



DECLARATION OF PERFORMANCE



DOP-LDN-03 Lobby Damper – Natural Vent (LDN)

- Name address and identification number of notified product certification body:
BRE Global Assurance (Ireland) Ltd, DCU Alpha, Old Finglas Road Glasnevin, Dublin, D11 KXN4 Ireland. ID no: 2831
- EC certificate of conformity: certificate no. 2831-CPR-P0018.
- Name and address of manufacturer:
BSB Engineering Services Ltd,
Unit 56, Mill Way, Trinity Trade Centre, Sittingbourne, Kent, ME10, 2PD.
- Description and use of product:
Smoke Control Damper, designated Lobby Damper – Natural Vent (LDN) damper and LD Grille.
To be used in conjunction with walls/partitions to be used in smoke control systems in multi-compartment applications at fire temperatures, or in single compartment applications at temperatures up to 600°C.
- Provisions to which the product complies: Annex ZA of EN12101-8.
- Particular conditions applicable to the use of the product:
Damper is normally closed, maintaining compartmentation and will open under instruction for smoke extraction.
Damper including grille tested for maintenance of opening.
- System or systems of assessment and verification of constancy of performance of the construction product as set out in the Construction Products Regulation (CPR - Regulation (EU) no 305/2011); Annex V: System 1.
- Declared performance according to:
EN 12101-8 (Smoke and heat control system Part 8: Smoke control dampers).

Essential Characteristics (in accordance with EN12101-8)				
Fire resistance according to EN 1366-10 & 1366-2 and classifications according to EN 13501-4:				
Range (w x h)	Type	Supporting construction	Classification report	Classification (BS EN 13501-4)
300 x 1000mm up to 1100 x 2300mm	LDN	Drywall Partition	18/17909-1701-1 M1	E (120Vew i→o) S 1000 C _{10,000} AA Multi
300 x 1000mm up to 1100 x 2300mm	LDN	Masonry Wall	18/17909-1701-1 M1	E (120Vew i→o) S 1000 C _{10,000} AA Multi
Performance				
Nominal activation conditions/sensitivity:	4.2.1.3	Automatic activation - passed		
Response delay (opening response time)	4.2.1.4	Automatic activation - passed		
Operational reliability	4.4.2.2	10,000 cycles - passed		
Integrity (E)	4.1.1.a	E 120		
Leakage (S)	4.1.1.c	ES 120 1000 (pressure level 2 -1000Pa to +500Pa)		
Insulation (I)	4.1.1.b	NPD* (not referenced in ADB vol II)		
Mechanical stability (under E)	4.1.1.d	Passed		
Maintenance of Cross Section (under E)	4.1.1.e	Passed		
Durability of response delay:				
Opening response time	4.4.2.1	Passed		
Durability of operational reliability:				
- open and closing cycle tests	4.4.2.2	10,000 cycles <120s - passed		

 Harmonised technical specification:
EN 12101-8

* NPD = no performance declared

Signed for and on behalf of BSB by:

Date: 6th Oct 2020

Mike Backham
Technical Director
BSB Engineering Services Ltd

