Vertical Louvre Screening & Brie Soleil

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VertiBlade

CASE STUDY

Greenwich Peninsula Sub-station

London

During the day, our **VertiBlade** provides a high definition profile, with crisp, clean lines and striking colour changes as the sunlight catches them. At night, this complete 3D screening to plant can turn into a light feature with an appropriate LED light system.

VertiBlade – created with designers and architects in mind

We were asked by an architect to help solve an issue with a new building on the Greenwich Peninsula in London. They calculated that the inherited steel work structure would not support the full weight of the brick work all the way to the top of the building and the architect's client wanted the sub-station transformers on the roof to be completely out of sight of the nearby school and residential properties.

This light-weight cladding system solved all the issues on-site

Following a couple of meetings with the architect, we came up with the idea of using the**VertiBlade** system so that the transformers would not be seen and without adding a heavy load to the supporting wall structure. In effect, adding a light-weight, visually attractive form of pervious cladding, when viewed from different angles at ground level.

A detailed assessment was carried out by our acoustic experts

As the building was originally all brickwork there was no issue with noise breakout from the transformers. Acoustic experts at LCP, our sister company, carried out a detailed assessment of the plant to ensure that the noise levels at the school and residential properties were not going to be exceeded with the blade system proposed.

A meeting on-site with the local planners was arranged, where colour samples of the blades were handed over. The black ones, matching the colour of an adjacent building along with the results from the acoustic assessment, were subsequently approved in a new planning application.

A bespoke 3D corner section maintains the aesthetic appearance

Due to the way that the building had been designed, we developed a bespoke way of fixing the **VertiBlade** to the existing steel system that would align with the concrete stairwells at the end of the building. A special 3D section was also designed to create a crisp corner detail enhancing the aesthetic appearance of the system.

Because of the tight proximity of the site within its boundaries, it was crucial that the access equipment had the appropriate height and reach to deliver the installation contract.

VertiBlade

A very happy client

Our client said afterwards, “the high level cladding has now been completed and Caice has undertaken a fantastic job. The detailing is crisp and all of the lines are straight and clean. Installing the top section the opposite way around has added definition to the profile and when the light catches it the colour changes are striking. I am very happy with the finished product.”

Vertical Louvre Screening

Created to accommodate a variety of vertical blades to suit client requirements

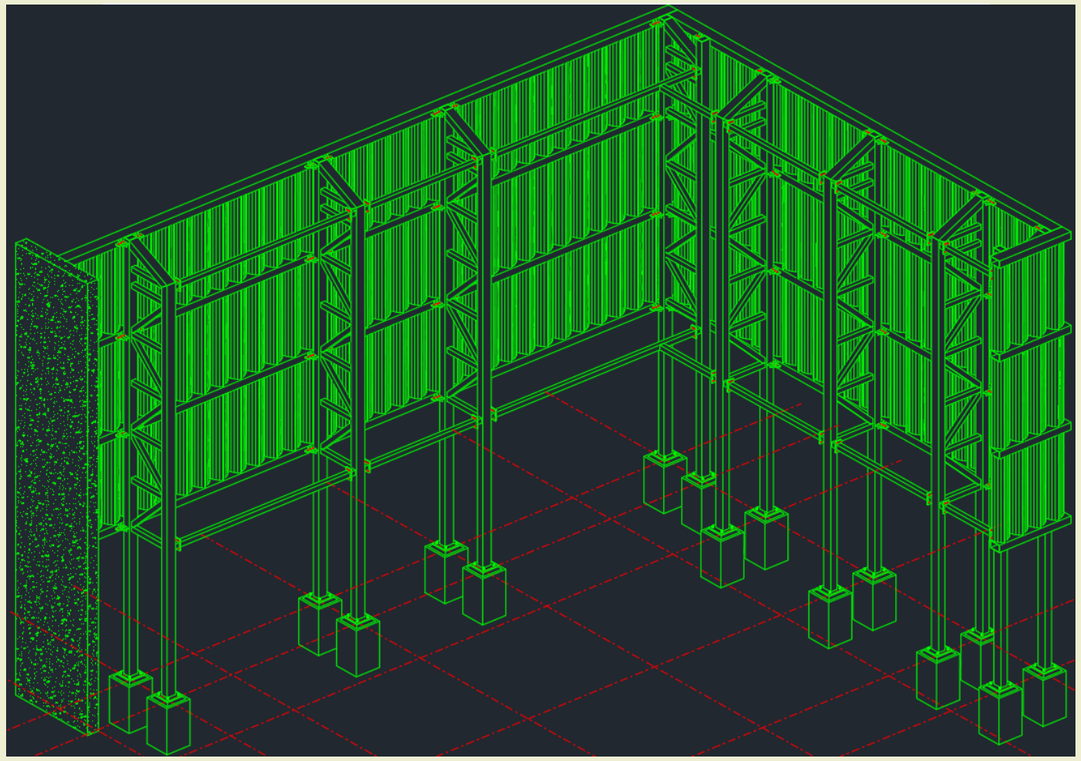
For a Saudi Electricity Substation in Riyadh, we were asked to design and build a series of vertical louvre screens. Our design incorporated a steel lattice framework with cross bearers designed to suit both aerofoil and rectangular blades of a bespoke design

