

Golf clubhouse with Free Form canopy

Shura Island, SA



Project details

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| Client | Red Sea Global |
| Architecture | Foster + Partners |
| Project type | Leisure and sport |
| Construction type | Free Form |
| Services | Timber construction |
| Construction | 2022-2024 |
| Locality | Shura Island |
| Country | Saudi Arabia |

Double-curved and gigantic

The architecture of the striking golf clubhouse was designed by London-based architecture firm Foster + Partners. The huge Free Form surfaces of the roof were planned by the Blumer Lehmann team using parameterisation, produced and assembled on site at the Red Sea.

The golf clubhouse featuring a restaurant, reception, golf shop and changing rooms is part of the new 'The Red Sea' tourist destination and impresses with its Free Form roof formed by five curved leaf shapes. The complex Free Form structure of the roof placed great demands on statics and geometry. This is due to the unique shape and size of each individual leaf. In addition, a total of 664 double-curved beams made of laminated timber together form the entire roof from the five individual curved surfaces.

To overcome the challenges during erection, the parameterisation planning team specified every single connection – such as steel plates, bolts, etc. – for each individual component in the three-dimensional model right at the start.

Specific Contact



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