

# PRODUCT PASS

## 1 GENERAL EXPLANATION

The following paragraphs indicate the performances which can be declared on the Declaration of Performance (DoP) in accordance with Regulation (EU) no. 305/2011 of the European Parliament and of the Council of 9 March 2011.

The listed characteristics are the essential characteristics for external pedestrian doorsets according to hEN 14351-1:2006+A2:2016 Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets.

All essential characteristics should be mentioned on the DoP. Where no performance is required, NPDP (No Performance Declared) can be used.

The mentioned performances are performances which can be achieved for the given dimensions when the product is fabricated following the Reynaers instruction manual (catalogue). The performances as mentioned will meet the requirements of the majority of projects.

Higher performances for smaller dimensions or lower performances for larger dimensions might be possible. In this case contact your Reynaers office. For AWW performances, the maximum dimensions indicated in the system catalogue must be respected.

It is obviously allowed to declare lower performances than those mentioned in the product pass. E.g. when resistance to wind load of 1600 Pa was tested, also 1200 Pa can be declared.

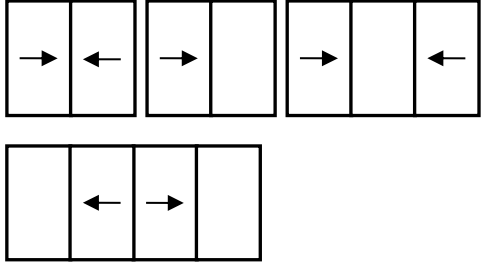
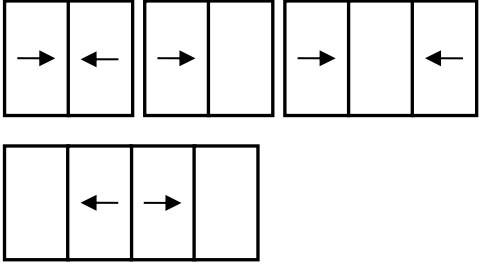
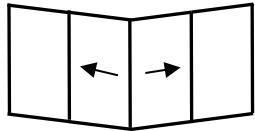
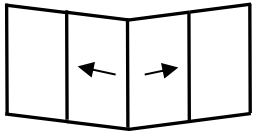
In the second part of the table the non-essential characteristics are indicated. These are the characteristics which give information about the performance of a product, but which are not legally required in any European country and thus not mandatory to declare.

## 2 NOTIFIED BODIES

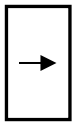
ID	Name	Address	Country
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0757	IFT ROSENHEIM	Theodor-Gietl-Strasse 7-9 83026 Rosenheim	Germany
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1234	EFFECTIS NEDERLAND	Brandpuntlaan Zuid 16, Postbus 554 2665 ZN Bleiswijk	Netherlands
1288	WINTTECH ENGINEERING LIMITED	Halesfield 2 Telford,Shropshire TF7 4QH	United Kingdom
1309	PRÜFINSTITUT SCHLÖSSER UND BESCHLÄGE, VELBERT	Wallstrasse 41 42551 Velbert	Germany
1488	INSTYTUT TECHNIKI BUDOWLANEJ	ul. Filtrowa 1 00-611 Warszawa	Poland
1671	PEUTZ	Lindenlaan 41, Molenhoek PO Box 66 6585 ZH MOOK	Netherlands
1749	TNO DEFENCE, SECURITY AND SAFETY	Lange Kleiweg 137, Postbus 45 2280 AA Rijswijk	Netherlands
1769	UNIVERSITY OF GENT	Sint-Pietersnieuwstraat 41 9000 Gent	Belgium
2211	INSTITUTO DE INVESTIGAÇÃO E DESENVOLVIMENTO TECNOLÓGICO PARA A CONSTRUÇÃO, ENERGIA, AMBIENTE E SUSTENTABILIDADE	Rua Pedro Hispano Pólo II da Universidade de Coimbra 3030-289 Coimbra	Portugal

### 3 VARIANTS

Different variants have been grouped based on similar design and following the guidelines of the harmonised standard.

