

### General description:

Sound attenuators are used to reduce noise in HVAC systems. Design of sound attenuator is key in deciding basic size, splitter details etc. RIGID Industries use software for selection of sound attenuators and deciding the fabrication details.

RIGID brand sound attenuators are available in three different sections.

SA R for rectangular cross section (Fig 6.1)

SA C for circular cross section (Fig 6.2)

SA B for rectangular bend section (Fig 6.3)

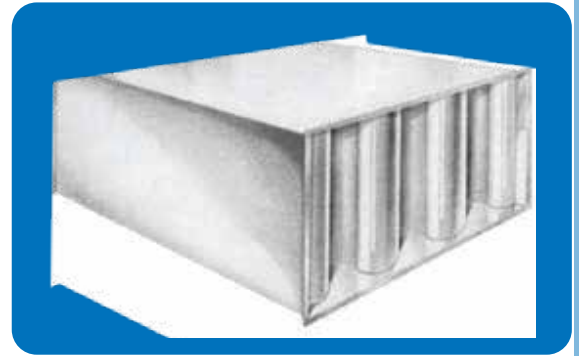


Fig. 6-1

### Construction

#### Outer casing

Galvanised steel sheet 22 gauge or 20 gauge

#### Splitter facings

Body with perforated Galvanised steel sheet 24 gauge  
Entries are half round

#### Acoustic infill

Inorganic, non hygroscopic, flame, moisture and vermin proof mineral fibre of 48 kg/cu.m density properly filled to achieve required acoustic performance. Packed under compression to prevent the formation of voids due to settling.

#### Joints

End flanges are joined by corner pieces and flanges are lock formed to the outer frame of sound attenuator. Splitters are riveted to the outer casing of attenuator.

#### Sealant

Any UL listed or equivalent brand.

#### End connections

Roll formed steel angle flanges, spigot connections or any other appropriate prefabricated flange.

### Hostile environments

In moisture or grease laden or fumes exposed environment the acoustic infill may be enveloped in a melinex or glass coating to facilitate periodic cleaning. This protective layer does not affect the acoustic performance of attenuator and prevent the possibility of progressive particle migration. Hence this can be recommended in high hygiene requirement areas like hospitals, food production areas and laboratories.



Fig. 6-2

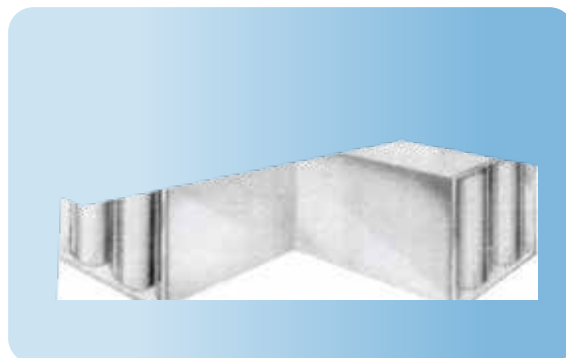


Fig. 6-3