	<b>Environmental declaration</b>	<b>Nr DS/OKP_06/14021/2017_EN</b>	<b>Release date: 06.04.2017</b>
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## **ENVIRONMENTAL DECLARATION**

### **Self-declared environmental claims Environmental labelling type II based on PN-EN ISO 14021 standard**

Maintaining a harmony between the industry and natural environment is perceived as an important criterion for corporate social responsibility. The impact of purchased products on the environment is increasingly important to customers and producers. The FAKRO Group which is one of the largest manufacturers of roof windows, flat roof windows, accessories for windows and loft ladders in the world strives to limit its impact on natural environment. FAKRO puts every effort to make procedures applied in the company eco-friendly and constantly monitors regulations and undertakes to obey the law, standards and the environmental protection requirements.

One of the methods aimed at continuous increase of public awareness in this field is developing environmental declaration in accordance with ISO 14000 standard.

FAKRO prepared its own environmental statement for its products in compliance with PN-EN ISO 14021 standard “Environmental labels and declarations. Self-declared environmental claims type II”.

### **PTP-V WINDOW**



## 1. Design of the product allowing disassembly

The PTP-V window has been designed in such a way that disassembly of the product is possible once its use is over. This significantly facilitates waste segregation and separating items that can be recycled.

## 2. Product with prolonged life cycle

### PTP-V window is equipped with toughened glass

All FAKRO windows come with external toughened glass in the glazing unit which is approx. 3 times stronger when compared to standard glass.



Toughened glass features resistance 2-4 times better than annealed glass and can withstand temperature differences up to 270 K, while annealed glass only 70 K.

Increased resistance of the toughened glass is ensured by providing to such roof windows lifetime hail resistance warranty.

## 3. Suitable for recycling

Some components of the window can be recycled thanks to the possibility of its disassembly once the product use is over.

Window packaging is 100% recyclable.

Products	Components	Disassembly	Percentage	Recyclable	Not Recyclable	
						
PTP – V size 78x118 cm	Frame, sash	Seal (TPE)	0,67 %	x		
		Metal	Aluminium	6,34%	x	
			Steel	21,51 %	x	
		Plastic details	POM	0,62 %	x	
			PA 6	0,06 %	x	
			PP	0,07 %	x	
			ABS	0,01 %	x	
	PCV	30,14 %	x			
	Wood	0,23 %	x			
	Glazing unit	Glass	39,03%	x		
		Molecular sieve	0,51 %		x*	
		Polyurethane	0,08 %		x*	
		Butyl	0,23 %		x*	
Spacer		0,50 %		x*		
<b>Overall window</b>			<b>100%</b>	<b>99 %</b>	<b>1 %</b>	
Packaging	Wood		15,53 %	x		
	Plastic details	PP	0,32 %	x		
		PE	8,38 %	x		
		PVC	7,07 %	x		
	Carton/paper		68,43 %	x		
	Steel		0,09 %	x		
Aluminium		0,18 %	x			
<b>Overall packaging</b>			<b>100 %</b>	<b>100 %</b>	<b>0 %</b>	

\* Waste should be returned to authorized recipients as other construction and demolition wastes according to Commission decision of 18 December 2014 amending Decision 2000/532/EC on the list of waste pursuant to Directive 2008/98/EC of the European Parliament and of

## 4. Content of recycled material

45.7% of the material in profiles of the PTP-V roof window comes from recycling. This increases environmental performance of FAKRO PVC windows



## 5. Reduced energy consumption

By introducing modifications such as increased thickness of the glazing unit and enhanced low emission coating, the PTP-V window features improved thermal insulation performance:

Heat transfer coefficient  $U_g$  improved by approx. 9%.



**Ample natural light.** The design of FAKRO roof windows provides appropriate illumination of the room within the loft space. Specially designed profiles of the frame and sash as well as an air inlet location in the upper part of the frame allows for the influx of high quantities of natural light.

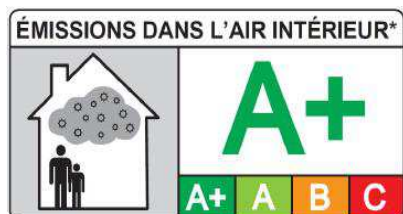


**Sustainable energy balance.** In addition to providing an effective light source, roof windows also act as means of passive heating in winter. The larger glazed area provided by FAKRO windows is correspondingly more effective in this respect, with the free thermal energy being retained by virtue of their energy-efficient design. Appropriate structure of FAKRO roof windows enables sustainable balance in terms of acquisition and loss thermal energy.

## 6. Low emission of volatile organic compounds

FAKRO FTP-V window received the highest (the best) emissivity class (A+) of emission of volatile organic compounds according to NF EN ISO 16000.

FAKRO roof windows are safe for users' health and feature very low emission of harmful chemical compounds.



\*Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

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