

SERIES 61

Smoke Control Damper

CE

PUBLICATION

DAMPERS 9

OCTOBER 2025



Features

- E @ S [Integrity and smoke rated] for 120 minutes
E 120 (Vew i→o) S1000 C10000 AA Multi
- 1.5 mm Galvanised steel construction
- Motor open motor closed operation
- Low leakage rate
- High Free area design
- Optional Decorative Fascia grilles
- CE marked with classification EN13501-4



GILBERTS

SERIES 61

Smoke Control Damper



Introduction

The Series 61 smoke control damper has been designed to satisfy smoke ventilation applications and is particularly suited for smoke evacuation shafts and risers in multi storey buildings.

A multi, parallel linked blade smoke damper the Series 61 is manufactured from robust 1.5 mm galvanised steel. Usefully the damper combines both a low leakage rate when closed, with a high free area when open, to support high smoke evacuation rates.

All Series 61 dampers are fitted with 2 Belimo actuators to offer a powered motor open/close actuation.

Series 61 has been designed to provide both a practical and aesthetic solution. It is available in 800x1500 to 800x1920 sizes. Sizes based on the structural opening (aperture) dimensions.

Effectively this means the largest size damper can provide up to 1.0 m² of free area [Geometric].

As part of the EN12101-8 and EN1366-10 standard the damper has undergone an EN1366 Pt 2 test and lasted over 120 minutes for fire integrity and smoke rating. The damper has also been tested with a cover grille in the maintenance of opening test. Reports are freely available on request. Test documents 21/32306461 and 21/32306462.

Dampers can be masked with a fixed blade type cover grille with concealed fixing and blades angled at 40°, for virtual full damper masking, or 15° for a partial masking effect.

