



Austrian Pavilion Expo Dubai
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EXPO Pavilion

Austrian pavilion at the World EXPO in Dubai

Vienna, July 2021

EXPO 2020 Dubai, the first world EXPO in an Arab country, from October 1st, 2021 to March 31st, 2022, with the slogan "Connecting Minds, Creating the Future" tries to answer questions of future visions, concepts and technologies for living together in an increasingly interlinked world. In line with this overarching theme, the Austrian pavilion offers adequate space to enter into a multicultural dialogue on questions of a sustainable future. "Austria makes sense" is the ambiguous slogan according to which our country presents itself in a sensual way.

querkraft architects were inspired by historical wind towers and climate-regulating properties of traditional Arab clay architecture. Re-interpreting the host country's building traditions, 38 intersecting cones of different heights form the unmistakable shape of the Austrian EXPO pavilion. Arranged around three green courtyards, exciting and unique room sequences with different atmospheres are created inside and outside. With its haptic surfaces made of clay plaster pleasant to the touch, the canopy of leaves rustling in the wind over the open cones and the omnipresent interplay of light and shadow, the building itself appeals to all senses.

The exhibition design staged by Büro Wien, Ars Electronica Solutions and design agency Bleed underlines and complements this unique atmosphere. With an interculturally understandable imagery and media art installations, the international audience is brought closer to culture and technical innovations from Austria in an intuitively understandable way.

Emotional and ecological sustainability

In the midst of the hustle and bustle of the EXPO business, visitors to the Austrian Pavilion will find a place to slow down and relax with pleasant climate, daylight and references to nature. Thanks to its iconic shape and positive charisma, the temporary building will not only live on in the appreciative memories of its international guests beyond EXPO 2020. Conceived with economical use of resources in mind from the beginning on, the pavilion will also persist in the physical sense - made possible by the construction of just eight different types of precast elements. After 182 days of EXPO 2020, the cones will be dismantled into their individual parts and reassembled in a new location in the Arab world.

The interplay of local building tradition and intelligent climate engineering from Austria makes it possible to largely dispense with conventional air conditioning technology, even in this hot desert climate. The energy requirement has been reduced by more than 70 percent compared to buildings of similar type and use. The querkraft pavilion thus makes an intercultural contribution to the energy debate and questions of climate-sensitive building.

FACTS

Location	Dubai, UAE
Size (GFA)	1.600 m ²
Completion	09/2021
Client	Austrian Federal Economic Chamber / Federal Ministry for Digital and Economic Affairs
Architect / General planning	querkraft architekten
Project management	Werner Consult
Structural engineering	Werkraum Wien / WME Engineering Consultants
Climate engineering	Ingenieurbüro P. Jung
MEP engineering	Obkircher Plus / WME Engineering Consultants
Landscape design	Kieran Fraser Landscape Design / Green4Cities
Fire protection	Design confidence
Light design	Pokorny Lichtarchitektur
Accoustic engineering	David Haigner
IT-/ security engineering / Architects of records	WME Engineering Consultants
Exhibition design	Büro Wien / Ars Electronica Solutions
Graphic design	Bleed Vienna
Cost calculation	Vienna consulting Engineers
Modell building	Modellwerkstatt Gerhard Stocker / Design & Function
Visualization	Patricia Bagienski
Photos	querkraft / Kieran Fraser Landscape Design / Ars Electronica Solutions

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About querkraft

The Vienna based architecture office querkraft was founded in 1998. More than 100 projects, competitions and buildings - local and international - speak for the successful work of the team of around 45 employees. Lateral thinking determines the way of working. querkraft defines "Giving people space" as a leitmotif and thus formulates the permanent striving for generosity in spatial design as well as freedom to develop for the users. querkraft was able to realize many projects in line with this philosophy of poetic pragmatism, especially in the residential sector. Office and museum buildings or public space projects are also an integral part of querkraft's oeuvre, as the Museum Liaunig in Carinthia, which has already been listed as a historical monument, shows. Friendship, respect and the joy of work are the credo for Jakob Dunkl, Gerd Erhartt, Peter Sapp and their team. - www.querkraft.at

Current projects

IKEA Vienna Westbahnhof, AUT; Museum for Concrete Art Ingolstadt, GER; University campus and House of Schools - Johannes Kepler University Linz, AUT; Residential buildings in Munich and Vienna, etc.