

CP 45Pa (GR)

PRODUCT PASS

Date: **17-01-2024**

Language: **English**



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1 GENERAL EXPLANATION

The performances indicated in this product pass can be used for a Declaration of Performance (DoP) in accordance with EU Regulation no. 305/2011. The characteristics are in accordance with the harmonized product standard EN 14351-1:2006+A2:2016 (Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets).

At least one performance of an essential characteristic shall be mentioned on the DoP. Non-essential characteristics are not legally required in any European country and thus not mandatory to declare. Where no performance is declared "NPD" (No Performance Declared) can be used.

The performances indicated can be achieved for the configuration and dimensions as tested and when the product is fabricated in accordance with the instructions of Reynaers (system catalogue). It is obviously allowed to declare lower performances; e.g. when resistance to wind load of 1600 Pa was tested, also 1200 Pa can be declared for the same configuration and dimensions.

Higher performances for smaller dimensions, lower performances for larger dimensions, or similar performances for larger dimensions but with the appropriate selection of profiles and/or reinforcements are possible. Validate your performances and deflections, adhering to the maximum admissible dimensions indicated in the system catalogue.

2 NOTIFIED BODIES

ID	Name	Address	Country
0074	CENTRE D'EXPERTISE DU BÂTIMENT ET DES TRAVAUX PUBLICS	Domaine De Saint-Paul – 102, Route de Limours 78471 Saint-Remy-Les-Chevreuse Cedex	France
0432	MATERIALPRÜFUNGSAMT NORDRHEIN-WESTFALEN	Auf den Thränen 2 59597 Erwitte	Germany
0679	CENTRE SCIENTIFIQUE ET TECHNIQUE DU BÂTIMENT	84, Avenue Jean Jaurès Champs-sur-Marne F-77447 Marne-la-Vallée Cedex 2	France
0744	SOCOTEC	Les Quadrants – 3,Avenue du Centre – Guyancourt 78182 St-Quentin en Yvelines	France
0749	BELGIAN CONSTRUCTION CERTIFICATION ASSOCIATION	Aarlenstraat 53 1040 Brussel	Belgium
0757	IFT ROSENHEIM	Theodor-Gietl-Strasse 7-9 83026 Rosenheim	Germany
0845	DANISH INSTITUTE OF FIRE AND SECURITY TECHNOLOGY	Jernholmen, 12 2650 Hvidovre	Denmark
0960	SKG-IKOB	Poppenbouwing 56 4191 NZ Geldermalsen	Netherlands
1136	BELGIAN BUILDING RESEARCH INSITUTE	Lombardstraat 42 1000 Brussel	Belgium
1234	EFFECTIS NEDERLAND	Brandpuntlaan Zuid 16, Postbus 554 2665 ZN Bleiswijk	Netherlands
1288	WINTech 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

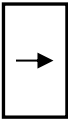
3 VARIANTS

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

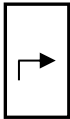
5.1	2-rail <div><div><div><div>→</div><div>←---</div></div><div><div>→</div><div></div></div><div><div>→</div><div></div><div>←</div></div></div><div><div><div>---→</div><div>←</div><div>→</div><div>←---</div></div><div><div></div><div>←</div><div>→</div><div></div></div></div></div>
5.2	Monorail <div><div><div>→</div><div></div></div><div><div>→</div><div></div><div>←</div></div><div><div></div><div>←</div><div>→</div><div></div></div></div>
5.3	3-rail <div><div><div>→</div><div>→</div><div>←</div></div><div><div>→</div><div>→</div><div></div></div></div>
5.4	4-rail & Flat bottom <div><div><div>→</div><div>→</div><div>→</div><div>←---</div></div><div><div>---→</div><div>←</div><div>←</div><div>←</div><div>→</div><div>→</div><div>→</div><div>←---</div></div></div>

