

# Bottom hung INWARD OPENING PNEUMATIC EXUFACE

Technical File  
CE/NF011a

OPEN / CLOSE OPERATED BY PNEUMATIC CYLINDERS

CFIN2PTxxVxRx

## Description

The Pneumatic EXUFACE, a CE certified facade SHEV window, has been designed to be incorporated easily and stylishly into all types of facade.

Its different versions, either pneumatic or mechanical, fully meet current regulatory requirements.

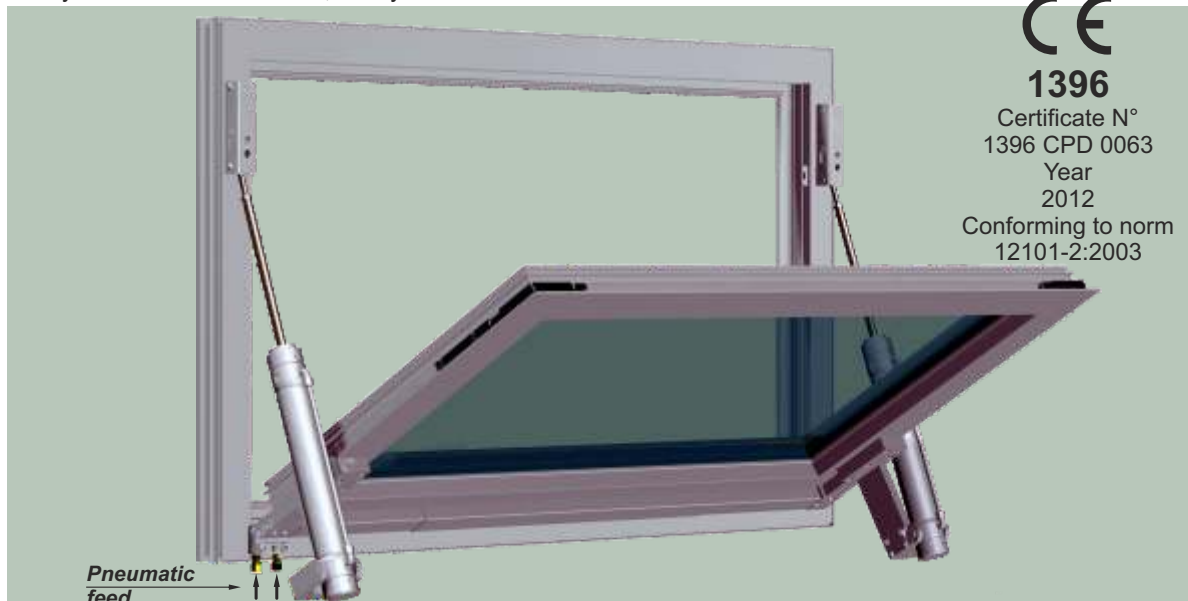
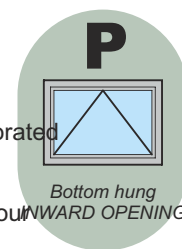
Easy to connect, the Pneumatic EXUFACE is delivered with all its operating components already fitted in our factory.

Inconspicuously mounted, the pneumatic feed can be fitted on the right or left-hand side.

Its technical design means that locking points, mounted in rabbet, ensure a tight fit of the sash against the frame base, providing perfect weathertightness.

Stylish, the EXUFACE can be delivered with the option of cladding painted to coordinate with the frame, thus hiding any unsightly components.

Excellent performance, operated by our mixed CO<sup>2</sup>/ventilation boxes, the Pneumatic EXUFACE guarantees 10,000 cycles of ventilation and 1,000 cycles of smoke exhaust !



1396

Certificate N°  
1396 CPD 0063  
Year  
2012

Conforming to norm  
12101-2:2003

## Specifications

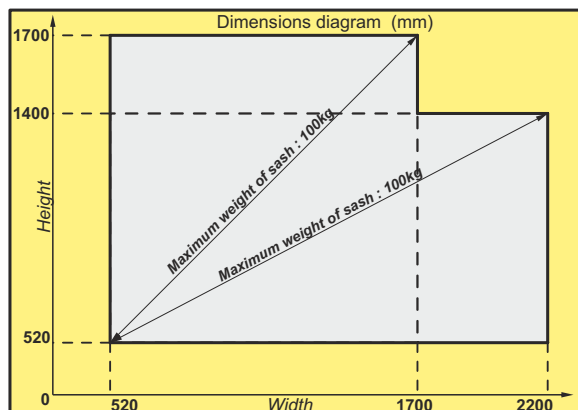
Type	: Type B (open and close)
Frame type	: Bottom hung inward opening
Opening time and angle	: Less than 60s for 60°
Bearing plane angle	: 0° in relation to the vertical.
Safety position	: Held in place by pneumatic cylinders
Control device	: Manual or distance controlled, by impact on CO <sup>2</sup> cartridges
Resetting	: By impact on CO <sup>2</sup> cartridges
Operating pressure	: 6 bar
Consumption of cylinders	: See the table overleaf
Range of dimensions	: See the table below
Protection	: Zinc coating, varnishing
Colours	: RAL9010 (white), RAL9006 (metallized light grey), other colours on request
Glazing	: Glass, polycarbonate, sandwich panel measuring between 14 and 37mm for a sash weighing 100kg maximum.



