

TECHNICAL SUBMITTAL SHEET

Submittal Ref No: M009

Project No: Olwen House, 8-20 Loman Street London

Project Reference: C10422

Date: 09/11/2018

[illegible]

Status A: Accepted

Status B: Accepted subject to comments/Amendments

Status C: Rejected/Resubmit

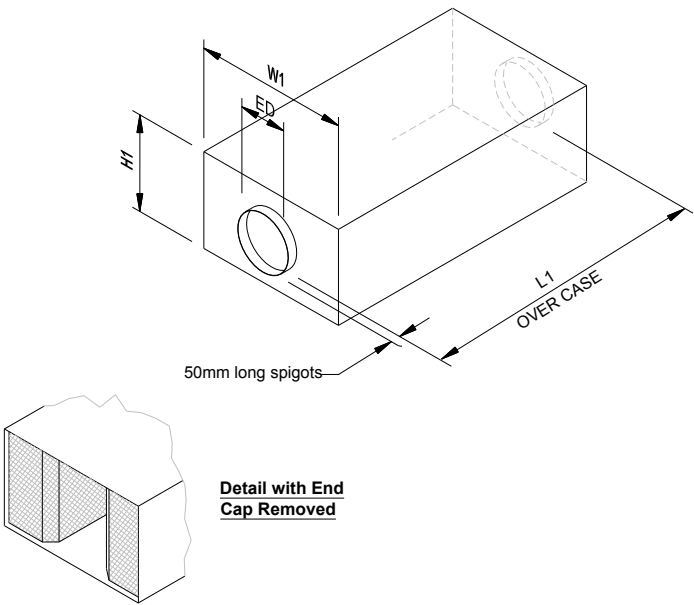
LG - Lining Attenuators

With Circular Spigot End Caps

Rectangular duct attenuator, constructed from galvanised sheet steel, with lining type acoustic elements. Casing provided with end caps at both ends, with circular spigot connections suitable for slip jointing into adjoining ductwork. Elements are often provided out of airstreams to minimise pressure loss.

Options available:

- 50, 75, 100, 125, 150, 175 or 200 wide linings
- Vertical or horizontal lining orientation
- Melinex wrapped infill
- Internal and external paint finish



Available Widths and Heights:

End Connection Type	Element Orientation	Low Pressure Casings			
		W1 min	H1 min	W1 max	H1 max
Circular spigot end caps	Vertical	150	150	600	1200
	Horizontal	150	150	1200	600

Attenuators can be provided in 1mm increments within the width and height ranges shown above, although 25mm increments are standard. Maximum aspect ratio should not exceed 6:1.

Spigot connection ED is made to suit the adjoining duct, with a minimum size of 100mm diameter. ED must be smaller than W1 and H1, as shown above.

Available Lengths:

End Connection Type	L1
Circular spigot end caps	470, 620, 770, 920, 1070, 1220, 1370

Attenuator Schedule

Notes

1. All attenuators shall be supplied by Caice or equal and approved.
2. The Contractor shall order the attenuators scheduled below, and shall send finalised drawings and equipment noise levels to the attenuator supplier to check the selections prior to manufacture.
3. The attenuator supplier shall then undertake acoustic calculations to ensure that the attenuators achieve the specified noise criteria, based upon the finalised information.
4. A Technical Submittal comprising acoustic calculations and a finalised schedule of attenuators shall then be issued to the Consultant for final approval.
5. If an alternative attenuator supplier is proposed then the Contractor shall allow for them to undertake witnessed tests to prove their claimed insertion loss performance in a UKAS accredited BS EN ISO 7235: 2009 test facility, for two sample units. This shall be undertaken prior to order.
6. Pressure losses are stated in accordance with ISO 7235, which is based on laminar airflow conditions. The system designer shall make allowance for increased attenuator pressure losses where turbulent airflow conditions exist on the attenuator entry or exit.
7. Unless stated otherwise all attenuators shall be constructed as follows: Galvanised sheet steel casings with 30mm profile flanges that are fully compliant with DW/TM1 at a high pressure rating (+2000/-750Pa). Profile flanges shall be compatible with Doby, Mez & Metu flanging systems. Elements shall be installed in the vertical plane, with side elements provided as standard, and all elements shall have aerodynamic inlet and outlet fairings. Element facings shall be constructed from expanded galvanised steel mesh with fibre glass tissue bonded to the inner face. Mineral wool infill shall be overpacked to minimise voids due to settlement. Attenuator ends shall be protectively wrapped, and all attenuators shall be delivered to site on pallets and individually labelled.

Ref.	Description	Type and Model Code	Dimensions (mm)			Free Area	Vol (m³/s)	PL (Pa)	Qty	Noise Criteria	Features
			W	H	L						
ATT01	LGH100 SUPPLY Room side	Rectangular LG01V/1E/L/S	375	350	920	32.5%	0.21	15	2	NR38 at 1.5m	300mm diameter spigot end connections. Low pressure rating (+500/-500Pa).
ATT02	LGH100 EXTRACT Room side	Rectangular LG01V/1E/L/S	375	350	920	32.5%	0.21	15	2	NR38 at 1.5m	300mm diameter spigot end connections. Low pressure rating (+500/-500Pa).
ATT03	LGH100 FAI Room side	Rectangular LG01V/1E/L/S	375	350	920	32.5%	0.21	15	2	NR38 at 1.5m	300mm diameter spigot end connections. Low pressure rating (+500/-500Pa).
ATT04	LGH100 EXHAUST Room side	Rectangular LG01V/1E/L/S	375	350	920	32.5%	0.21	15	2	NR38 at 1.5m	300mm diameter spigot end connections. Low pressure rating (+500/-500Pa).