

Description and application:

Ceiling diffusers are designed for gravity ventilation, low and medium pressure ventilation and air conditioning systems. They provide high comfort and horizontal air flow is characterized by high air induction, through which the followed by rapid decrease of air flow speed and temperature equalization.

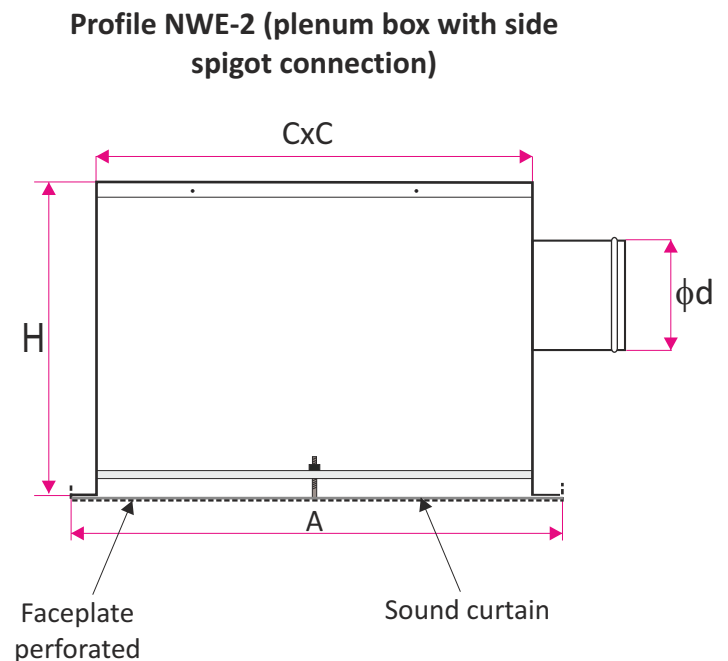
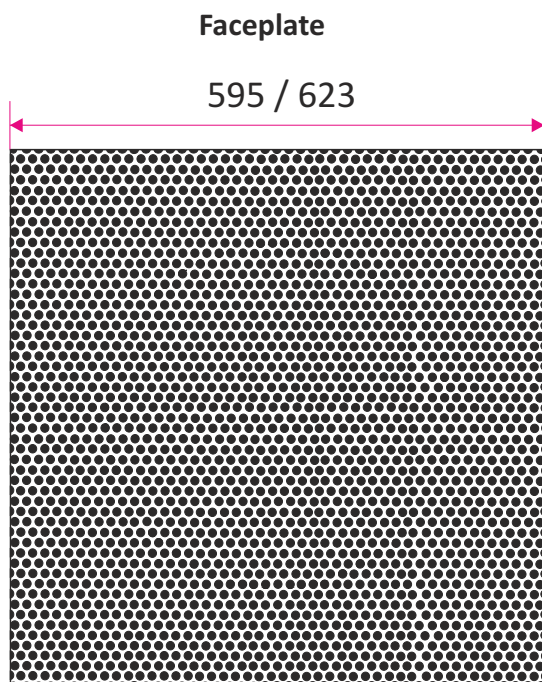
Diffusers have Hygienic Certificate HK/K/0522/01/2016

Material and workmanship:

Diffusers have a perforated plate made of galvanized steel powder-coated standard in RAL colour 9010, adapted to the system suspended ceiling and veil soundproof inside.

Size:

The diffusers are manufactured on order. Diffuser dimension given by the customer.