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Damper Closed



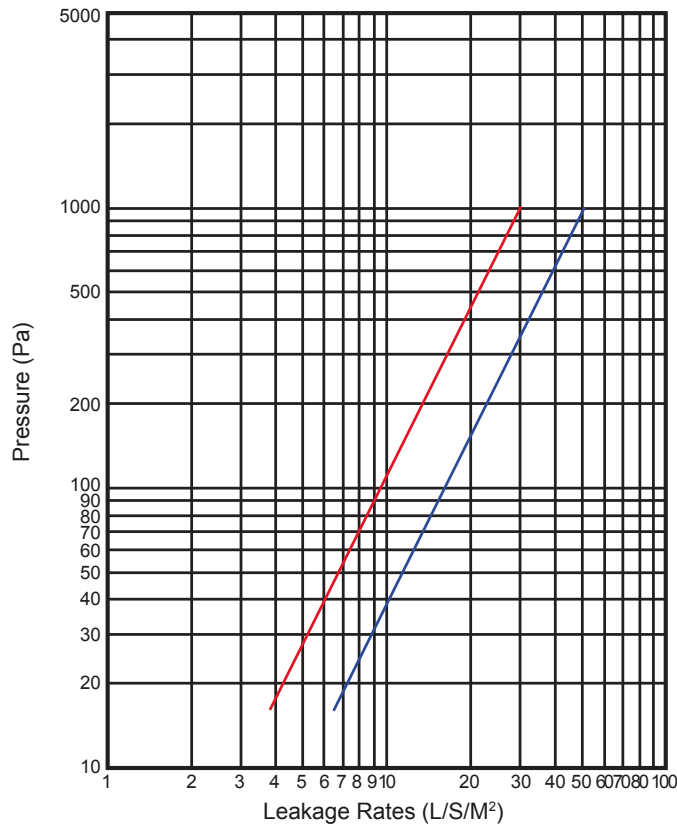
Damper Open

Pressure Graphs

Pressure Drop / Leakage Graph

Red line denotes 800x1920mm unit closed

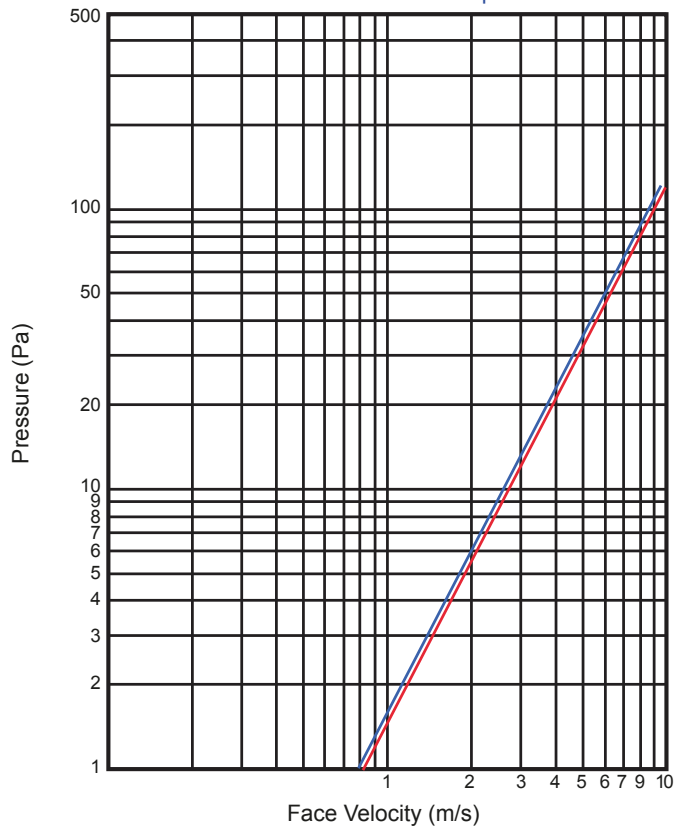
Blue line denotes 800x1500mm unit closed



