

BarSonic soundproofing sandwich-elements for the use in building interiors

Brand's name	BarSonic	
Product description	BarSonic are prefabricated soundproofing sandwich elements, consisting of a 60 mm glass-fibre core (volume weight of 50 kg per m ³) laminated on both sides with flexible thermoplastic heavy layers with different thicknesses/weights. Because of this perfect material combination, the relatively thin, but self-carrying BarSonic elements possess extremely high and unmatched soundproofing properties, especially in the field of blocking and absorbing airborne sound.	
Fields of application	When high soundproofing values are requested, BarSonic elements perform extremely well for concealed/invisible applications in the interior of buildings. E.g. above or below dry-wall constructions in the hollow space between suspended ceiling system and structural ceiling, or blind floor and structural floor. Also to prevent noise spreading from one room to the other through the wooden (inclined) roofing construction in restored attics, the elements are put as soundproofing barrier into the level of the roof's thermal insulation. Thus assuring the soundproofing properties of the partition walls.	
Treatment, shaping, cutting	BarSonic elements are flexible and, because of that, easily adaptable on site to construction irregularities. To cut elements as a whole in the atelier, we recommend the use of a strap/belt saw. On site however, cuttings should be done with the help of a pendulum lock saw. Do not try to cut the element in a single step! Start cutting the outer plastic heavy-sheets, first from one side, than from the other. This done, cut, if necessary, the glass-fibre core with a special blade for fibre materials. By the same method, small holes for pipes and tubes can be drilled through the elements. Use drills for wood. The joints between elements can be filled with mastic, or covered with self-adhesive tape. Those to adjoining walls or other construction parts should be filled with mastic, or PUR foam, or should be covered with adhesive sealing tapes.	
Types	BarSonic 42	BarSonic 46
Thickness	67 mm	69 mm
Structure/composition	Thermoplastic sheet 3,5 mm/8 kg/m ² Glass-fibre core 60 mm/50kg/m ³ Thermoplastic sheet 3,5 mm/8 kg/m ²	Thermoplastic sheet 5,5mm/12kg/m ² Glass-fibre core 60 mm/50kg/m ³ Thermoplastic sheet 3,5 mm/8kg/m ²
Weight	19,0 kg/m ²	23,0 kg/m ²
Value of acoustic attenuation (soundproofing indice acc. to ISO 717-1) Rw	42 dB	46 dB
Coefficient of thermal conduction	Elements: tests running Thermal conductivity λ of thermoplastic sheet: 0,5 W/mK Thermal conductivity λ of glass-fibre core: 0,031 W/mK	
Flammability classification, acc. to Swiss standard VKF/BKZ	Elements: tests running Thermoplastic sheet: 5.3 Glass-fibre core: 6q.3	
Heat/cold resistance	-40°C to +150°C (short time <1h) -40°C to 100°C (permanently)	
Sizes	1250 x 600 mm, 1250 x 300 mm, 1250 x 150 mm Other sizes on demand (considering quantities).	
Stock temperature, recommended Shelf-life	+15°C to +30°C 12 to 18 months	

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T +41 52 368 00 25 | F +41 52 368 00 21
info@perakustik.ch | www.perakustik.ch