

Introduction

The Waterloo WGA louvres are sound attenuation louvres made from galvanised steel or aluminium plate, and are designed for applications where ventilation is important but "cross-talk" is undesirable.

There are two types of louvre that come with an additional back louvre for increased sound attenuation properties.

Product Description

WGA-150 Acoustic louvre with 150 mm thick acoustic lining

WGA-175 Acoustic louvre with 175 mm thick acoustic lining

WSR-150 Additional acoustic foam louvre for WGA-150

WSR-175 Additional acoustic foam louvre for WGA-175

Features

- Good acoustic and air supply characteristics.

Finish

PPM9006 (RAL 9006 Matt Silver)

PPM9010 (RAL 9010 20% Gloss White)

PPG9010 (RAL 9010 Gloss White)

Other colours available on request

Weights

WGA-150 20.0 kg/m² panel

WGA-175 18.0 kg/m² panel

Sizes

Nom. W 500 - 1200 mm

Nom. H see table

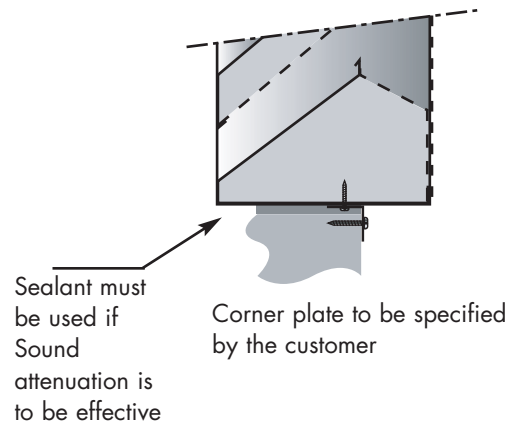
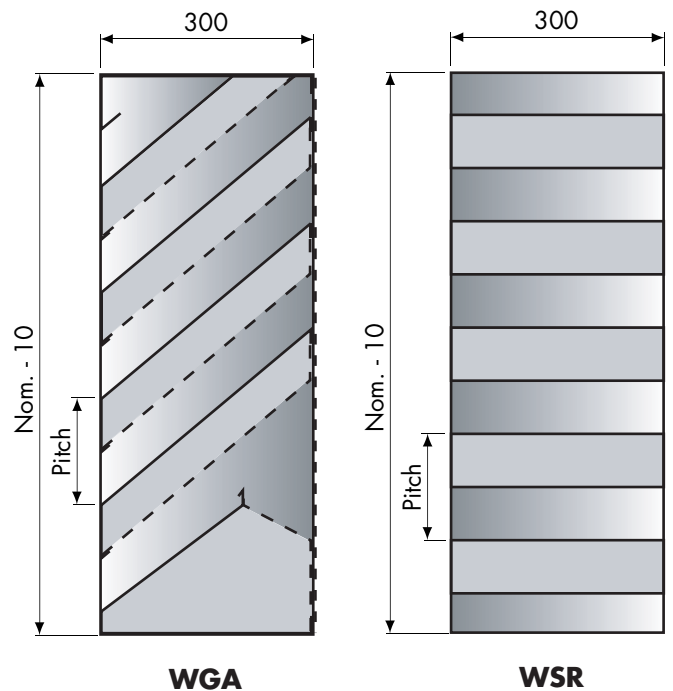
Fixing

NF No fixing as standard

EP Non-standard customer specified edge plate for installation in ductwork.

Selection

Please contact head office to select an order



Free Area	
WGA-150	WGA-175
25 - 40%	30 - 45%

Order Example

WGA-150/800x650/PPM9006

Louvre Type _____
 Blade Pitch _____
 Nominal Width _____
 Nominal Height _____
 Finish _____

Nom. H WGA-150	Nom. H WGA-175	No. Blades
500	550	1
650	725	2
800	900	3
950	1075	4
1100	1250	5
1250	1425	6
1400	1600	7
1550	1775	8
1700	1950	9
1850	2125	10

Sound Attenuation Properties

Gives the effect of the louvre on external noise, i.e the reduction of "cross-talk".

WGA WSR	WGA Acoustic Louvre							WGA + WSR						
	125	250	500	1 K	2 K	4K	8K	125	250	500	1 K	2 K	4K	8K
WGA-150	6	7	10	17	19	17	16	6	8	14	24	29	28	26
WGA-175	5	6	9	14	15	14	13	5	7	12	18	22	22	21

Sound Level

This is noise made BY THE AIR passing through the louvre (values are taken with an air velocity of 1 m/s)

Frequency (Hz)	125	250	500	1 K	2 K	4K
WGA-150	27	28	28	21	11	-
WGA-175	28	26	24	15	6	-

Corrections

These figures need to be corrected based on the nominal air velocity and the face area of the louvre.

Nominal Velocity - Sound Level Correction							
Velocity (m/s)	0.5	1.0	1.2	1.4	1.6	2.0	2.5
Correction (dB)	-18	0	+5	+9	+12	+18	+24

Face Area = Nominal Width x Nominal Height

Face Area - Sound Level Correction						
Face Area (m²)	0.25	0.5	1.0	1.5	2.0	3.0
Correction (dB)	-3	0	+3	+5	+6	+8