



Double Skin Steel Partitioned Enclosure Build

Leeds based Avanta UK successfully tendered, designed, supplied and installed a bespoke steel enclosure for an International Company based in the North East of England.

The 55m² enclosure was constructed from double skin acoustic steel partitioning with an acoustic double skin ceiling. The enclosure was designed to house a punch press and achieve significant noise reduction.

Therefore Avanta utilised a 50mm thick double skin steel panel with monobloc construction with two steel skins separated by a composite infill. This has resulted in a 32dB sound reduction.

The enclosure has 2 single doors and a double door with vision panels. Avanta had to build around the electrical switchgear panels and build over the machine on one side. Special heavy duty



capping was utilised for lineal stability with additional strength coming from inline 50mm x 50mm RHS mullions fixed to the floor with countersunk M10 expansion bolts through 200mm baseplate.

Custom powder coated 'cool blue' finish was required for the steel work

Avanta also supplied and fitted 14.45 linear metres of 2.4m high mesh partitioning to enclose the press.

The customer commented - *"Thank you for your help and assistance in getting the correct enclosure for us. The finished enclosure looks fantastic and we have seen an significant drop in the Db reading which was the main reason for purchasing your product."*

Thanks again, Paul
Continuous Improvement Engineer