# **CS 77 Doors**

PRODUCT PASS

Date: **08-06-2023** 

Language: English







#### 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, 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 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	
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			
0749	BELGIAN CONSTRUCTION CERTIFICATION ASSOCIATION  Aarlenstraat 53 1040 Brussel			
0757	IFT ROSENHEIM	Theodor-Gietl-Strasse 7-9 83026 Rosenheim	Germany	
0845	DANISH INSTITUTE OF FIRE AND SECURITY TECHNOLOGY  Jernholmen, 12 2650 Hvidovre			
0960	SKG-IKOB	Poppenbouwing 56 4191 NZ Geldermalsen		
1136	BELGIAN BUILDING RESEARCH INSITUTE	Lombardstraat 42 1000 Brussel	Belgium	
1234	EFECTIS 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

Opening type		Covered variants	
Single-inward opening	5.1	5.2	5.3
Single-outward opening	5.4	5.5	5.6
Double-inward opening	5.7	5.8	5.9
Double-outward opening	5.10	5.11	5.12

Remark: the pictures shown of the different bottom solutions do not always represent the real bottom solution for this series, but are just a general sketch to give an indication which type of bottom solution is meant

#### 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

<sup>&</sup>lt;sup>(1)</sup> Impact resistance only valid with tubular or L-shaped glazing beads



# 5 PERFORMANCE

# 5.1 Flush doors / Single-inward opening / Brush





		Characteristic	Performance	Notified body - Report	Limits (mm)				
			Essential chara	cteristics					
	4.2	Resistance to wind load	<b>C2</b> (800 Pa)	[0960] - SKG/HRU/cbo/10.0106-1	FbxFh < 1352x2204				
	4.5	Watertightness	<b>4A</b> (150 Pa)	[0960] - SKG/HRU/cbo/10.0106-1	FbxFh < 1352x2204				
	4.6	Dangerous substances	In the materials deliv	In the materials delivered by Reynaers, no dangerous s in hEN 14351-1 are used.					
	4.7	Impact resistance	<b>5</b> <sup>(1)</sup>	[0960] – 09.1170	FbxFh > 604x1739				
EN 14351-1	4.8	Load-bearing capacity of safety devices	Pass	[0960] - 12.1060 rev A	FbxFh < 1076x2600				
EN 14	4.9	Height and Width		See 6					
	4.11	Acoustic performance	Doors: 23 (-1;-2)	1 107571 - 19-000113-0009					
	4.12	Thermal transmittance	Ud to be calculated in function of the project. Pre-calculated U-values for dimensions 1230x2180mm 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 proper	E-label of the glass					
	4.14	Air permeability	2	[0960] - SKG/HRU/cbo/10.0106-1	FbxFh < 1352x2204				
			Non-essential cha	racteristics					
	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	2	[0960] - 12.1060 rev A	FbxFh < 1076x2600 129 kg				
	4.17	Mechanical strength	4	[0960] - 12.1060 rev A	FbxFh < 1076x2600 129 kg				
-	4.18	Ventilation		npd					
EN 14351-1	4.19	Bullet resistance (BP version) (BP version)	FB4 FSG Kalashnikov	ES-210614a ES-210722b ES-210722a	Remark: classes S or NS depending on ammunition				
ū	4.20	Explosion resistance		npd					
	4.21	Resistance to repeated opening and closing	<b>6</b> (200 000)	[0960] - 12.1060 rev A	FbxFh < 1076x2600 129 kg				
	4.22	Behaviour between different climates		npd					
	4.23	Burglar resistance (AP version) (AP version)	RC2 WK2/RC2 RC3	[0960] – SKGIKOB.0837.0285 [1309] - 22-27/10.122 [1136] – CAR 17266	See report				





