

## IV Product pass declaration of performance & CE marking

### IV.1 GENERAL EXPLANATION

Following paragraphs indicate the performances which can be declared on the Declaration of Performance (DoP) in accordance with the Regulation EU 305/2011 of the European Parliament and of the Council of 9 March 2011.

The listed essential characteristics are the essential characteristics mentioned in hEN 14351-1+A1:2010: Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics.

All essential characteristics should be mentioned on the DoP. Where no performance is required, NPD (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 evident that it is 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.

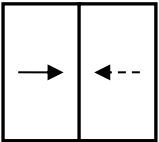
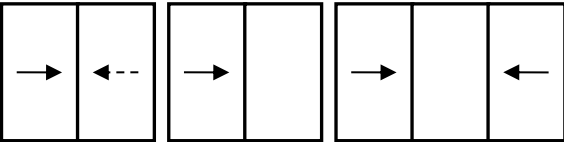
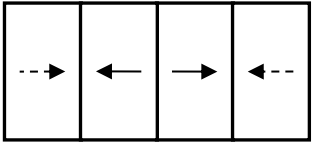
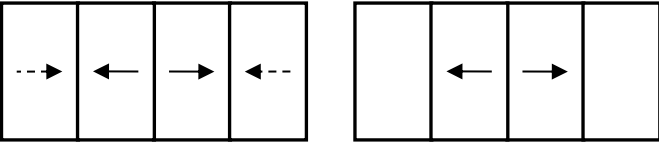
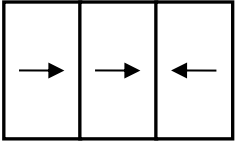
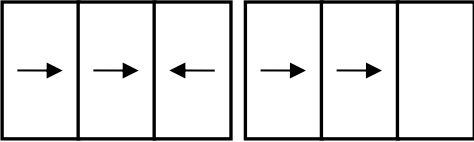
In the second part of the table the non essential characteristics are indicated. These are the characteristics which give information about the performance of a product, but which are not legally required in any European country and thus not mandatory to declare.

### IV.2 NOTIFIED BODIES

No	Notified body	Name	Adress	Country
[1]	0960	SKG	Poppenbouwing 56 4191 NZ Geldermalsen	Netherlands
[2]	0757	IFT ROSENHEIM	Theodor-Gietl-Strasse 7-9 83026 Rosenheim	Germany
[3]	1488	INSTYTUT TECHNIKI BUDOWLANEJ (ITB)	ul. Filtrawa 1 00-611 Warszawa	Poland
[4]	1136	BELGIAN BUILDING RESEARCH INSITUTE (BBRI)	Lombardstraat 42 1000 Brussel	Belgium
[5]	1769	UNIVERSITY OF GENT	Sint-Pietersnieuwstraat 41 9000 Gent	Belgium
[6]	0432	MATERIALPRÜFUNGSAMT NORDRHEIN-WESTFALEN (MPA NRW)	Auf den Thränen 2 59597 Erwitte	Germany
[7]	1288	WINTTECH ENGINEERING LIMITED	Halesfield 2 Telford, Shropshire TF7 4QH	United Kingdom
[8]	0679	CENTRE SCIENTIFIQUE ET TECHNIQUE DU BÂTIMENT (CSTB)	84, Avenue Jean Jaurès Champs-sur-Marne F-77447 Marne-la-Vallée Cedex 2	France
[9]	0074	GINGER CEBTP	ZAC La Clef-de-Saint-Pierre 12, avenue Gay-Lussac 78990 Elancourt	France
[10]	0744	SOCOTEC	Les Quadrants – 3, Avenue du Centre – Guyancourt 78182 St-Quentin en Yvelines	France
[11]	1671	PEUTZ	Lindenlaan 41 – Molenhoek PO Box 66 6585 ZH Mook	Netherlands
[12]	1749	TNO DEFENCE, SECURITY AND SAFETY	Lange Kleiweg 137 Postbus 45 2280 AA Rijswijk	Netherlands
[13]	0749	BELGIAN CONSTRUCTION CERTIFICATION ASSOCIATION (BCCA)	Aarlenstraat 53 1040 Brussel	Belgium
[14]	1309	PRÜFINSTITUT SCHLÖSSER UND BESCHLÄGE, VELBERT (PIV)	Wallstrasse 41 42551 Velbert	Germany

## IV.3 VARIANTS

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

	Opening type	Covered variants
IV.5.1	 <p>Slide</p>	
IV.5.2	 <p>Slide 4 Vent</p>	
IV.5.3	 <p>3 rail slide</p>	

Remark resistance to wind load:

The inertia of the profile section must be chosen in function of the required performance.

