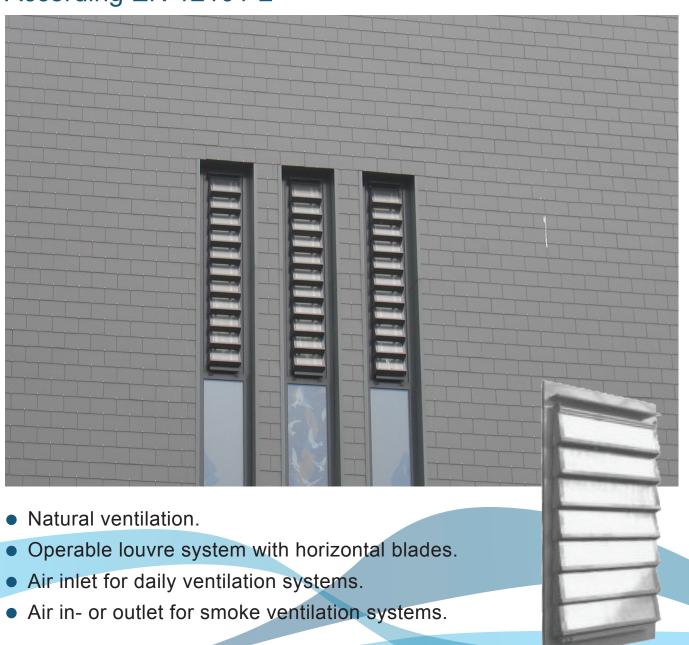
BOVEMA

TMS-DG

High Capacity Operable Wall Louvre

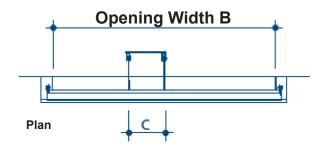
According EN 12101-2

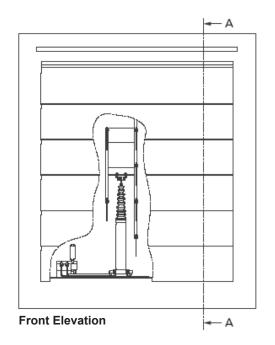


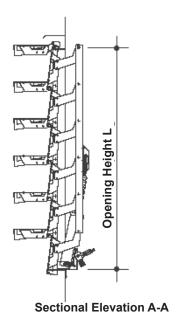


TMS-DG

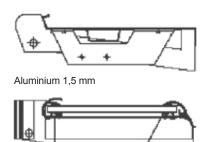
Intersection



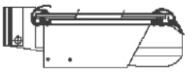




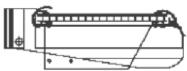
Blade Types



Aluminium sandwich, 10 mm thermal insulation



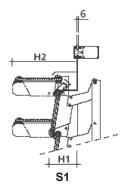
Georgian wired, toughened or laminated glass, 6 mm thick. $\pm\,90\%$ light transmission



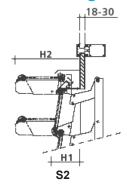
Translucent polycarbonate, clear or opal with 10 mm insulation, \pm 79% - 50% light transmission.

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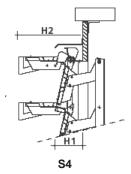
Frames and Installation Flanges



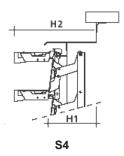
Shallow box, un-insulated for installation into single glazed, glazing system



Shallow box, insulated for installation into double glazed, glazing system



Shallow box, insulated for installation into wall construction



Full depth box, un-insulated for installation into wall construction

Blade type/			Polycarbonate					
Box depth	Alu-1	Alu-2	Single Glass	PC-10	Alutherm			
H1 Shallow Box	105*	105*	140	140	140			
H2 Shallow Box	280	280	310	310	310			
H1 Deep Box	255*	255*	290	290	290			
H2 Deep Box	430	430	460	460	460			
С	Туре	Туре	Туре	Туре	Туре			
	< 20 C = 159	< 20 C = 159	< 17 C = 159	< 17 C = 159	< 17 C = 159			
	20 C = 1000	20 C = 1000	17 + 20 C = 1000	17 + 20 C = 1000	17 + 20 C = 1000			
	> 20 C = 1300	> 20 C = 1300	> 20 C = 1300	> 20 C = 1300	> 20 C = 1300			

^{*} Blade type > 20. H1 Shallow Box = 125. H1 Deep Box = 275

Technical information

TMS-DG (high base) single skin aluminium, geometric area Ag (m²)

