

SERIES TCB-C & SEB-C

Circular Plenum

PUBLICATION

DIFFUSERS: 22

JULY 2026



Features

- Full Circular design appearance
- Top or Side Entry
- 0.7mm Galvanised steel construction
- Plenum Inlet damper options
- Designed to Suit 8 different circular diffuser types
- Finishable to match ceiling colour design theme



GILBERTS

SERIES TCB-C & SEB-C

Circular Plenum

Introduction

Gilberts Series C provides a purpose made range of circular profile plenum boxes perfectly suited for contemporary circular ceiling diffusers. Formed from 0.7mm Galvanised treated mild steel the plenums are neatly seamed to provide the attractive aesthetic required for exposed services ceilings.

As a circular design this plenum is often preferred for use in contemporary exposed ceiling applications with the plenum on show. Please advise where plenums are exposed **Galvalike®** is the default finish for exposed plenum boxes. See page 10 for more information.

Both top and side entry inlet models are available and a number of volume control options can also be fitted including quadrant, cord or teleflex operated flap dampers or even iris type dampers.

Series Options:

Type TCB-C: Top entry plenum box

Type SEB-C: Side entry plenum box

Diffuser Options:

The circular plenum range is designed to suit the following circular diffuser types:

Series GSFA	Fixed Swirl Diffuser
Series GSJA	Adjustable Swirl Diffuser
Series GSFE	Fixed Swirl Diffuser
Series GSJE	Adjustable Swirl Diffuser
Series GDC-A	Fixed Swirl Diffuser
Series GRC	Multi Cone Circular Diffuser
Series MN-E	Multi Nozzle Diffuser
Series GA	Fixed Swirl Diffuser

Two fitting size options also allow the plenum to be fitted either to the neck of the diffuser or directly to the flange dependent upon appearance preferences (except MN-E & GA)

The plenums are typically supplied loose from the diffuser and come complete with fixing angles at the top for standard drop rod support.

For thermal acoustic lining we have options of 12 or 25mm Pyrosorb or 12mm Armaflex

Plenum standard finish is mill galvanised steel but polyester powder finishes to standard BS/RAL colours are optionally available to allow the plenum to match with other ceiling components. Plenum internals are also normally mill finish however a Matt black internal finish can be specified where required.

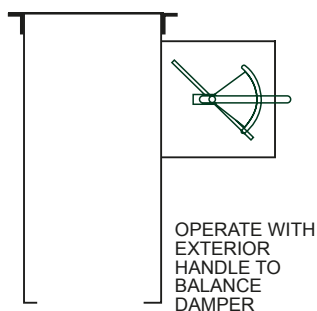
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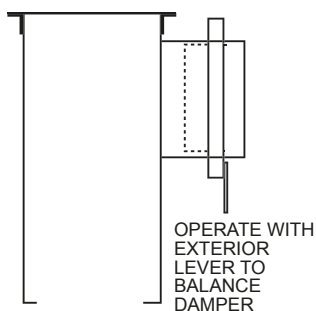


