# ASTIC INSULATION MATERIALS INDUSTRIES

*Defining Air Solutions.....*

## SOUND ATTENUATORS

# RECTANGULAR
## SOUND ATTENUATORS

Defining Air Solutions.....

The SAT Attenuator design offers as a standard many features including aerodynamic splitters and side liners, slide on flanges and erosion protected acoustic infill covered by perforated galvanized steel sheet. Casing conforms to DW142 Class B ductwork code

## CONSTRUCTION

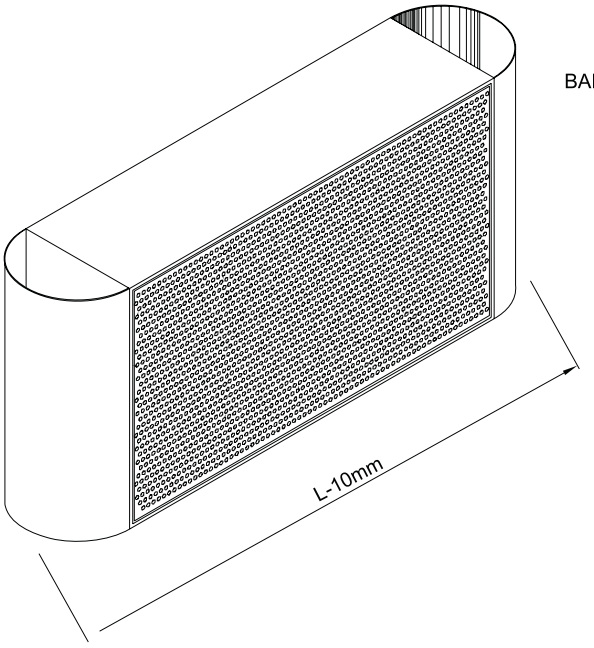
Casing and baffles are manufactured from galvanized sheets metal of 1mm thick. Casing is formed with either lock formed seams. The construction complies with DW 142 Class B code, slide on flanges are fitted as standard. The splitters contain accoustic infill which complies with Class O building regulation.The infill cloth has a black glass tissue/cloth facing and is contained behind perforated sheet of 0.7mm thickness on both sides.

The combination of a splitter and an airway produces a sound attenuator module. The SAT200 sound attenuators are normally supplied in sections when the size exceeds 2100W x 1800H x 2400 L for ease of transportation and assembly at site. For bigger sizes, casing can be manufactured from 1.2mm galvanized steel to comply with DW142 Class C or D. Melinex polyester film can be provided for Clinics/hospitals or food factory kind of applications.

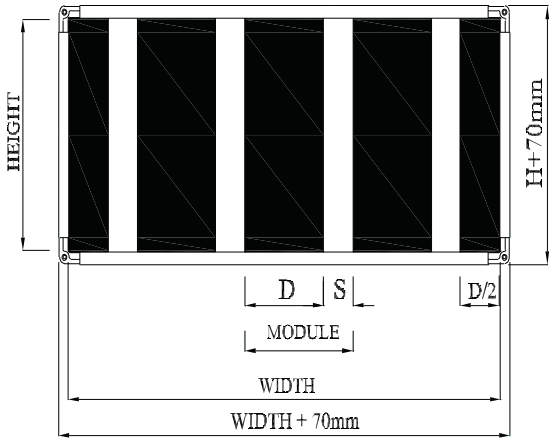
## FLANGELESS CONSTRUCTION

For smaller ducts up to 400x400mm, attenuators can be supplied with spigot connections

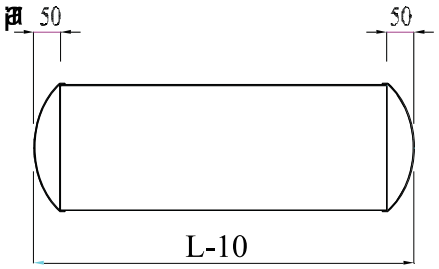
## DIMENSIONS

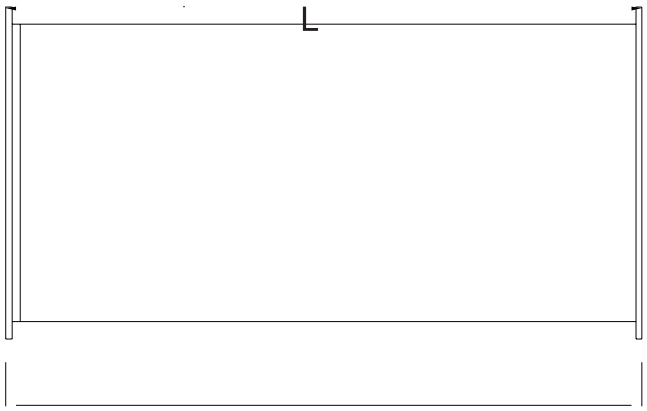



BAFFLE / SPLITTER



## DIMENSIONS




D-B ffle / Splitter Width
S-A Space Width

# BEND TYPE
## SOUND ATTENUATORS

Bend type Sound Attenuators can be designed for vertical and horizontal installation to suit the ductwork layout. The construction is same as that of the rectangular version. To minimize the resistance to airflow, turning vanes are incorporated into the design. These attenuators are mainly used to reduce the fan and machine noise to meet the required or allowed noise level. The attenuator design offers as a standard many features including aerodynamic splitters and erosion protected acoustic infill covered by perforated galvanized steel sheet.