Brie Soleil

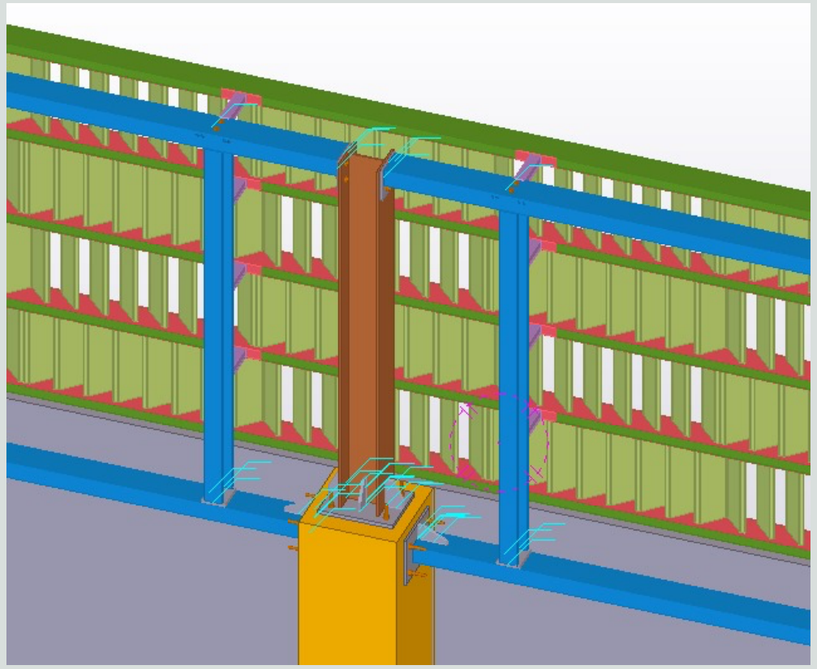
Brie Soleil goes back to ancient times when people started using them as sun shading devices. These screens were introduced to reduce solar heat gains generally in hot climates.

PME is the exclusive representative of Caice in the Middle East region, responsible over the years for many successful design and build projects.