Spigot Damper Options

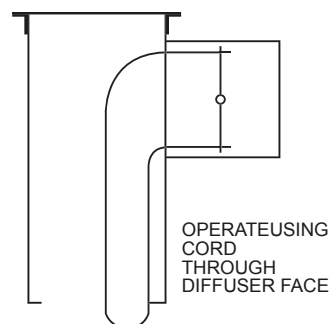
QUADRANT
REF. DQ



IRIS
REF. DI



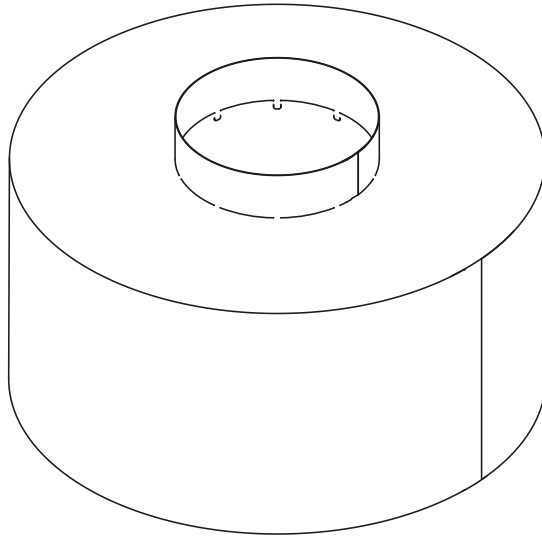
CORD
REF. DC



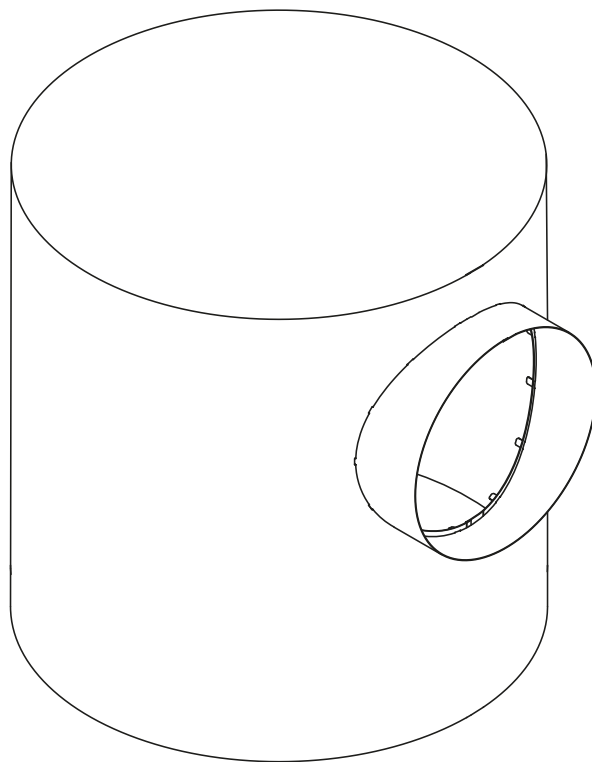
SERIES TCB-C & SEB-C

Circular Plenum

Top Entry
Plenum



Side Entry
Plenum



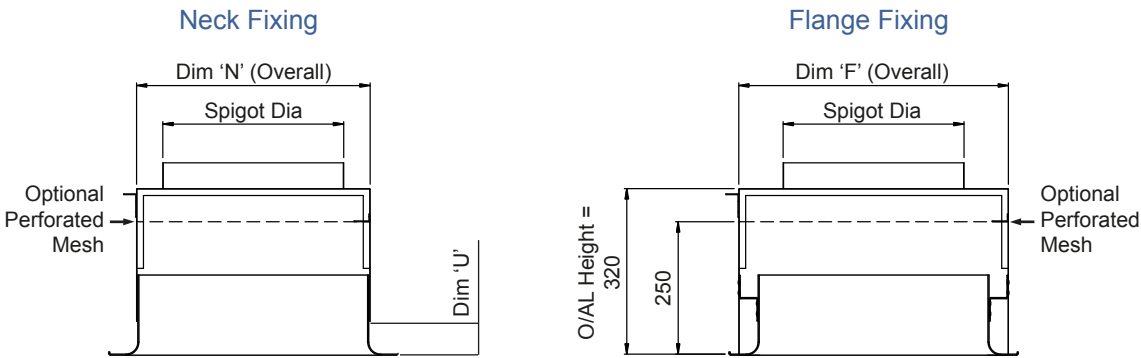
SERIES TCB-C & SEB-C

Circular Plenum

Type TCB-C Top Entry

DIFFUSER TYPE GSFA & GSJA

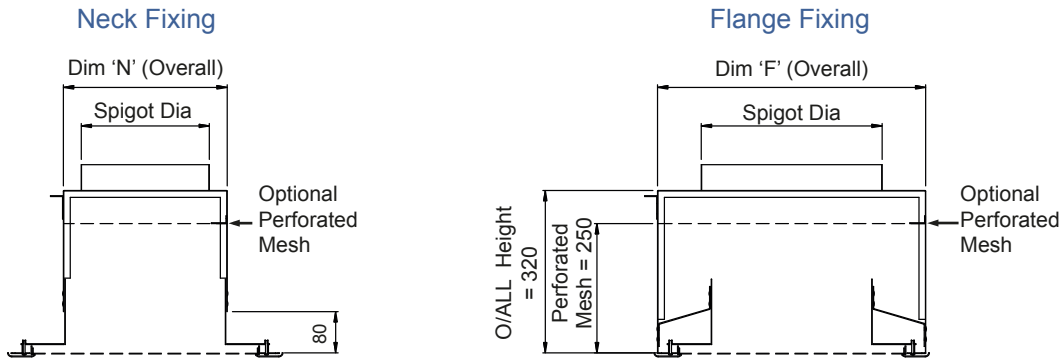
Top Entry



TYPE GSFA & GSJA			
LIST SIZE (swirl diameter)	ø DIM F (Flange Fix)	ø DIM N (Neck Fix)	DIM 'U'
160	232	162	23
250	322	252	23
315	387	317	23
450	522	452	63
630	702	632	63

