

# MECHANICAL Roof WINDOW O/C

OPEN AND CLOSE BY STEEL CABLE

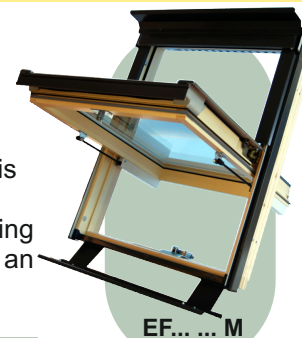
EF . . . . . M

Technical File  
CE/NF002c

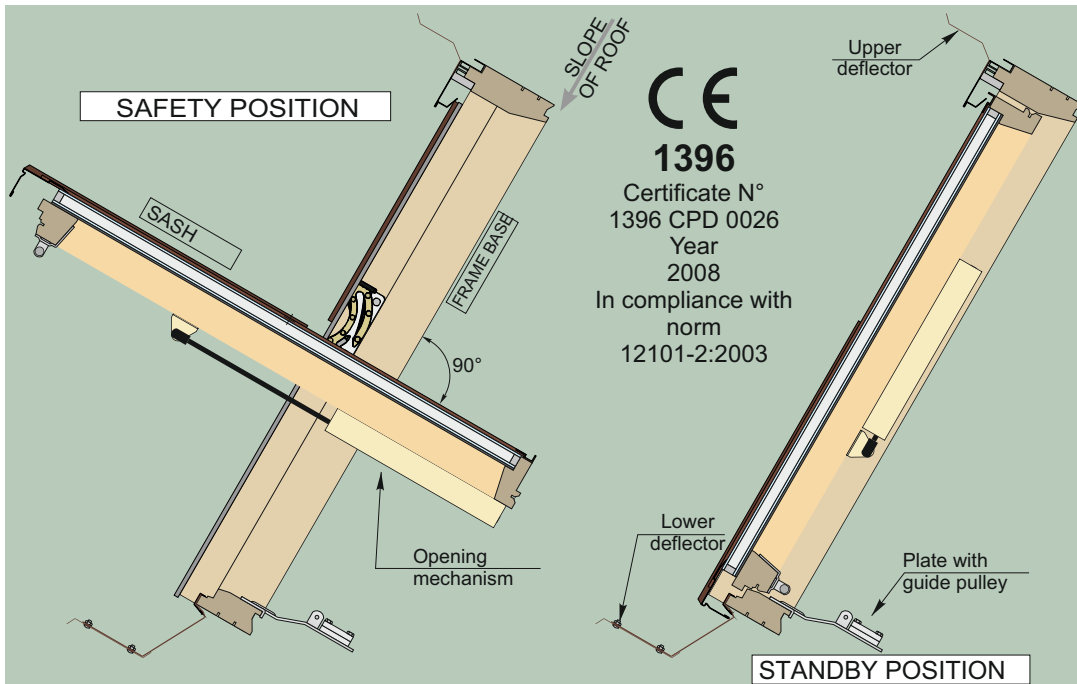
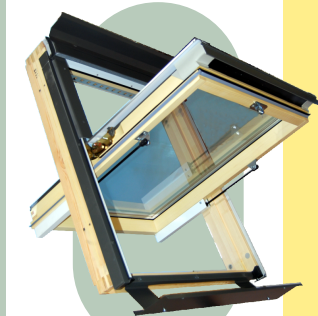
EXUFAK®

## Description - General Information

**S.H.E.V., Natural Smoke and Heat Exhaust Ventilator, operated by intrinsic energy, which ensures the smoke and heat exhaust of a premises in the case of fire. It is served by a manual or modular control device with steel cable winding mechanism. After issuing a command, by steel cable release or an automatic command by the triggering of a fuse, the window goes from its closed standby position into its safety position, which is an opening maintained at 90° in relation to its frame base using two oil pneumatic springs.**