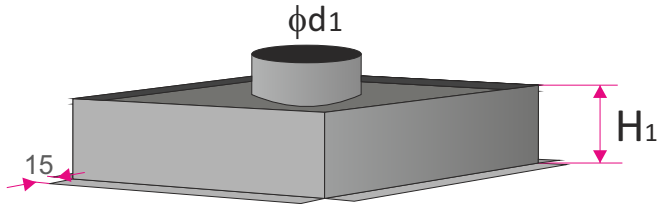


Accessories- plenum box

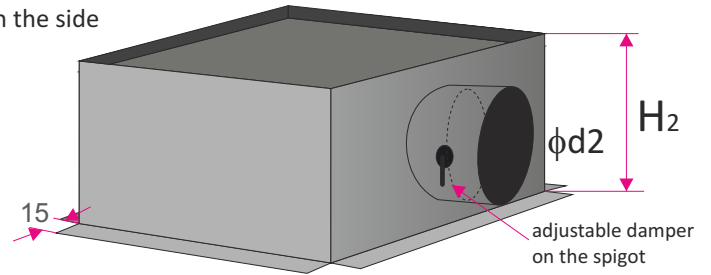
Plenum box is made of galvanized steel. On request it can be equipped with a damper control onto the connected spigot. The plenum box is isolated inside with rubber (acoustic) or outside with mineral wool (thermal). In the standard height of the plenum box is adapted to size of the spigot or diffuser size (you can specify the height of the plenum box).

Accessories- plenum box

Rectangular plenum box with the spigot on the top



Rectangular plenum box with the spigot on the side



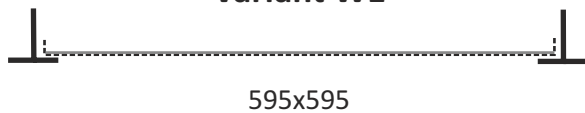
Size	A	Q	CxC	$\phi d1$	$\phi d2$	H1	H2
250	248x248	595	215	123	158	28	258
300	298x298	595	265	158	158	34	258
400	398x398	595	365	198	198	44	303
500	498x498	595	465	248	248	55	353
600	595x595	595	565	313	313	64	418

*Q- installation on the thresholds of T-bar profiles
Other sizes are produced on customer request

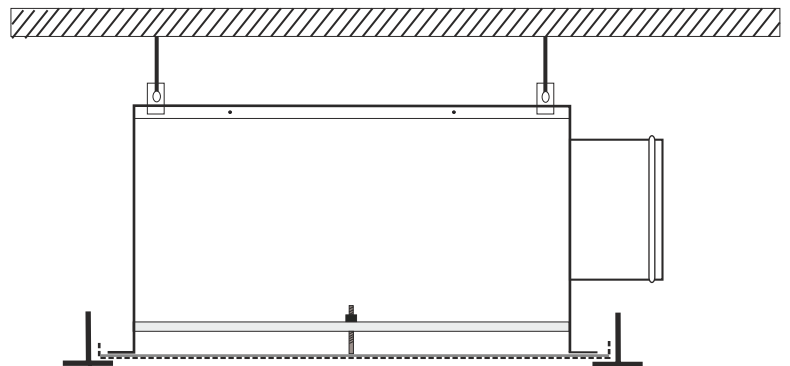
Methods of mounting

Diffusers normally used for place them on T-bar (W1). Diffusers with plenum box are connected through the crossbar and central mounting screw (W2). In the case of suspended ceilings with hidden T-bars, perforated plate is equipped with hooks for attaching the faceplate (W3).