Remark burglar resistance:

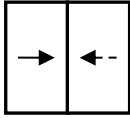
Not all configurations have classification RC2. Please consult the burglar resistance (test) reports.

## IV.4 EXPLANATIONS AND SYMBOLS

H	Element Height
B	Element Width
Fh	Vent Height
Fb	Vent Width
npd	No Performance Declared

## IV.5 PERFORMANCE

### IV.5.1 Slide

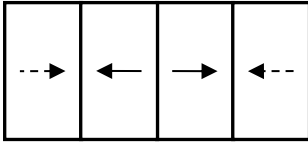


Characteristic	No	Classification	Notified body - Report	Limits (mm)
<b>Essential characteristics</b>				
Watertightness (EN 12208)	4.5	<b>6B</b> (250 Pa)	[9] – BEB1.D.5013-4 [9] – BEB1.E.5018-2	<b>FbxFh&lt;1177x2220</b>
Dangerous substances	4.6	In the materials delivered by Reynaers, no dangerous substances as indicated in hEN14351-1 are used		
Resistance to wind load (EN 12210)	4.2	<b>B4</b> (1600 Pa) <b>C4</b> (1600 Pa)	[9] – BEB1.D.5013-4 [9] – BEB1.E.5018-2	<b>FbxFh&lt;1177x2220</b>
Impact resistance (EN 13049)	4.7	npd		
Load-bearing capacity of safety devices (EN 948)	4.8	npd		
Height and width	4.9	<b>Height:</b> <b>Width:</b>	See IV.6	
Acoustic performance (EN ISO 140-3 & EN ISO 717-1)	4.11	<b>Glass</b>	<b>Sliding door</b>	<b>BxH = 1850x2180</b>
		4/20/4 4/16/6 4/16/10 4/16/44.2* 12/15/44.2* 8/16/44.2*	31 (-1;-5) 34 (-1;-4) 35 (-1;-4) 36 (-2;-5) 38 (-2;-4) 38 (-2;-5)	
Thermal transmittance (EN ISO 10077-1)	4.12	Ud to be calculated in function of the project. Pre-calculated U-values for dimensions 2000*2180mm can be found in the Uf-value tables. Uf-values are calculated under certification of BCCA [13]. Certificate BPCB - 420 - 72 - 10077/2 REYN - 02.		
Radiation properties (EN 410)	4.13	These properties must be evaluated by the CE-label of the glass		
Air permeability (EN 12207)	4.14	<b>4</b> <b>3</b>	[9] – BEB1.D.5013-4 [9] – BEB1.E.5018-2	<b>FbxFh&lt;1177x2220</b>
<b>Non-essential characteristics</b>				
Reaction to fire (EN 13501-1)	4.4	Painted alu. profile: <b>A2</b> Gaskets: <b>E</b>	<b>Certificate P155748</b> [6] – 230006500-6	
Operating forces (EN 13115)	4.16	<b>1</b>	[8] – BV14-296	<b>FbxFh&lt;1172x2220</b> <b>80 kg</b>
Mechanical strength (EN 13115)	4.17	<b>2</b>	[8] – BV14-296	<b>FbxFh&lt;1172x2220</b>
Ventilation (EN 13141-1)	4.18	npd		
Bullet resistance (EN 1522)	4.19	npd		
Explosion resistance (EN 13123-1 & EN 13123-2)	4.20	npd		
Resistance to repeated opening and closing (EN 12400)	4.21	<b>2</b> (10 000)	[8] – BV14-296	<b>FbxFh&lt;1172x2220</b> <b>80 kg</b>
Behaviour between different climates (EN 12219)	4.22	npd		
Burglar resistance (EN 1627) AP version	4.23	<b>RC 2</b> (*1)	[14] – 45-42/14 [14] – 45-41/14	See report

