

## » ArmaSound sound-proofed rooms in training centres for insulation contractors



Fabricating metal jackets is noisy work. But most insulators are not aware that during some activities the recommended maximum sound pressure level of 80 dB (A) stipulated in the Lärm- und Vibrations-Arbeitsschutzverordnung (German occupational health and safety regulations on noise and vibrations) is often greatly exceeded. In the insulator training centres in Holleben and Bühl (Germany), ArmaSound has recently been used to create sound-proofed rooms. Analyzing frequencies and measuring the sound pressure during the work in question revealed a frequency range of

250 to 8000 Hz which is particularly damaging to the human ear.

After consulting Armacell's technical department, it was decided that ArmaSound RD should be used in the sound-proofed rooms. The ArmaSound products made by Armacell have exceptional sound absorption properties across a broad frequency range. With ArmaSound RD the desired



sound absorption can be achieved with lower insulation thicknesses compared to traditional acoustic insulation products. In addition, the acoustic foam has good sound barrier properties and ArmaSound RD reduces the transmission of structure-borne noise.

ArmaSound RD 120 sheets were used in an overall insulation thickness of 50 mm. In the training centre in Bühl, a double layer of self-adhesive sheets (2 x 25 mm) was installed on the plasterboard panels. In Holleben, the 50 mm standard sheets were chosen and fully glued using Armaflex adhesive 520. As the Berufsgenossenschaft Bau (professional association for the construction industry) discovered in later measurements, the installation of the ArmaSound sound-proofed booths reduced the noise carried into the adjoining seminar room by between 39 dB (A) and 42 dB (A). The trainer, master insulator Joachim Herzog, was delighted: 'With Armacell's support we have been able to realize a great training activity in the field of acoustic insulation which we now benefit from in our daily work. At last I can teach the apprentices without being disturbed by straightening work.'

