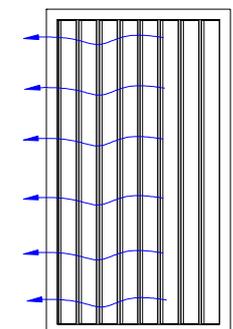
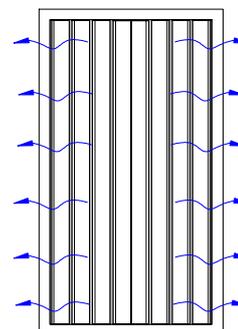
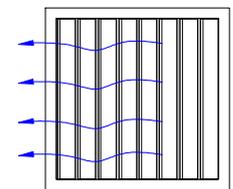
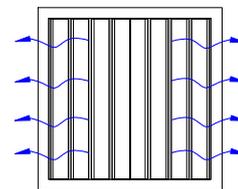
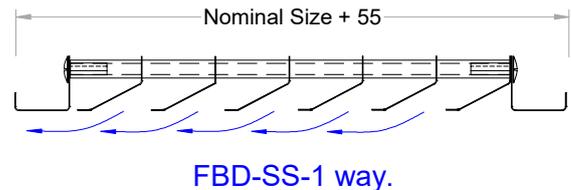
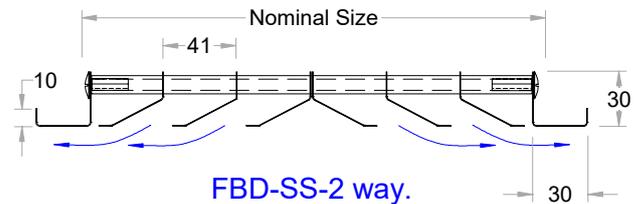


# Fixed Blade Diffuser Type: FBD-SS



## APPLICATION:

The FBD-SS is a Low Profile Stainless Steel Fixed Blade Diffuser. It has been specifically designed for use in ceilings to provide a horizontal air distribution pattern where conventional aluminium or mild steel products are not desirable either for hygiene, corrosion resistance or perhaps just simply for quality or aesthetics. This product by nature of the manufacturing process remains robust and resistant to many chemicals & cleaning fluids etc. Applications such as Laboratories, hospitals, pharmaceutical and industrial premises as well as wide range of marine facilities.

## SPECIALS:

Due to the flexible manufacturing process it is possible to provide many different blade and frame arrangements in terms of thickness and angle as well as depth for increased strength. Alternative shapes are also possible such as circular, arched, triangular and hexagonal for example.

## STANDARD:

Our standard construction is of 304 grade Stainless Steel with a Brush finish known as Dull Polish.

## MATERIALS:

Stainless Steel 304 or 316 DP1 marine grade with a minimum thickness of 1mm depending on grille dimensions.

## CONSTRUCTION:

Pressed formed frame & blades with rod and spacer assembled core providing added rigidity to the frame. Alternative materials and thicknesses are available.

## ALTERNATIVE FINISH:

Polyester Powder Coated. (for mild steel or Aluminum option)  
Mill finish Stainless Steel.  
Polished Stainless Steel.  
Polished Brass.

## DIMENSIONS:

All dimensions are in mm.  
Minimum size 100 x 100  
Maximum size 2000 x 1000 (Single section)  
Larger sizes can be manufactured however they may need to be in sections or have strengthened frames or mullions.  
The "Pitch" dimension is 41 as standard however can be adjusted to any dimension to suit the clients requirements.

## BLADE CONFIGURATION:

It is possible to have long or short blades fitted into a rectangular frame providing more flexibility to suit the clients requirements. It is also possible to have an offset centre on the 2 way option to deliver more air in one direction compared to the other e.g. if the diffuser location is not in the centre of a room or if there are obstructions that may cause disruption to the airflow.

## OPTIONS:

Removable & Hinged cores.  
Various frame types & Concealed fixings are available.  
Alternative frame & blade sizes  
Filters & Filter frames to the rear.  
Volume control & Fire dampers.  
Fire rated & standard plenums / Wall Sleeves.

## SPECIFICATION:

The Flanged frame is to be manufactured from 1mm thick Dull Polished Stainless Steel sheet press formed from a single section of material to give a complete jointless corner on the face flanges.  
The low profile core is 35% free area and manufactured from the same material as the frame. The grain of the brush finish of the core is to be the same direction as the frame.  
The core is to be securely fixed to the frame using rods and spacers.  
Screw Holes (countersunk or flat) shall be specified if required.  
The Stainless Steel Grade shall also be specified i.e. 304 or 316 etc.