

Floor slot diffusers



NSP



NSP Diffuser ▲
5-slot

NSP are designed for using in the floor ventilation systems with stable or variable air flow. They are recommended for using in the rooms with large glass spaces and the increased level of the relative air humidity, particularly for swimming pool halls.

NSP function, apart from air distribution, is to generate the air curtain preventing the room chilling as well as water steam condensation on the window panel surfaces

Floor slot diffusers NSP



Execution

NSP may be equipped with 1 to 6 slots in the spacing of: 8, 10, 12 or 15 mm. The slots have stationary wheels enabling to obtain the vertical air supply. The NSP wheels are made out of anodised aluminum with natural colour and the plenum made out of the aluminum sheet. On order, it is possible to produce the diffusers out of the stainless steel. The diffusers that are longer than 2500 mm are made out of the smaller modules to be integrated individually in the building site. It is possible to produce the diffuser with non-standard length L.

Design recommendations

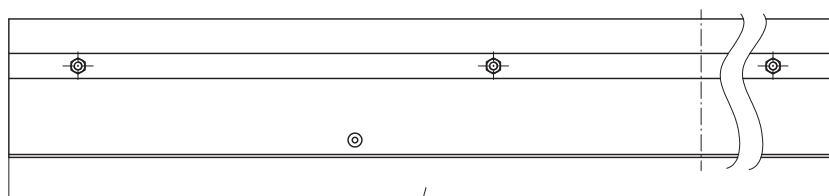
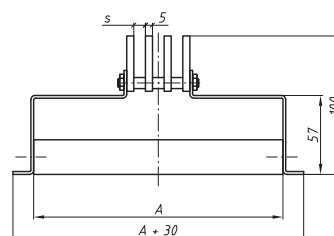
The diffusers are designed to be installed in the floors or window sills in the distance up to ca. 0,2 m from the window. The recommended effective speed of air supply amounts 4 m/s. On that account, it is advisable to place the diffusers in such locations in the room where the steady or frequent stay of people is not expected. In the swimming pool halls in view of the fact that people go there barefoot, it is advisable to use the diffusers with slots not exceeding 8 mm.

Dimensions

The NSP standard dimensions are given below. On order, it is possible to produce the diffuser with non-standard dimensions.

Number of slots	Width A in function of slot spacing and number of slots				
	Length of diffuser L [mm]	Spacing of slots			
		8	10	12	15
		A [mm]			
1	500, 1000, 1500, 2000, 2500	130	132	134	137
2	500, 1000, 1500, 2000, 2500	150	154	158	164
3	500, 1000, 1500, 2000, 2500	180	186	192	201
4	500, 1000, 1500, 2000, 2500	220	228	236	248
5	500, 1000, 1500, 2000, 2500	270	280	290	305
6	500, 1000, 1500, 2000, 2500	330	342	354	372

For aluminum diffusers maximum dimension L = 2500 mm.
 For stainless steel diffusers maximum dimension L = 1980mm.
 Other dimensions are possible on special request, after consulting with the sales department.



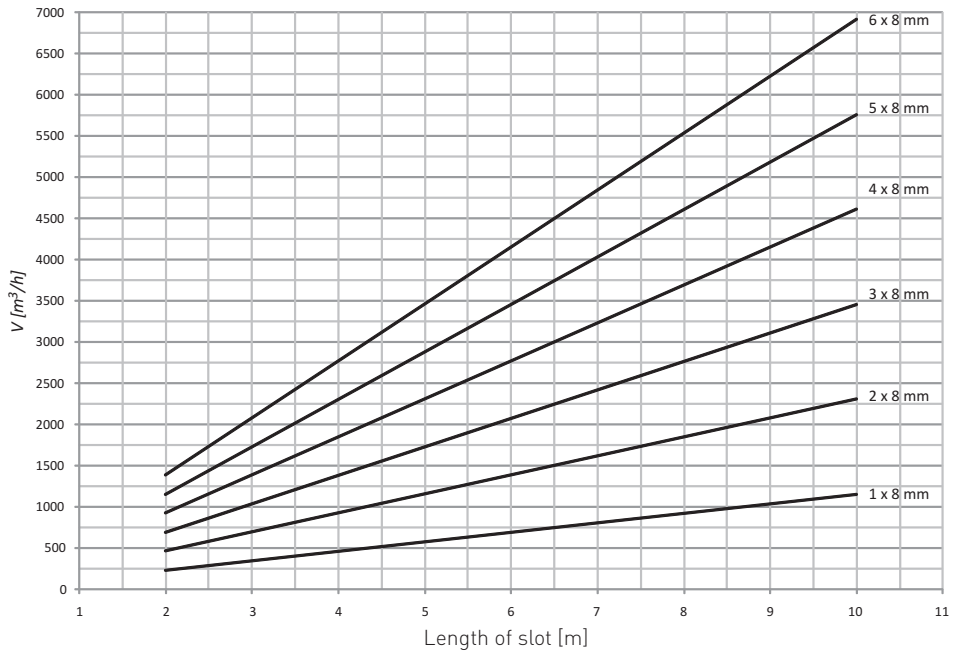
Installation

The diffuser is installed by embedding it in the prepared mounting hole being the ventilation duct. The diffuser may be fastened by spilling it with the masonry mortar or concrete.

