

DUO THERMA

TWIN FLAP VENTILATOR FOR SMOKE EXHAUST AND DAILY NATURAL VENTILATION



ACCORDING TO STANDARD

EN 12101-2

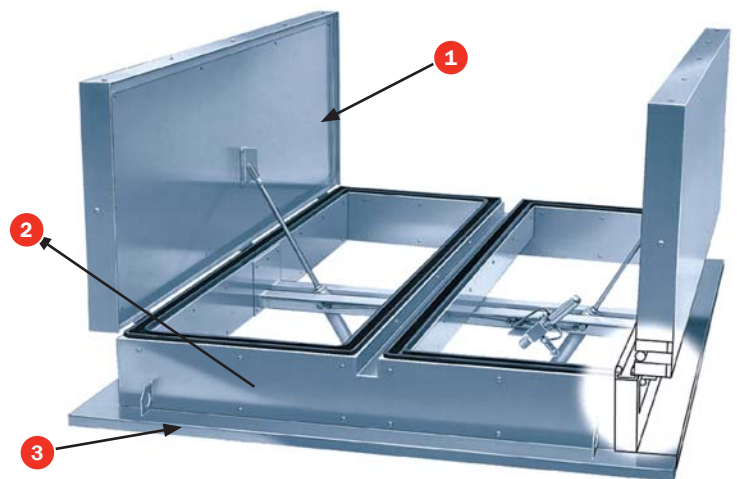
TWIN FLAP VENTILATOR

Duo Therma is a twin flap system designed for both smoke and heat exhaust and daily ventilation.

The countless options available in terms of the base and flaps, as well as numerous operating systems and accessories, enable the creation of a functional solution for any type of building: from industrial properties to cold stores, and from commercial centers to theatres and offices premises.

The cold bridge-free **Duo Therma TG** fitted with a thermally separated base and flaps offers a high level of durability. It minimizes condensation forming and offers advanced comfort features.

In the event that sound insulation is also required, two fully acoustic versions of the **Duo Therma TG** model are available, which have R_w values of 34 dB and 44 dB.



ACCESORIES

Bird or insect mesh
Fall protection
Burglary prevention features
Insulated flanges
RAL colour / anodized

DESCRIPTION

- 1 Blades.
- 2 Base.
- 3 Flanges.

CONTROLS

P2 double-action compressed air operation.
M motor operation
Optional: **B** including fire function
FS failsafe

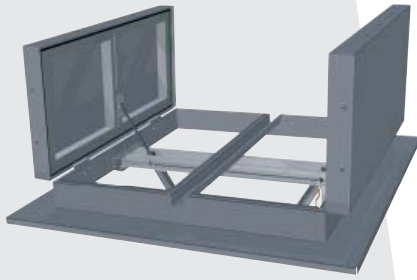
DUO THERMA

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FLAPS

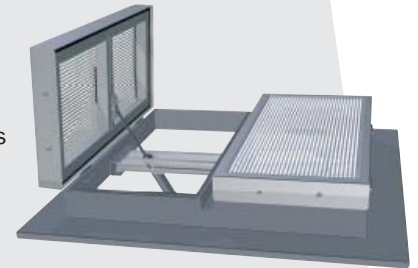
DUO THERMA AT-G INSULATED

- Sea water and corrosion-resistant aluminium according to EN AW 5754 (AlMg₃)
- High air and watertightness
- Convenient installation
- Considerable flexibility in terms of dimensions and flange type



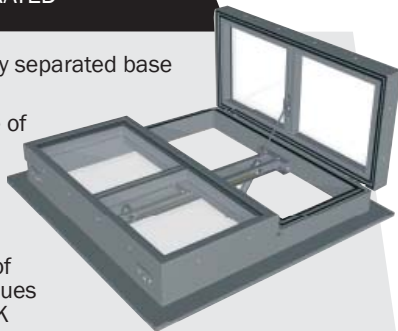
DUO THERMA AT-O UNINSULATED

- Optional transparent polycarbonate flaps allow daylight entrance
- Broad range of operating systems and accessories available
- Suitable for all types of buildings and roof applications



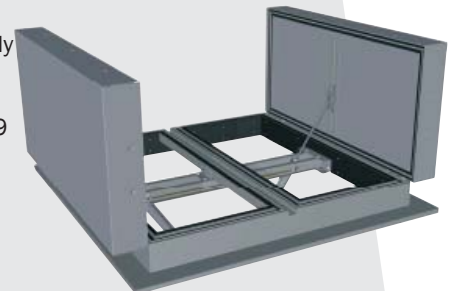
DUO THERMA TG THERMALLY SEPARATED

- Entirely thermally separated base and flaps
- Extensive choice of flap types
- Standard noise reduction (Rw) of 31 dB
- Increased level of comfort, with U-values of up to 1,0 W/m²K
- Air and watertightness tested accordance NEN EN 1026 / 1027 and DIN EN 12208



DUO THERMA TG-AK THERMALLY SEPARATED / ACOUSTICALLY INSULATED

- Thermally separated base and flaps with additional acoustic insulation
- Available in two EN 12101-2 / EN ISO 140-3 certified types, with Rw-values of 34 dB and 44 dB
- Compliant with highly stringent acoustic requirements
- U-values of up to 0,9 W/m²K



MATERIALS

Base and flanges: Sea water and corrosion-resistant EN AW 5754 (AlMg₃) sheet aluminium is used in the **Duo Therma TG** models; the **Duo Therma TG** models are made of EN AW 606035 (AlMgSi0,5) extruded profile sections which are thermally separated.