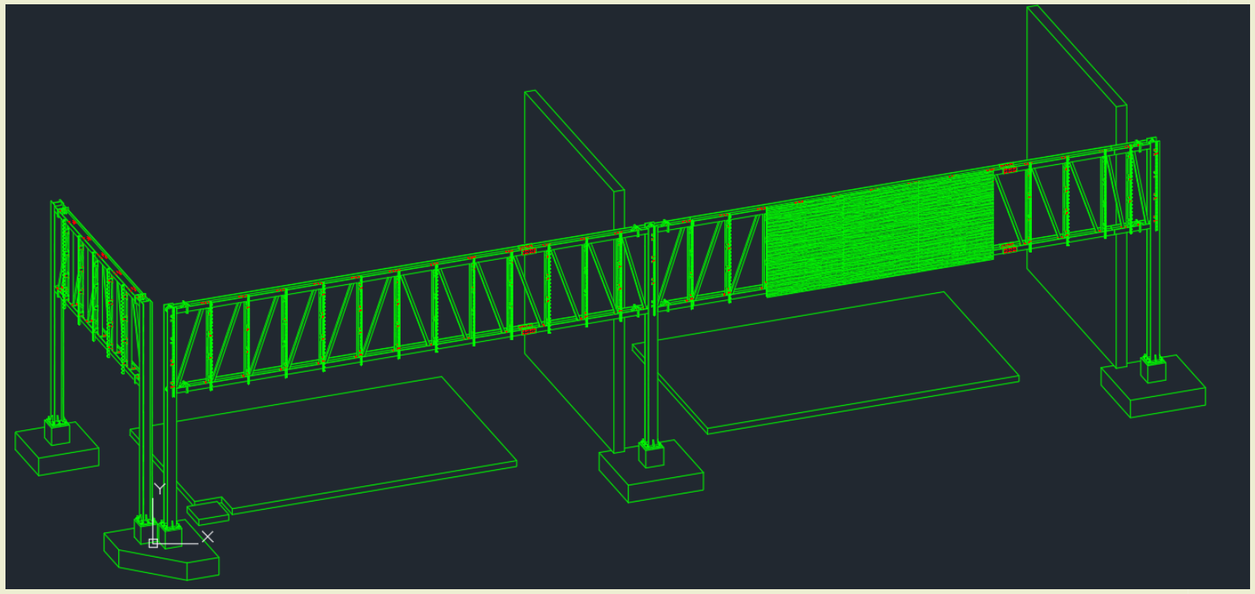
Working closely with Caice engineering team, PME design team have helped develop the Caice product with bespoke louvre screening and façade solutions.



Our design team prepared 3D images and modelling for the required louvre screening along with structural and windload calculations.

