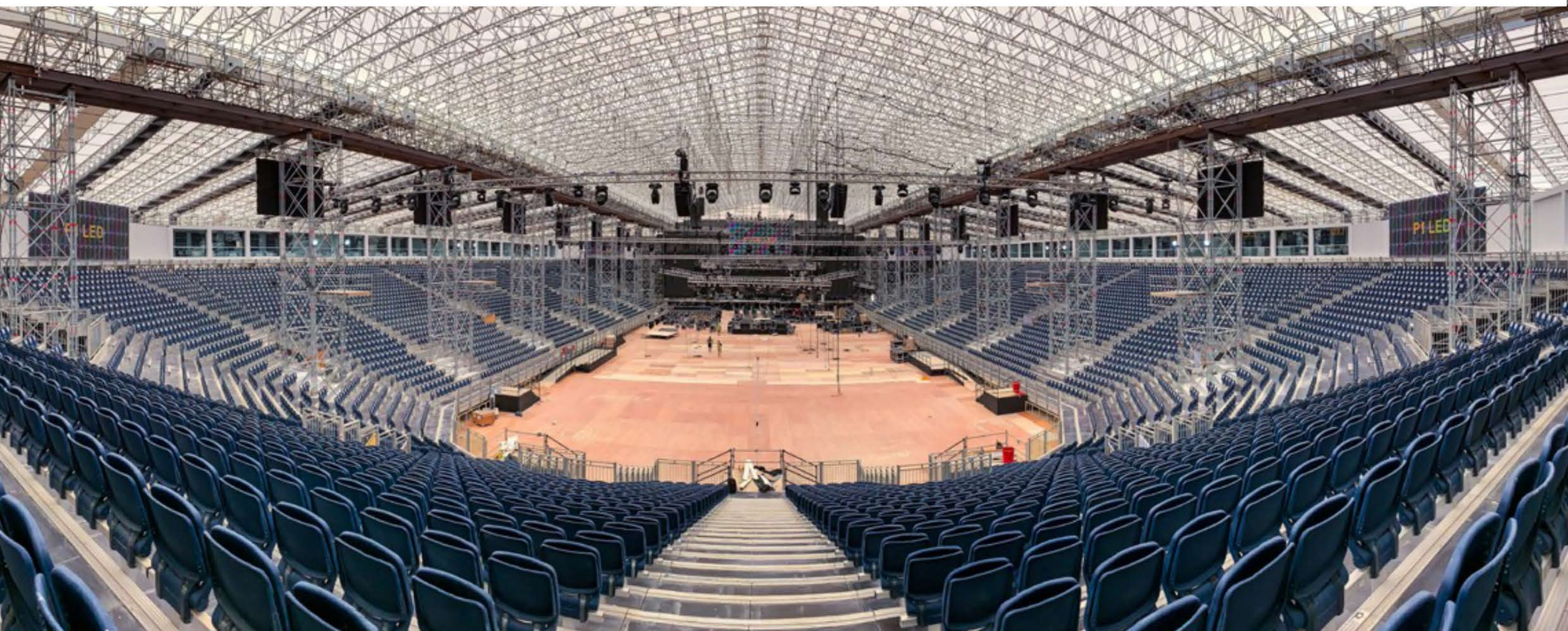
Seating and floor standing ticket options

41m x 15m @18m (h) Festival Stage at gable end
Stage roof rigging capacity up to 40T (UDL)
Event eco-flooring laid down and carpet to finish
MOJO barriers section off FOH and golden circle



All Events Services had spent over 3 months constructing the gigantic structure, using 49,344 cubic metres of scaffolding! Spanning 102m wall to wall, with a 15,810 sq.m roof that is supported by 18 heavy duty scaffold towers.

AES have recently improved the engineering on the arena structure and have reduce the number of support legs by 60%. This allows us to offer an events space with a minimum number of unobstructed views for the spectators.





The Roof

The clearance of the roof starts at 15m internally on the side walls and rises up to 24.5m at the apex of the central roof section.

The whole structure has been wrapped with 24,540 sq.m of vinyl sheeting, which allows the venue to be protected from the weather and air tight for the air conditioning system to climate control the venue.

Externally, the white vinyl was used as a projection screen, transforming the structure into an advertisement billboard. Displaying the build up images and videos for the event and future events run by the promoter.



