

Golden 1 Center: Designed for fans, city and planet

AECOM, the world's most prolific NBA arena designer, and the Sacramento Kings have created a sports and entertainment venue like no other. Golden 1 Center celebrates Sacramento's climate and lifestyle with a unique **indoor-outdoor design** that reverses the typical introverted arena. The arena is **revitalizing downtown Sacramento** and is the world's **first LEED Platinum** certified indoor sports venue. These results were made possible by the collaborative approach AECOM's architects, engineers, landscape architects, and urban planners pursued from the beginning.

Designed for fans

- **Aircraft hangar doors** – five-story (40 ft high, 30 ft wide bi-fold canopy) doors open to the city and the cooling Delta Breeze
- **Seating bowl** – two-deck horseshoe-shaped design with loft and suite levels between, two public concourses and two private concourses, 61 percent of the seats in the lower bowl or plaza level, closer to the action.
- **Open concourses** – the two public concourse allow fans to cruise the arena with 360-degree views to the court and sightlines to the city through windows, the hangar doors, and the Tree Top Balcony Bridge on the upper deck; island and peninsula-shaped concessions put food and cooking on display, allowing greater access to concessions and views into the stands simultaneously; the open end of the horseshoe is filled with a floating sky bridge, the "Sierra Nevada Draft House," where fans can see the game and grab a brew
- **Scoreboard** – 84-foot, "4K ultra" high-definition scoreboard features largest video screens in the NBA
- **Innovative ventilation** – first-of-its-kind displacement ventilation system saves energy and improves fan comfort by delivering conditioned air directly beneath the seats and allowing people to influence the temperature through an app on their phones
- **Digital connectivity** – the Wi-Fi system offers internet speeds 17,000 times faster than the average home, making it the world's most connected arena; fans can use smart devices to interact with the team, order food, find the shortest lines, and share experiences on social media
- **Premium options** –
 - Midtown Lofts – designed to be like a living room, low and close to the action, with big, movable, plush lounge seating and a communal standing drink rail, private circulation corridor, direct access to the club lounges
 - Capital and Downtown Suites – designed to feel like urban lofts, with natural and warm materials, open and large with a center common table, fixed, padded, 24-inch-wide stadium chairs and stand-up bar stool seating, open to the main concourse below with private and elevated concourse
 - Skyboxes – located on the suite concourse, glass lounges project out and overlook the concourse, appearing to float in the air, with direct views outside to the city skyline, an intimate-scale space with high-top drink tables, plush lounge chairs, portable custom bar offering cocktails and local wines
 - Suite Bridge – located at the arena's grand entry, a standing deck connected to the suite-level concourse, appears to float above the main concourse, provides views out

of the arena to the plaza below, and two suite bars with casual seating that looks down to the action on the court

- The Chairman's Club – adjacent to the King's home locker room, allows casual interactions with players as they move on and off the court, features a faceted architectural wood feature wall that houses a working fireplace and large screen TV, freestanding walk-up bar with a floor-to-ceiling mosaic tiled feature wall, three recessed private banquette seating lounges, casual lounge seating, freestanding high-top tables seating, warm, natural, inviting finishes and lighting
- Courtside Club – adjacent to the path players take to and from their locker room, allowing courtside fans direct contact with the players, spacious, features freestanding 360-degree central bar with crystal and glass chandelier light feature, warm, natural, contemporary finishes, plush lounge seating and tables, banquette seating, four-star cuisine served at freestanding carving and buffet stations
- Sideline Club Lounges – two mirror-image spaces at opposite sides of the event level, located to allow fans direct access to and from their court-level seats, two freestanding fire pits, numerous freestanding banquette seating options, high-top tables and bar stools, and one large harvest table that can seat 18, four-star farm-to-fork cuisine served from freestanding buffet food and desert stations, central bar finished in mosaic tiles with accent lighting, large TV screens and two full-height, back-lit wine racks, a private dining room
- The Suite Club Lounge – located on the suite concourse, an exclusive and spacious with a farm-to-fork menu, local micro brews and wines, envisioned as a "modern barn," open to both the action on the court and the concourses below, freestanding/island bar wrapped in rusticated wood and stressed metal panels with high-top seating, lounge provides multiple seating types with wood harvest tables, high-top tables and chairs, plush lounge seats
- **Pre-season interest** – the team has pre-sold all (full) season tickets and available suites for the 2016-2017 season

Designed for the city

- **Urban design** – arena location, orientation and open pedestrian plazas reconnect the city grid
- **Transportation** – downtown location makes the arena accessible by Amtrak, light rail, bus, bike, foot and car
- **Downtown Commons** – or DOCO, anchored by the arena, features new restaurants, retail outlets, a remodeled Macy's anchor store, a cinema, and a remodeled urban mall and is envisioned as a city park during the day, but can become a ticketed event plaza seamlessly connected with the arena interior
- **Regional inspiration** – façade evokes the granite and grandeur of the Sierra Nevada with vertical striations of silver-grey glass and perforated/reflective metal panels that constantly change appearance as the light changes; leaf etchings on the façade, a green wall at the base of the building, and walnut grove reflect "the city of a million trees"
- **Open plaza** – welcomes people on game days and year-round with a series of pedestrian paths, public art, intimate and open spaces organized by a mix of generous sculptural seating and custom planters layered in vines, ornamental grasses, perennials, decorative shade trees
- **Local food** – 90 percent of food and beverage concessions sourced from within 150 miles, offering more options than the typical venue, with local vendors branding individual stands and promoting Sacramento's unique farm-to-fork culture and cuisine