DIFFUSER TYPE GSFE & GSJE

Top Entry



TYPE GSFE & GSJE		
LIST SIZE	ø DIM F (Flange Fix)	ø DIM N (Neck Fix)
160	360	162
250	450	252
315	515	317
450	649	452

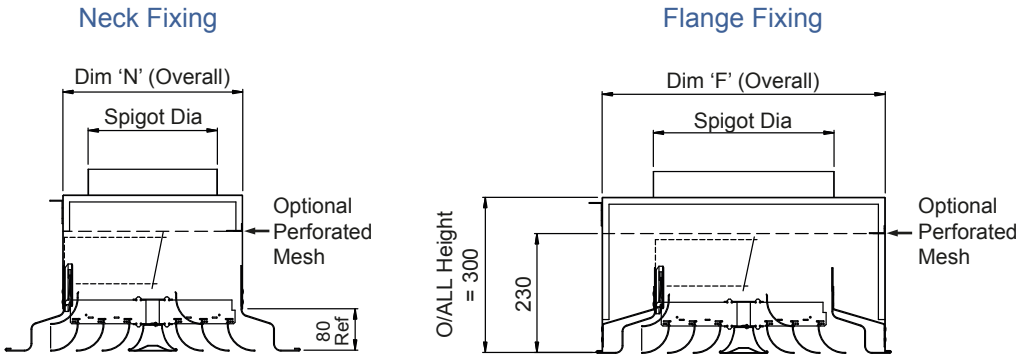
SERIES TCB-C & SEB-C

Circular Plenum

Type TCB-C Top Entry

DIFFUSER TYPE GRC

Top Entry



TYPE GRC		
LIST SIZE	ø DIM F (Flange Fix)	ø DIM N (Neck Fix)
150	349	150
250	449	250
350	549	350
450	649	450
550	749	550
650	849	650

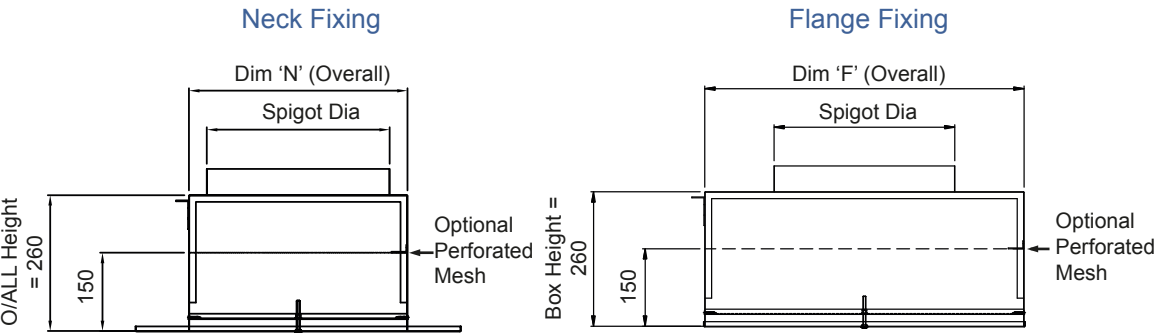
SERIES TCB-C & SEB-C

Circular Plenum

Type TCB-C Top Entry

DIFFUSER TYPE
GDC-A, MN-E & GA

Top Entry



TYPE GDC-A		
List Size (o/a size)	DIM F	DIM N
600 (723)	718	648
500 (623)	618	548
500 (723)	718	548
315 (423)	418	363
315 (623)	618	363

TYPE GDC-A		
List Size (o/a size)	DIM F	DIM N
315 (723)	718	363
250 (323)	318	298
250 (423)	418	298
250 (623)	618	298
250 (723)	718	298

