

MLS-N - NKV-G

Wall louvres

According EN 12101-2



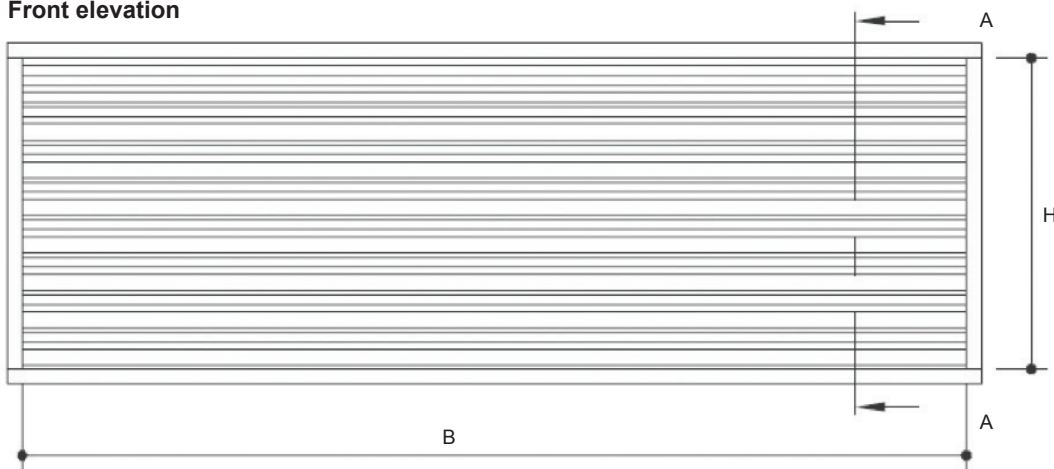
- Natural ventilation.
- Weathered air inlet.
- Architectural louvre systems.
- Operable horizontal louvres.
- Acoustic air inlet systems.
- Air inlet (Suitable for air inlet in smoke ventilation systems).