HFP 147		HFP 179	
5.1	2-rail 	5.3	2-rail 
5.2	2-rail - Corner 	5.4	2-rail - Corner 

List of symbols:



Sliding vent



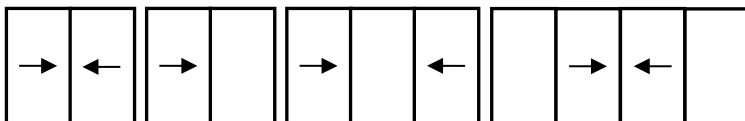
Fixed vent

### 4 EXPLANATIONS AND SYMBOLS

- H: Element Height
- B: Element Width
- Fh: Vent Height
- Fb: Vent Width
- npd: No Performance Declared
- CWFT: Classification Without Further Testing

## 5 PERFORMANCE

### 5.1 HFP 147, 2-rail

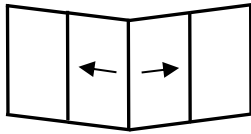


Characteristic		Performance		Notified body - Report	Limits (mm)	
<b>Essential characteristics</b>						
EN 14351-1	4.2	Resistance to wind load	<b>B4</b> (1600 Pa)		[0960] – 13.00838	FbxFh < 2369x3335
	4.5	Watertightness	<b>7A</b> (300 Pa) * <b>9A</b> (600 Pa) **		[0960] – 13.00611 [0960] – 13.00838	FbxFh < 2369x3335
	4.6	Dangerous substances	In the materials delivered by Reynaers, no dangerous substances as indicated in hEN 14351-1 are used.			
	4.7	Impact resistance	npd			
	4.8	Load-bearing capacity of safety devices	npd			
	4.9	Height and Width	See 6			
	4.11	Acoustic performance	Glass: <b>42</b> (-1;-6)	Sliding door: <b>35</b> (0;-1)	[0960] – 14.00088	WxH = 1303x2227
	4.12	Thermal transmittance	Ud to be calculated in function of the project. Pre-calculated U-values for dimensions 2000x2180mm can be found in the Uf-value tables. Uf-values are calculated under certification of BCCA: certificate BPCB-420-72-10077/2.			
	4.13	Radiation properties	These properties must be evaluated by the CE-label of the glass			
	4.14	Air permeability	<b>4</b>		[0960] – 13.00838	FbxFh < 2369x3335
<b>Non-essential characteristics</b>						
EN 14351-1	4.4.1	Reaction to fire	Anodized: <b>A1</b> Painted: <b>A2</b> Gaskets: <b>E</b>	EC decision 96/603/EC certificate P155748 [0432] – 230006500-4		
	4.16	Operating forces	<b>0</b>		[0960] – 13.00676	FbxFh < 2369x3335 459 kg
	4.17	Mechanical strength	npd			
	4.18	Ventilation	npd			
	4.19	Bullet resistance (BP version)	npd			
	4.20	Explosion resistance	npd			
	4.21	Resistance to repeated opening and closing	<b>3</b> (20.000)		[0960] – 13.00676	FbxFh < 2369x3335 459 kg
	4.22	Behaviour between different climates	npd			
4.23	Burglar resistance (AP version)	<b>RC2</b>		[0960] – 17.00914	See report	

\* Low bottom profile (106.1383.XX)

\*\* High bottom profile (106.1385.XX)

