

FONOPROTEX

SILENCED AIR IN-TAKE FOR VENTILATION HOLES OF KITCHENS WITH HIGH ACOUSTIC INSULATION INDEX

1 PROBLEM

For kitchens where open flame gas appliances, ovens or hobs are installed, Italian safety standards (UNI CIG 7129/92) impose the creation of ventilation openings in the external walls of buildings to guarantee the inflow of air required for combustion.

Holes in perimeter walls must have a net cross section of 6 cm² for every KW of installed thermal power, with a minimum surface area of 100 cm².

Seeing as these openings let air through, they represent points of transmission of external noise into the home and therefore deteriorate the soundproofing performance of the external walls of our buildings.

2 SOLUTION

In order to limit the exposure of human beings to noise, the outline law concerning acoustic pollution (447/95) and subsequent amendment DPCM 5/12/97 on the passive acoustic requirements of buildings, establish the observance of a minimum level of insulation for the perimeter walls of buildings (the requirement depends on the category of use of the building itself).

To obtain the correct level of comfort for those living in the buildings and to comply

with these legislative requirements, a silenced air in-take shall be installed in the perimeter walls by the kitchen that limits the transmission of noise but still guarantees a free surface area of 100 cm^2 . FONOPROTEX is the soundproof silencer for ventilation holes that meets the insulation indexes of external walls $(D_{2m,nT,w})$ requested by current standards. The silenced air in-take FONOPROTEX is made of plastic and, thanks to its compactness and regular shape, is easy and very straightforward to install on site.

FONOPROTEX is lined internally with expanded polyurethane (open cells on polyester base) and is considerably flexible, fireproof (UL94), waterproof and harmless (it does not let-off fibres or dust).

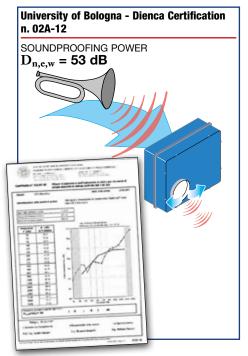
The excellent insulating properties of **FONOPROTEX** are certified by the University of Bologna (Dienca), where testing pursuant to UNI EN ISO 7171-1 and ISO 140-10 resulted in an insulation index of $D_{n,e,w} = 53 \ dB$.

FONOPROTEX is the smallest silencer with the highest acoustic insulation index to be certified!

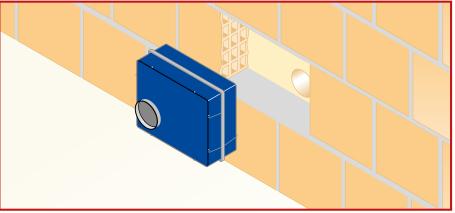
FONOPROTEX can be installed either vertically or horizontally, depending on the requirements of the site.

Thanks to its compactness, the silenced air in-take FONOPROTEX, strongly limits

thermal dispersions of perimeter walls (the particularly contained depth of just 15 cm means that it is easy and quick to lay, leaving plenty of space towards the outer part for thermal protection, in solutions either of single and double external walls).



METHOD OF USE AND PRECAUTIONS



The hole inlets of **FONOPROTEX** on both sides are male and have outside diameter of 120 mm to be fitted in a Ø 120 mm hole or inside the Ø 125 mm pipe.

In all installations and even in kitchens with open flame gas appliances, **FONOPROTEX** FONOPROTEX can be fitted either with the holes arranged horizontally or vertically, because ventilation just has the function of feeding sufficient air for combustion and also to change the air.







	FONOPROTEX
Dimensions • height • length • depth • dimensions of aeration hole	32 cm 32 cm 15 cm ø 12 cm
Air opening	100 cm ²
Certification	Dienca Laboratory, University of Bologna

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