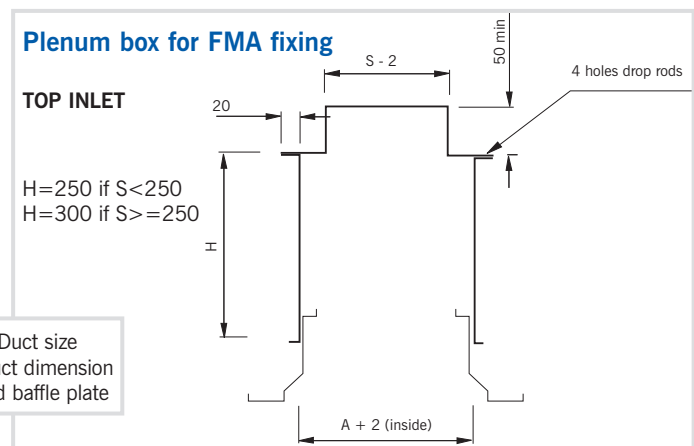
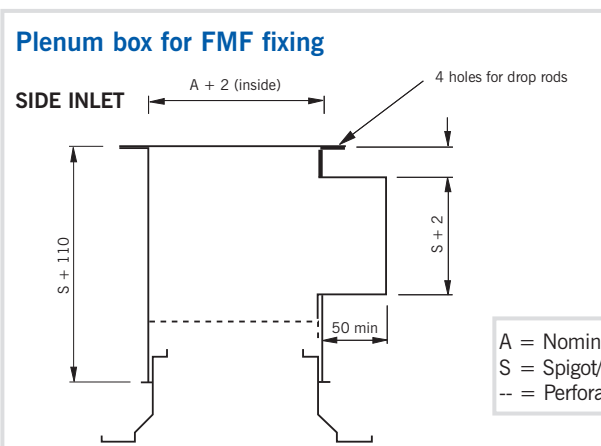
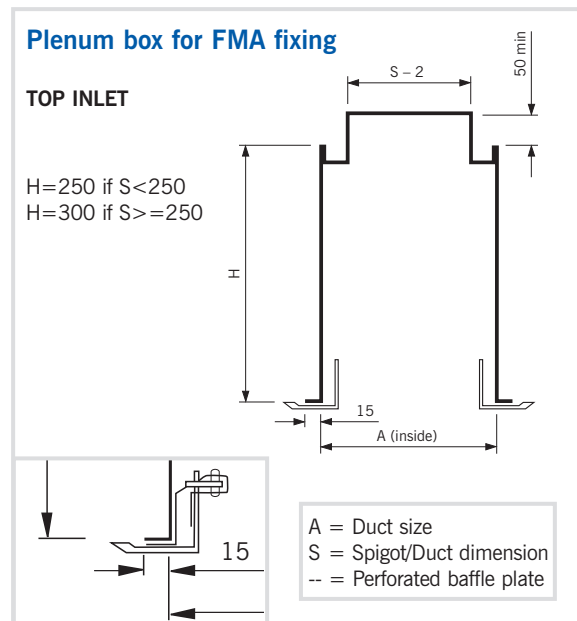
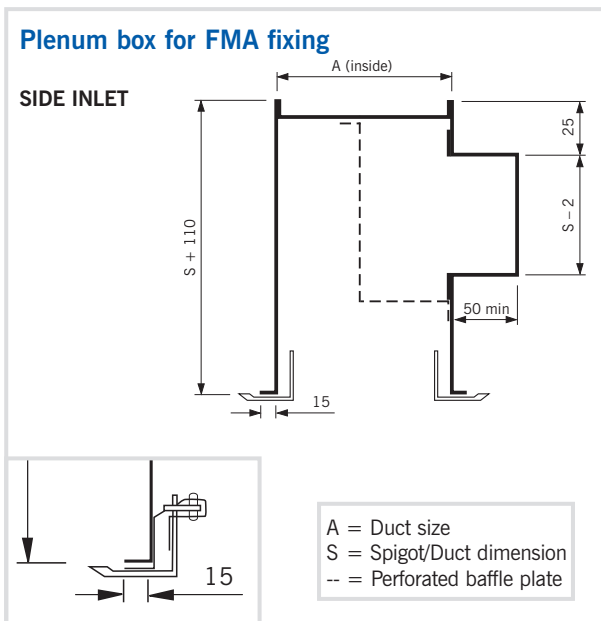


Plenum & adaptor boxes (PLB & ADB)

Plenum boxes (PLB) are accessories for use with Grilles and Diffusers. They are designed to equalise the pressure profile within the box and hence provide an even velocity at the face of the grille or diffuser without the use of Equalising Grids. PLB boxes are manufactured from "Zintec" mild steel.

