

Acoustic panels for effective soundproofing filled with high-density silica sand



A truly ingenious noise control product: corrugated cardboard filled with sand. On the one hand these panels are quite heavy (up to 29 kg / m²) which increases the effectiveness of each soundproofing construction. On the other hand the internal damping of the sand

reduces resonances which leads to a raised sound insulation and an improved room acoustics. Wall, ceiling and floor constructions are realizable with Phone Star. In many studio projects we have successfully used the Phone Star TRI plate. But as using any acoustical

product does not guarantee the solution of every possible acoustical problem we are happy to advise you; benefit from our experience of two decades of studio construction.

Phone Star panels are made from corrugated cardboard filled with quartz sand and are intended for indoor use. Phone Star combines three key criteria mechanisms for sound insulation:

- High mass
- Multiple layers
- Low stiffness



Specifications

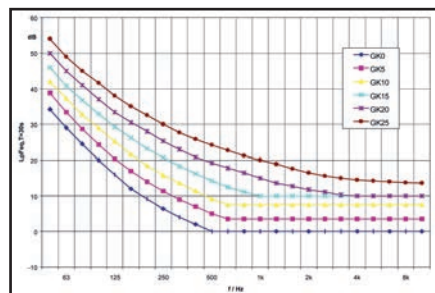
	TRI	ST TRI	PLUS TRI
Thickness	15 mm	12,5 mm	15 mm
Weight	18,0 kg/m ²	17,50 kg/m ²	29,00 kg/m ²
Dimension	125 x 62,5 cm	120 x 80 cm	125 x 62,5 cm
Flamibility	B2	B2	B2
Impact noise	up to $L_W = 22$ dB	up to $L_W = 20$ dB	up to $L_W = 37$ dB
Airborne noise	up to $R_W = 36$ dB	up to $R_W = 34$ dB	up to $R_W = 42$ dB



PhoneStar TRI

Soundproofing using PhoneStar

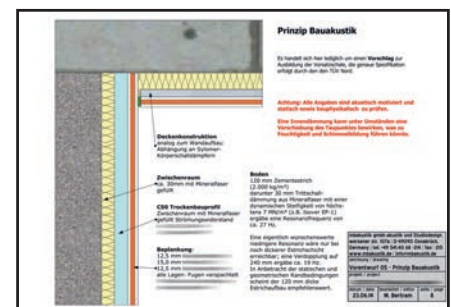
Every noise protection construction exceeds it's maximum effectiveness when used correctly in the context of a coherent overall concept. While a perfect sound insulation is never realized; a change of a few dB sometimes only can be achieved with high structural complexity. Here, a sound pressure level reduction of 10 dB is perceived as halving the loudness. Generally, the quality of a sound insulation construction is determined by the weakest link in the chain. Therefore there's no point in combining high quality soundproof doors with simple drywall systems or sophisticated multilayer soundproofing constructions



Boundary curves of the German Institute for Broadcasting Technology IRT that defines maximum noise levels versus frequency; in many studio projects the observance of these boundary curves is agreed.

with lightweight control room windows. Often problems occur at intersections such as the transitions wall / ceiling or wall / door frame, so that the structure

as a whole, despite high-quality individual elements, does not reach the hoped-for sound reduction. Benefit from mbakustiks long-term experience and let



Acoustic concept for sophisticated soundproofing

us create a coherent acoustic concept for your project.