

DF series multidirectional diffusers

DF SERIES MULTIDIRECTIONAL SPEAKERS



CARATTERISTICHE

Diffuser, which can be used for both air intake and extraction in indoor environments, especially ceiling/ceiling.

It consists of a flat white screen, spaced from the frame so as to spread air tangentially to the four sides, and a frame that also acts as a support for the screen.

The speaker's screen is the same size as the outside of the frame, of which only the outer edge remains in view.

DF speakers have the possibility of **adjusting** the gap that exists between the screen and the frame to two positions, 3 mm apart, by shifting the shim interposed between the springs and the screen (an operation by the customer).

The screen pulls out and inserts very easily for cleaning.

Materiali di costruzione

- Aluminum thickness. 1.5 mm for the screen.
- PVC color white RAL 9010 for the frame.
- Forex thick. 6mm for the insulation board on the non-visible face of the screen.
- Steel for clips (springs).

Screen color

White RAL 9010, with epoxy powder coating.

Fixing methods

- Steel clips (springs) for quick-release attachment of the screen to the frame. In addition, the frame has 2 nylon thread safety cables to be attached (by the customer) to two of the eight screen spring-fixing screws by unscrewing the nuts, inserting the eyelets under the washers, and screwing them back on.
- Mounting of the frame on the PAL plenum, if any, is quick-fit (see also the PAL plenum data sheet).



ACCESSORIES (optional)

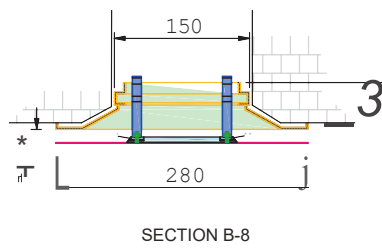
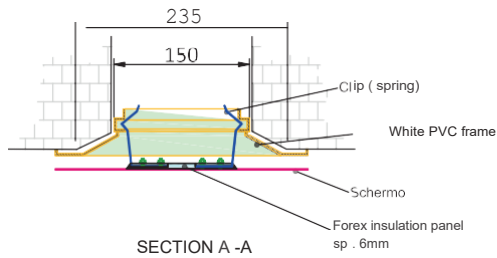
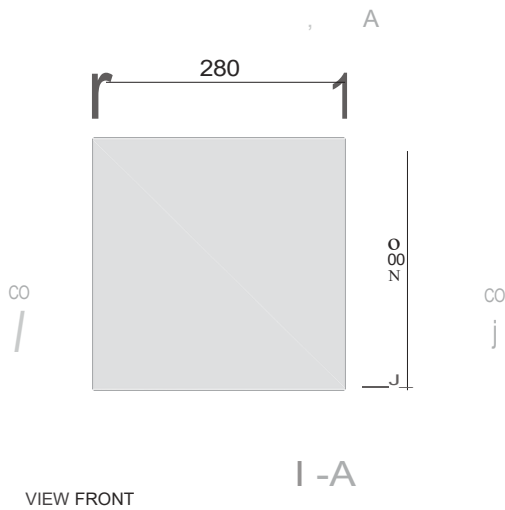
- Contrast calibration damper (PVC frame and bayblend fins) series -S/02.
 - Plenum in "PAL" series PAL/02.
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DIMENSIONS

Multidirectional diffuser DF 150x150

Code -DF/150X150B

With aluminum screen thickness. 1.5 mm white RAL9010.