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



Sliding vent



Lift sliding vent



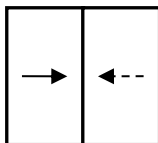
Fixed vent



Fixed pane monorail

5 PERFORMANCE

5.1 2-rail

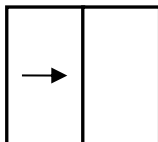


Characteristic			Performance		Notified body - Report		Tested size [mm]	
Essential characteristics								
EN 14351-1	4.2	Resistance to wind load	A2 (800 Pa) ** A4 (1600 Pa) ** C4 (1600 Pa) **		[0960] – 07.1011 [0074] – B565-5-5051-1 [0744] – 04.002/C		1384x2928 ⁽²⁾ 980x1924 984x2078	
	4.5	Watertightness	4A (150 Pa) 7B (300 Pa) 6A (250 Pa)		[0960] – 07.1011 [0074] – B565-5-5051-1 [0744] – 04.002/C		1384x2928 ⁽²⁾ 980x1924 984x2078	
	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 & width	See 6					
	4.11	Acoustic performance	Glass: 29 (-1;-3)	Sliding door: 30 (-1;-3)	[0757] – 162 34130/7		2670x2510	
	4.12	Thermal transmittance	Ud to be calculated in function of the project. 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	3 4		[0960] – 07.1011 [0744] – 04.002/C		1384x2928 ⁽²⁾ 984x2078	
Non-essential characteristics								
EN 14351-1	4.4.1	Reaction to fire	Anodized: A1 Painted: A2 Gaskets: E		EC decision 96/603/EC certificate EFR-21-001664A [0432] – 230006500-6			
	4.16	Operating forces	1		[0960] – 12.117		1384x2218, 118 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	2 (10 000)		[0960] – 12.117		1384x2218, 118 kg	
	4.22	Behaviour between different climates	npd					
4.23	Burglar resistance (AP version)	npd						

⁽²⁾ Recommended maximum size: see catalogue

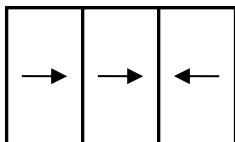
** Remark resistance to wind load: The inertia of the profile section must be chosen in function of the required performance.

5.2 Monorail



Characteristic			Performance	Notified body - Report	Tested size [mm]
Essential characteristics					
EN 14351-1	4.2	Resistance to wind load	B2 (800 Pa) **	[0960] – 10.1147	1070x2087
	4.5	Watertightness	4A (150 Pa)	[0960] – 10.1147	1070x2087
	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 & width	See 6		
	4.11	Acoustic performance	npd		
	4.12	Thermal transmittance	Ud to be calculated in function of the project. 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	3	[0960] – 10.1147	1070x2087
Non-essential characteristics					
EN 14351-1	4.4.1	Reaction to fire	Anodized: A1 Painted: A2 Gaskets: E	EC decision 96/603/EC certificate EFR-21-001664A [0432] – 230006500-6	
	4.16	Operating forces	1	[0960] – 12.117	1384x2218, 118 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	2 (10 000)	[0960] – 12.117	1384x2218, 118 kg
	4.22	Behaviour between different climates	npd		
	4.23	Burglar resistance (AP version)	npd		

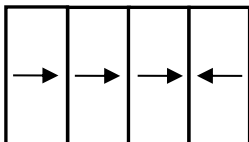
** Remark resistance to wind load: The inertia of the profile section must be chosen in function of the required performance.

5.3 3-rail

Characteristic			Performance	Notified body - Report	Tested size [mm]
Essential characteristics					
EN 14351-1	4.2	Resistance to wind load	C4 (1600 Pa) **	[0744] – 04.002/C	984x2078
	4.5	Watertightness	6A (250 Pa)	[0744] – 04.002/C	984x2078
	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 & width	See 6		
	4.11	Acoustic performance	npd		
	4.12	Thermal transmittance	Ud to be calculated in function of the project. 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	4	[0744] – 04.002/C	984x2078
Non-essential characteristics					
EN 14351-1	4.4.1	Reaction to fire	Anodized: A1 Painted: A2 Gaskets: E	EC decision 96/603/EC certificate EFR-21-001664A [0432] – 230006500-6	
	4.16	Operating forces	1	[0960] – 12.117	1384x2218, 118 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	2 (10 000)	[0960] – 12.117	1384x2218, 118 kg
	4.22	Behaviour between different climates	npd		
	4.23	Burglar resistance (AP version)	npd		

** Remark resistance to wind load: The inertia of the profile section must be chosen in function of the required performance.