Pressure Drop / Volume Graph

Red line denotes 800x1920mm unit open

Blue line denotes 800x1500mm unit open

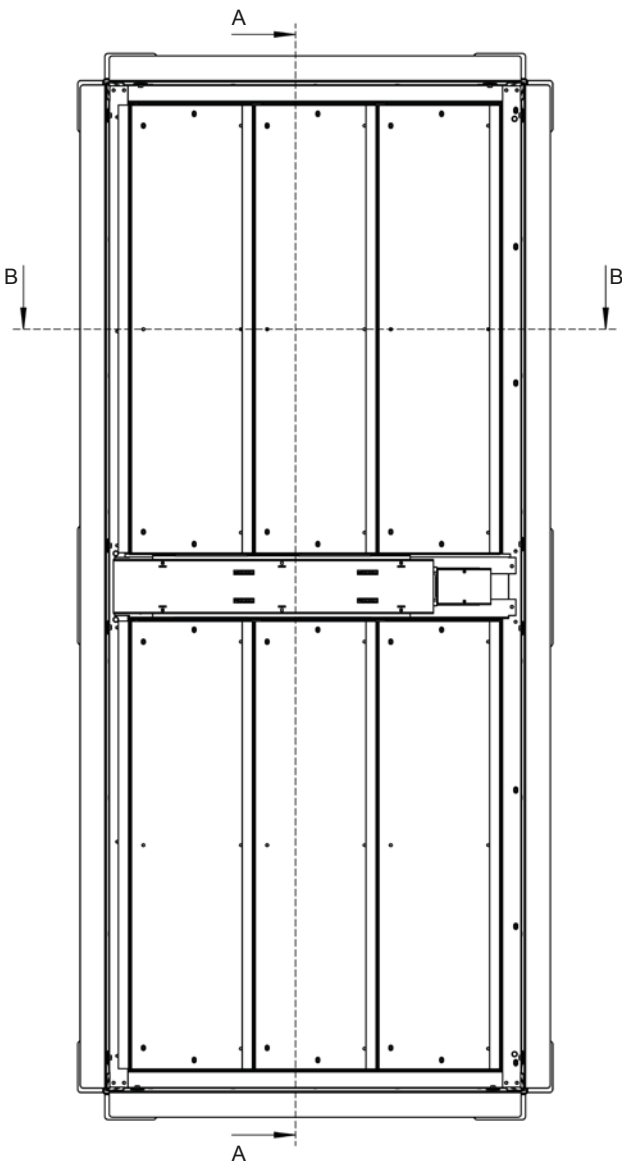


SERIES 61

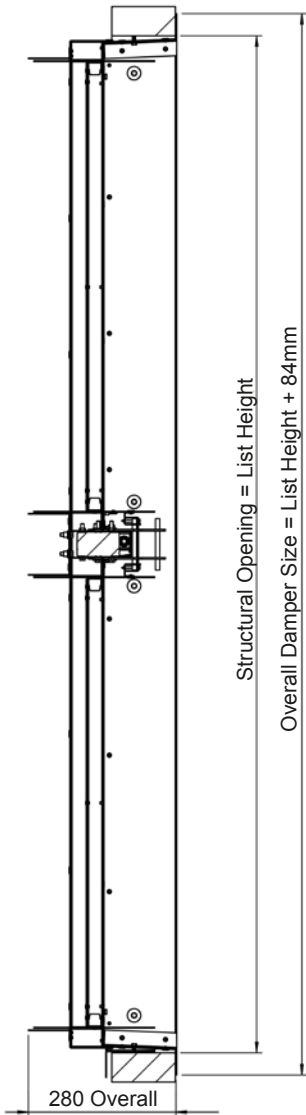
Smoke Control Damper



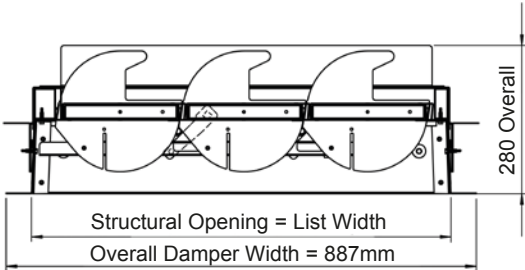
Dimensional Data



Front View



Section A-A



Section B-B

Free Area

Damper size (mm)	Weight (kg)	Geometric Free Area (m ²)	Aerodynamic Free Area (m ²)	Aerodynamic Free Area (m ²) inc KSO/KS15 grille	Aerodynamic Free Area (m ²) inc KS40 grille
800 x 1920	87kg	1.0 m ²	1.0 m ²	0.84m ²	0.66 m ²
800 x 1500	72kg	0.75 m ²	0.79 m ²	0.66 m ²	0.52 m ²

Legend

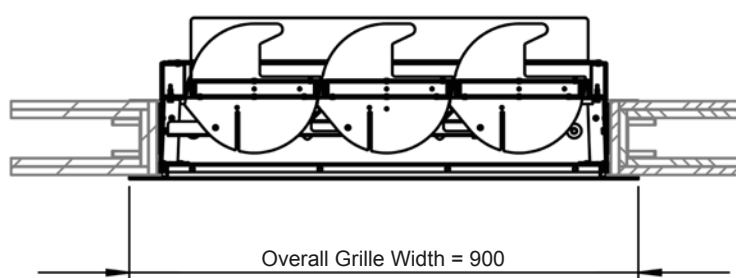
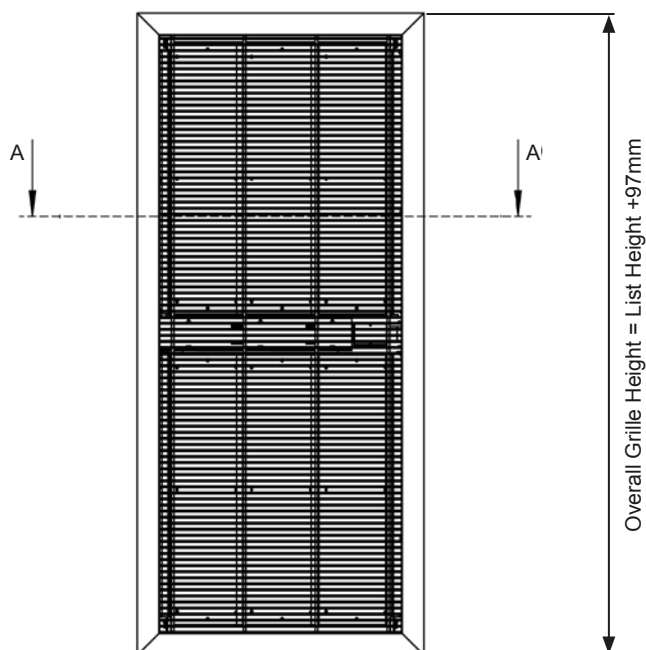
Geometric Free Area Actual physical open area of the damper only
Aerodynamic Free Area CD value of Damper x Damper Area (List Size)
Aerodynamic Free Area CD value of damper with Grille x Damper Area (List Size)

Please ensure that the free areas meet with any required standards or guidance

Fascia Cover Grilles



Typical Fascia Grille



Section A-A

DECLARATION OF PERFORMANCE

GILBERTS SERIES 61 RANGE

1. Unique identification code of the product-type:

SERIES 61 Smoke control damper. To be used in conjunction with walls/partitions to maintain fire compartments in smoke evacuation installations in multi compartment applications.

2. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):

Gilberts (Blackpool) Ltd, Clifton Road, Blackpool, FY4 4QT

3. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

System 1

4. In case of the declaration of performance concerning a construction, product covered by a harmonized standard:

CE Certification via Applus with Certificate of Constancy of Performance CPR No 0370-CPR-6477 (CE) performed the determination of the product type on the basis of type testing (including sampling), type calculation, tabulated values or descriptive documentation of the product, the initial inspection of the manufacturing plant and of factory production control and continuous surveillance, assessment and evaluation of factory production control under system 1 and issued the certificate of constancy of performance of the factory production control CPR No 0370-CPR-6477 (CE)

5. Declared performance according to:

EN12101-8: 2011, Classification to EN13501-4: 2016 - FILE No 21/32306461-1

Fire resistance according to EN 1366-10 and Classification according to EN 13501-4

Range	Type	Supporting Construction	Document Ref's	Classification
800 x 1500 to 800 x 1920	SERIES 61	Dry Wall*	21/323064 61 21/323064 62	E 120 (Vew i → o) S1000 C10000 AA multi
Nominal activation conditions/sensitivity; - - sensing element load bearing capacity - sensing element response time				Pass Pass
Response delay (response time) - closure time				Pass
Operational reliability - cycling				Pass
Durability of response delay - sensing element response temperature and load bearing capacity Pass				Pass
Durability of operational reliability according to EN 15650: -open and closing cycle				10000 cycles Pass

Note: NPD (No Performance Declared) for insulation

Signed for and on behalf of Gilberts (Blackpool) Ltd

**Roy Jones -Technical Director
February 2022**



** Product was tested in a drywall but, as confirmed within the classification report 'may be applied to builders work (created on site), concrete or aerated concrete walls, provided that the smoke control damper has been tested in a wall constructed from materials of lower density and thickness (e.g boards or sheet steel), provided that the concrete/aerated concrete construction has a thickness that complies with the supporting construction information shown in EN1363-1 and EN1363-2 for the time period of classification required*

SERIES 61

Smoke Control Damper



Ordering Specification

Damper

SERIES 61 Smoke Control Damper	Series 61	800 x 1920	MATT BLACK	CB	10
SIZE 800 x 1500 up to 800 x 1920 [in 1mm increments]					
DAMPER FACE FINISH Optional Matt Black					
CONCEALED FIX CB Grille Fix					
QUANTITY					

Fascia Grille

SERIES KR61 KR61	KR61	15	800 x 1920	9010 20% GLOSS	10
BLADE ANGLE 15 degrees 40 degrees					
SIZE 800 x 1500 up to 800 x 1920 [in 1mm increments]					
FINISH Please Specify					
QUANTITY					

Size Range

Standard list sizes of 800 x 1500 and 800 x 1920
Intermediate sizes on the height available in 1mm increments between 1500 and 1920mm

Fixing

Damper: Screw fixed Into structure. Please refer to our detailed fitting instructions

Fascia Grille: Concealed bracket fixing onto damper frame.

Finish

Damper: Mill finish (Galvanised Steel) Damper face can be optionally painted matt black

Fascia Grille: Polyester Powder coat White RAL 9010 20% Gloss. Special finishes available to stock BS or RAL colour

Certification: Series 61 is a CE marked product.

GILBERTS

Head Office and Works

GILBERTS (BLACKPOOL) LTD

Gilair Works, Clifton Road, Blackpool, Lancashire FY4 4QT.

Telephone: **(01253) 766911**

e-mail: **sales@gilbertsblackpool.com**

Web: **www.gilbertsblackpool.com**

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