www.marque-nf.com  
NF - Smoke and Heat Exhaust Ventilator

This mark certifies :  
conformity to norms  
NF S 61-937-1 and NF S 61-937-7  
in accordance with the rules for certification NF 405  
of the values of the characteristics  
given in this technical file.

Certification Body  
AFNOR Certification  
11 Rue F. de Pressensé  
93571 LA PLAINE  
SAINT DENIS CEDEX



### Area of validity

#### General characteristics of Actuated devices of Safety (ADS) :

- An A.D.S. must not issue commands
- Devices which allow the control of safety and/or standby positions of the ADS
- Unlocking power external to the ADS
- Operational independence of the automatic and distance controls
- No distance controlled resetting if set in safety position by automatic control
- Resetting by distance control if the power has been interrupted during the previous resetting

#### General characteristics of the constituents :

- Control of the positions of the A.D.S.
  - Class III for the electrical elements working under safety extra low voltage (SELV)
  - Insulation of SELV electrical circuits and of the electrical circuits of other devices
  - Minimum protection index IP 42
  - Presence of the principal connection device
  - Specific SELV connection device
  - Functioning of the traction stop device
  - Minimum electrical characteristics of the position contacts
  - Independence of electrical control circuits from other circuits
  - Test pressures of pneumatic materials
- Characteristics of the distance control input :
- Characteristics of the distance control input through steel cable
  - Characteristics of the electric distance control input
  - Characteristics of the pneumatic distance control input
- Characteristics of the power input :
- Characteristics of the electric power input
  - Characteristics of the pneumatic power input

# DUPUY EQUIPEMENTS

Les Ajeux - 72400 La Ferté Bernard - France  
Tel. : +33 (0)2 43 60 78 60 - Fax : +33 (0)2 43 93 41 94  
e-mail : clients@de72.fr



www.dupuy-equipements.com

EXUFACE

### Technical Characteristics

Material . . . . . : Aluminium, glass, steel, synthetic material.  
Protection . . . . . : Varnishing, zinc coating.  
Precautions . . . . . : Stock and install away from bad weather conditions.

Window consumption of CO <sup>2</sup> according to height			
Type of window	Height (mm)	Stroke (mm)	Quantity of CO <sup>2</sup> (g)
Bottom hung INWARD OPENING	520 to 719	150	8
	720 to 959	200	10
	960 to 1189	300	15
	1190 to 1439	400	20
	1440 to 1700	500	25

The quantities of CO<sup>2</sup> given do not include the servo-system network and are for a pressure in service of 6 bar.

Opening direction	Range of dimensions	
	Minimum	Maximum
Bottom hung Inward opening		

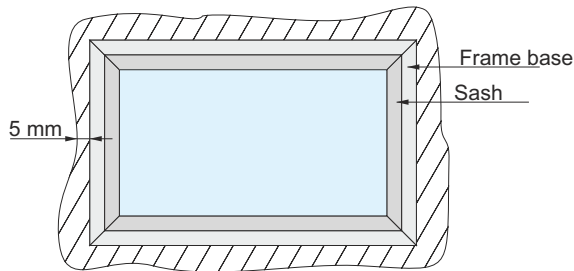
### Declared Characteristics

Aerodynamic Free Area "Aa" : Depending on dimensions (consult us)  
Wind Load "WL" : 3000  
Snow Load "SL" : Does not apply  
Low ambient Temperature "T" : 00  
Reliability "Re" : 1 000 + 10 000 cycles ventilation  
Heat Resistance "B<sub>Wall</sub>" : 300  
Reaction to fire : A1  
Temperature of thermal triggering : Does not apply  
Type of SHEV mechanism : Type B (open and close)

### Options

- Position contacts open / close
- Finishings such as flashings, trim, joint covers ...

