



TITLE: TENNEX EUROPE ANECHOIC TEST ROOMS

IAC Bulletin IND/16.99

IAC EQUIPMENT SUPPLIED:

Metadyne® vehicle semi-anechoic chamber (VSAC) and white noise test room

Two IAC Metadyne® semi-anechoic test rooms form part of a £5m technical centre at the Salisbury, UK, headquarters of automotive component manufacturer, *Tennex Europe*. The company uses its smaller 'white noise' test room to measure the sound levels of its own products - such as air induction systems - in order to develop quieter versions of these components. In the larger VSAC room it has the ability to assess the noise levels of components when installed in the vehicles of its major customers, which include Ford, Nissan, Rover and Honda.

The Tennex test rooms are among the quietest of their kind in the world, their acoustic performance having been verified in accordance with ISO 3745. The vehicle test room has a cut-off frequency of below 100Hz and an ambient noise level of less than 35dB (LAeq, 1 minute), despite the fact that, at the time this was recorded, RAF fighter aircraft were flying at very low level over the test facility building! The white noise test room has a cut-off frequency of below 125Hz and an ambient noise level of just NR20.

In addition to constructing the anechoic room structures, IAC was responsible for several other important aspects of the project, including the provision of a 2-wheel drive acoustic chassis dynamometer, all mechanical and electrical services, lighting, fire suppression, vehicle exhaust and gas detection systems.



IAC House, Moorside Road, WINCHESTER,
Hampshire, SO23 7US, United Kingdom.
Tel: +44 (0) 1962 873000 Fax: +44 (0) 1962 873111
E-mail: info@iacl.co.uk Website: www.iacl.co.uk