\* Acoustic PVB layer (Stratophone or equivalent)

(\*1) RC2 only for XQ and XQX

## IV.5.2 Slide 4 Vent

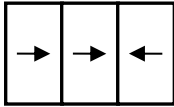


Characteristic	No	Classification	Notified body - Report	Limits (mm)
<b>Essential characteristics</b>				
Watertightness (EN 12208)	4.5	<b>5B</b> (200 Pa) <b>7B</b> (300 Pa)**	<b>[9] – BEB1.D.5013-3</b> <b>[9] – BEB1.E.5018-1</b>	<b>FbxFh&lt;896x2220</b>
Dangerous substances	4.6	In the materials delivered by Reynaers, no dangerous substances as indicated in hEN14351-1 are used		
Resistance to wind load (EN 12210)	4.2	<b>C3</b> (1200 Pa)	<b>[9] – BEB1.D.5013-3</b>	<b>FbxFh&lt;896x2220</b>
Impact resistance (EN 13049)	4.7	npd		
Load-bearing capacity of safety devices (EN 948)	4.8	npd		
Height and width	4.9	<b>Height:</b> <b>Width:</b>	<b>See IV.6</b>	
Acoustic performance (EN ISO 140-3 & EN ISO 717-1)	4.11	<b>Glass</b>	<b>Sliding door</b>	<b>BxH = 1850x2180</b>
		4/20/4 4/16/6 4/16/10 4/16/44.2* 12/15/44.2* 8/16/44.2*	31 (-1;-5) 34 (-1;-4) 35 (-1;-4) 36 (-2;-5) 38 (-2;-4) 38 (-2;-5)	
Thermal transmittance (EN ISO 10077-1)	4.12	Ud to be calculated in function of the project. Pre-calculated U-values for dimensions 2000*2180mm can be found in the Uf-value tables. Uf-values are calculated under certification of BCCA [13]. Certificate BPCB - 420 - 72 - 10077/2 REYN - 02.		
Radiation properties (EN 410)	4.13	These properties must be evaluated by the CE-label of the glass		
Air permeability (EN 12207)	4.14	<b>4</b>	<b>[9] – BEB1.D.5013-3</b>	<b>FbxFh&lt;896x2220</b>
<b>Non-essential characteristics</b>				
Reaction to fire (EN 13501-1)	4.4	Painted alu. profile: <b>A2</b> Gaskets: <b>E</b>	<b>Certificate P155748</b> <b>[6] – 230006500-6</b>	
Operating forces (EN 13115)	4.16	<b>1</b>	<b>[8] – BV14-296</b>	<b>FbxFh&lt;1172x2220</b> <b>80 kg</b>
Mechanical strength (EN 13115)	4.17	<b>2</b>	<b>[8] – BV14-296</b>	<b>FbxFh&lt;1172x2220</b>
Ventilation (EN 13141-1)	4.18	npd		
Bullet resistance (EN 1522)	4.19	npd		
Explosion resistance (EN 13123-1 & EN 13123-2)	4.20	npd		
Resistance to repeated opening and closing (EN 12400)	4.21	<b>2</b> (10 000)	<b>[8] – BV14-296</b>	<b>FbxFh&lt;1172x2220</b> <b>80 kg</b>
Behaviour between different climates (EN 12219)	4.22	npd		
Burglar resistance (EN 1627)	4.23	npd		

\* Acoustic PVB layer (Stratophone or equivalent)

\*\* Special drainage (not standard)