Sealing: All-round, using coated EPDM rubbers, which prevent freezing while guaranteeing a high level of air tightness.

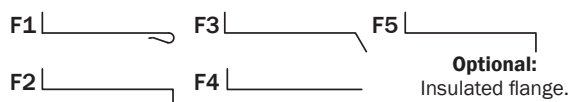
Hinges: Stainless steel.

Flaps: With or without thermal separator.

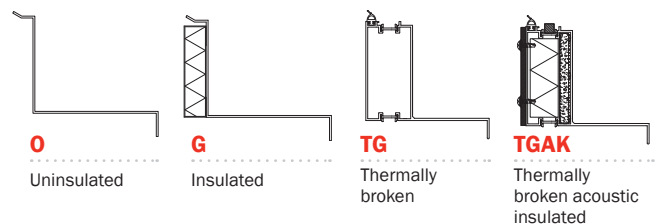
Choice of: uninsulated or mineral wool-insulated aluminium flap, 16 to 55 mm transparent multi-wall polycarbonate filler, single safety glass, insulated safety glass, or a high quality acoustically insulated flap.

Finishing: Standard blank aluminium or coated in a standard RAL colour.

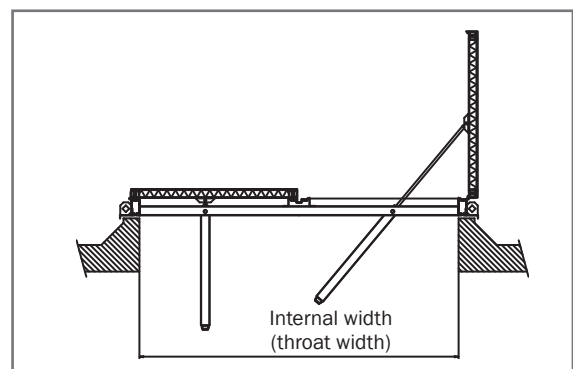
FLANGES



BASES

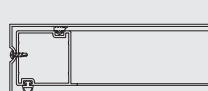
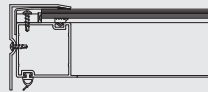
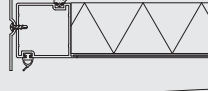
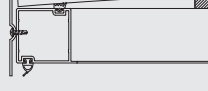


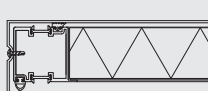
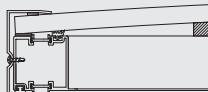
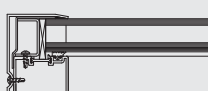


SECTIONS



TWIN FLAP VENTILATOR FOR SMOKE EXHAUST AND DAILY NATURAL VENTILATION

SPECIFICATIONS DUO THERMA													
						DUO THERMA AT un/insulated				DUO THERMA TG thermally broken			
						WEIGHT (kg)							
TYPE	Throat size width x length (mm)	Geometric surface m ²	Aerodynamic surface m ²	Cv-value	Height mm (TG Acoustic = 250 mm)	Uninsulated aluminium	Insulated aluminium	Transparent multi-wall polycarbonate Isolux	Single laminated safety glass	Insulated aluminium	Transparent multi-wall polycarbonate Isolux	Laminated insulation glass	Acoustic insulated
1010	1000 x 1000	1,00	0,60	0,60	200	31	41	32	63	44	43	72	88
1015	1000 x 1500	1,50	0,90	0,60	200	38	49	39	80	53	51	93	120
1020	1000 x 2000	2,00	1,20	0,60	200	45	57	46	98	62	59	115	153
1025	1000 x 2500	2,50	1,50	0,60	200	52	65	53	116	72	68	137	185
1510	1500 x 1000	1,50	0,90	0,60	200	37	48	37	81	53	51	94	119
1515	1500 x 1500	2,25	1,35	0,60	200	44	57	45	103	64	60	122	163
1520	1500 x 2000	3,00	1,80	0,60	200	52	67	53	126	75	69	150	206
1525	1500 x 2500	3,75	2,25	0,60	200	60	76	61	148	86	78	179	250
2010	2000 x 1000	2,00	1,30	0,65	200	42	55	43	98	63	59	115	151
2015	2000 x 1500	3,00	1,95	0,65	200	51	66	51	126	75	69	151	205
2020	2000 x 2000	4,00	2,60	0,65	200	60	77	60	153	88	79	186	260
2025	2000 x 2500	5,00	3,25	0,65	200	69	88	68	181	100	88	221	315
2510	2500 x 1000	2,50	1,63	0,65	200	48	61	48	116	73	67	137	182
2515	2500 x 1500	3,75	2,44	0,65	200	58	74	57	149	87	78	179	248
2520	2500 x 2000	5,00	3,25	0,65	200	68	86	66	181	100	88	222	314
2525	2500 x 2500	6,25	4,06	0,65	200	78	99	75	214	114	99	264	379

FLAPS DUO THERMA AT	U-values
 Uninsulated	6,0
 Single laminated glass	5,7
 Insulated	2,0
 Isolux 16 mm	1,8-2,3

FLAPS DUO THERMA TG	U-values
 Thermally broken insulated	2,0
 Thermally broken insulated Isolux 16 mm	1,8-2,3
 Thermally broken laminated insulation glass	1,1-2,8
 Thermally broken Isolux 55 mm	1,0
 Thermally broken acoustic insulated	0,9