5.4 4-rail & Flat bottom

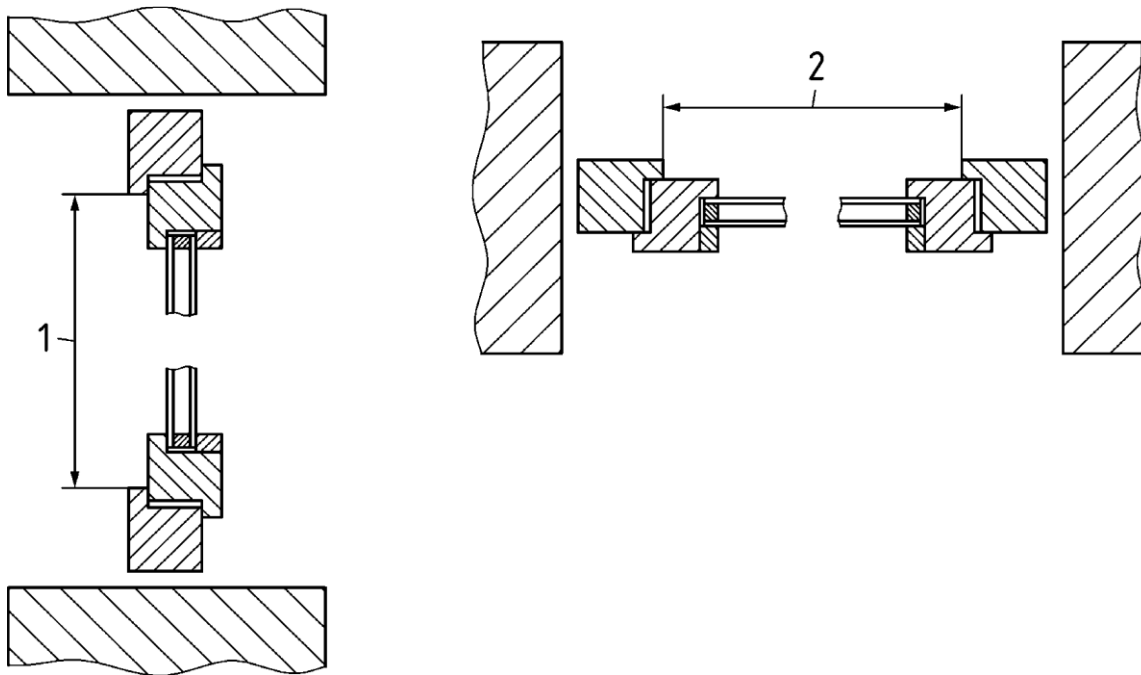


Characteristic			Performance	Notified body - Report	Tested size [mm]
Essential characteristics					
EN 14351-1	4.2	Resistance to wind load	A2 (800 Pa)	[0960] – 10.1156	984x2156
	4.5	Watertightness	0 (0 Pa)	[0960] – 10.1156	984x2156
	4.6	Dangerous substances	In the materials delivered by Reynaers, no 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 & width	See 6		
	4.11	Acoustic performance	npd		
	4.12	Thermal transmittance	Ud to be calculated in function of the project. 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	3	[0960] – 10.1156	984x2156
Non-essential characteristics					
EN 14351-1	4.4.1	Reaction to fire	Anodized: A1 Painted: A2 Gaskets: E	EC decision 96/603/EC certificate EFR-21-001664A [0432] – 230006500-6	
	4.16	Operating forces	1	[0960] – 12.117	1384x2218, 118 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	2 (10 000)	[0960] – 12.117	1384x2218, 118 kg
	4.22	Behaviour between different climates	npd		
	4.23	Burglar resistance (AP version)	npd		

** Remark resistance to wind load: The inertia of the profile section must be chosen in function of the required performance.

6 RULE FOR DEFINITION OF CLEAR OPENING HEIGHT AND WIDTH

The clear opening height 1 and clear opening width 2 are defined as indicated in following sketches of EN 12519:2018.



UPDATES

09/06/2023

	VARIANTS	Characteristic
EFR-21-001664A	5.1 ~ 5.4	4.4.1
230006500-6	5.1 ~ 5.4	4.4.1

17/01/2024

	VARIANTS	Characteristic
Text revision	GENERAL EXPLANATION	
Tested size [mm]	5.1 – 5.4	
Text revision	5.1 – 5.4	4.12