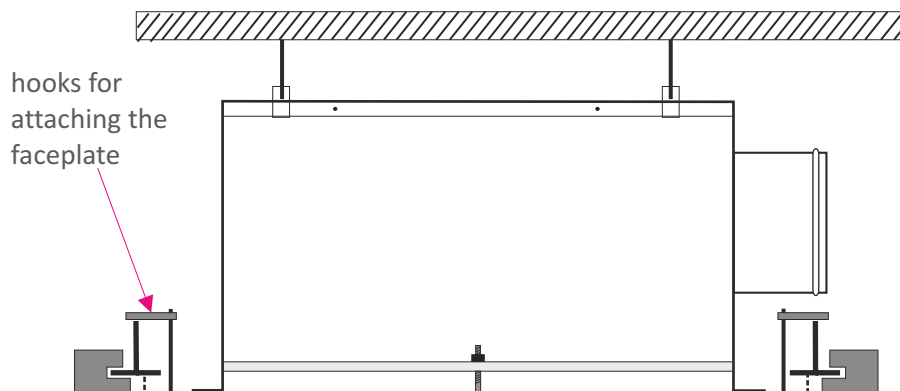
Variant W1



Variant W2

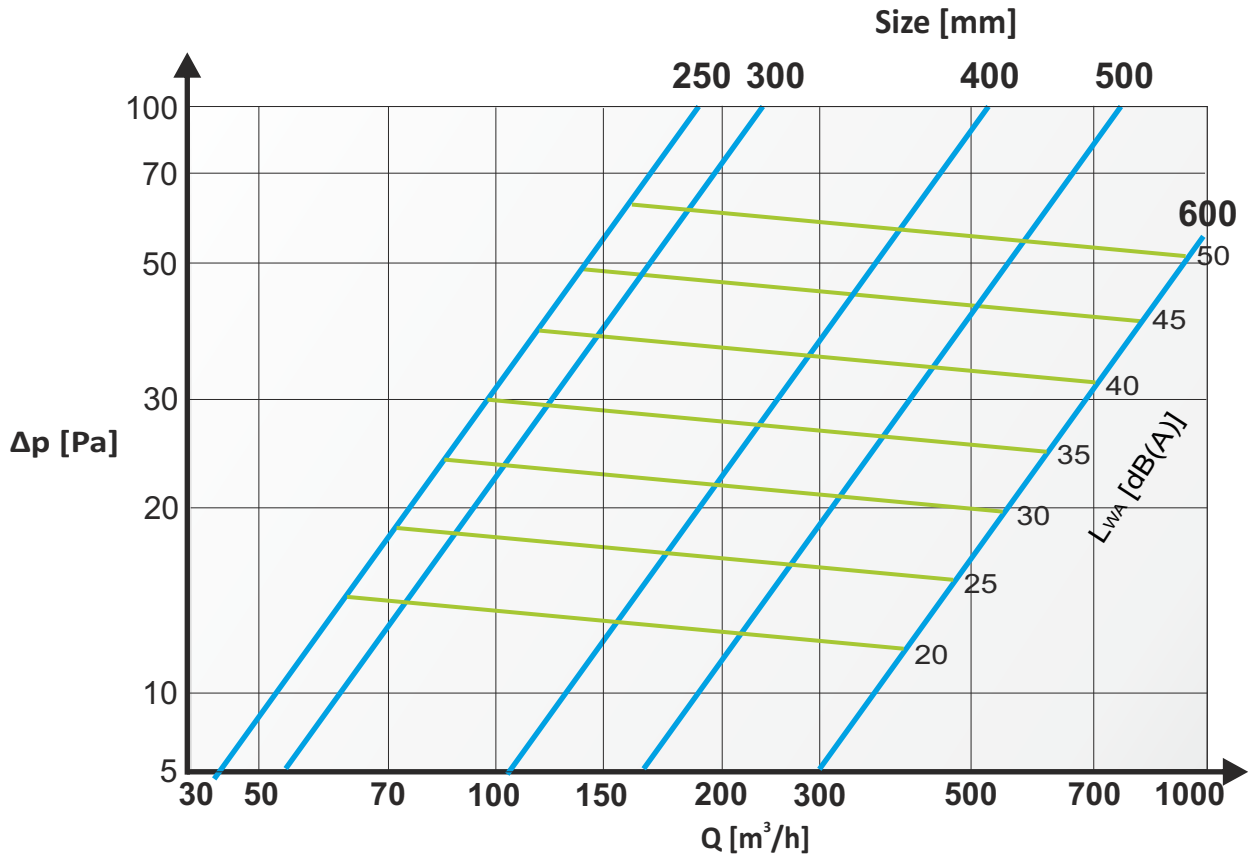


Variant W3



Technical data:

Pressure drop (Δp) and acoustic power (L_{WA}) depending on the air volume flow (Q) and the type of diffuser.