## IV.5.3 3 rail slide



Characteristic	No	Classification	Notified body - Report	Limits (mm)
<b>Essential characteristics</b>				
Watertightness (EN 12208)	4.5	<b>5B</b> (200 Pa)	<b>[9] – BEB1.D.5039-2</b>	<b>FbxFh&lt;1172x2220</b>
Dangerous substances	4.6	In the materials delivered by Reynaers, no dangerous substances as indicated in hEN14351-1 are used		
Resistance to wind load (EN 12210)	4.2	<b>B3</b> (1200 Pa)	<b>[9] – BEB1.D.5039-2</b>	<b>FbxFh&lt;1172x2220</b>
Impact resistance (EN 13049)	4.7	npd		
Load-bearing capacity of safety devices (EN 948)	4.8	npd		
Height and width	4.9	<b>Height:</b> <b>Width:</b>	See IV.6	
Acoustic performance (EN ISO 140-3 & EN ISO 717-1)	4.11	<b>Glass</b>	<b>Sliding door</b>	<b>BxH = 1850x2180</b>
		4/20/4 4/16/6 4/16/10 4/16/44.2* 12/15/44.2* 8/16/44.2*	31 (-1;-5) 34 (-1;-4) 35 (-1;-4) 36 (-2;-5) 38 (-2;-4) 38 (-2;-5)	
Thermal transmittance (EN ISO 10077-1)	4.12	Ud to be calculated in function of the project. Uf-values are calculated under certification of BCCA [13]. Certificate BPCB - 420 - 72 - 10077/2 REYN - 02.		
Radiation properties (EN 410)	4.13	These properties must be evaluated by the CE-label of the glass		
Air permeability (EN 12207)	4.14	<b>4</b>	<b>[9] – BEB1.D.5039-2</b>	<b>FbxFh&lt;1172x2220</b>
<b>Non-essential characteristics</b>				
Reaction to fire (EN 13501-1)	4.4	Painted alu. profile: <b>A2</b> Gaskets: <b>E</b>	<b>Certificate P155748</b> <b>[6] – 230006500-6</b>	
Operating forces (EN 13115)	4.16	<b>1</b>	<b>[8] – BV14-296</b>	<b>FbxFh&lt;1172x2220</b> <b>80 kg</b>
Mechanical strength (EN 13115)	4.17	<b>2</b>	<b>[8] – BV14-296</b>	<b>FbxFh&lt;1172x2220</b>
Ventilation (EN 13141-1)	4.18	npd		
Bullet resistance (EN 1522)	4.19	npd		
Explosion resistance (EN 13123-1 & EN 13123-2)	4.20	npd		
Resistance to repeated opening and closing (EN 12400)	4.21	<b>2</b> (10 000)	<b>[8] – BV14-296</b>	<b>FbxFh&lt;1172x2220</b> <b>80 kg</b>
Behaviour between different climates (EN 12219)	4.22	npd		
Burglar resistance (EN 1627)	4.23	npd		

\* Acoustic PVB layer (Stratophone or equivalent)

## IV.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:

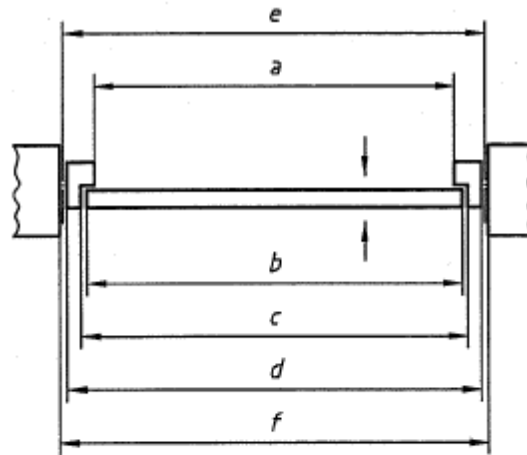


Figure 1/Figure 1/Bild 1

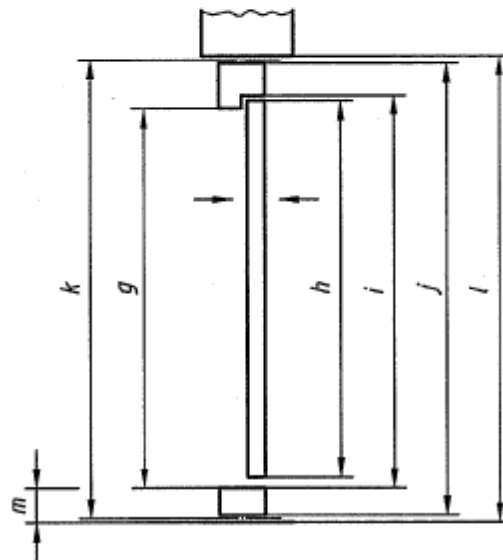


Figure 2/Figure 2/Bild 2