

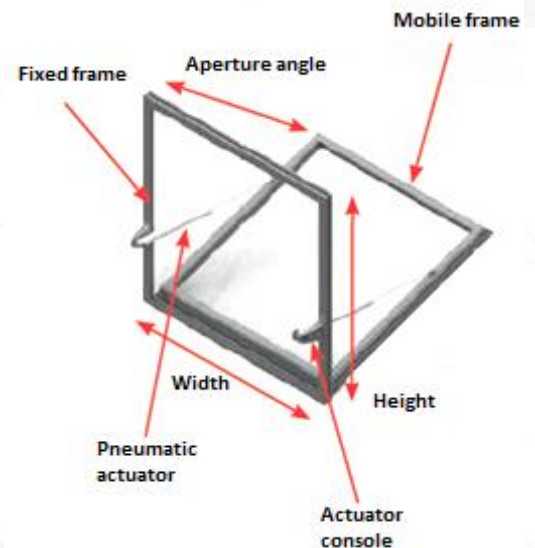
PETA.ECOVISION PN – NATURAL VENTILATION AND SMOKE REMOVAL WINDOWS

PETA.ECOVISION PN windows can be used for natural smoke removal (certified according to the norm NF EN 12101) as well as for daily ventilation, with no extra cost. Considerably aesthetic, these are meant to be installed in façades, skylights or integrated in SHED systems.

Electrically activated through chain or linear actuators, they can achieve an aperture of up to 60°, depending on dimensions and opening type.

PETA.ECOVISION PN is available in the TBR (ih) and standard (i) versions, which can be applied in broad range of applications. Several types of opening available: inward, outward, English and French.

Diverse glazing types: simple or safety glass, double glass, aluminium “sandwich” panel, cellular polycarbonate (PC) and AeroTech® PC.



PETA.ECOVISION PN ADVANTAGES:

- Flexibility and adaptability to all support types and configurations.
- High thermal insulation due to the thermal bridge rupture (TBR) frame and AeroTech® glazing.
- Contributes to the buildings bioclimate, as required in RCCTE.
- Aluminum frame and finishing of great quality and perfect integration.
- Can be used for natural ventilation with no additional cost.
- Ideal solution for public buildings, commercial buildings and renovations.






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DESCRIPTIVE TYPE:

Smoke removal window PETA.ECOVISION PN, certified according to NF EN 12101-2, aluminium frames with or without thermal bridge rupture, colour finishing in natural anodized or RAL colour, glass glazing 44.2/16/44.2 (or other), and pneumatic actuators for open/close functions.

Broad range of applications for new or renovating buildings

- Stair boxes, circulations, atriums and courtyards, integration in SHED systems.
- Buildings with public access (stores, schools and sports locations).
- Commercial and industrial buildings.
- Collective habitation buildings.

DIMENSIONS AND GLAZING			OPENING TYPES	
FRAMES	GLAZING	DIMENSIONS (W X H)		
VERSION i	- Cellular polycarbonate (PC) 10 mm and 16 mm;	Width (W): Min = 500mm (19,69 in) Max = 2000mm (78,74 in) Height (H): Min = 700mm (27,56 in) Max = 2000mm (78,74 in)		
	- Simple or safety glass of 6 mm (0,2 in), 8 mm (0,3 in) and 10 mm (0,4 in);			
VERSION ih	- Double glass up to 42 mm (1.7 in);	Width (W): Min = 500mm (19,69 in) Max = 2000mm (78,74 in) Height (H): Min = 700mm (27,56 in) Max = 2000mm (78,74 in)		
	- "Sandwich" aluminum panel with 24 mm (0.9 in);			
	- Cellular polycarbonate (PC) with 25 mm (1 in);			
	- Cellular polycarbonate (PC) with 16 mm (0.6 in) or 25 mm (1 in) + Aerotech®;	Width (W): Min = 500mm (19,69 in) Max = 2000mm (78,74 in) Height (H): Min = 700mm (27,56 in) Max = 2000mm (78,74 in)		
	- Double glass up to 55 mm (2.17 in) (countless options available);			

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PNEUMATIC ACTUATORS: Power and effectiveness

The windows are equipped with two pneumatic actuators with 40mm diameter (1,57 in).

The actuators come in pairs and are installed on the sides of the mobile frame, through a fixation console lacquered at the same RAL as the window. The copper tubing and respective accessories as well as the compressed air system are very discreet.

- Maximum aperture angle: 60° (depending on size);
- Opening time less than 60 seconds;
- Opening path: 200 (7,87 in), 300 (11,81 in), 400 (15,75 in) and 500mm (19,69 in);
- Pre-installed copper circuit;
- Optimized security and aesthetic;

The window thermal waste coefficient is selected depending on glazing and frame. The choice of the ih profile (thermal bridge rupture) ensures the best performance and insulation levels. The ideal solution to achieve the thermal performance objectives.

