

EXP

Perforated extract air diffuser designed for square suspended ceiling systems



QUICK FACTS

- Used in square ceiling system
- 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 Size (mm)	25 dB (A)		30 dB (A)		35 dB (A)	
	l/s	m ³ /h	l/s	m ³ /h	l/s	m ³ /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

*) Lp10A = 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.
- Finished in standard white, RAL 9003/NCS S 0500-N.
- The air diffuser is also available unpainted.

Alternative standard colours:

- Matt grey 7037
- White aluminium RAL 9006
- Beck black RAL 9005
- Grey aluminium RAL 9007
- White RAL 9010

Other colours available on request.

Adaptation

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

Commissioning

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

Maintenance

When necessary clean the extract air diffuser with luke-warm 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

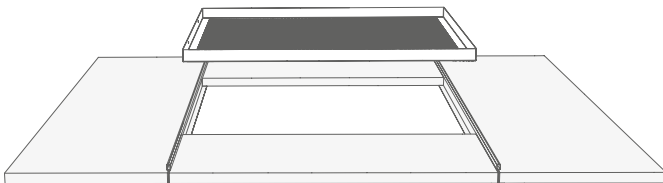
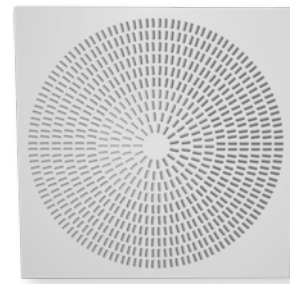


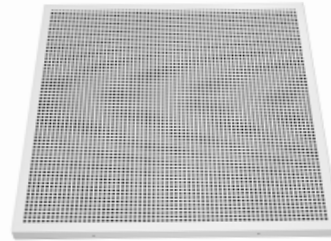
Figure 1. Installation.



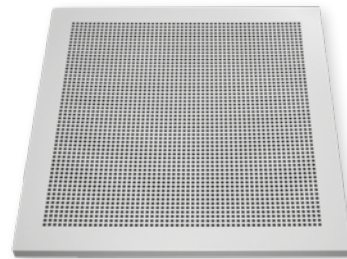
Figure 2. Installation.



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 (m ²)
EXP 600-C	593x593	1.98	25%
EXP 600-R1	593x593	1.19	54%
EXP 600-R2	593x593	1.44	35%

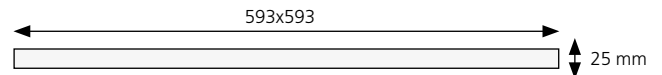


Figure 3. Dimensions.

Sizing

- The sound level, dB(A), applies to rooms with an equivalent sound absorption area of 10 m².

Acoustic data

EXP – Extract air

Sound power level L_w (dB)

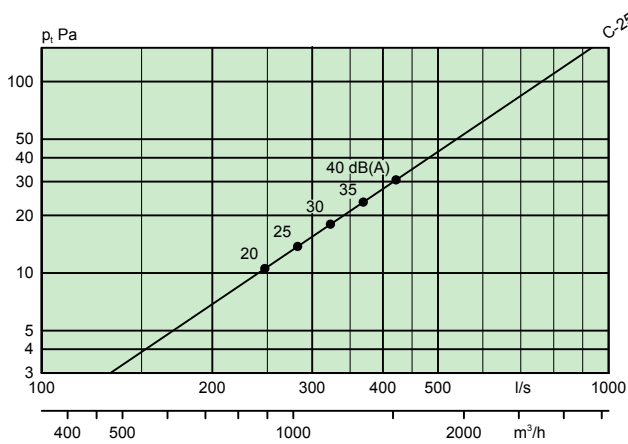
Table K_{OK}

EXP Size	Mid-frequency (octave band) Hz							
	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

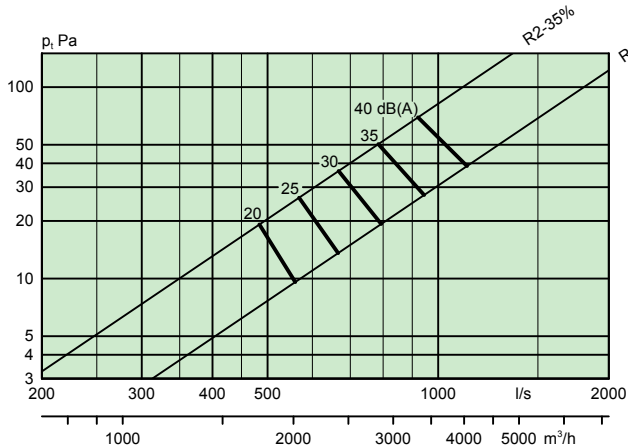
Sizing diagram

- 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



Specification

Product

Perforated extract air diffuser for suspended ceiling systems EXP a 600- bb

Version:

Size

Model: C, R1, R2

Specification text

Example of a specification text according to VVS AMA.

QME Extract air diffuser

Perforated diffuser without duct connection

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.