



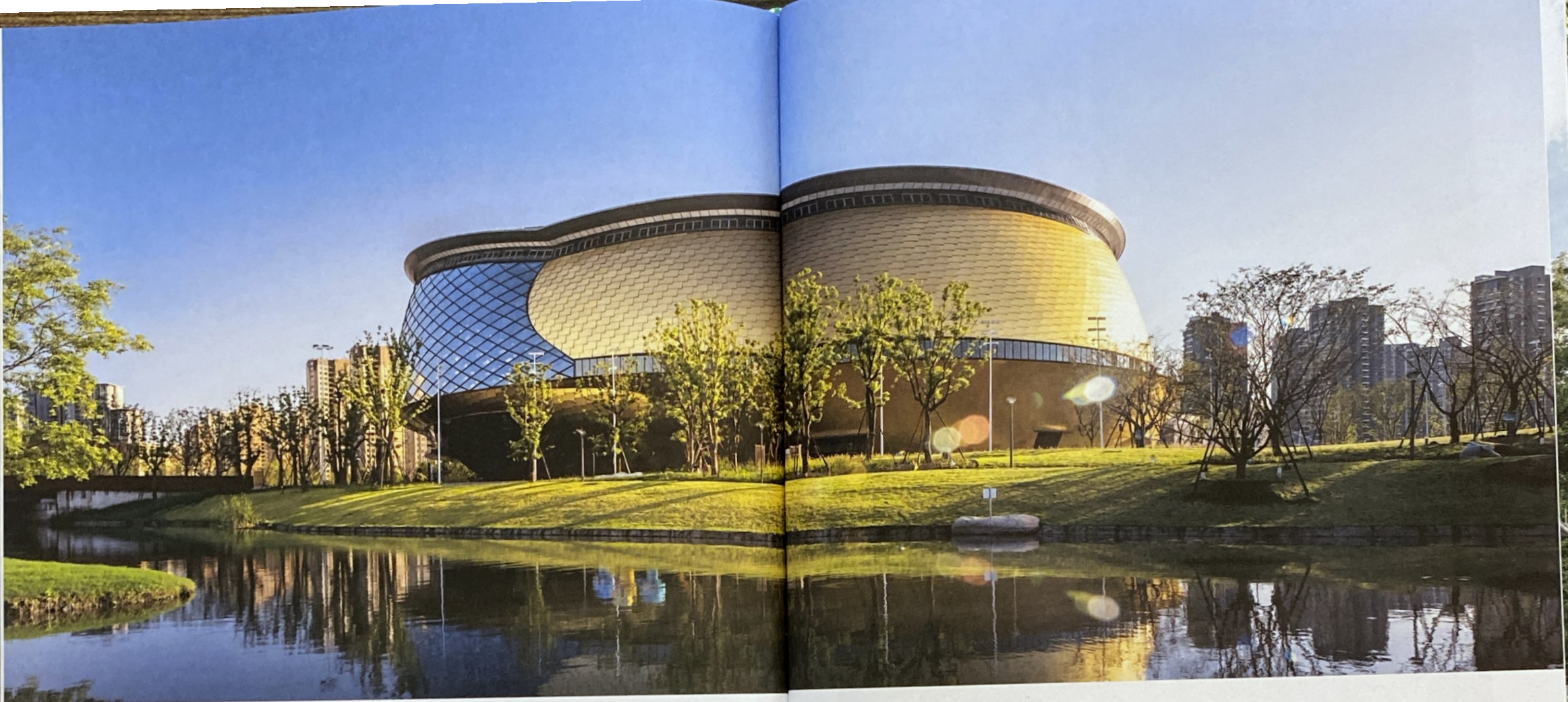
DORIAN LUCAS

ENVIRONMENTAL AWARENESS IN ARCHITECTURE

SUSTAINABLE BUILDINGS



BRAUN

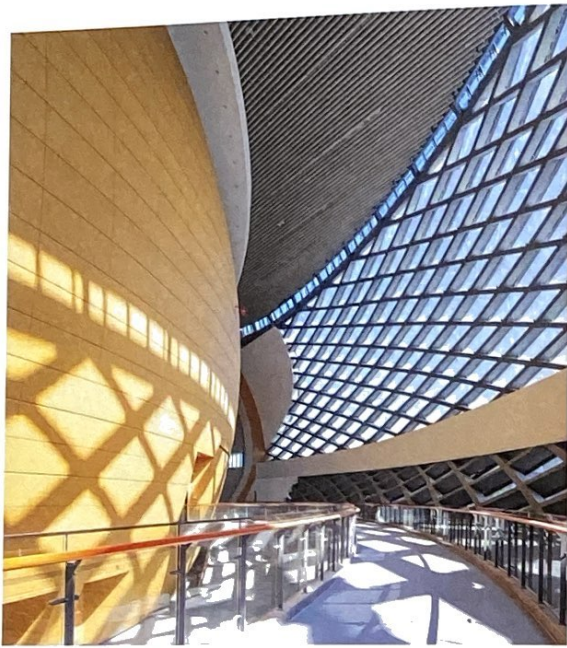


ASIAN GAMES HYBRID STADIUM & CONCERT HALL **ARCHI-TECTONICS NYC**

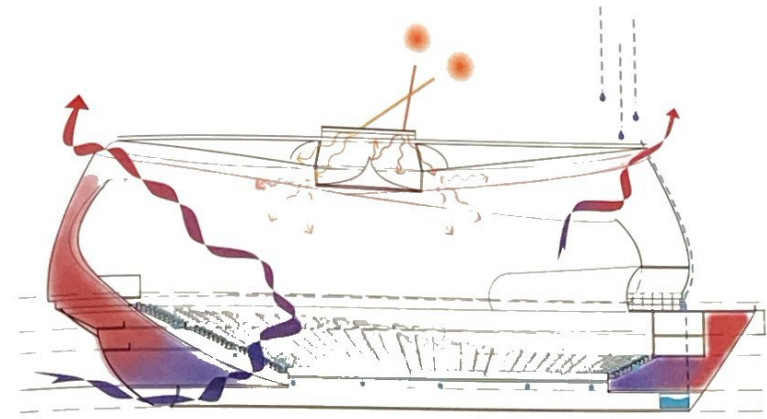
LOCATION: HANGZHOU, CHINA | COMPLETION: 2022 | CLIENT: GONGSHU DISTRICT
CITY VILLAGE RECONSTRUCTION DEPARTMENT | LANDSCAPE ENGINEERS: IMELK |
BUILDING TYPE: CULTURAL | GFA: 185,000 M² | PHOTOGRAPHY: MEN GE
WWW.UADACRC.COM

This 5,000 seat centerpiece for Archi-Tectonics' 47-hectare Asian Games 2022 Masterplan has as its main goal the creation of a hybrid between a stadium and a concert hall with an enduring legacy for Hangzhou. The Hybrid's geometry was refined through multiple iterations and produced the building's distinctive asymmetric shape. This makes it possible to adapt the central viewing layout preferred for sporting events into a stage-centered configuration for performances. A long-span suspendome roof allows the space to be entirely column-free, reinforcing the adaptability and hybrid nature of the building. The building façade is clad with recycled brass shingles and