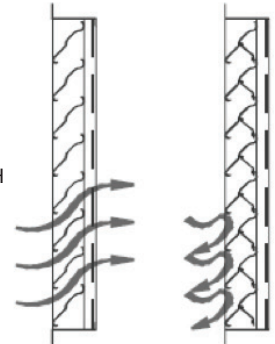
MLS-N - NKV-G

Intersection MLS-N

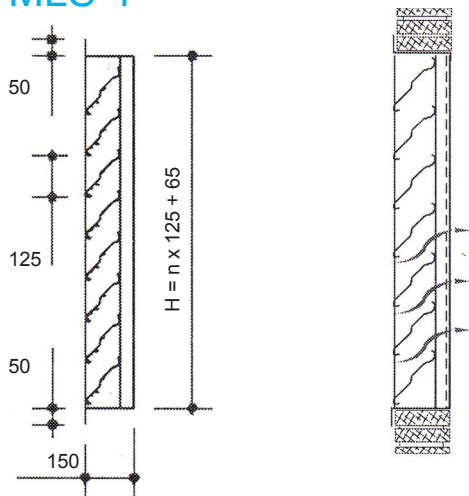
Front elevation



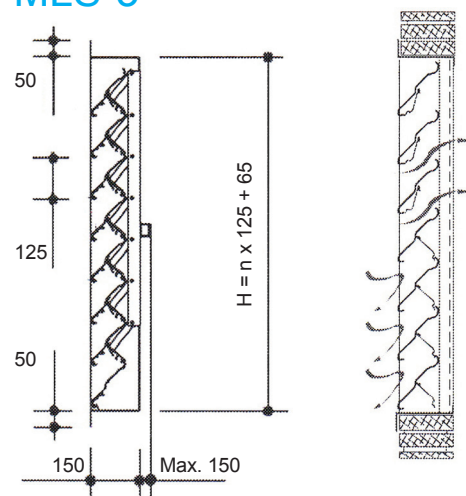
Side elevation



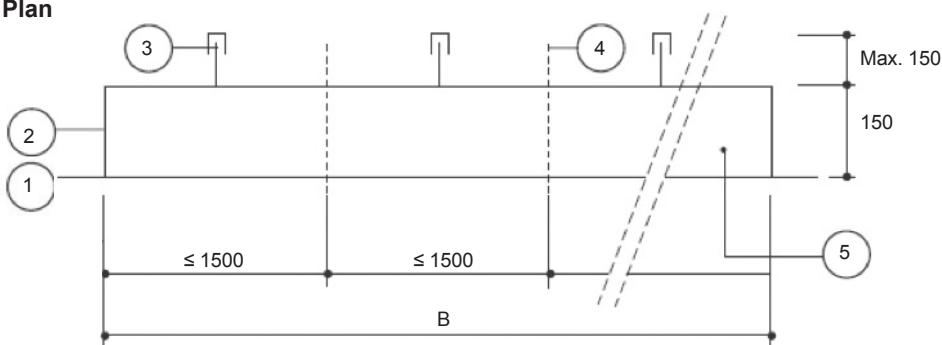
MLS-1



MLS-3



Plan

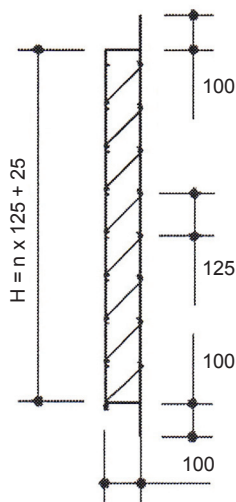


Geometric Area Ageo (m²) = B (m) x H (m)

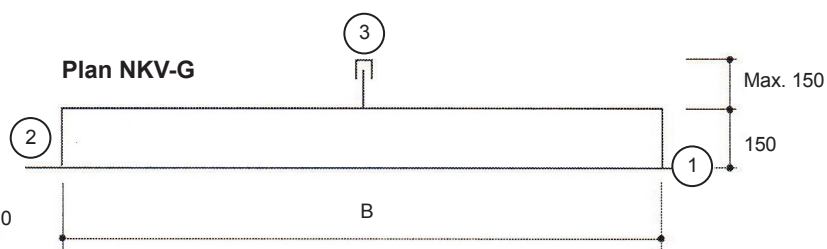
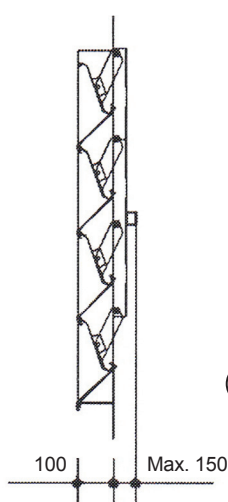
B = 0,5.... unlimited H = 0,6 - 3,0 m

Intersection NKV-G

NKV-GV (fixed)



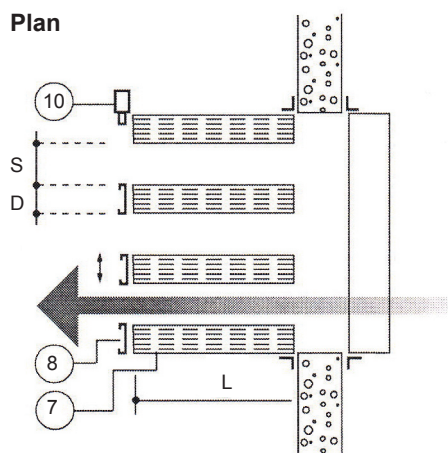
NKV-GB (operable)



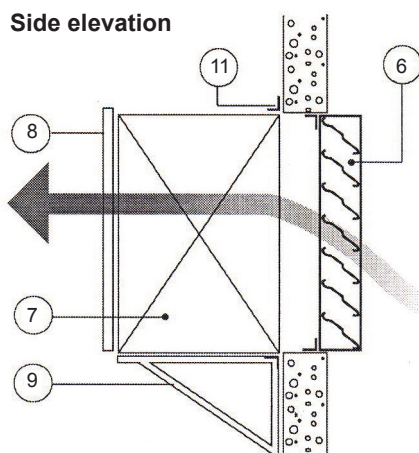
Geometric Area Ageo (m²) = B (m) x H (m)
B = 0,5 - 1,2 m H = 0,6 - 2,5 m

Sound attenuating

Plan



Side elevation



1. Installation flange
2. Housing
3. Control bar
4. Louvre support
5. Horizontal louvre
6. Wall louvre MLS-1
7. Sound attenuator
8. Operable section
9. Support bracket
10. Control system
11. Trim flashing

