

Case Study - Powergate

Turnkey acoustic barrier / screen project
surrounding a new hi-tech data centre



making the world a quieter place

Huge Turnkey Barrier / Screen Project

IAC Acoustics successfully designed, manufactured and installed, a massive acoustic compound screen to provide an environmental solution to noise pollution problems for the neighbouring community.



To meet the rapidly growing demand for electronic storage facilities, data centres are springing up all over the UK. These complex buildings require constant temperature control and have an appetite for huge power. With this in mind, backup systems are crucial, and this site in London hosts a total of twelve 2.5MVA standby generators.



IAC designed, manufactured and installed a 50m long, 20m wide and 8m high acoustic compound to house generators at ground level and chillers on a mezzanine level. Backup power and cooling was transported into the building by means of an 18 tonne service gantry.

To facilitate the future installation of backup diesel generators the compound included five, massive, removable plugs, 8m wide by 5m high, fully clad in acoustic panels. Each can be simply unbolted, removed and reinstalled without compromise to the acoustic integrity of the building. In total, 200 tonnes of primary and secondary steel was erected. 1100m² of Noishield™ acoustic barrier panels, louvres and four single leaf acoustic doors were installed, with all works successfully completed, from start to finish, in 8 weeks.

The use of IAC's latest range of 'Face Fix' barrier panels and 'R-Type' louvres, met the highest standard of aesthetics in the building design which the Architects, Broadway Malyan, wished to achieve.

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