the stadium's interior with renewably sourced bamboo. The building is naturally ventilated and daylit, as well as water-cooled via the new wetlands. Archi-Tectonics' team, through smart engineering and BIM coordination, saved 1,130 tons of steel and accelerated construction time by 20 percent. The Hybrid stadium will host the Table Tennis events during the 2022 Games and convert into a world-class performing arts center after the closing ceremony.



The Asians Games Masterplans includes a sustainable and ecological design in one of China's fastest growing cities. This includes a Sponge City concept for recycling and absorbing rainwater. The surrounding park and roof greenery are able to collect the rainwater, allowing the space to be sustainable and aesthetically pleasing at the same time. The surrounding eco-park was created using a zero-earth strategy. Excavated earth from the wetlands and Valley Village was used to create an up to 20 meters-high hilly landscape. The park includes hills, wetlands, hiking trails and playgrounds offering a wide range of activities for different groups. The park offers much needed nature in the dense city, enhancing the biodiversity while offering the population a room to breathe.



ECOLOGICAL ASPECTS: sponge city concept | green roof | zero earth strategy | surrounding eco-park | natural ventilation | recycled brass shingles | saving 1,130 tons of steel during construction

CERTIFICATES / STANDARDS: Chinese GBEL 3 star (equivalent of LEED platinum)