EF... .. M



**CE**  
**1396**  
Certificate N°  
1396 CPD 0026  
Year  
2008  
In compliance with  
norm  
12101-2:2003



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

EXUFAK®								
Reference SHEV	EF078098M	EF078118M	EF078140M	EF094118M	EF114118M	EF114140M	EF134098M	EF134140M
Dimensional code	05	06	07	08	10	11	12	17
Overall Dimensions W x H in mm	780x980	780x1180	780x1400	940x1180	1140x1180	1140x1400	1340x980	1340x1400
User-defined Dimensions W x H in mm	700x908	700x1108	700x1328	860x1108	1060x1108	1060x1328	1260x908	1260x1328
Geometric Surf. of SHEV in m² (Av)	0,64	0,78	0,93	0,95	1,17	1,41	1,14	1,67
Usable Surf. of opening in m² (Aa)	0,35	0,43	0,51	0,51	0,62	0,69	0,56	0,79

Entry of connections		
Height (mm)	Model FAK . .	Cable stroke (mm)
980	05	»600
	12	»600
1180	06	»700
	08	»700
	10	»700
1400	07	»900
	11	»900
	17	»900

Reference	Composition of glazing		
	Exterior glazing	Gas cavity	Interior glazing
4HT - 14 - 33.1 Standard glazing	4mm toughened GREEN	14 mm Argon	33.1 Laminated
Other glazings possible			
4H - 16 - 4T	4 mm toughened	16 mm Argon	4mm
4HT - 14 - 33.1	4 mm toughened NEUTRAL	14 mm Argon	33.1 Laminated
4H - 14 - 33.1	4 mm toughened	14 mm Argon	33.1 Laminated

\* :Glass GUARDIAN SUN GUARD HP PLUS 50

**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  
- Unblocking 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



**The weathertight connections on the roof must be determined according to the type of roof covering. They are delivered separately from the SHEV.**

## 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

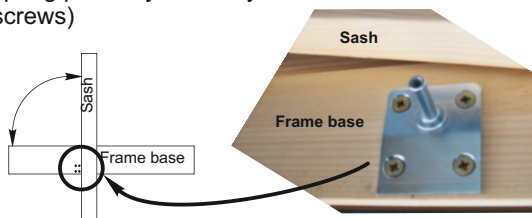
ALL RIGHTS RESERVED. OUR PRODUCTS MAY BE SUBJECT TO MODIFICATION. THEREFORE THIS DOCUMENT CANNOT BE CONSIDERED CONTRACTUAL. ALL MODELS ARE PATENTED. DO NOT LITTER THE PUBLIC HIGHWAY

### Installation of the window

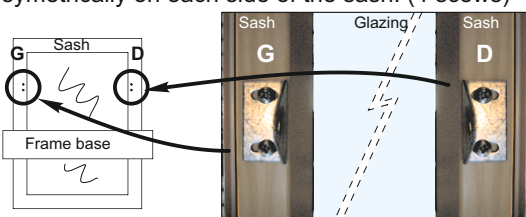
For instructions regarding the installation of the "roof window" outlet on your roof, see the installation manual provided by FAKRO®. (green envelope taped to the window pane)

### Installation of the equipment

Using the pre-drilled holes, fix the oil pneumatic spring pivots symmetrically on each side of the frame base. (8 screws)



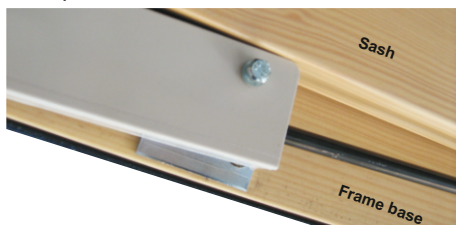
Using the pre-drilled holes, fix the swivel-mount brackets symmetrically on each side of the sash. (4 screws)



Put each spring into place inside its casing. The end of the body of the spring slots into the casing.



Put the whole thing into place on the pivot. Tighten the screw. Repeat on the other side.