TYPE MN-E	
List Size	DIM F
600	718
500	618
400	518
300	418

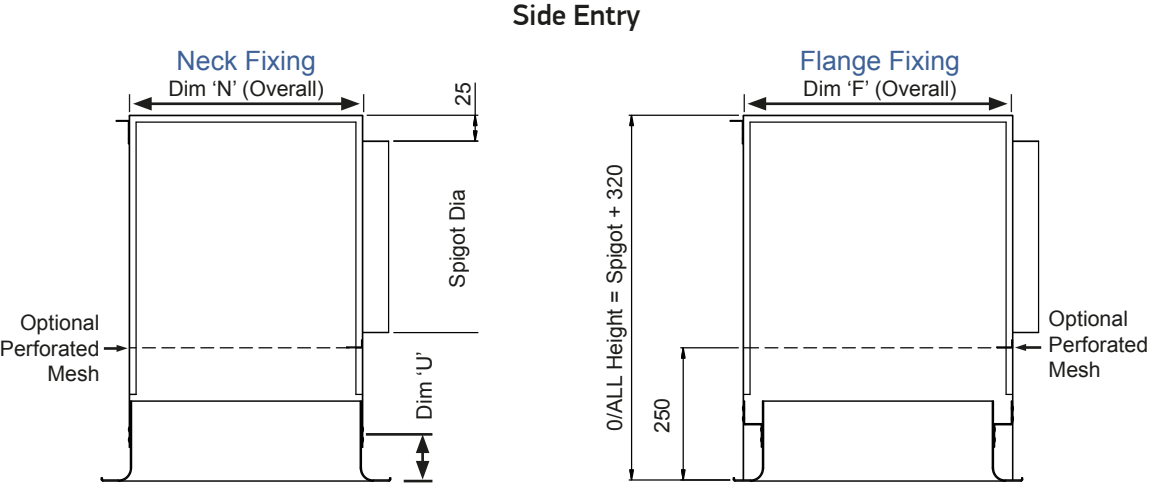
TYPE GA	
List Size	DIM F
500	618

SERIES TCB-C & SEB-C

Circular Plenum

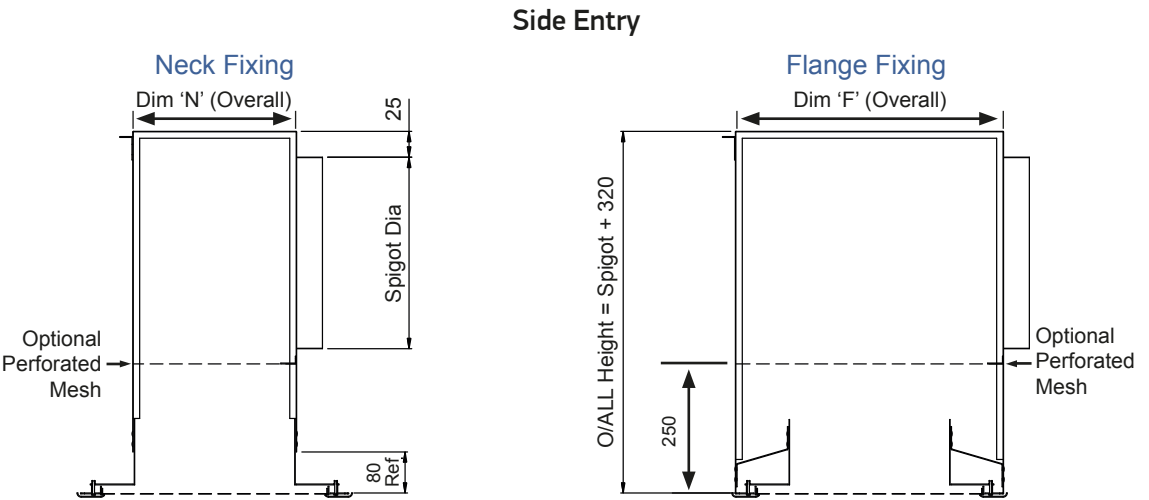
Type SEB-C Side Entry

DIFFUSER TYPE GSFA & GSJA



TYPE GSFA & GSJA			
LIST SIZE (swirl diameter)	ø DIM F (Flange Fix)	ø DIM N (Neck Fix)	DIM 'U'
160	232	162	23
250	322	252	23
315	387	317	23
450	522	452	63
630	702	632	63