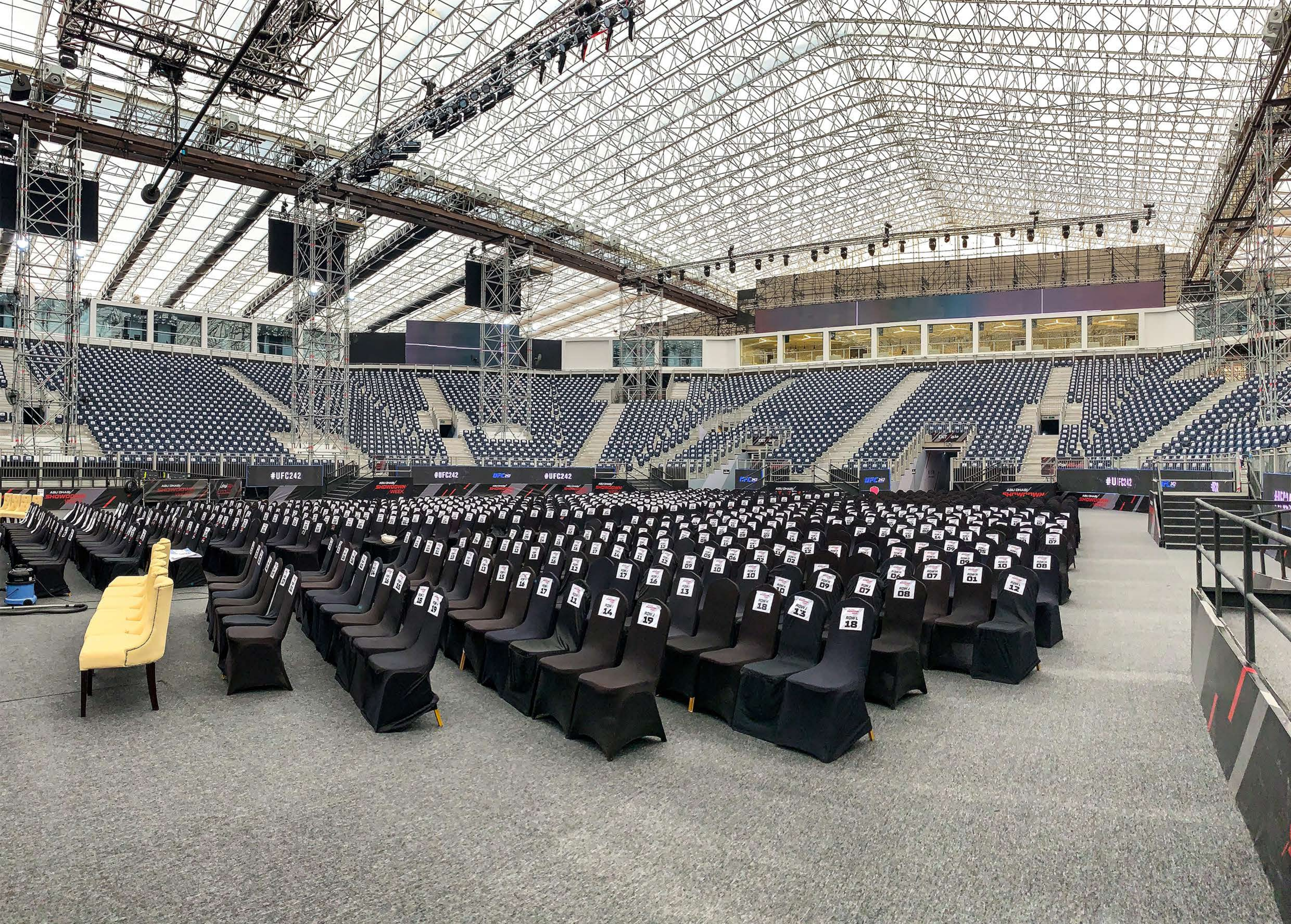
THE ROYAL BOX



VIP boxes

To run a successful event in the Middle East, a venue must cater for VIPs and royal guests, providing luxurious areas with excellent vantage points of the show.

In The Arena, the AES team installed an elevated 1,200 sq.m VIP deck at 10m height from the floor, which wraps around 3 sides of the arena, providing spectacular views and excellent space for the hospitality boxes.



Grandstand Seating

Below the VIP deck, AES built 10,800 grandstand seats that surround the venue floor in an amphitheatre style layout.

Utilising the seating corner system, the AES design maximises the number seats that can be installed in the space available. The stadium style design offered spectacular views through out the venue, whilst complying with full event egress safety standards.

An additonal 6,000 floor seats were installed for the UFC fight.



For the UFC 242 event, AES provided a 20 tonne load capacity in the central section above the octagon.

Roof Load Capacity

The aluminium roof is a lightweight modular system that is designed to be erected fast and efficiently, it also has been engineered to be strong and can offer high loading options.

With Approx. 170T rigging capacity in roof uniformly distributed load (UDL) through out the roof.



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