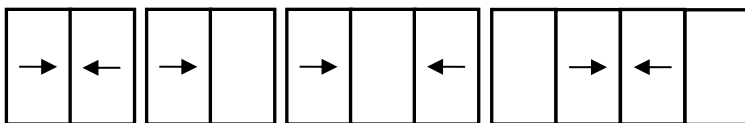
## 5.2 HFP 147, 2-rail – Corner



Characteristic		Performance	Notified body - Report	Limits (mm)	
<b>Essential characteristics</b>					
EN 14351-1	4.2	Resistance to wind load	<b>C2/B2</b> (800 Pa) <b>C3/B3</b> (1200 Pa) *	[1488] - LK00-00948/14/R57NK FbxFh < 2425x2650	
	4.5	Watertightness	<b>7A</b> (300 Pa)	[1488] - LK00-00948/14/R57NK FbxFh < 2425x2650	
	4.6	Dangerous substances	In the materials delivered by Reynaers, no dangerous substances as indicated in hEN 14351-1 are used.		
	4.7	Impact resistance	npd		
	4.8	Load-bearing capacity of safety devices	npd		
	4.9	Height and Width	See 6		
	4.11	Acoustic performance	npd		
	4.12	Thermal transmittance	Ud to be calculated in function of the project. Pre-calculated U-values for dimensions 2000x2180mm can be found in the Uf-value tables. Uf-values are calculated under certification of BCCA: certificate BPCB-420-72-10077/2.		
	4.13	Radiation properties	These properties must be evaluated by the CE-label of the glass		
	4.14	Air permeability	<b>4</b>	[1488] - LK00-00948/14/R57NK	FbxFh < 2425x2650
<b>Non-essential characteristics</b>					
EN 14351-1	4.4.1	Reaction to fire	Anodized: <b>A1</b> Painted: <b>A2</b> Gaskets: <b>E</b>	EC decision 96/603/EC certificate P155748 [0432] – 230006500-4	
	4.16	Operating forces	<b>0</b>	[0960] – 13.00676 FbxFh < 2369x3335 459 kg	
	4.17	Mechanical strength	npd		
	4.18	Ventilation	npd		
	4.19	Bullet resistance (BP version)	npd		
	4.20	Explosion resistance	npd		
	4.21	Resistance to repeated opening and closing	<b>3</b> (20.000)	[0960] – 13.00676	FbxFh < 2369x3335 459 kg
	4.22	Behaviour between different climates	npd		
	4.23	Burglar resistance (AP version)	<b>RC2</b>	[1136] - CAR 14234	See report

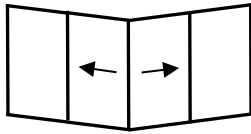
\* With additional profile

5.3 HFP 179, 2-rail



Characteristic		Performance		Notified body - Report	Limits (mm)	
<b>Essential characteristics</b>						
EN 14351-1	4.2	Resistance to wind load	<b>B4</b> (1600 Pa)	[0960] - SKG/K0104/JDI/cro/13.1335	FbxFh < 2369x3335	
	4.5	Watertightness	<b>9A</b> (600 Pa)	[0960] - SKG/K0104/JDI/cro/13.1335	FbxFh < 2369x3335	
	4.6	Dangerous substances	In the materials delivered by Reynaers, no dangerous substances as indicated in hEN 14351-1 are used.			
	4.7	Impact resistance	npd			
	4.8	Load-bearing capacity of safety devices	npd			
	4.9	Height and Width	See 6			
	4.11	Acoustic performance	Glass: <b>51</b> (-1;-5)	Sliding door: <b>42</b> (0;-2)	[0960] - 16.00848-3	WxH = 1300x2226
	4.12	Thermal transmittance	Ud to be calculated in function of the project. Pre-calculated U-values for dimensions 2000x2180mm can be found in the Uf-value tables. Uf-values are calculated under certification of BCCA: certificate BPCB-420-72-10077/2.			
	4.13	Radiation properties	These properties must be evaluated by the CE-label of the glass			
	4.14	Air permeability	<b>4</b>		[0960] - SKG/K0104/JDI/cro/13.1335	FbxFh < 2369x3335
<b>Non-essential characteristics</b>						
EN 14351-1	4.4.1	Reaction to fire	Anodized: <b>A1</b> Painted: <b>A2</b> Gaskets: <b>E</b>	EC decision 96/603/EC certificate P155748 [0432] – 230006500-4		
	4.16	Operating forces	npd			
	4.17	Mechanical strength	npd			
	4.18	Ventilation	npd			
	4.19	Bullet resistance (BP version)	npd			
	4.20	Explosion resistance	npd			
	4.21	Resistance to repeated opening and closing	npd			
	4.22	Behaviour between different climates	npd			
	4.23	Burglar resistance (AP version)	<b>RC2</b>		[1136] - CAR 14030 [0960] – 17.00914	See report