DIFFUSER TYPE GSFE & GSJE



TYPE GSFE & GSJE		
LIST SIZE	ø DIM F	ø DIM N
160	360	162
250	450	252
315	515	317
450	649	452

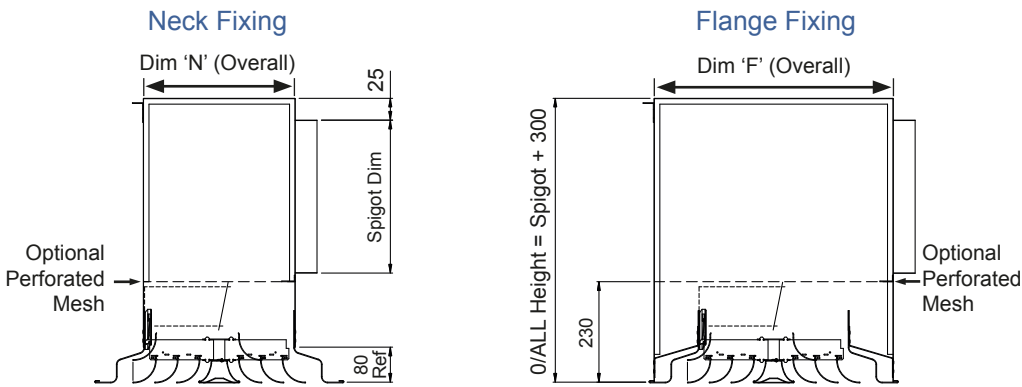
SERIES TCB-C & SEB-C

Circular Plenum

Type SEB-C Side Entry

DIFFUSER TYPE GRC

Side Entry



TYPE GRC		
LIST SIZE	ø DIM F (Flange Fix)	ø DIM N (Neck Fix)
150	349	150
250	449	250
350	549	350
450	649	450
550	749	550
650	849	650

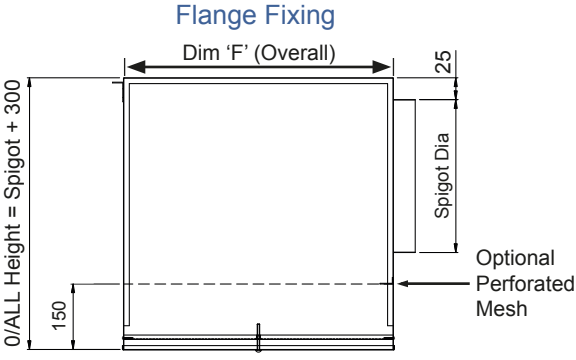
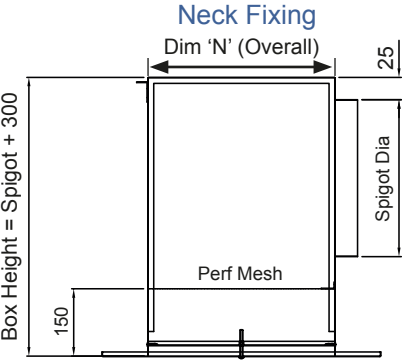
SERIES TCB-C & SEB-C

Circular Plenum

Type SEB-C Side Entry

DIFFUSER TYPE
GDC, MN-E & GA

Side Entry



TYPE GDC-A		
List Size (o/a size)	DIM F	DIM N
600 (723)	718	648
500 (623)	618	548
500 (723)	718	548
315 (423)	418	363
315 (623)	618	363

TYPE GDC-A		
List Size (o/a size)	DIM F	DIM N
315 (723)	718	363
250 (323)	318	298
250 (423)	418	298
250 (623)	618	298
250 (723)	718	298

TYPE MN-E	
List Size	DIM F
600	718
500	618
400	518
300	418

TYPE GA	
List Size	DIM F
500	618

SERIES TCB-C & SEB-C

Circular Plenum

Ordering Specification

Type Top Entry TCB-C Side Entry SEB-C	SEB-C	GRC	AT1	150	NEK	X	BB	PM	BH370	SS250
To Fit Diffuser Type GDC-A GRC GSFA & E GSJA & E MN-E GA										
Thermal/Acoustic Insulation 12mm Pyro AT1 25mm Pyro AT2 12mm Closed cell*.... AT3										
To Fit Diffuser Size										
Fixing Point Neck NEK Flange FLN										
Exposed X Concealed H										
Matt Black Finish (internal & external).... BB										
Perforated MeshPM										
Box Height										
Spigot & Damper Options No Damper SS+Size Quadrant DQ+Size Cord operated .. DC+Size Iris Damper DI+Size										

Thermal/Acoustic Insulation (AT1, AT2, and AT3)

Plenum box can be fully lined with 12mm [standard] or 25mm Pyrosorb thermal/acoustic insulation. Alternatively 12mm closed cell* can also be specified.

**Class '0' fire-rated, closed cell, elastomeric PVC nitrile foam.*

Perforated Mesh (PM)

Plenum optionally fitted internally with 50% perforated Equalising mesh.

Spigot & Damper Options

Side Entry Plenums can be supplied with either single or twin spigot inlets and mounted on the same, or opposite sides of the box. Each spigot can also be fitted with quadrant, cord or iris dampers.

Finish

Please advise where plenums are exposed **Galvalike®** is the default finish for exposed plenum boxes. A unique powder coated finish formulated to best match British galvanised material, whilst protecting the products from finish variation and moisture damage etc. Plenums may also be powder coated to suit grille/diffuser finish. For alternative plenum finishes, please contact head office.

GILBERTS

Head Office and Works

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