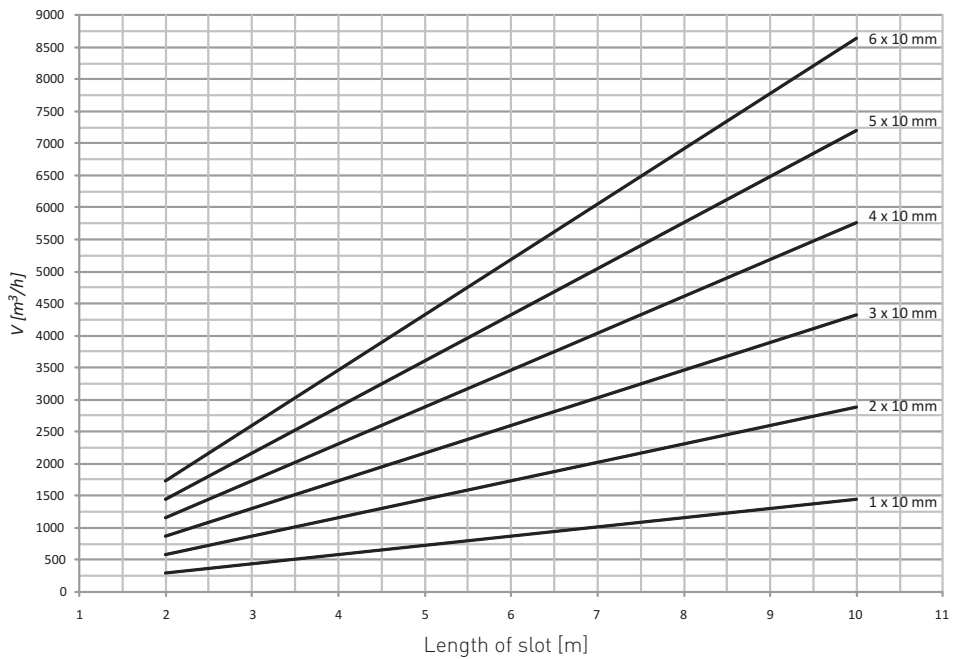
Selection NSP



NSP with slot spacing of 8 mm



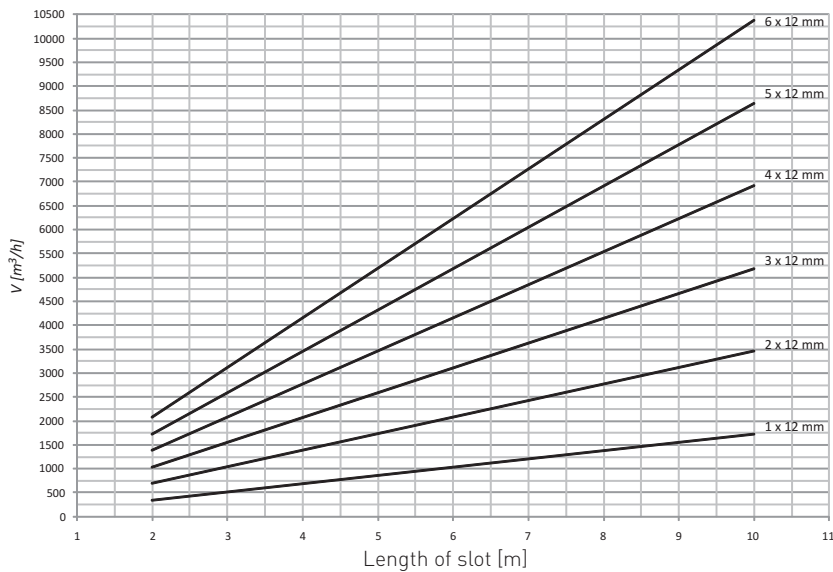
NSP with slot spacing of 10 mm



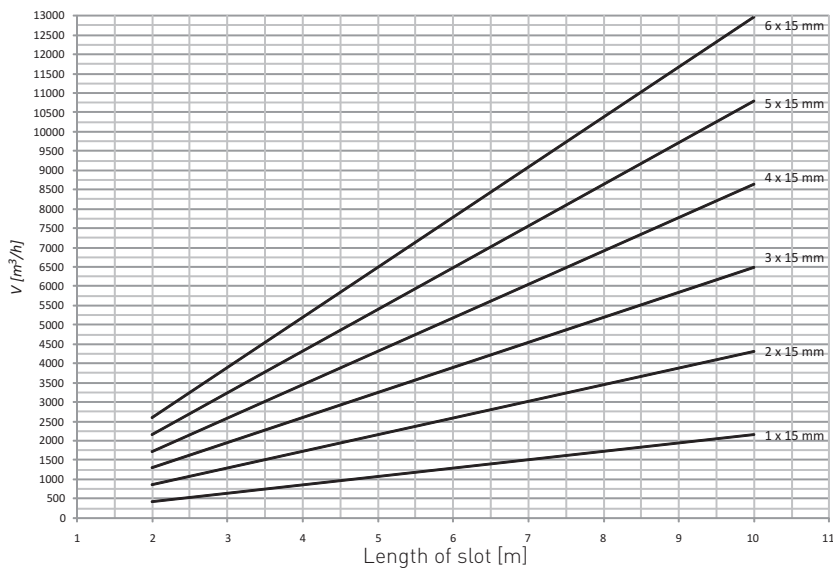
Selection NSP



NSP with slot spacing of 12 mm



NSP with slot spacing of 15 mm



Accessories and how to order NSP

While making the order, it is necessary to provide the information according to the below-mentioned method:

NSP - <S> - <K> - <L> - <P>

Example of the order:

NSP - 8 - 4 - 1500 - SN

Where:

- <S> - diffuser slot width in mm: 8, 10, 12, 15
- <K> - number of slots: 1, 2, 3, 4, 5, 6
- <L> - length of diffuser in mm: 500, 1000, 1500, 2000, 2500 or other
- <P> - finishing: *

none = anodised aluminum wheels, plenum made out of aluminum sheet

SN = wheels and plenum made out of stainless steel

* optional values, when they are not given, the default values shall apply