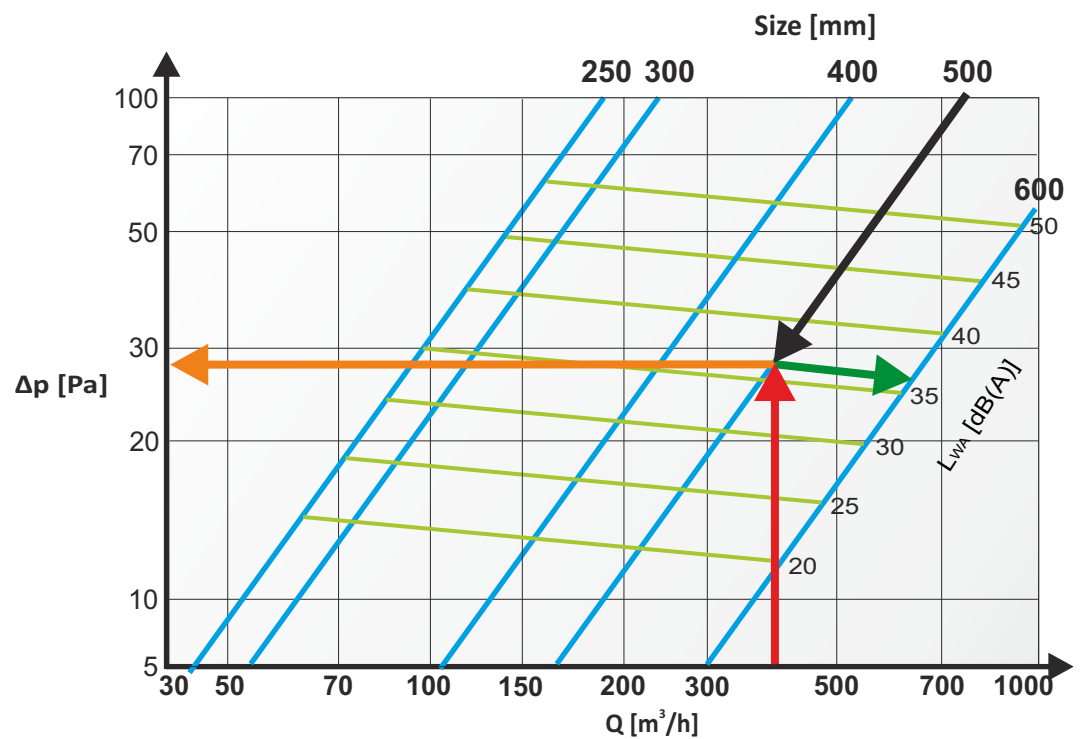


EXAMPLE

- air volume flow $Q=400$ m³/h
- size of the diffuser 500 mm

Reading from the graph:

- pressure drop $\Delta p=28$ Pa
- acoustic power $L_{WA}=36$ dB



The method of placing an order

Please make orders according to the following formula:

NWE-2 / 'A' / 'R' / 'RAL' / 'M' / 'W' + 'SR' / 'I' / 'P' / 'K' / 'H'

'A'	the size of the perforated plate 595x595, 623x623...
'R'	the size of the element: 250, 300, 400, 500, 600
'RAL'	color of the perforated plate according to RAL palette (standard RAL9010*)
'M'	material: ST - powder coated steel*
'W'	mounting option: W1 - invisible assembly on the T-bar profiles W2 - invisible assembly on the construction of a suspended ceiling using crossbar (in plenum box) W3 - invisible assembly in the construction of a suspended ceiling with additional hooks to point to the faceplate
'SR'	plenum box: SR-Bc - plenum box with side spigot connection SR-Gc - plenum box with top spigot connection
'I'	isolation: none - plenum box without isolation * Iw - inside isolation (acoustic) Iz - outside isolation (thermal)
'P'	adjustment damper at spigot connection: none - plenum box without damper* P - damper on spigot connection adjustable from the outside PP - damper on spigot connection adjustable from the inside
'K'	diameter spigot connection in size mm
'H'	the height of the plenum box *

* - If you don't give the information will be used standard parameters.