The frames that adapt to your needs:



Width: 50mm

Version i :

Standard frame



Width: 65mm

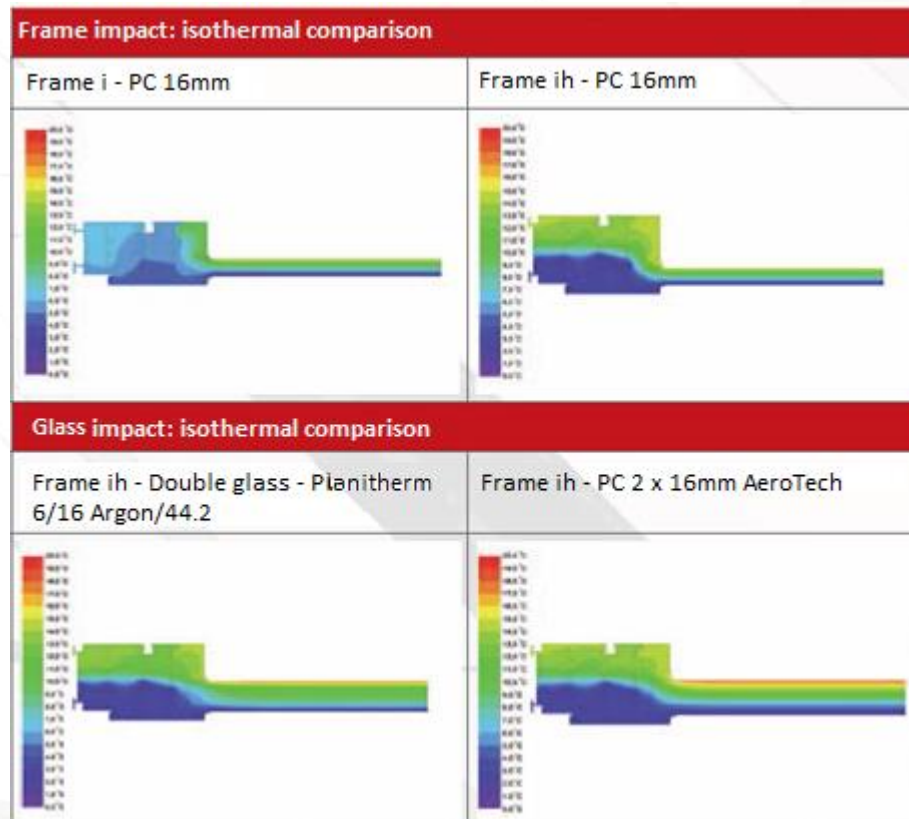
Version ih:

TBR frame for optimized insulation



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Multiple combinations available depending on frame and glazing choice, for a result that adapts to your specifications.



GLAZING DIMENSIONS FRAME TYPE	U _g (glass)	THERMAL TRANSFER COEFFICIENT - U _w (W/m ² .K)			
		W= 1200mm x H= 1200mm		W= 2000mm x H= 1800mm	
		Standard (i)	TBR (ih)	Standard (i)	TBR (ih)
PCA 10mm	2,5	4,5	NA	3,9	NA
PCA 16mm	1,9	4,0	2,6	3,3	2,4
PCA 16mm Aerotech®	1,5	NA	2,3	NA	2,1
2 x PCA 16mm	1,1	NA	2,1	NA	1,7
2 x PCA 16mm Aero-tech®	0,73	NA	1,8	NA	1,5
Double glass 6/16/44.2	2,7	NA	3,2	NA	3,1
COOL-LITE 6 mm + 16 Argon 90 % / 44.2	1,1	NA	2,1	NA	1,7
PLANITHERM 6 mm / 16 Argon 90 % / 44.2	1	NA	2,1	NA	1,8

