



COWBOYS STADIUM

Architecture Fact Sheet

Site:

- The Cowboys Stadium site covers 73 total acres; the overall site encompasses 140 total acres
- The stadium is 3 million square feet containing 104 cubic feet of volume
- Stadium length – 900 feet from one end zone retractable wall to the opposite end zone retractable wall

Exterior Façade:

- Canted 800-foot glass wall exterior
 - slopes at 14-degree angle
 - 86-foot-high glazing (glass) system
- Lens (clerestory)
 - 33 feet at highest point with overall length of 904 feet
- Arches soar 292 feet above playing field
 - Each boxed arch is 17 feet wide and 35 feet deep
 - Each arch weighs 3,255 tons
 - Each arch spans quarter-mile in length
 - Top of steel at the highpoint of the main arched trusses is 292 feet above the playing field.
- Retractable end zone doors
 - The 180-foot-wide by 120-foot-high operable glass doors, located at each end of the stadium, are the largest operable glass doors in the world
 - Five 38-foot panels take 18 minutes to open or close
- Roof and Roof Structure
 - At 660,800 square feet, the stadium's roof is one of the largest domed sports structures in the world
 - Soaring 292 feet above the playing field, the two monumental arches support the retractable roof – the world's longest single-span roof structure
 - Encompasses 104 million cubic feet of volume
 - Opening 410 feet long by 256 feet wide encompassing 105,000 square feet
 - Each panel weighs 1.68 million pounds
 - The travel distance of each panel is 215 feet
 - Consists of 14,100 tons of structural steel (which is equivalent to the weight of 92 Boeing 777s)
 - Opens or closes in 12 minutes
 - Materials:
 - non-operable pieces - steel with PVC membrane
 - operable pieces – Teflon coated fiberglass fabric
 - The arch truss is fabricated from special high-strength grade 65 steel imported from Luxembourg
 - The structural steel's wide flange sizes are up to W14x730 (14 inches in depth and 730 lbs. per foot)- the heaviest shape rolled in the world
 - Number of bolts in arch spans: 50,000
 - Total length of welding in arch spans: 165,000 feet
 - Gallons of primer paint: 2,000
 - Gallons of finish paint: 2,000
 - The final keystone piece of the arch truss planar section is 56 feet long and weighs 110,000 pounds