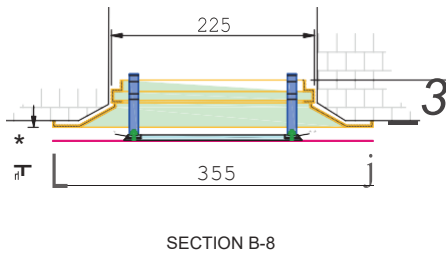
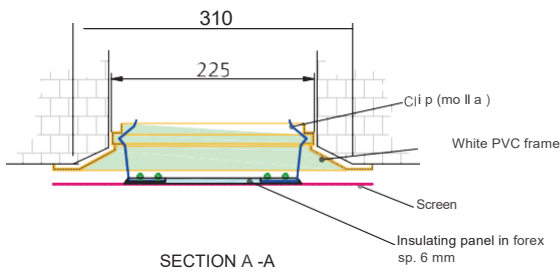
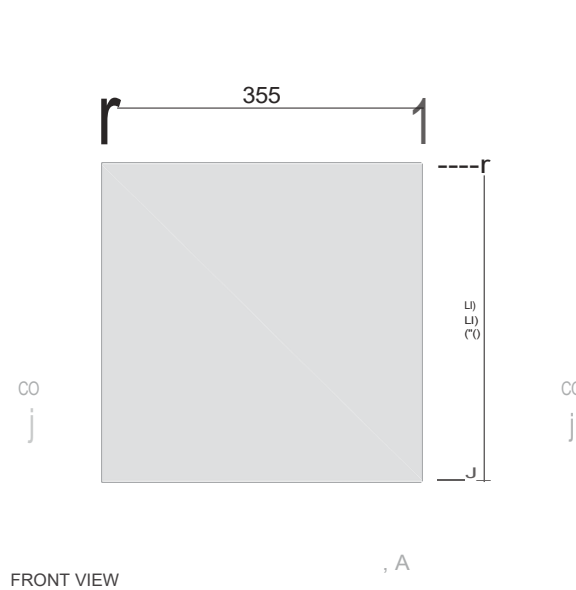


- to increase the a bring a t a of the speaker is exposed lan guage s -- in for ex s p. 3 mm below the springs : the a crack perimeter will measure 17 mm instead of 14 mm.

Multidirectional diffuser DF 225x225

Code - DF/225X225B

With aluminum screen thickness. 1.5 mm white RAL9010.



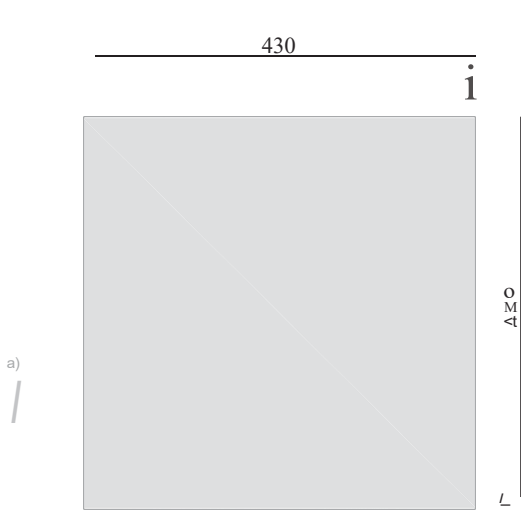
- * to increase the a bring a t a of the diffuser l e language : tn for ex s p. 3 mm below the m o l l e : the a c e s s u r e p e r i m e between will measure 17 mm instead of 14 mm.

DIMENSIONS

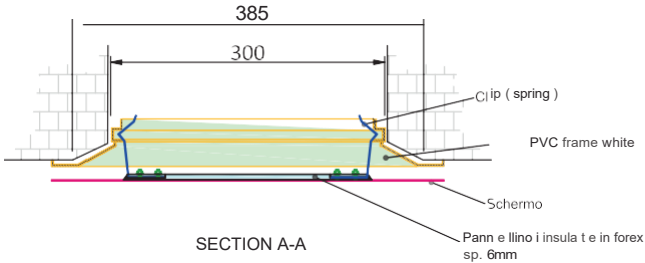
Multidirectional diffuser DF 300x300

Code - DF/300X300B

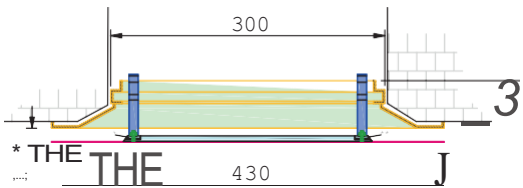
With aluminum screen thickness. 1.5 mm white RAL9010.



