

Nanjing International Youth Cultural Centre

Size/Area

- **Site Area: 52,020.86 m²**
 - **Gross Floor Area: 473,010 m²**
 - **Floor Area Ratio (Far)/Plot Ratio: 9**
 - **Gross Typical Floor Area:**
- Conference Centre – All Varied
 - i. *Podium – 6,000 m²*
 - ii. *Tower 1 – 1,700 m²*
 - iii. *Tower 2 – 2,100 m²*
 - **Basic Planning Module: 8.4m Grid**
 - 358,291 m² above grade
 - i. *Conference Hall – 113,491 m²*
 - ii. *Podium – 32,800 m²*
 - iii. *Tower 1 – 92,000 m²*
 - iv. *Tower 2 – 120,000 m²*
 - 114,719 m² below grade
 - i. *Conference Hall – 79,919 m²*
 - ii. *Podium (Tower 1/Tower 2) – 34,800 m²*
 - Maximum Height
 - i. *Conference Hall – 45.6 m*
 - ii. *Tower 1 – 255 m*
 - iii. *Tower 2 – 315 m*
 - **Floors Above Ground**
 - Conference Centre – 6 Levels
 - i. *L01: Conference Hall, Concert Hall, Press Room, Exhibition Hall, Retail, VIP/VVIP Lounge*
 - ii. *L02: Multifunctional Hall, Retail
L02M: (Conference Hall, Concert Hall, Plant Room)*
 - iii. *L03: Multifunctional Halls*
 - iv. *L04: Plant Room, BOH*
 - v. *L05: Meeting Rooms*
 - vi. *L06: Meeting Rooms, Restaurant, VIP Lounge*
 - Podium – 5 Levels
 - i. *L01: 4 Stars & 5 Stars Hotel Lobbies, Office Lobby, Retail*
 - ii. *L02: F&B, Hotel Amenities, Retail*
 - iii. *L03: F&B, Hotel Amenities*
 - iv. *L04: F&B, Hotel Amenities*
 - v. *L05: Hotel Amenities, Plant Room*
 - Tower 1 – 61 Levels (L06 to L61)
 - i. *L06 to L61: 1000 key 4 star hotel*

- Tower 2 – 68 Levels (L06 to L68)
 - ii. *L06 to L40: Office Space*
 - iii. *L41 to L68: 300 key 5 stars hotel*
- **Floors Below Ground**
- Conference Centre – 2 Levels
 - i. *B01M: Conference Hall*
B01: Retail, Kitchen, Bicycle Parking, Car Park I
 - ii. *B02: Car Park II*
- Podium (Tower 1/Tower 2) – 3 Levels
 - i. *B01: Hotel Amenities, Service, Car Park I*
 - ii. *B02: Car Park II*
 - iii. *B03: Car Park III*
- Mechanical Levels
 - i. *Tower 2 – L11, L25, L26, L41, L57, L61, L67*
 - ii. *Tower 1 – L11, L26, L41, L52, L58*
- Refuge Levels
 - i. *Tower 1 – L11, L26, L41*
 - ii. *Tower 2 – L11, L25, L26, L36, L41, L57*
- Sky-Lobby Levels
 - i. *Tower 2 – L40*
- Total Number of Elevators:
 - i. *Conference Centre – 46*
 - ii. *Podium – 6*
 - iii. *Tower 1 – 12*
 - iv. *Tower 2 – 19*
 - v. *Number of Double-Deck Elevators: 8*
 - vi. *Speed of Fastest Elevators: 6m/S*
 - vii. *Elevator Brand: Kone*
- Number of Parking Car Spaces:
 - i. *Conference Centre – 914*
 - ii. *Towers & Podium – 183*
- **Number of Parking Motor Bike Spaces: 1,105**
- Number of Parking Bike Spaces
 - i. *Conference Centre – 796*
 - ii. *Towers & Podium – 53*
- Hotel Brand: Jumeirah Hotels
- Principal Structure Materials: Steel
- Other Materials: Reinforced Concrete, Glass, Grc (Façade), Grg (Interior) Size/Area

Construction

- More than 20,000 customized steel members
- Largest GRC project in China
- More than 12,000 GRC panels have been fabricated
- First completely bottom-up/top-down tower construction in China
- 717 drilled piles completed in 6 months; 6,325 piles in total and more than half are steel piles.
- The diameter of the largest piles is 3 meter; the deepest piles reach below minus 90 meter
- 541 meter diaphragm wall construction completed in 4 months; the deepest part reaches below minus 50 meter
- 80,000 m² B01 excavation completed in 1 month
- Tower basement concrete slabs complete whilst Tower level reaches L17 in 1 year

Sustainability

- Conference Centre
 - i. Layering conditioning of the spaces. Unconditioned/partly conditioned/fully conditioned.
 - ii. Minimising energy use through efficient cooling and heating strategy
 - iii. Flexibility of the ancillary spaces – adaptation to future usages
 - iv. Maximising structural efficiency while maintaining the iconic character of the building
 - v. Self-cleaning façade system
- Tower
 - i. Controlling solar gain
 - ii. Creating high level garden and meeting spaces
 - iii. Openings to fresh air
 - iv. Maximising structural efficiency while maintaining the iconic character of the building