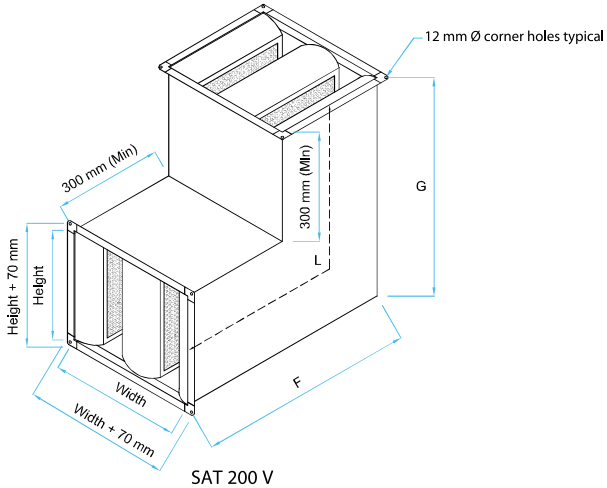
## CONSTRUCTION

Casing and baffles are manufactured from galvanized sheets metal of 1mm thick .Casing is formed with either lock formed seams.The splitters contain acoustic infill which complies with Class O building regulation. The infill cloth has a black glass tissue/cloth facing and is contained 0.7mm thickness on both sides.

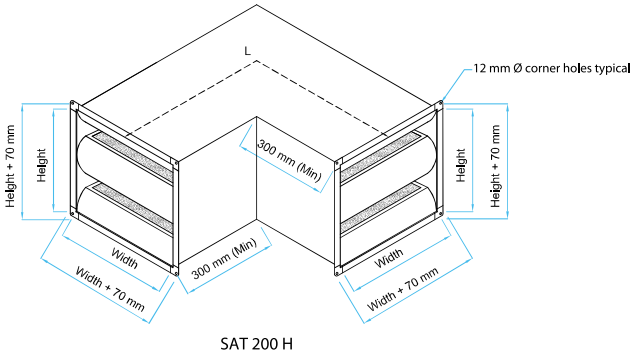
## INSTALLATION

Can be installed directly on the duct section. Suitable for vertical and horizontal mounting.

## DIMENSIONS




SAT 200 V




SAT 200 H

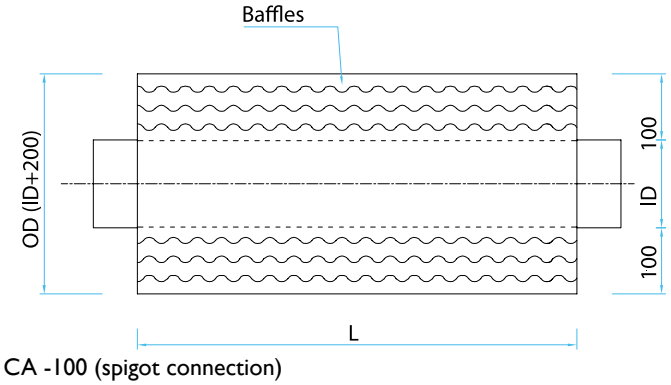
# CIRCULAR
## SOUND ATTENUATORS

The CA circular attenuators can be used to attenuate fan noise and to reduce the airregenerated noise of air terminal units.The CPA attenuators are the same as CA, but with an additional sound absorbing pod at the centre for higher insertion loss. These sound attenuators are prefabricated sections of double walled round duct with solid outer casing and perforated inner casing, with acoustic infill in between the two casings. Construction with spigot connection suitable for circular ducts.

## CONSTRUCTION

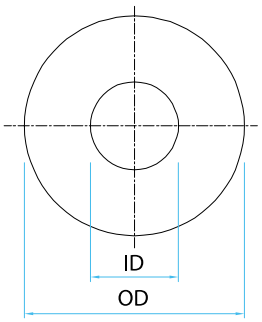
Standard type : CA & Podded type: CPA are available in different size range. Sound attenuator outer casing is manufactured from 1mm thick galvanized steel, constructed with full seam welding. Casing thickness complies with DW 144 class B ductwork code. Inner casing is manufactured from 0.7mm perforated galvanized steel and acoustic infill is contained in between the two casings. The acoustic infill complies with Class O building regulation. The infill has a black tissue coating contained behind the perforated sheet. This dual protection prevents the damage and fibre erosion up to 30m/s.