### How to measure the window



Subtract a minimum of 5mm from the dimensions of the height and width of the cavity in the wall.  
Eg. : for a cavity of 900h x 1400, the total dimensions of the window will be 890h x 1390

### Installation

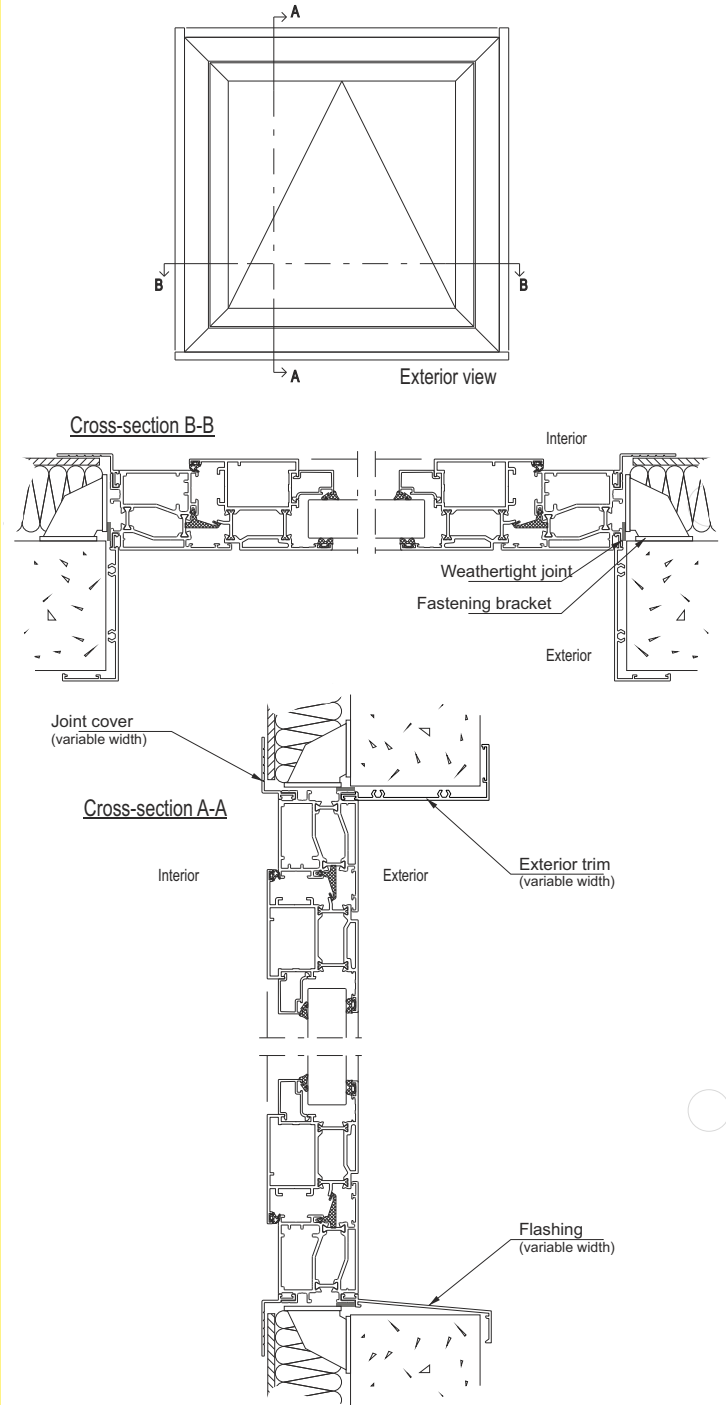
When installing the window,  
- First fix the window in place, 2 support wedges per side.  
- Make sure the frame base is squared up by checking 2 opposite angles  
- Check the plumb of the frame base, any vertical misalignment should be less than 2mm per metre.  
The installation, fixings and weathertightness should be carried out in accordance with the norm NF DTU 36.5 in force.

### Product identification

E.ALIM : power input  
E.TELE : distance control input  
E : transmission  
R : break  
Hpa : height of air passage  
Lpa : width of air passage

### Standard cross-sections

Installation in an insulated wall



Product delivered with markings translated

**DUPUY EQUIPEMENTS**  
 72400 La Ferté Bernard  
**DENFC - EXUFACE**  
 Produit fabriqué en 2014  
 Energie : Pneumatique  
**CFIN2PT. V.R.**  
 1396  
 1396 CPD 0063  
 12101-2,2003  
 Aa= x.xx m<sup>2</sup>, WL 3000  
 T (00), Re 1000 + 10000  
 B.300, A1, type B  
 N° série : xxxxxxxxxxxx  
 N° : NF13/04.01  
 DENFC monté en façade  
 hpa : xxxx mm  
 lpa : xxxx mm  
 E.TELE / E.ALIM :  
 Energie pneumatique  
 Pression minimale : 6bar  
 Volume vétrins : x.xx litre  
 Consommation : x.xx Ni  
 NF - Dépositaire d'attribution  
 Norme de France  
 et de Chaleur  
 Certification certifiée  
 par le NF S 61-367-1, les  
 organismes agréés  
 www.marque-nf.com attestées dans cette fiche.