

Introduction

The Waterloo DSR series have been developed for use in partitions and doors where a reduction in noise transfer or "cross-talk" from one space to another is required, whilst maintaining ventilation air transfer.

DSR Grilles are manufactured from high quality aluminium extrusions with channel section cores forming a labyrinth airway lined internally with acoustic damping media. The cores are retained within a flanged frame which is fitted with a sealing gasket. Units are supplied with fixed border and matching adjustable rear border frame.

DSR units will only provide acoustic isolation improvements over that of a clear aperture. DSR units may be used in series to increase transmission loss.

Product Description

DSR-40 Acoustic transfer grille with for a 40 mm thick wall, with a contra frame.

DSR-55 Acoustic transfer grille with for a 55 mm thick wall, without a contra frame.

DSR-110 Acoustic transfer grille with for a 110 mm thick wall.

Features

- Suitable for partition, wall or door mounting
- Easy to install
- Fits most standard doors and partitions
- Easy to clean
- Modular sizes

Finishes

PPM9006 (RAL 9006 Matt Silver)

PPM9010 (RAL 9010 20% Gloss White)

PPG9010 (RAL 9010 Gloss White)

Other colours or anodised available on request

Weights

DSR-40 15.0 kg/m² face area

DSR-55 14.5 kg/m² face area

DSR-110 25.5 kg/m² face area

Sizes

Width 300 minimum to 1000 maximum

Height 125 minimum to 1005 maximum in 80mm increments.

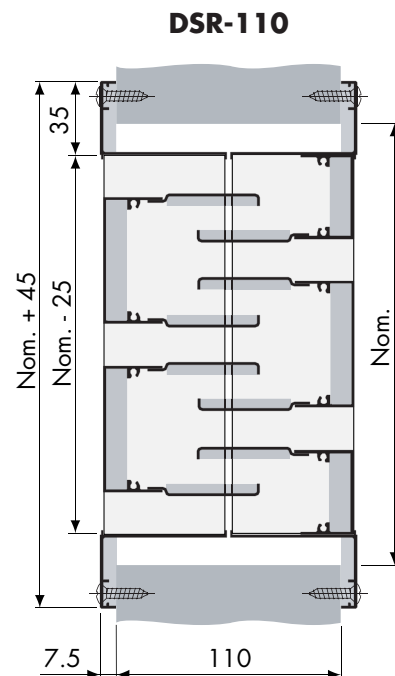
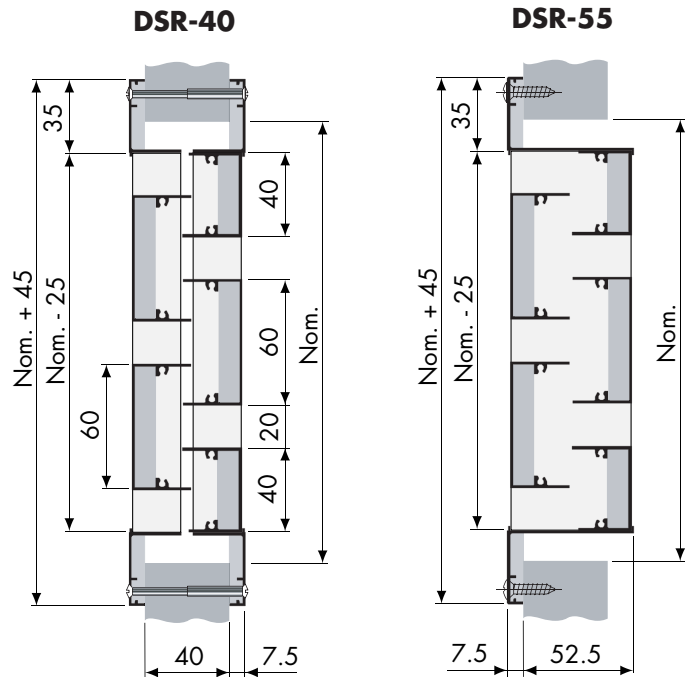
Fixings

For details of fixings please refer to page 41

DSR-40 PSF

DSR-55 SF

DSR-110 SF



Order Example

DSR-40/425x285/PPM9010/PSF

Type

Nominal Width

Nominal Height

Finish

Fixing

Free Area

23%



Spectrum Correction (Add to LwNR)

Frequency (Hz)					
125	250	500	1K	2K	4K
+1	+4	+3	0	-10	-16

Selection Example

Select a DSR grille to handle 70 l/s when mounted within a 100mm partition and a maximum permitted pressure loss of 20 Pa.

From Nomogram Select Size 425 x 365

Pressure loss = 16Pa (DSR)

LwNR 26 ∴ Sound Power Spectrum is

Freq (Hz)	125	250	500	1K	2K	4K
SWL (dB)	27	30	29	26	16	10

Performance Nomogram