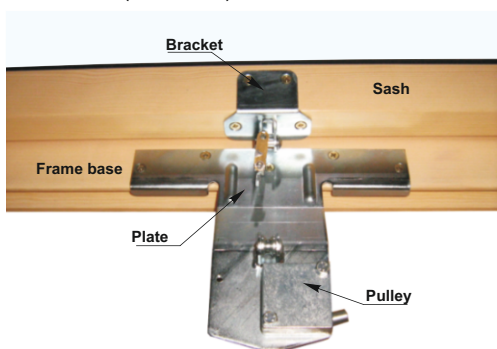


Put the head of the spring into place on its bracket, then tighten the screws. Repeat on the other side.



Using the pre-drilled holes, fix the bracket for the thermal fuse at the centre of the sash. (4 screws)

Using the pre-drilled holes, fix the cable guide plate onto the frame base. (5 screws)



### Installation of the deflectors

Remove the screws from the lower part of the FAKRO® frame base. Put into place the brackets for the deflectors under the FAKRO® frame base, then fasten them using the holes on the FAKRO® frame base as a guide for the spacing. (screws TF VBA Ø4 x 45)

Fix the deflector onto the brackets. (screws, nuts M5)

#### NOTE :

Window width 780 mm : 2 brackets  
Other window widths : 3 brackets



Remove the screws from the upper part of the FAKRO® frame base. Put the deflector into place and fasten it on top of the upper frame base of the FAKRO®. (screws TF VBA Ø4 x 45)

### Maintenance

**PRODUCT**, functional check to be done at least once a year :  
Carry out a triggering from the control device.  
Check that the window goes correctly into the safety position (opening to 90°)  
Clean the exterior of the window.  
Close the window.  
Proceed to the resetting of the control device.  
Check that the SHEV and its control device are in good condition.  
**INSTALLATION**, see according to norm NFS61-933

### Identification and markings

E.ALIM : power input  
E.TELE : distance control input  
E : transmission  
R : break

<p><b>DUPUY EQUIPEMENTS</b> 72400 La Ferté Bernard Tel : +33 (2) 43 60 78 60 Fax : +33 (2) 43 93 41 94 clients@de72.fr</p> <p><b>SHEV</b> - smoke and heat exhaust ventilator <b>EXUFAK</b> <b>EFxxxxxxM</b> Mechanical Energy Product manufactured in 2012</p>	<p><b>CE</b> 1396 Certificate N° 1396 CPD 026 Year 2008 In compliance with norm 12101-2:2003</p>	<p>Aa= x,xxm² WL 1500 SL 750 T (00) Re 1000 + 10000 B 300 F type B Therm. trigger : T=93°C Series N° : XXXXXXXXXX</p>	<p>Certification N° : NFxx/xxxx SHEV : roof mounted Dim. of opening : . . . x . . . h E.TELE /E. ALIM : Intrinsic energy F. dyn resist : 0.5 daN F. resetting max. : 100 daN Cable stroke : xxx mm</p> <p><b>NF</b> NF Smoke and Heat Exhaust Ventilator This mark certifies conformity to norm NF S 61-933-7 and NF S 61-933-7 in accordance with the rules for certification NF 405 of the values of the characteristics given in this technical file. <b>Certification Body</b> AFNOR Certification 11 Rue F. de Pressensé 93071 La Plaine SAINT DENIS CEDEX © 2010/02</p>
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### Specifications

"Aa" Surface : See table  
Wind load "WL" : 1500  
Snow load "SL" : 750  
Ambient temperature "T" : 00  
Reliability "Re" : 1 000 + 10 000 cycles of ventilation  
Resistance to heat "B Roof" : 300  
Reaction to fire : F  
Temp. of thermal triggering : 68 or 93°C  
Bearing plane angle : from 15° mini. to 60° maxi. in relation to the horizontal.  
SHEV mechanism type : Type B (open and close)  
Cable stroke : See table

### Technical Characteristics

Material . . . . . : Wood, steel, aluminium, glass, synthetic material, tin.  
Protection. . . . . : Varnish, paint, zinc coating.  
Glazing. . . . . : Double-glazed glass. (see table)