Туре	3	4	5	6	7	8	9	10	11	12	13	14	15	16	B(mm)
6-	0,29	0,39	0,49	0,59	0,68	0,78	0,88	0,98	1,08	1,17	1,27	1,37	1,46	1,56	500
8-	0,44	0,59	0,73	0,88	1,02	1,17	1,32	1,46	1,61	1,76	1,90	2,05	2,19	2,34	750
11-	0,59	0,78	0,98	1,17	1,37	1,56	1,76	1,95	2,15	2,34	2,54	2,73	2,93	3,12	1000
14-	0,76	1,01	1,27	1,52	1,77	2,03	2,28	2,54	2,79	3,04	3,30	3,55	3,80	4,06	1300
17-	0,94	1,25	1,56	1,87	2,18	2,50	2,81	3,12	3,43	3,74	4,06	4,37	4,68	4,99	1600
20-	1,11	1,48	1,85	2,22	2,59	2,96	3,33	3,71	4,08	4,45	4,82	5,19	5,56	5,93	1900
21-	1,17	1,56	1,95	2,34	2,73	3,12	3,51	3,90	4,29	4,68	5,07	5,46	5,85	6,24	2060
23-	1,29	1,72	2,15	2,57	3,00	3,43	3,86	4,29	4,72	5,15	5,58	6,01	6,44	6,86	2200
25-	1,40	1,87	2,34	2,81	3,28	3,74	4,21	4,68	5,15	5,62	6,08	6,55	7,02	7,49	2400
L (mm)	585	780	975	1170	1365	1560	1755	1950	2145	2340	2535	2730	2925	3120	

TMS-DG









Service

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

BOVEMA

S-air International B.V.
Hogelandseweg 79
6545 AB Nijmegen
The Netherlands
Internet www.s-air.nl
Tel: 0031-(0)24-3732373
Fax: 0031-(0)24-3737456
E-mail: info@s-air.nl

Description

The TMS-DG Wall Louvre provides an economic means of introducing large quantities of fresh air into a building. As a certified smoke extract ventilator the louvre may also be used for smoke extract in the event of a fire, where wall extract systems are acceptable. The TMS-DG louvre is particularly suitable for industrial and commercial buildings where high levels of ventilation are required and it is commonly used as an operable air inlet for high heat or smoke extract systems, operating in conjunction with roof extract louvres or fans. The TMS-DG louvre is available with solid or glazed blades and is therefore ideal for installations where ventilation plus day lightning is required. The large bladed aesthetically pleasing louvres are manufactured tot NEN-EN-ISO 9001 quality control standards and are designed and tested.

Operating principles

TMS-DG wall louvres are designed to allow large quantities of air into buildings with very little loss in air pressure as the air flows through them when open. They are particularly compatible with natural or powered extract systems for smoke ventilation or high heat industrial systems. When closed the louvres are fully watertight even in driving rain conditions. Partial opening of the louvres can also provide reduced levels of ventilation with limited weather resistance. Various control systems are available and the louvres can be operated in conjunction with other roof extract ventilators to meet various environmental requirements. Specially designed interlocking louvre blades ensure leakage is prevented when the louvres are closed, and the blade hinges are positioned outside of the air stream to allow maintenance free operation.

Applications

Typical applications include:

- High heat producing process buildings
- Industrial buildings
- Warehouses and logistics centres
- Shopping centres and buildings where daily ventilation and/or smoke extraction in the event of a fire
 are required.

Specifications

Louvres: 1.5 mm single skin aluminium

10 mm thermal insulated and separated double skin aluminium

20 mm thermal insulated double skin aluminium

6 mm single Georgian wired, laminated or toughened glass 10 mm translucent or opal/insulated double skin polycarbonate

Frame/housing: Single skin aluminium

Thermal insulated double skin aluminium

Controls

- Pneumatic control (locked in both opened and closed position) CO₂
- Fusible link temperature: 68°– 93°– 110°– 140°C
- Electric controls 24 D/C / 230 V A/C
- Fail safe controls both electric and pneumatic
- Cable controls. CO₂ and electric battery back-up systems are available.

Materials

Corrosion resistant aluminium, sheet materials to AIMg3 alloy, extruded aluminium profiles to AIMgSi. 0.5 alloy, all fixings are in stainless steel. All bearings are nylon and require no lubrication.

General

TMS-DG louvre ventilators are supplied fully assembled and each unit is test operated before despatch. The standard unit is manufactured in natural mill finished aluminium but a Polyester Powder Paint finish to any standard RAL colour, selected from the BOVEMA range may be specified for all the aluminium components. Other optional items such as bird screens, insect mesh, sound attenuators and sprinkler shields are also available. The ventilator base and flange units are of fully welded construction, with final flange sizes fabricated to suit individual project requirements.