FRONT VIEW



SECTION A-A



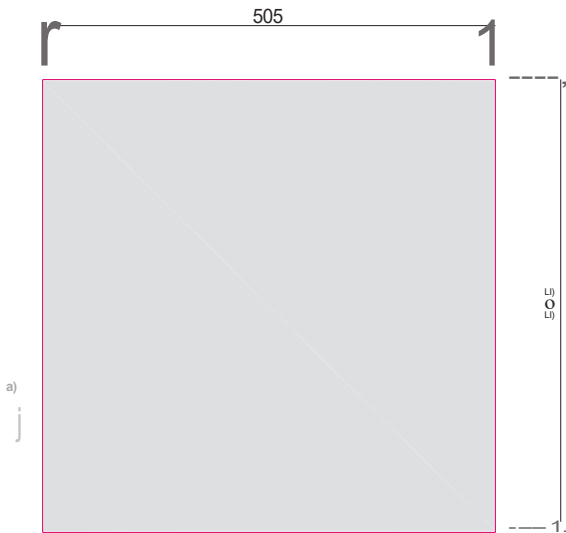
SECTION B-B

- to increase the range of the diffuser is they carry the tongues in forex sp.3 mm to the below of the springs: the perimeter slot will measure 17 mm instead of 14 mm

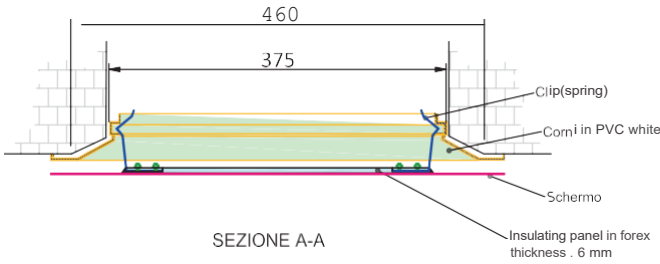
Multidirectional diffuser DF 375x375

Code - DF/375X375B

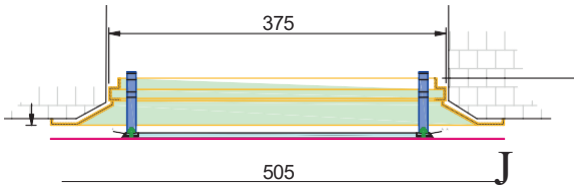
With aluminum screen thickness. 1.5 mm white RAL9010.



VIEW FRONT



SEZIONE A-A



SECTION B-B

to the below of the springs: the perimeter slot will measure 17 mm instead of

A

* to increase the range of the diffuser is they carry the tongues in forex sp.3 mm

DIMENSIONS

to the below of the springs: the perimeter slot will measure 17 mm instead of

TABLE WITH SPEAKER DIMENSIONS

Code	Adjustment*	Plenum neck connection measurements [mm]	External measurements [mm]	Hole measurements on ceiling [mm]
- DF/150X150B	2 steps	150x150	280x280	235x235
- DF/225X225B	2 steps	225x225	355x355	310x310
- DF/300X300B	2 steps	300x300	430x430	385x385
- DF/375X375B	2 steps	375x375	505x505	460x460
- DF/375X150B	ask ours. technical office			
- DF/450X225B				

(*) The two steps are for 14 mm or 17 mm high slots, respectively, and the flow rates for adjusting DF series diffusers on either step vary proportionally.

QUICK SELECTION TABLE

Code	Area on useful diffusion contour [m ²]	Flow rate (m ³ /h) with v = 2.5 m/s Pressure drop: 2 Pa	Flow rate (m ³ /h) with v = 3 m/s Pressure drop: 3 Pa	Flow rate (m ³ /h) with v = 4 m/s Pressure drop: 5 Pa	Flow rate (m ³ /h) with v = 5 m/s Pressure drop: 8 Pa	Flow rate (m ³ /h) with v = 6 m/s Pressure drop: 12 Pa
- DF/150X150B	0.0135	122	146	195	243	292
- DF/225X225B	0.0169	153	183	244	305	366
- DF/300X300B	0.0208	184	221	295	368	442
- DF/375X375B	0.0243	218	262	349	437	524
- DF/375X150B	ask ours. technical office					
- DF/450X225B						

DF diffuser flow rates are for 14 mm high perimeter slot; for slot increased to 17 mm, also increase flow rates by 22%.