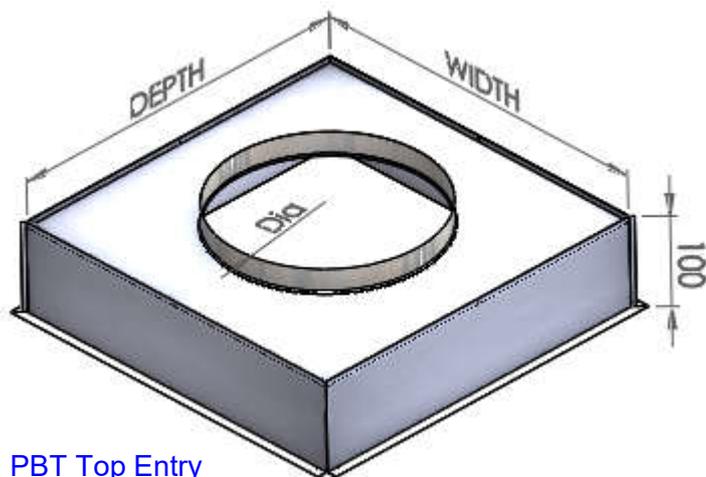


# Plenum Boxes for general Grilles & Diffusers Type: PBS, PBT, PBA



PBT Top Entry

Specialist Ventilation Services range of plenum boxes are specifically designed to suit our comprehensive selection of Grilles and Diffusers.

#### APPLICATION

The PB range of plenum boxes & Pan Adaptors PBA are suitable for all Grilles and Diffusers with or without concealed fixings. This product by nature of the manufacturing process remains robust and can be installed in any orientation to suit the application such as ceiling, wall, bulkhead and vertical air knife installations.

#### SPECIALS:

Due to the flexible manufacturing process it is possible to provide many different configurations so suit all types of layouts and restricted spaces / voids. This can often be achieved with the "Joggle" type plenums PBT-DJ (Double Joggle) or the PBT-SJ (Single Joggle).

Concealed fixing brackets to suit various types of grilles and diffusers can be fitted into the plenums to allow removal without having to fix through the grille flanges.

#### STANDARD:

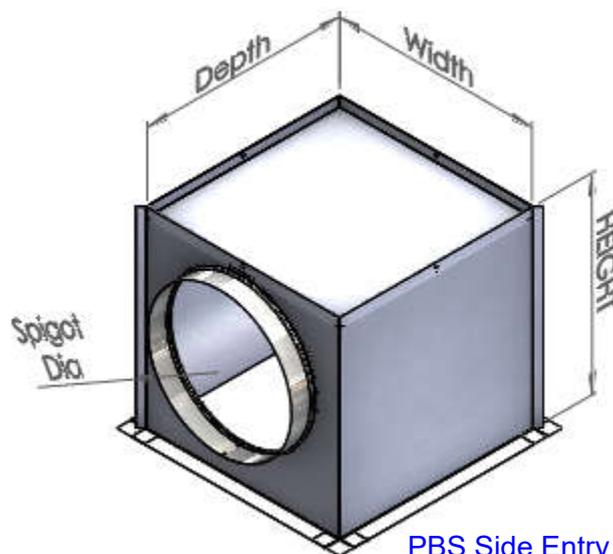
The side entry spigot type PBS & top entry spigot type PBT are our standard base products incorporating edge flanges if required. Each plenum is provided with 4mm Dia holes in the centre of the top of each side to facilitate hanging from above or secure fixing to steelwork brackets or ceilings etc.

All spigots will be circular unless requested otherwise. PBS Plenum heights will be 100mm higher than the spigot size. Dampers, thermal or acoustic insulation linings are not included as standard, please see the list of options below.

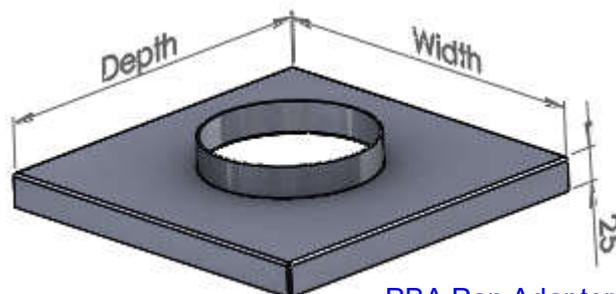
Our standard construction is of Galvanised Mild Steel sheet however Aluminium, 304 & 316 marine grade Stainless Steel options are available for industrial or off shore applications at additional cost.

#### OPTIONS:

- Thermal Insulation (internal)
- Acoustic Insulation (internal)
- Internal Perforated baffles
- Alternative body types & Concealed fixings are available.
- Access Constant Volume damper type ACVD
- Access Single Blade Volume control damper type ASBV
- Cord operated volume control dampers type COD
- Fire dampers.
- Fire rated plenums.
- Flanged spigots
- Rectangular or oval spigots
- Pressure Measurement nipples for commissioning



PBS Side Entry



PBA Pan Adaptor

#### VARIATIONS:

For different types such as Linear Plenums PBLT, PBLT-DJ and PBLT-SJ which include Top entry and Joggle boxes please see the following page.

#### MATERIALS:

Galvanised mild Steel 0.6, 0.9 or 1.2mm thick depending on size. Alternative materials and thicknesses are available.

#### Thermal Insulation:

10mm Expanded Crossed Linked Closed Cell Polyethylene

#### Acoustic Insulation:

10mm Black Acoustic Foam Average density 90kg/m<sup>3</sup> Class "O"

#### CONSTRUCTION:

Pressed formed body and end caps using a clinched assembly method ensuring an energy efficient and rust free construction.

#### ALTERNATIVE FINISH:

Polyester Powder Coated finish for exposed applications.

#### DIMENSIONS:

Minimum recommended size for PBS is 125 x 125 x 150mm High

Minimum recommended size for PBT is 125 x 125 x 30mm High

Maximum size: There isn't one!

Larger sizes can be manufactured in multiple sections or have strengthened frames or mullions.

#### SPECIFICATION:

The PBS/T Plenum Boxes shall be manufactured from 0.6 to 1.2 mm Galvanised Mild Steel sheet press formed from single section of material to give a complete jointless body other than with the end caps.

Fixing / hanging holes shall be provided at the centre of each side. Acoustic or Thermal insulation shall be factory fitted during construction to ensure long term bonding of the foam to the inside of the plenum. Cord operated dampers type COD shall be installed as an integral part of the construction in each spigot where required.