# 5.2 Flush doors / Single-inward opening / Bottom profile





		Characteristic	Perform	ance	Notified body	- Report	Limits (mm)		
			Essen	tial charact	eristics				
	4.2	Resistance to wind load	<b>C2</b> (800	) Pa)	[0960] - 15.	00090 F	FbxFh < 1400x2600		
	4.5	Watertightness	<b>7A</b> (300	) Pa)	[0960] - 15.	00090 F	FbxFh < 1400x2600		
	4.6	Dangerous substances	In the mate	erials delive	red by Reynaers, in hEN 14351		stances as indicated		
	4.7	Impact resistance	5 (1)	)	[0960] – 09	.1170	FbxFh > 604x1739		
1-1	4.8	Load-bearing capacity of safety devices	Pas	s	[0960] - 12.10	60 rev A F	FbxFh < 1076x2600		
EN 14351-1	4.9	Height and Width			e 6				
ш	4.11	Acoustic performance	Glass: 34 (-1;-4) 41 (-2;-4) 50 (-2;-8)	Doors: 36 (-2;-5 37 (-2;-4 41 (-1;-4	) PR(	02	bxFh < 891x2068 ~ 1304x2942		
	4.12	Thermal transmittance	Ud to be dimension	Ud to be calculated in function of the project. Pre-calculated U-values for dimensions 1230x2180mm 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	The	se properti	ted by the CE-labe	el of the glass			
	4.14	Air permeability	4		[0960] - 15.00090		FbxFh < 1400x2600		
			Non-ess	ential chara	acteristics				
	4.4.1	Reaction to fire	Anodize Painted Gasket	l: <b>A2</b>	EC decision 96 certificate EFR-2 [0432] – 2300	1-001664A			
	4.16	Operating forces	2		[0960] - 12.1060 rev A		FbxFh < 1076x2600 129 kg		
	4.17	Mechanical strength	4		[0960] - 12.10	60 rev A	FbxFh < 1076x2600 129 kg		
7	4.18	Ventilation			np	d			
EN 14351-1	4.19	Bullet resistance (BP version) (BP version)	FB <sup>2</sup> FS0 Kalashr	3	ES-2106 ES-2107 ES-2107	22b	emark: classes S or NS depending on ammunition		
Ū	4.20	Explosion resistance			np	d			
	4.21	Resistance to repeated opening and closing	6 (200 0	00)	[0960] - 12.10	60 rev A	FbxFh < 1076x2600 129 kg		
	4.22	Behaviour between different climates			np				
	4.23	Burglar resistance (AP version) (AP version)	WK2/F	RC2 [0960] – SKGIKOB.0837.0285. WK2/RC2 [1309] - 22-27/10.122 RC3 [1136] – CAR 17266		27/10.122	See report		





# 5.3 Flush doors / Single-inward opening / Automatic bottom seal





		Characteristic	Perform	ance	Not	ified body - Report		Limits (mm)
			Essen	tial charac	teristic	s		
	4.2	Resistance to wind load	<b>C2</b> (800	) Pa)	SK	[0960] - G/HRU/cbo/11.0635	Fb	xFh < 1352 x 2500
	4.5	Watertightness	<b>3A</b> (100 Pa)		SK	[0960] - G/HRU/cbo/11.0635	Fb	xFh < 1352 x 2500
	4.6	Dangerous substances	In the mate	erials delive		Reynaers, no dangerous hEN 14351-1 are used.	s subs	stances as indicated
	4.7	Impact resistance	5 <sup>(1)</sup>	)		[0960] – 09.1170	F	bxFh > 604x1739
51-1	4.8	Load-bearing capacity of safety devices	Pas	s	[09	960] - 12.1060 rev A	FI	oxFh < 1076x2600
EN 14351-1	4.9	Height and Width				See 6		
_	4.11	Acoustic performance	Glass: 34 (-1;-4) 41 (-2;-4) 50 (-2;-8)	34 (-1;-4) 33 (-2;-5 41 (-2;-4) 34 (0;-2		[0757] – 12-000113- PR02		oxFh < 891x2068 ~ 1200x2942
	4.12	Thermal transmittance	dimension	Ud to be calculated in function of the project. Pre-calculated U-values for dimensions 1230x2180mm 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	The	These properties must be evaluated by the C			E-labe	l of the glass
	4.14	Air permeability	2		[0960] - SKG/HRU/cbo/11.0635		Fb	xFh < 1352 x 2500
			Non-ess	ential char	acteris	tics		
	4.4.1	Reaction to fire	Anodize Painted Gasket	l: <b>A2</b>	certifi	decision 96/603/EC cate EFR-21-001664A [32] – 230006500-6		
	4.16	Operating forces	2		[09	[0960] - 12.1060 rev A		oxFh < 1076x2600 129 kg
	4.17	Mechanical strength	4		[09	960] - 12.1060 rev A	FI	oxFh < 1076x2600 129 kg
7	4.18	Ventilation				npd		
EN 14351-1	4.19	Bullet resistance (BP version) (BP version)	FB <sup>2</sup> FS0 Kalashr	3		ES-210614a ES-210722b ES-210722a		emark: classes S or NS depending on ammunition
ū	4.20	Explosion resistance				npd		
	4.21	Resistance to repeated opening and closing	6 (200 0	00)	[09	960] - 12.1060 rev A	FbxFh < 1076x2600 129 kg	
	4.22	Behaviour between different climates			npd			
	4.23	Burglar resistance (AP version) (AP version)	WK2/F	RC2 [0960] – SKGIKOB.0837.0285.0 WK2/RC2 [1309] - 22-27/10.122 RC3 [1136] – CAR 17266		5.06	See report	