Designed for the planet

- **LEED Platinum** – the world’s first LEED Platinum certified indoor sports venue, the highest LEED score of any sports venue, ranks in the top three percent of all LEED certified buildings
- **Solar** – first 100% solar-powered professional sports venue
- **Water** – 45 percent reduction in water use over stringent California code
- **Energy** – 30 percent reduction in energy use over stringent California Title 24 code
- **Carbon** – 2,000 fewer tons of annual carbon emissions
- **Materials** – 99 percent of demolition materials recycled, 95 percent of construction waste diverted, 36 percent of construction materials from recycled sources, including rubber from fans’ athletic shoes for the foam layer beneath the court, 30 percent of construction materials from regional sources
- **Crowdsourced feedback** – first venue to solicit crowdsourced feedback to maximize fan comfort and minimize energy consumption
- **Bike valet** – largest program onsite at a sports venue

AECOM involvement

- **AECOM services:** architecture, engineering (MEP, structural, civil, and high-performance buildings), programming, interior design, environmental design, urban planning, landscape design, and sustainability consulting
- **AECOM team:** Bill Hanway, principal in charge; Jon Niemuth, project director; Steve Duethman, project manager; Rob Rothblatt, exterior design lead; Mike Wekesser, interior/sports design lead; Michael Arnold, on-site construction lead; Hal Johnson, sr. project architect; Alastair Macgregor, high-performance engineering lead; James Haig Streeter, landscape design lead
- **Additional services**
 - AECOM provided planning and design services to keep the Kings in Sacramento
 - AECOM is providing planning entitlements and environmental regulatory compliance for Downtown Commons
 - AECOM is providing planning and design services to redevelop the Sleep Train arena site as a mixed-use campus

Resources

- Video: <https://www.youtube.com/watch?v=4EaBazAF7Ao> (3:37)
- Website: <http://www.aecom.com/golden1center/>

Quotes

- **Approach** – “We worked with the Kings to design Golden 1 Center for fans, city and planet. Our architects, sports designers, sustainability experts, engineers, urban planners and landscape architects worked together from the beginning to shape an indoor-outdoor arena that is revitalizing downtown Sacramento and setting a new global standard for sustainability.” – Bill Hanway, global sports leader, AECOM
- **Urbanism** – “This was always about way more than an arena. It was about giving the city of Sacramento a new heart—giving them their downtown back.” – Jon Niemuth, Americas sports leader, AECOM

- **Architecture** – “We reversed the typical introverted arena with a design that reflects the region and connects to the city—from the hangar doors, to the façade that evokes the granite of the Sierra Nevada and the ‘city of a million trees.’” – Rob Rothblatt, exterior design lead for the project, AECOM
- **Sports design** – “The goal from the very start of the design was to create a unique seating bowl that was intimate, close to the action, and designed for the fans. The design creates a wall of fans that will be the Kings’ ultimate home-court advantage and the loudest arena in the NBA.” – Mike Wekesser, interior/sports design lead for the project, AECOM
- **Landscape architecture** – “With seating, civic art, shade trees, rain gardens, and a green wall, the plaza creates a welcoming and active space on game days and year-round.”
- **Sustainability** – “Early collaboration in our integrated design approach led to important innovations. For example, a first-of-its-kind displacement ventilation system saves energy and improves fan comfort by delivering conditioned air directly beneath the seats and allowing people to influence the temperature through an app on their phones.” – Alastair MacGregor, vice president, high-performance buildings, AECOM
- **Sustainability** – “Golden 1 Center is the first of a new generation of sports arenas, setting a new global standard for sustainable design and performance. We’re proud to see AECOM, a member of Green Sports Alliance, realize this achievement.” – Justin Zeulner, executive director, Green Sports Alliance

Additional information

- 837,124 sf
- Total basketball capacity: 17,374
- Concert capacity in highest configuration: 17,902
- Includes a practice facility, with two full-sized NBA courts, training and treatment facilities, offices, a player lounge, and parking garage, totaling 171,012 sf
- Design period: Sept 2013 – Dec 2014
- Construction period: Nov 2014 – Sept 2016
- Opens: October 4, 2016 (Paul McCartney concert)

NBA seating breakdown

- Lower Seating Bowl – 9,653
 - Club Seating with WC/C – 852
 - Courtside Seating with WC/C – 428
 - General Seating with WC/C – 8,204
 - Hollywood Seating – 16
 - Press Seating – 54
 - Semi Ambulatory Seating – 99
- Upper seating Bowl – 6,701
 - General seating with WC/C – 6,633
 - Semi Ambulatory Seating – 68
- Premium Seating Options – 2,316
 - Hollywood – 16
 - Courtside – 428
 - Club Seats – 852
 - Midtown Lofts – 324 (48 boxes)
 - Capitol and Downtown Suites – 696 (34 boxes)