



TITLE: JAGUAR CARS TURNKEY VSAC TEST CENTRE

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IAC EQUIPMENT SUPPLIED:

A complete automotive test facility

This major IAC turnkey project provides *Jaguar Cars* with one of the world's most advanced automotive noise and vibration testing centres. The facility has a large (17m x 13.5m x 5.5m) vehicle semi-anechoic chamber (VSAC) which, when tested to ISO 3745, surpassed its target cut-off frequency of 60Hz and was calibrated down to 25Hz. The chamber is equipped with a 4-wheel drive chassis dynamometer and has a spacious adjacent control room from which vehicle testing can be observed in comfort and safety via CCTV. IAC also provided all of the building's intricate mechanical and electrical services, including its heating, cooling and vehicle exhaust extraction systems.

Like almost every other anechoic chamber built by IAC since 1992 the Jaguar test room was built using Metadyne® perforated, metal-faced wedges. Offering exceptional impact and fire resistance, they have a long lifespan and can be easily cleaned/painted. Their acoustic performance is equal to, or better than, that of other wedge types and their price is comparable. For the end user a major attraction is the bright, healthy and safe working environment they provide.

The Jaguar project typifies the way in which many test facilities are now being designed and built by IAC. The company undertook the total project management of the scheme, from the initial feasibility study, geotechnical site surveys and a full design analysis to laying the new building's foundations and landscaping the site on completion. The turnkey approach has several benefits for customers; in particular it ensures that the facility is built on time and to the agreed budget. By controlling every aspect of design and construction, IAC is also able to guarantee the acoustic performance.



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