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GLAZINGS AND RESPECTIVE PERFORMANCES						
GLAZING TYPE		THICKNESS (IN MM)	U _g (W/m ² .K)	LIGHT TRANSMISSION (%)	SOLAR FACTOR G (%)	WEIGHT (kg/m ²)
CELLULAR POLYCARBONATE (PC)	opaque 10mm / 4P	10	2,6	61	61	1,8
	colorless 10mm /4P	10	2,6	68	67	1,8
	opaque 16mm / 4P	16	1,9	47	55	2,7
	colorless 16mm / 4P	16	1,9	66	63	2,7
	opaque 16mm AeroTech	16	1,5	56	57	4,0
	colorless 16mm AeroTech	16	1,5	67	67	4,0
	2 x opaque 10mm	20	1,7	36	43	3,5
	2 x colorless 10mm	20	1,7	-	-	3,5
	2 x opaque 16mm	32	1,1	19	22	5,4
	2 x colorless 16mm	32	1,1	36	42	5,4
	2 x opaque 16mm AeroTech	32	0,7	-	-	8,0
	2 x colorless 16mm AeroTech	32	0,7	-	-	8,0
METAL SHEET	Insulated metal sheet	20	-	0	-	2,7
	Simple metal sheet	1 a 3	-	0	-	-
SIMPLE GLASS	colorless tempered Planilux 6mm	6	5,7	89	82	15,2
	colorless tempered Planilux 8mm	8	5,6	88	79	20,2
	colorless tempered Planilux 10mm	10	5,6	88	76	25,3
LAMINATED SAFETY GLASS	STADIP 33.1 colorless	6	5,7	89	77	15,2
	STADIP 33.2 colorless	6	5,7	89	75	15,2
	STADIP 44.1 colorless	8	5,6	88	74	20,2
	STADIP 44.2 colorless	8	5,6	88	72	20,2
	STADIP 55.1 colorless	10	5,6	87	72	25,3
	STADIP 55.2 colorless	10	5,6	87	70	25,3
	STADIP 66.1 colorless	12	5,5	87	70	30,4
	STADIP 66.2 colorless	12	5,5	86	68	30,4
DOUBLE GLASS	4/16/4	24	2,7	82	73	20,2
	4/16/33.2	26	2,7	80	65	25,3
	6/12/33.2	24	2,8	80	63	30,4
	6/16/33.2	28	2,7	80	63	30,4
	6/16/44.2	30	2,7	79	61	35,4
	8/16/44.2	32	2,7	78	59	40,5
	8/16/55.2	34	2,7	78	57	45,5
	8/16/66.2	36	2,6	77	56	50,6
	33.2/16/33.2	28	2,7	79	61	30,4
	44.2/16/44.2	32	2,7	78	57	40,5
SPECIAL GLASS	Cool-lite 6mm/16 Argon 90%/ 44.2	30	1,0	77	48	35,4
	Planitherm 6mm/16 Argon 90%/44.2	30	1,1	59	28	35,4

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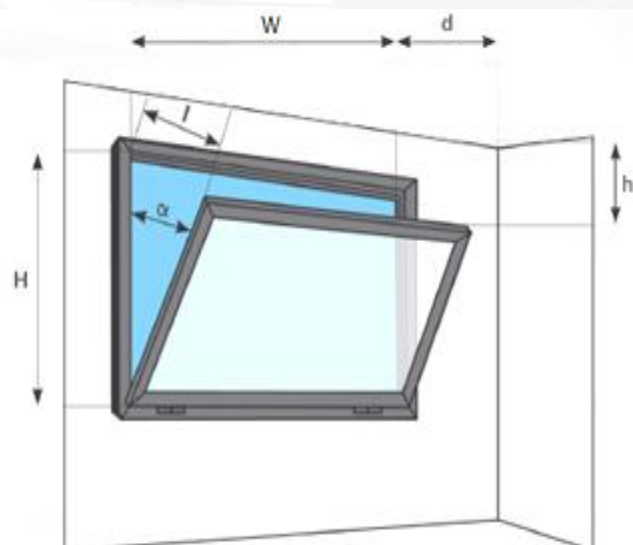
PERFORMANCE AND CLASSIFICATION FOR SMOKE REMOVAL (NF EN 12101-2)		
Designation	Class	Description
Function:	B type	Open\close functions from the ground .
Useful surface :	Aa	Surface effectively used for smoke removal, calculated by dimensions and cv coefficient.
Aerolic coefficient :	Cv	Aerolic smoke removal efficiency: varies according to dimensions, opening type, frame, aperture angle and configuration.
Temperature resistant:	B 300	Tested at 300° C
Reliability:	RE 1000 (smoke removal) RE 10 000 (ventilation)	Number of cycles tested (open\close) in ventilation and smoke removal .
Static wind mitigation :	WL 1500	Resistant to wind loads (in N/m2).
Low temperature:	T (00)	System according to french regulation.
Inclination:	0°	Vertical application

Aerólic performance in natural smoke removal

CV varies according to size and aperture angle

The complete solution for an intelligent management of smoke removal and natural ventilation!

There are countless ways to pneumatically command smoke removal windows, depending on the legislation. In addition to smoke removal, these can be used for natural ventilation contributing for an increment in comfort.

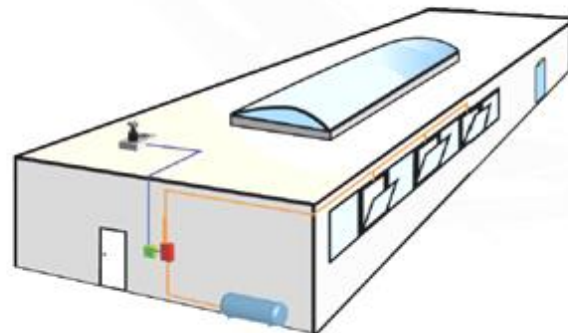


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Stairbox installation

Industrial installation with ventilation



AVAILABLE OPTIONS

- Lacquering / Anodization: bi-colour interior/exterior possible in TBR frames (ih).
- Positioning sensors: Safety options.
- Special glazing: thermal treatment, anti-heat, among others.
- Anti-pinch protection (WPS): ideal for public access buildings and schools
- Available finishing: raw aluminium, lacquered aluminium and anodized aluminium.

ACCESSORIES

- Finishing frame.
- Gasket cover.
- Dripping protection (water drainage).