



## Project Description

Firemac FM Blue boards were installed at Race Bank, a 580 megawatt (MW) UK Offshore Wind Farm project. The boards, provide protective-screened enclosures around two shunt reactors and two DRC transformers. Over 1200m<sup>2</sup> of Firemac FM Blue fire protection board were used in the screens which measured over 10m high by 14m long. The Firemac FM Blue walls provide weather tolerant, fire, blast and acoustic resistant screens.

## System Specification

- External Vertical Barriers
- Acoustic Insulation
- Fire Resistance: 240 minutes

## Performance Summary

Within environments such as wind farms, there may be a range of integral units housing equipment such as shunt reactors with high quantities of fuel. In such instances, Firemac FM Blue may be used to provide vertical barrier systems to provide a partial enclosure and limit the spread of fire. The latter permits other aspects of the site to perform as required, while a fire may be tackled within a relevant unit.

In addition to the latter requirement, due to the nature of wind farms, there may be a secondary concern with regards to the acoustic performance of such barriers. In such situations, Firemac FM Blue systems may be designed, to provide the required level of acoustic insulation in accordance with the project requirements.

## Testing

A single layer Firemac FM Blue vertical barrier was designed and installed to provide 240 minutes fire resistance (integrity) following the principles of BS 476: Part 20: 1987, and a level of acoustic insulation, for the DRC units.

A double layer Firemac FM Blue vertical barrier was designed and installed to provide 240 minutes fire resistance (integrity) following the principles of BS 476: Part 20: 1987, and a greater level of acoustic insulation, for the shunt reactors.