Construction being attained by mechanical tagging. The spigots are spot welded to either the top or side face of the box. All supply plenums are fitted with perforated baffle plates (except top inlet where the spigot size is within 100mm of the box dimension).

Plenum boxes can be internally lined with 25mm acoustic insulation. This will increase the overall dimensions by approximately 50mm, details available on request. **Adaptor boxes (ADB)** to convert standard square neck Grilles and Diffusers to a circular spigot connection are also available.

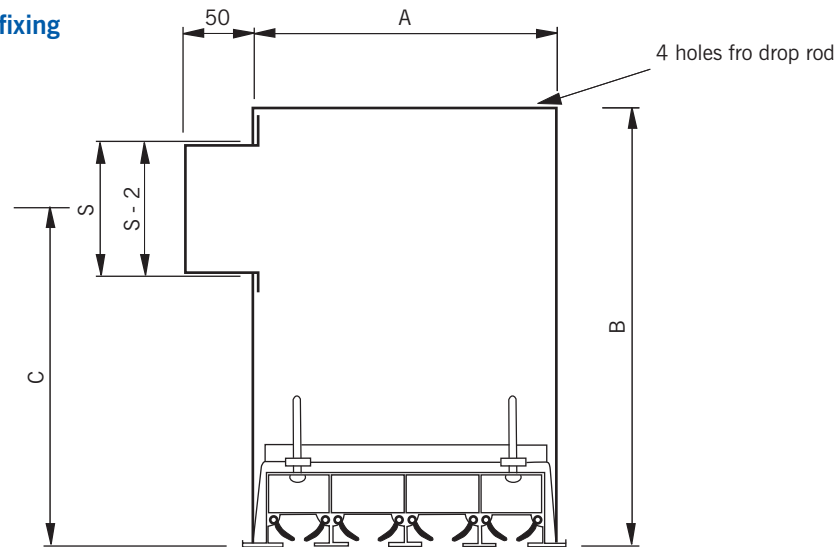


Fixing methods

Plenum box for FMK fixing

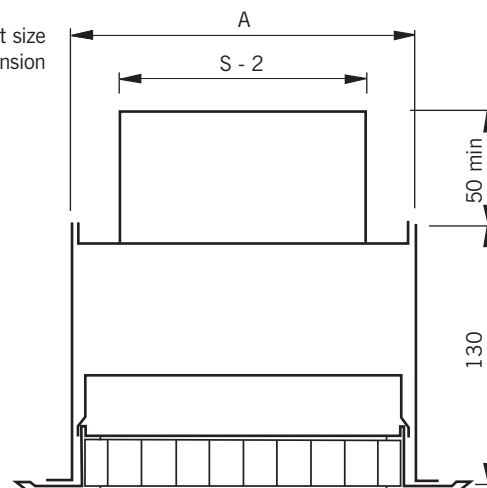
A = Opening size/Duct size
 S = Spigot/Duct dimension
 -- = Perforated baffle plate

B = Spigot S + 200
 C = 175 + S/2

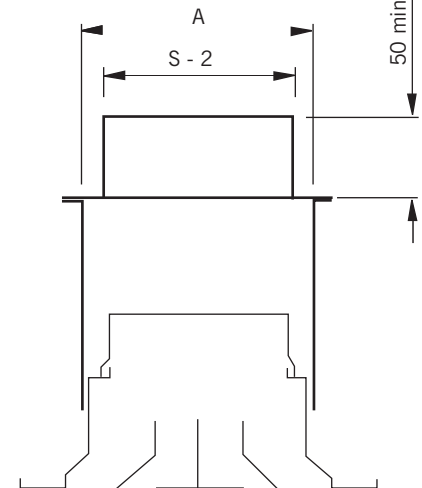


Adaptor box for SDG/DDG/ECG/ELD

A = Opening size/Duct size
 S = Spigot/Duct dimension



Adaptor box for SQD/SWL



Spigot selection

Published noise data for Square and Slot diffusers is for the device with dampers in the fully open position. Care must be taken to ensure that the noise

generated at the spigot entry does not exceed that level.

The following table gives the maximum volume in m³/sec

that each spigot size can handle for a given noise criteria.

Spigot Diameter	NC25	NC30	NC35	NC40
125	0.031	0.037	0.043	0.055
150	0.044	0.053	0.062	0.080
200	0.079	0.094	0.110	0.141
250	0.123	0.147	0.172	0.221
300	0.177	0.212	0.247	0.318
350	0.241	0.289	0.337	0.433
400	0.314	0.377	0.440	0.565
450	0.398	0.477	0.557	0.716