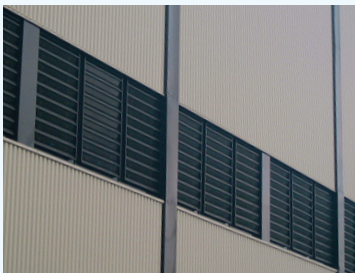
Technical information

Length L	Sound reduction in dB per octave band								
frequency >	63	125	250	500	1000	2000	4000	8000	Rw
500 mm	3,9	5,0	10,8	13,0	14,1	13,4	10,9	11,3	14
750 mm	4,4	5,5	13,5	17,0	18,7	17,2	13,0	13,2	18
1000 mm	4,8	6,0	16,2	20,9	23,3	21,0	15,0	15,1	21
1250 mm	4,6	7,2	18,9	24,1	27,6	24,2	16,6	15,8	25
1500 mm	4,3	8,3	21,5	27,3	31,9	27,3	18,2	16,5	27

Blade Thickness D = 200 mm Opening between blades S = 200 mm

Other dimensions on request.

MLS-N - NKV-G



Service

BOVEMA offers a comprehensive service covering the specification and installation of our products.

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Subject to technical changes and misprints.

Description

The wall louvres type **MLS-N-SLS** and **NKV-G** offer economic methods for the provision of air inlet into buildings. The systems are suitable for industrial or commercial buildings where ventilation is required. The lightweight construction allows the production of a wide range of products, which can be installed to meet almost any Engineering or Architectural requirement. The aerodynamically shaped extruded aluminium profiles of the **MLS-N** and **SLS** can be used to create continuous panels of fixed or operable wall louvres. An internal mullion system allows for a "Click Fix" blade installation process with no external fixings to spoil the Architectural appearance, whilst ensuring full blade support and alignment. The operable louvres have internal damper sections, which provide for volume control without any movement of the external blades. The **NKV-G** louvres are formed from high quality aluminium or stainless steel sheet, with profiles designed to provide a strong louvre blade with maximum protection against rain penetration. The operable louvres have alternate fixed and operable blades, so that in the open or closed positions the outer blade remains in a fixed position. A wide range of ancillary fittings from stainless steel bird guards to bolt on sound reduction attenuators is available and a wide range of controls enable the louvres to open exactly at the right opening angle based on all weather conditions. Fixed blade continuous louvres may also be used for Architectural screening purposes.

Operating principles

The louvres are all intended to allow fresh air to flow into a building and the louvres divide into fixed or operable products. All louvres have a fixed outer blade, which is angled at 45 Deg. to carry away rain from the interior of the building, by gravity aided by the drainage facilities built into the louvre blades. Where additional weather protection is required for continuously open louvres, special two pass louvres with an additional set of internal blades can be provided. Operable louvres have an inner damper type blade, which can be operated to fully or partially close off the opening to restrict the airflow. Manual or powered operating systems are available. 230V A/C or 24 V D/C electro-motor controls are available to operate the louvres and these can be preset to any specific required angle. Pneumatic controls are also available for fully open/close operation or a 2 step system of control. Both the electric and pneumatic systems can be operated in conjunction with remote control panels allowing interface facility for smoke or environmental control operation, in combination with wind or rain detection systems.

Applications

All industrial or commercial buildings where air inlet for daily ventilation or smoke extraction in the event of a fire is required. Also for Architectural screening purposes to plant rooms and the concealment of external plant such as air conditioning equipment.

Specifications

Louvres:

MLS-N: Louvre Pitch Height 125 mm

Material: 1.8 mm aluminium extrusions

NKV-G: Louvre Pitch Height 125 mm

Material: 1.5 mm formed aluminium

Material thickness: 2.0 mm aluminium

Frame/housing:

Controls

- Pneumatic operation (locked).
- Electrical control 24V DC / 230V AC.
- Manual/cable control. Also independent CO₂ building and electrical controls are available.

Materials

Corrosion resistant aluminum sheet AlMg3 alloy - AlMgSi 0,5 extrusion profiles - All fixing materials in stainless steel - nylon bearings (non lubricating).

General

The **MLS-N** and **NKV-G** wall louvres are supplied as fully assembled units suitable for site assembly as appropriate and are quality assurance tested prior to despatch. Standard units are supplied in mill-finished aluminium, but Polyester Powder Painting to any colour selected from the standard Bovema range may be supplied. Additional bird screens, sound attenuators, sprinkler shields and open / close louvre position indication switches can be provided. The lightweight construction and the fully welded flanges allow the incorporation of louvre systems into most building design projects.