



SWEDISH TYPE APPROVAL 0969

WITH DECISION ON PRODUCTION CONTROL

KEYWORD: Main sections of BBR

Holder: LINDAB Ventilation AB

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Product name: Silencers BSLCU, SLBGU, SLGPU, SLCBU, SLCU, SLGU

Circular silencers, with an outer tube layer of folded steel-plate and an inner-tube layer of perforated/expanded metal (steel plate), with an intermediate layer of insulation of mineral wool and canvas, that prevents fiber release. The silencer's construction, dimensions, silencing of sound, installation and fire technical class, appears in the annexes

Intended use

Silencers for installation in ventilation ducts in steel with a circular cross-section.

Approval

Products made and installed according to related documents are approved with respect to the following sections of the Swedish Building Regulations

Building products with certified properties	1:4
Class designations – Fire Technical class*	5:231
Fire Technical alternatives** (BFS 2011:27, section 4.1.3)	5:112
Air treatment installations – <i>General Advice</i>	5:52
Air treatment installations, design and placement	5:533
Material	6:11
Microorganisms***	6:24
Ventilation (Tightness class D acc to VVS AMA 19)	6:25
Noise protection, Level of sound pressure	7:2
Heating and – cooling installations – <i>General Advice</i>	9:51

For more information about Fire Technical classes*, Fire technical alternatives** and Microorganisms***, see appendix 1

For the intended use the products meet the following requirements of PBL, regulations governing the technical properties of materials, products etc. used in construction works Chapter 8 Section 4 about the technical characteristics of buildings and constructions.

- 2. Safety in case of fire
- 3. Protection in regard of hygiene, health and environment
- 5. Protection against noise
- 6. Energy and thermal insulation

Appendix 1: Associated documents	11-06-2019
Appendix 2: Product marking	11-06-2019
Appendix 3: Control	11-06-2019
Appendix 4: Basis for approval	11-06-2019


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Accred. no. 1913
Certification of
Products
ISO/IEC 17065

Appendix 1
Type Approval no. 0969
Product: Silencer BSLCU, SLBGU, SLGPU, SLCBU, SLCU, SLGU
Holder: Lindab Ventilation AB

Associated documents 11/06/2019

Catalogue: <http://itsolution.lindab.com/LindabWebProductsDoc/PDF/Documentation/ADS/se/Technical/04-Silencers-ads.pdf> 2019-06-18

Mounting instruction: <http://itsolution.lindab.com/LindabWebProductsDoc/PDF/Documentation/ADS/se/Mounting/ai-mmis-se-cirk-ljuddamp.pdf> 2019-06-18

*** Fire-technical classes**

Silencer	Insulation thickness mm	Diameter/Nominal mm	Length max mm	Fire-technical class E/EI
SLCU, BSLCU	50	≤400	1200	EI 30, E 120
SLCU, BSLCU, SLCBU	100	≤800	1500	EI 60, E 120
SLGU, SLBGU, SLGPU	100	≤800	1000	EI 15, E 60
SLGU, SLBGU, SLGPU	150	≤250	1000	EI 30, E 60

**** Fire-technical alternative with “protection distance” – guideline for Fire Engineer at planning**

NB: (If silencers are planned for with ”protection distance” the installer shall fasten a warning sign well visible on the installed silencer. The warning sign shall be ordered form the Holder of this certificate.

Silencer	Insulation-thickness mm	Diameter/nominal mm	Alternative fire-technical class	Protective distance to	
				Evacuating people 2,5kW/m ² mm	Combustible material/interior 10kW/m ² mm
SLCU, BSLCU	50	≤400	EI 120	50	50
SLCU, BSLCU, SLCBU	100	≤800	EI 120	50	50
SLGU, SLBGU, SLGPU	100	≤800	EI 30	50	50
		≤400	EI 60	50	50
		>400-800		500	
SLGU, SLBGU, SLGPU	150	≤400	EI 60	50	50
		>400-800		500	

*** Micro-organisms - Air handling units for supply air shall have filters of at least class F7 according to EN 779. The product must not be installed in ventilation ducts where air containing fatty or sticky contaminants is distributed.

NB: Installation instructions must be included with every delivery where fire-technical alternatives with protective distance are used.

At the building owner's control of the construction site, identification by means of the labeling must ensure that the correct products are delivered and that they are used according to the conditions given in the approval and associated documents.



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