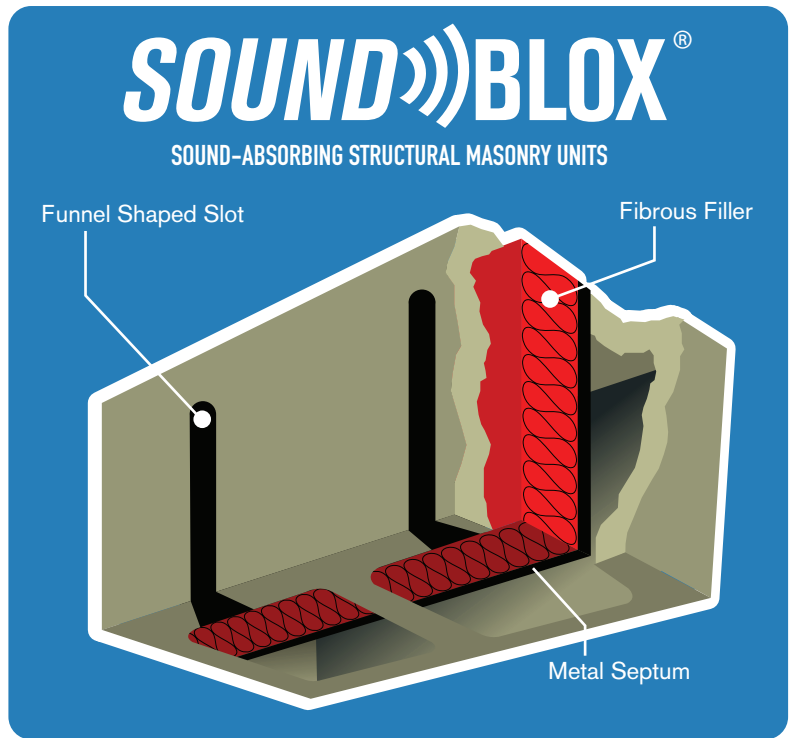


Soundblox Type R2 IS20:1987

COORDINATING SIZE	450 X 225 X 225mm
WORK SIZE	440 X 215 X 215mm
WEIGHT	25kg
COMPRESSIVE STRENGTH	5 N/mm ²
NOISE REDUCTION COEFFICIENT	0.75 APPROX.

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A CRH company



It's what you don't see in Soundblox units that makes the big difference.

SOUNDBLOX, sound absorbing structural masonry units, offer an attractive, efficient and economical means for acoustical correction and noise control.

SOUNDBLOX derive their excellent sound absorption from a unique cavity-slot resonator construction with the absorption greatly increased by the use of metal septa and fibrous fillers in the cavities. The cavities are closed at the top and the slots allow the closed cavities to act as damped (Helmholtz) resonators. The slots of the R type units are funnell shaped for superior acoustical coupling to the fillers and resonator cavities. In effect the specially designed metal septa which reflect the higher frequencies but transmit the lower frequencies, provides two resonators in each block cavity where only one existed before. Tuned to different frequencies an octave or more apart the dual resonators greatly widen the resonator principle of sound absorption used in such devices as automobile mufflers is an efficient way of providing sound absorption. It has been brought to a new level of effectiveness by the septum fillers and funnel-shaped slots of the R SOUNDBLOX units.

Both the metal septa and the funnel-shaped slot features of modern SOUNDBLOX units are shown in the schematic drawing.

SOUNDBLOX are load-bearing structural units having the same high compressive strength as ordinary hollow concrete masonry units of the same composition. They are installed conventionally, with little or no added labour, making their in-place cost low in comparison to most other acoustical materials. In addition to high sound absorption, SOUNDBLOX walls have superior sound transmission loss performance (STC) when compared to walls of ordinary masonry unit of the same composition.

The rugged durability of SOUNDBLOX units permits the use of walls of industrial plant, gymnasiums, mechanical equipment room etc. Since most ordinary acoustical materials are soft and generally confined to ceilings, absorption of sound in the horizontal directions of a room is difficult to achieve with them. SOUNDBLOX units provide practical means to build high sound absorption into the walls and balance the absorption in all directions.

SOUNDBLOX units are also widely used out of doors to screen noise from neighbours as in transformer, cooling tower and motorway noise applications.

SOUNDBLOX have a close texture finish which is ideal for painting if required.

AREAS WHERE SOUNDBLOX SHOULD BE CONSIDERED:

- SCHOOLS:** Auditorium • Corridors and classrooms • Gymnasiums • Lecture rooms • Mechanical equipment rooms • Multi-purpose rooms • Music rooms (band, choral, practice) • Natatoriums • Vocational (shop) rooms. **INDUSTRIAL PLANTS** • Boiler rooms • Engine exhaust stacks • Fan rooms • Mechanical equipment rooms • Noisy plant areas • Partitions between noisy and quiet plant areas • Partitions between plant and office areas. **CHURCHES** • Chapels • Classrooms • Mechanical equipment rooms • Naves and transepts • Social halls. **ELECTRICAL UTILITIES** • Boiler rooms • Fan rooms • Generator rooms • Outdoor transformer noise screens. **GENERAL** • Aircraft maintenance and overhaul hangars • Airport facilities • Bowling alleys • Car wash facilities