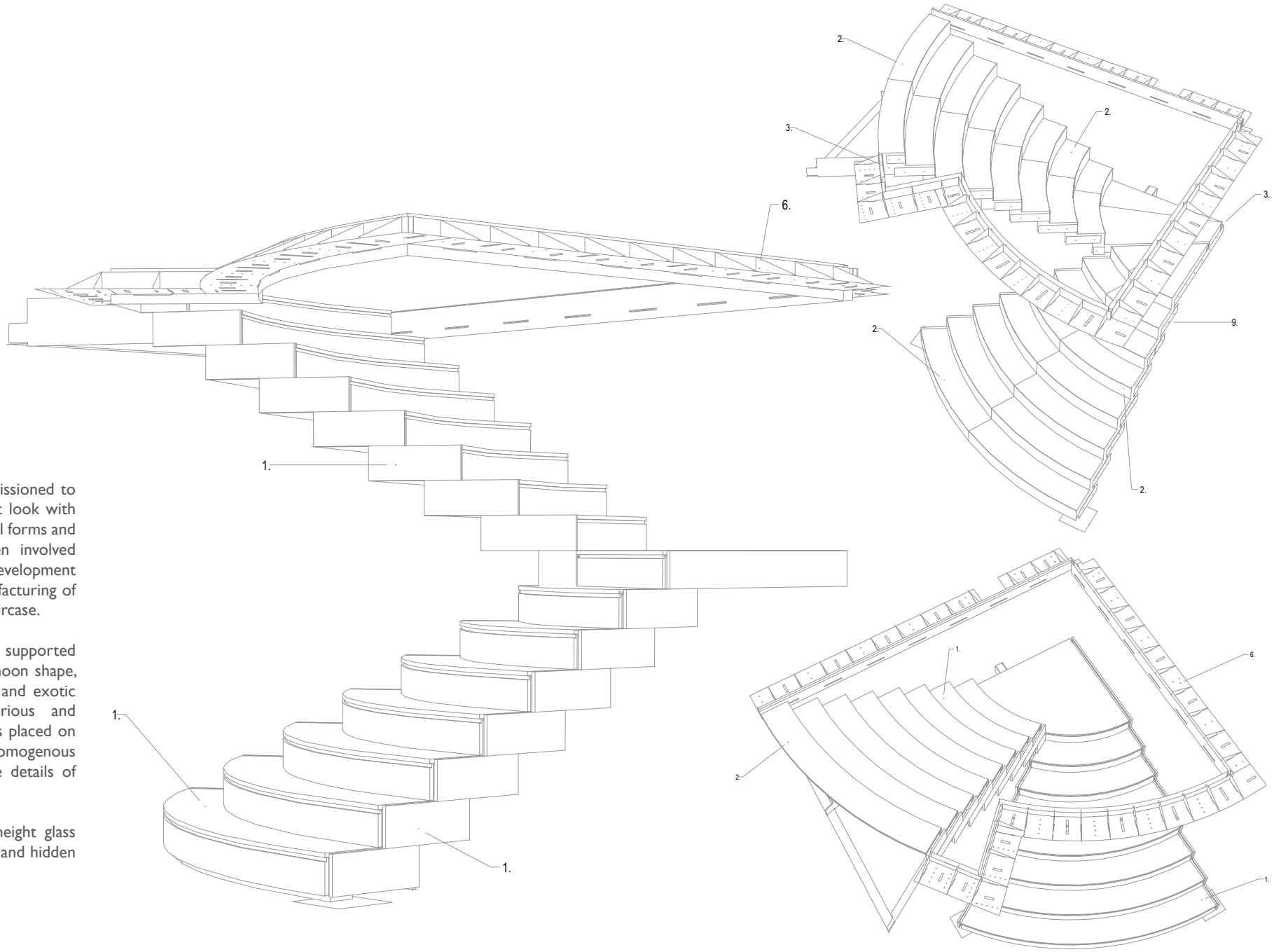
diapo

designer and manufacturer of bespoke feature staircases

DIAPO have been commissioned to create a sculptural, monolithic look with an emphasis on unconventional forms and configuration. We have been involved from the early design development process, through to the manufacturing of this unique feature, central staircase.

This stunning feature is a self supported scissor staircase, in quarter moon shape, which features natural stone and exotic wood to provide a luxurious and exquisite finish. Emphasis was placed on creating a continuous and homogenous flow throughout the intricate details of the stairs.

Features also include a full height glass balustrade, recessed handrails and hidden lighting.



MATERIALS

One of the production challenges was to create the curved tread and riser shapes out of natural stone. While putting all of our knowledge and experience to the task, through extensive testing, development and consultation with our experienced network, we made the seemingly impossible possible.

The team worked to explore the potential use of stone combined with the accuracy of modern production techniques, such as water jet and other precision engineering methods. The team also had to ensure the production methods and techniques complemented the structural accuracy and requirements to produce the stunning end result.

MANUFACTURING

The stairs' steel structure consists of continuous steel folded plates braced between a zig-zag stringer profile to create a mono-coque structure to be fully clad. At it's widest point the stair is a grand 3.5 meters, tapering down to 1 meter.

While the top run will be clad in curved natural stone, the under soffit, in contrast, will be clad in hard wood.

A fully comprehensive production package was developed to allow all sub-components to be CNC cut. This provided acute precision engineering during the fabrication process of all sub-components including stone and wood.

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