

The DFZ series perforated diffusers are designed to be applied in air conditioning ventilation and heating systems. They can be mounted in false ceilings.

The face design of DFZ-S4 diffuser cause a 4 way horizontal air supply with an accentuated coanda effect. Their multiple small openings provides a high level of induction rate, emitting a uniform air flow.

The DFZ series diffusers admit a flow variation of 60% keeping the air stream stable. These diffusers can be used from 2.6 up to 4 metres high and at temperature differential up to 12°C. The design of these diffusers is ideal for integration with modern ceiling constructions.

Material:

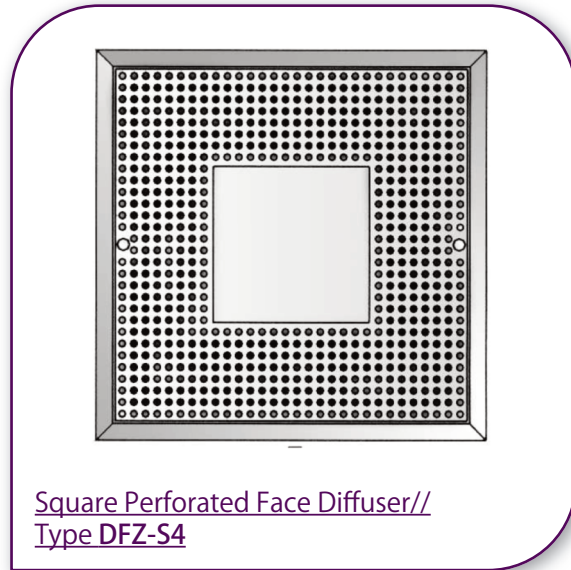
Manufactured from galvanised steel.

Classification:

DFZ-S4+P - Square diffuser for supply with plenum box.

DFZ-R+P - Square diffuser for extract with plenum box.

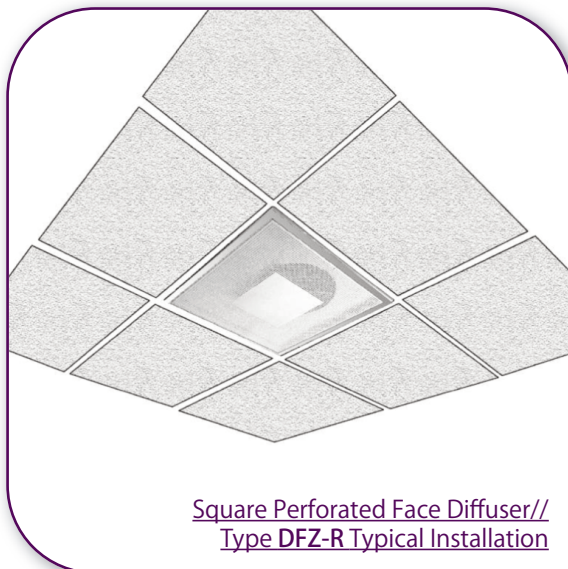
DFR - Square diffuser for extract without plenum box, to replace a false ceiling tile.



Square Perforated Face Diffuser//
Type DFZ-S4



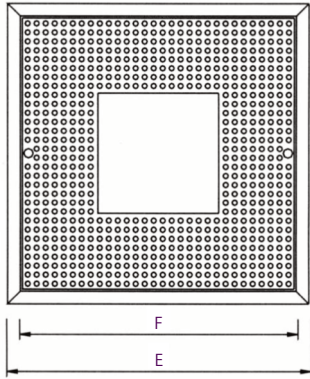
Square Perforated Face Diffuser//
Type DFZ-R



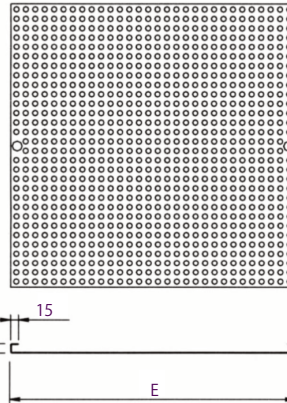
Square Perforated Face Diffuser//
Type DFZ-R Typical Installation

Accessories:

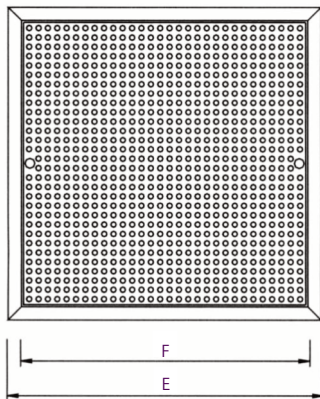
P - Plenum box with an upper circular connection. It includes supports to hang from the ceiling. Made in galvanised steel.