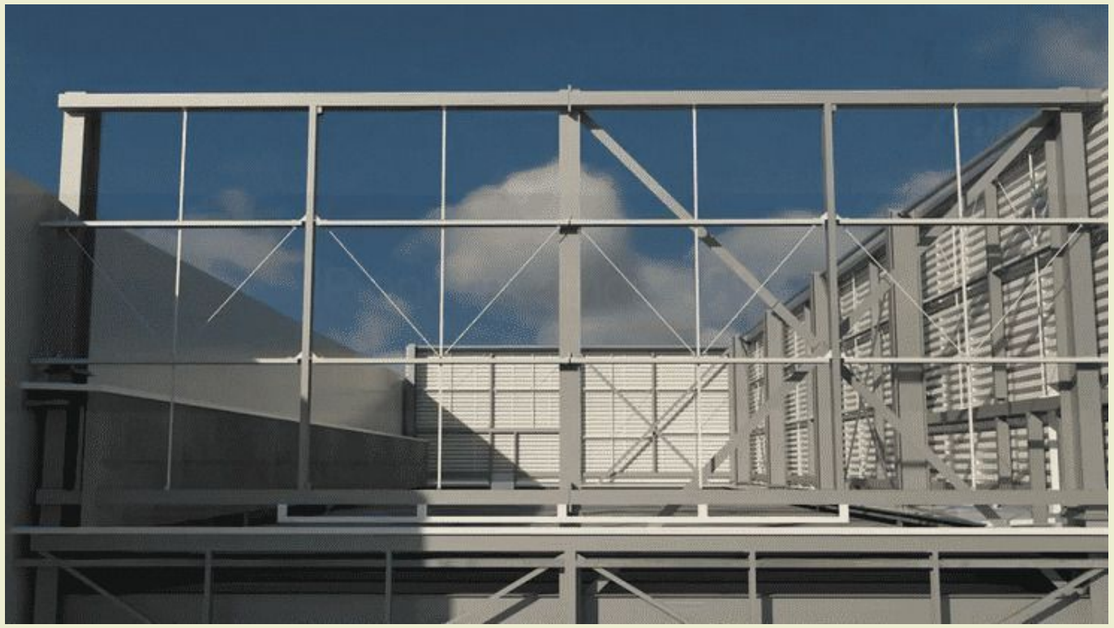


Vertical Louvre Screening



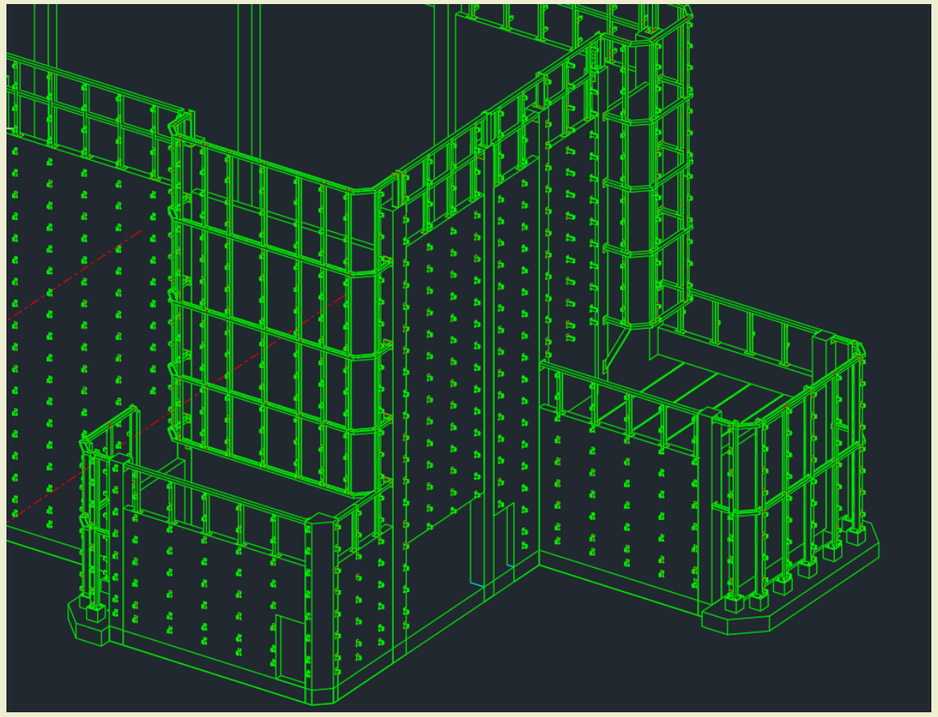
Tailored to your requirements.

We pride ourselves on working closely with our Clients at all stages of the process, from initial design through to application and installation. Ensuring that we deliver exactly what the Client wants and a system that provides the required performance.



Bespoke Vertical Louvre Screening.

On a project by project basis, our structural design engineers design bespoke steelwork structures to suit the requirements of the site, taking into account architectural and aesthetical considerations and the performance criteria of the louvre itself. All finished in a colour and texture to suit the Client requirements.



Variety of Panel Designs.

Vertical panels can be designed to suit a variety of applications. Panels can consist of aerofoil type profiles, laser cut flat panels with geometric shapes, also designed to suit horticultural decoration. All designed, manufactured and finished to the highest standard with appropriate performance and Wind load calculations

Vertical Louvre Screening & Brie Soleil

Vertical Louvre Screening & Brie Soleil Specification

We're here to help and can provide a detailed Vertical Louvre or Brie Soleil specification for inclusion within the overall specification for your project.

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