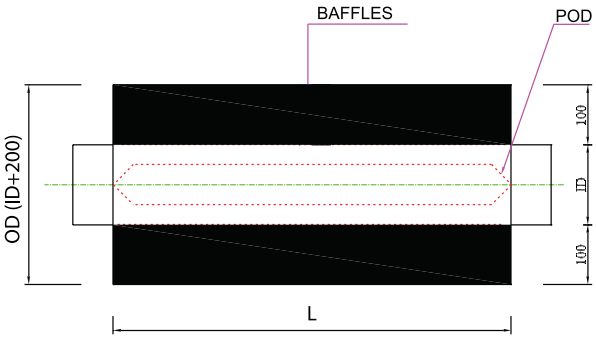
## DIMENSIONS




CA -100 (spigot connection)

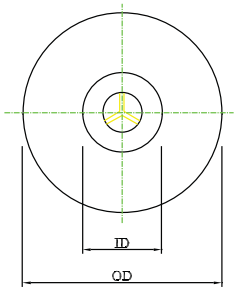
Circular Sound Attenuator without Pod




CPA-100

Circular Sound Attenuator without Pod




# CROSS TALK
## SOUND ATTENUATORS

Crosstalk Sound attenuators are used where privacy and security has priority while maintaining a continuous flow of fresh Air. It gives maximum noise suppressions and minimum noise interference between interconnected rooms, thereby fulfils the requirement of "room to room" cross talk application where no duct is required or used.

## SCS

SCS type designed for inline duct mounting in ventilation system where rooms are served by branches of common duct. Galvanized sheet metal construction to BS 2989 grade Z2 G275 with DW142 Class B code. The splitters contain acoustic in fill which complies with Class O Building Regulations. The splitters are radiussed at both ends to minimize air pressure loss and regenerated noise.

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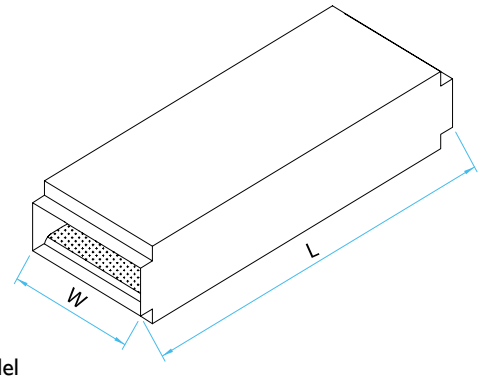
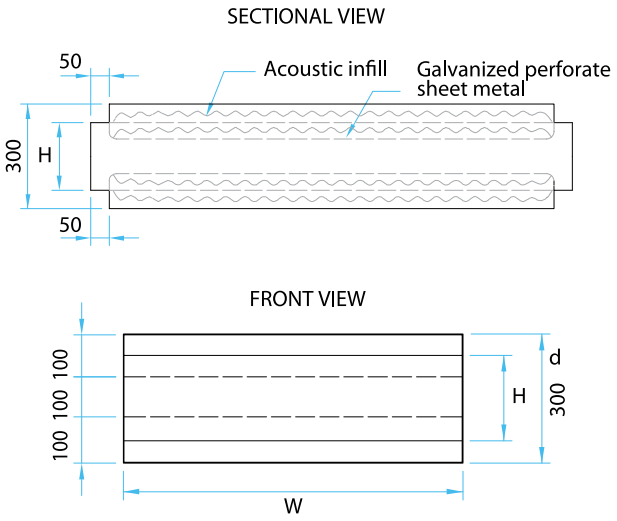
# SCT

SCT type are used to transfer air through attenuators between adjoining areas where the acoustic integrity of a common partition needs to be maintained. Galvanized sheet metal construction to BS 2989 grade Z2 G275.Acoustic lining complies with Class O building regulation

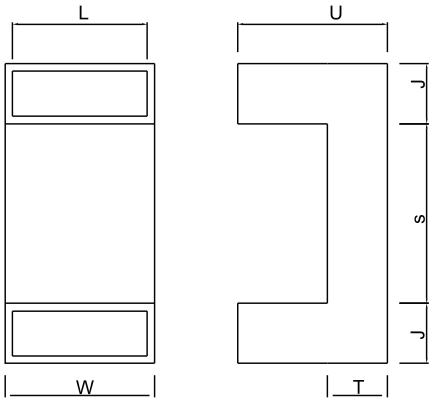
# DIMENSIONS




SCT Model




SCS Model




SCT Model

| Unit Size | H | L | J | W | T | U | S |
|---|---|---|---|---|---|---|---|
| 1 | 100 | 550 | 140 | 590 | 100 | 120 | 760 |
| 2 | 100 | 700 | 140 | 740 | 100 | 120 | 760 |
| 3 | 100 | 900 | 140 | 940 | 100 | 120 | 760 |
| 4 | 100 | 1000 | 140 | 1040 | 100 | 120 | 760 |
| 5 | 100 | 1200 | 140 | 1240 | 100 | 120 | 760 |


Factory

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