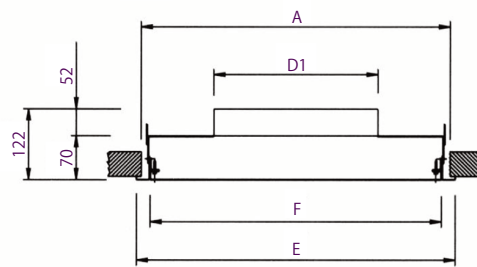
Type S4+PLFZ



Type DFR

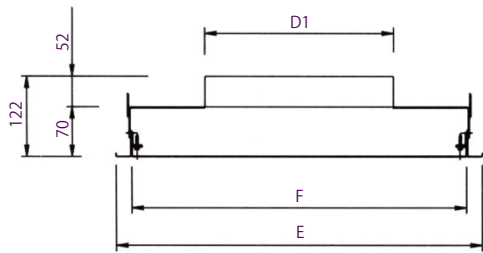


Type DFZ-R+PLFZ

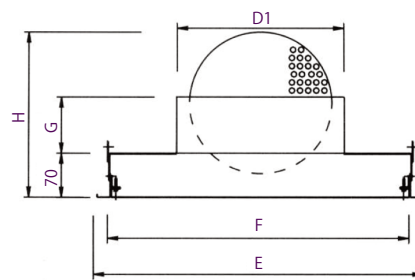


Type DFZ-S4+PLFZ/Type DFZ-R+PLFZ				
	E	A	F	D1
600	595	569	545	313

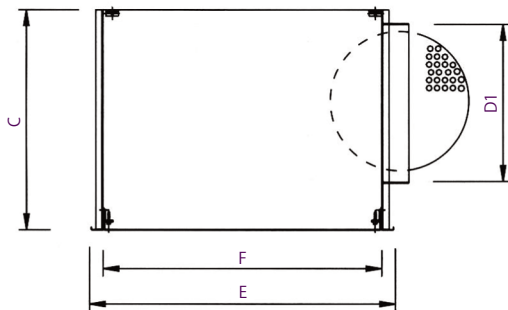
Type DFR	
	E
600	595



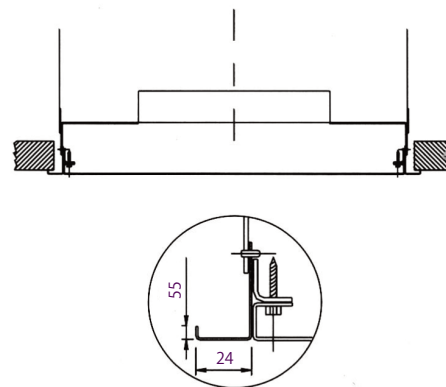
Type PA



Type PAD



Type PS



Type PR

Fixing Systems:

P - Connection into the plenum box by means two screws, to hang the assembly from the ceiling with drop rods.

Finishes:

Polyester powder-coated in the following colours:
RAL 9006 - Silver, RAL 9010 - White,
RAL - Other colours at an additional cost.

Type PLFZ/Type PLFZ-R

	E	F	D1	H	G
300	295	245	123	185	60
400	395	345	198	205	60
500	495	445	248	286	116
600	595	545	313	319	116
625	620	570	313	319	116

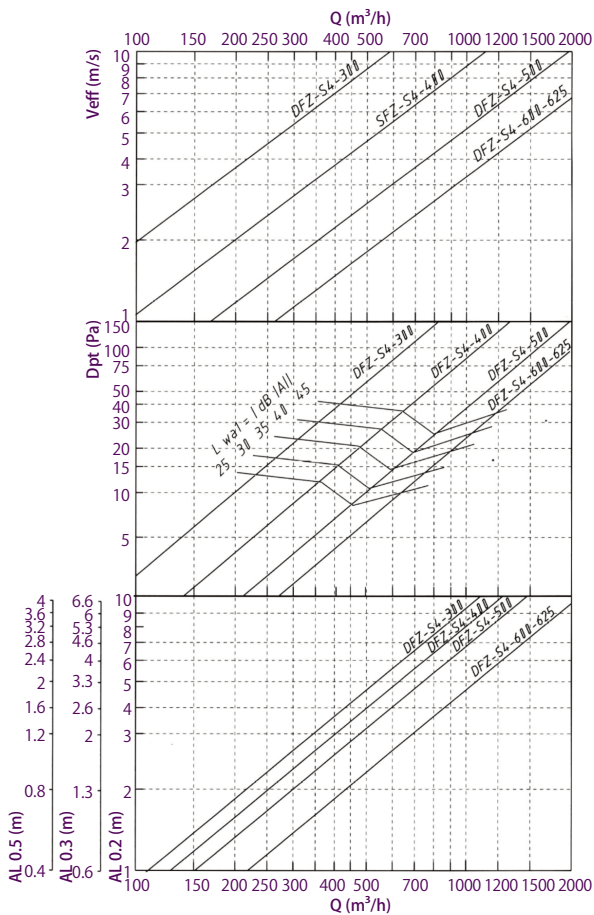
Type PLFZ/L/-R

	E	F	D1	C
300	295	245	123	280
400	395	345	198	320
500	495	445	248	370
600	595	545	313	435
625	620	570	313	435

Recommended Velocity

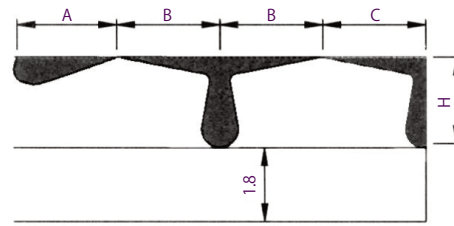
DFZ-S4	V min m/s	V max m/s
300	2.5	4.5
400	2.5	4
500	2.5	3.5
600	2.5	3.5
625	2.5	3.5