## 5.4 HFP 179, 2-rail – Corner

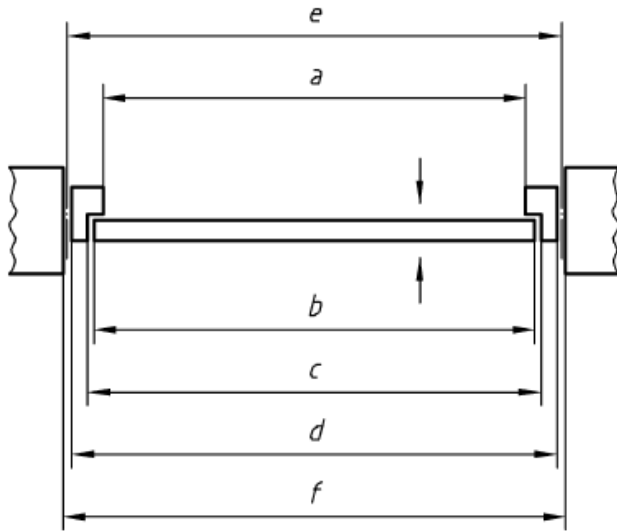


Characteristic		Performance	Notified body - Report	Limits (mm)	
<b>Essential characteristics</b>					
EN 14351-1	4.2	Resistance to wind load	<b>C2/B2</b> (800 Pa) <b>C3/B3</b> (1200 Pa) *	[1488] - 00-00948/14/R47NK	FbxFh < 2425x2650
	4.5	Watertightness	<b>4A</b> (150 Pa) <b>7A</b> (300 Pa)	[1488] - 00-00948/14/R47NK	FbxFh < 2425x2650
	4.6	Dangerous substances	In the materials delivered by Reynaers, no dangerous substances as indicated in hEN 14351-1 are used.		
	4.7	Impact resistance	npd		
	4.8	Load-bearing capacity of safety devices	npd		
	4.9	Height and Width	See 6		
	4.11	Acoustic performance	npd		
	4.12	Thermal transmittance	Ud to be calculated in function of the project. Pre-calculated U-values for dimensions 2000x2180mm can be found in the Uf-value tables. Uf-values are calculated under certification of BCCA: certificate BPCB-420-72-10077/2.		
	4.13	Radiation properties	These properties must be evaluated by the CE-label of the glass		
	4.14	Air permeability	<b>4</b>	[1488] - 00-00948/14/R47NK	FbxFh < 2425x2650
<b>Non-essential characteristics</b>					
EN 14351-1	4.4.1	Reaction to fire	Anodized: <b>A1</b> Painted: <b>A2</b> Gaskets: <b>E</b>	EC decision 96/603/EC certificate P155748 [0432] – 230006500-4	
	4.16	Operating forces	npd		
	4.17	Mechanical strength	npd		
	4.18	Ventilation	npd		
	4.19	Bullet resistance (BP version)	npd		
	4.20	Explosion resistance	npd		
	4.21	Resistance to repeated opening and closing	npd		
	4.22	Behaviour between different climates	npd		
	4.23	Burglar resistance (AP version)	npd		

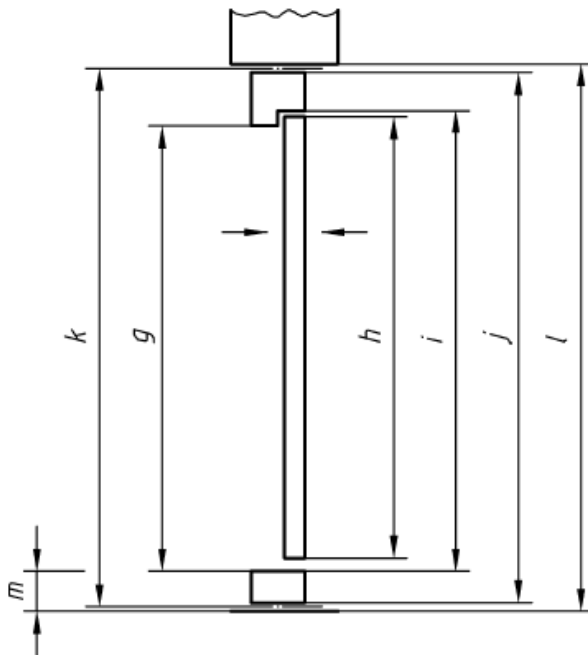
\* With additional profile

**6 RULE FOR DEFINITION OF CLEAR OPENING HEIGHT AND WIDTH**

The clear opening height  $g$  and clear opening width  $a$  are defined as indicated in following sketches out of EN 12519:2004.



**Figure 1/Figure 1/Bild 1**



**Figure 2/Figure 2/Bild 2**