



## ***Race Car Engine Testing***

What do you do if you want to develop a world class racing engine, but your lab/test room is located in an industrial building where other tenants have the right to run their own businesses in comparative peace and quiet? Well, for a couple of internationally recognized automotive corporations, the answer to that question was to call us!

Race car engines are generally put through their paces in situ in a car mounted on equipment which allows the wheels to turn on a "rolling road." Race engines can produce well over 100 dB within the test area, so it's vital to protect the hearing of the test staff and do everything possible to prevent noise and vibration propagation to the rest of the building. This is where our expertise comes in.

The only effective way to facilitate this type of engine test is to build an acoustically isolated test-room-within-a-room. The floor of the test room is isolated from the main concrete floor and floats on vibration isolators. Its walls are constructed of sound absorptive structural elements and isolated from the outer walls by a substantial airspace. Only with these extreme measures can we safely say, "Gentlemen, start your engines!"

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