Effective Velocity, Pressure Loss & Sound Power Level Throw with Ceiling Effect



$$DPt1 = Kp \times DPt$$

$$Lwa = Lwa1 + Kf$$



$$AL_{0.2} = A$$

$$AL_{0.2} = B+H$$

$$AL_{0.2} = C+H$$

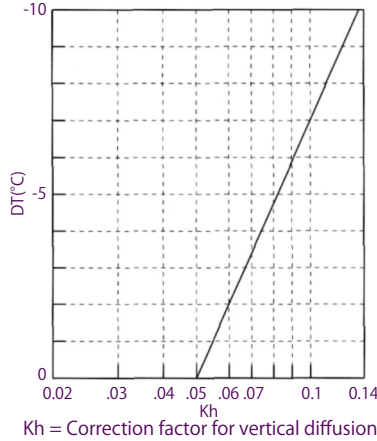
Effective Face Area m^2

DFZ-S4	Aeff m^2	Qmin m^3/h	Qmax m^3/h
300	0.0149	134	241
400	0.0309	278	444
500	0.0522	470	650
600	0.0798	718	1000
625	0.0798	718	1000

Correction Factor for DPt & LWA1

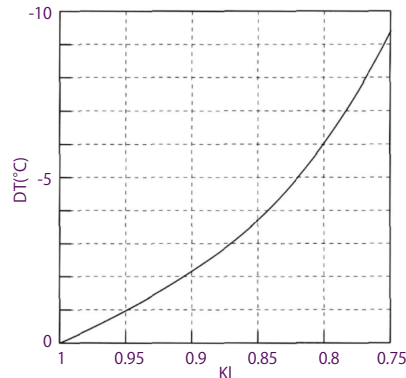
DFZ-S4		100% Open	50% Open	10% Open
300	DPt/Kp/	1	1.25	2.1
	Lwa1/Kf	0	5	13
400	DPt/Kp/	1	1.7	3.4
	Lwa1/Kf	0	8	19
500	DPt/Kp/	1	1.5	2
	Lwa1/Kf	0	5	11
600	DPt/Kp/	1	1.3	2.1
	Lwa1/Kf	0	3	8
625	DPt/Kp/	1	1.3	2.1
	Lwa1/Kf	0	3	8

Correction Factor for Vertical Diffusion (bV) for DT(-)

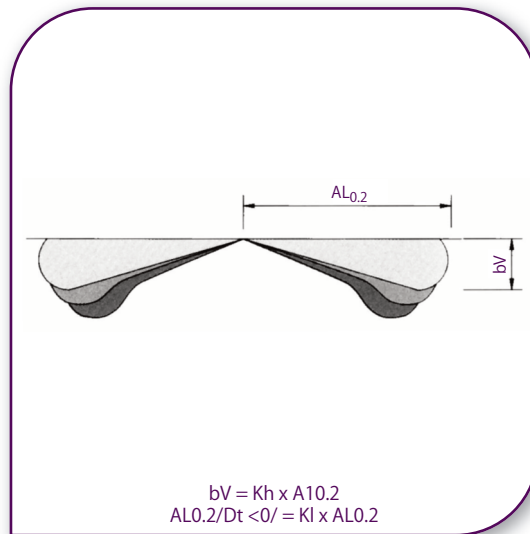


Kh = Correction factor for vertical diffusion

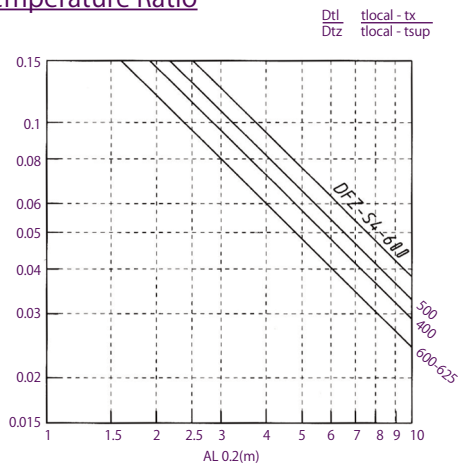
Correction Factor for Throw (L0.2) DT(-)



Kl = Correction factor for throw



Temperature Ratio



Induction Ratio

