

Perforated extract air diffuser designed for square suspended ceiling systems



QUICK FACTS

- O Used in square ceiling system
- O Standard white RAL 9003/NCS S 0500-N
- Can be placed directly in the T15//T24 Lay in suspended ceiling system

AIR FLOW - SOUND PRESSURE ROOM (Lp10A) *)							
EXP	25 dB (A)		30 dB (A)		35 dB (A)		
Size (mm)	l/s	m³/h	l/s	m³/h	l/s	m³/h	
600-C	283	1019	323	1163	422	1519	
600-R2	568	2045	668	2405	784	2822	
600-R1	666	2398	793	2855	944	3400	

^{*)} L_{p10A} = Sound pressure incl. A-filter with 4 dB room attenuation and 10 m² room absorption area.



Technical description

Design

Square extract air diffuser for installation in suspended ceiling systems of the type visible T-bars, lay in.

Materials and surface treatment

- The extract air diffuser is made of galvanized sheet steel.
- Standard colour:
 - White semi-gloss, lustre 40, RAL 9003/NCS S 0500-N
- Alternative standard colours:
 - Silver gloss, lustre 80, RAL 9006
 - Grey aluminium gloss, lustre 80, RAL 9007
 - White semi-gloss, lustre 40, RAL 9010
 - Black semi-gloss, lustre 35, RAL 9005
 - Grey semi-gloss, lustre 30, RAL 7037
- Non-painted finish and other colours available on request.



Special versions of the diffuser are adapted to different types of ceilings. For further details contact your nearest sales office.



Adjust the air flow on the measuring damper placed in the duct system.

Maintenance

When necessary clean the extract air diffuser with lukewarm water and detergent. Alternatively, use a vacuum cleaner with a brush nozzle when cleaning. The ducting system/suspended ceiling is accessed by simply lifting the extract air diffuser from the suspended ceiling system.

Environment

The Building Materials Declaration is available from www. swegon.com.

Installation

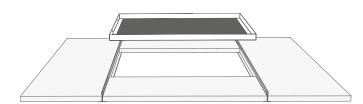
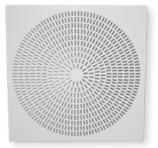


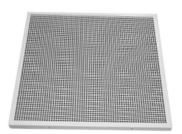
Figure 1. Installation.



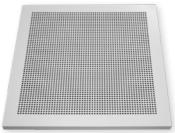
Figure 2. Installation.



C = Circular pattern, free area = 25%



R1 = Rectangular pattern, free area = 54%



R2 = Rectangular pattern, free area = 35%

Dimensions and weights

Description	Size	Weight (kg)	Free area (m²)	
EXP 600-C	593x593	1.98	25%	
EXP 600-R1	593x593	1.19	54%	
EXP 600-R2	593x593	1.44	35%	



Figure 3. Dimensions.



Sizing

- Sound pressure level dB(A) applies to rooms with 10 m² equivalent sound absorption area.
- Sound attenuation (Δ L) below is shown in the octave band. Orifice attenuation is included in the values.

Acoustic data

EXP – Extract air

Sound power level L_w(dB)

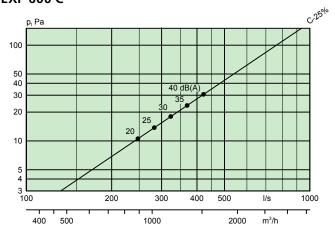
Table K_{OK}

EXP	Mid-frequency (octave band) Hz							
Size	63	125	250	500	1000	2000	4000	8000
600-C	-3	-4	6	3	-2	-7	-16	-25
600-R1	3	-1	5	3	-2	-9	-20	-29
600-R2	0	-3	2	1	0	-3	-12	-22
Tol. ±	2	2	2	2	2	2	2	2

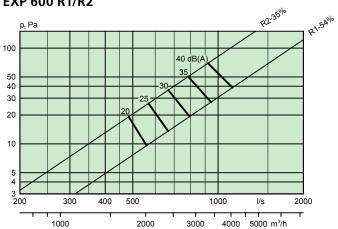
Sizing diagram

- The diagrams should not be used for commissioning.
- The dB(A) values apply to rooms with normal acoustic absorption, 4 dB room attenuation/10 m² equivalent room absorption area.
- The dB(C) value is normally 6-9 dB higher than the dB(A) value.

EXP 600 C



EXP 600 R1/R2



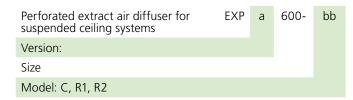


 L_{w} = Sound power level

 $K_{_{nk}}$ = Correction for producing the $L_{_{\! W}}$ value in the octave band

Specification

Product



Specification text

Swegon's square extract air diffuser EXP for installation in suspended ceiling systems.

- Powder-painted and baked white finish, RAL 9003/NCS S 0500-N.
- Diffuser without adjustment option.
- For installation in suspended ceiling systems with visible T-bars of the type lay in.