# 5.4 Flush doors / Single-outward opening / Brush





		Characteristic	Performance	Notified body - Report	Limits (mm)				
			Essential chara	cteristics					
	4.2	Resistance to wind load	<b>C2</b> (800 Pa)	[0960] - SKG/HRU/cbo/10.0106-1	FbxFh < 1352x2204				
	4.5	Watertightness	<b>4A</b> (150 Pa)	[0960] - SKG/HRU/cbo/10.0106-1	FbxFh < 1352x2204				
	4.6	Dangerous substances	In the materials deliv	ered by Reynaers, no dangerous in hEN 14351-1 are used.	s substances as indicated				
	4.7	Impact resistance	<b>5</b> <sup>(1)</sup>	[0960] – 09.1170	FbxFh > 604x1739				
351-1	4.8	Load-bearing capacity of safety devices	Pass	[0960] – 15.00320	FbxFh < 1408x3008				
EN 14351-1	4.9	Height and Width							
	4.11	Acoustic performance	Doors: 23 (-1;-2)	[0757] – 12-000113-PR02	FbxFh < 891x2068 ~ 1304x2942				
	4.12	Thermal transmittance	Ud to be calculated in function of the project. Pre-calculated U-values for dimensions 1230x2180mm 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 proper	E-label of the glass					
	4.14	Air permeability	2	[0960] - SKG/HRU/cbo/10.0106-1	FbxFh < 1352x2204				
			Non-essential cha	racteristics					
	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	2	[0960] – 15.00320	FbxFh < 1408x3008 255 kg				
	4.17	Mechanical strength	4	[0960] – 15.00320	FbxFh < 1408x3008 255 kg				
7	4.18	Ventilation		npd					
EN 14351-1	4.19	Bullet resistance (BP version) (BP version)	FB4 FSG Kalashnikov	ES-210614a ES-210722b ES-210722a	Remark: classes S or NS depending on ammunition				
Ш	4.20	Explosion resistance	npd						
	4.21	Resistance to repeated opening and closing	<b>8</b> (1.000.000)	[0960] – 15.00320	FbxFh < 1408x3008 255 kg				
	4.22	Behaviour between different climates		npd					
	4.23	Burglar resistance (AP version) (AP version)	RC2 WK2/RC2 RC3	[0960] – SKGIKOB.0837.0285 [1309] - 22-27/10.122 [1136] – CAR 17266	See report				





# 5.5 Flush doors / Single-outward opening / Bottom profile





		Characteristic	Perform	ance	N	Notified body - Report		Limits (mm)	
			Essen	tial charact	teris	stics			
	4.2	Resistance to wind load	C3 (120) C2 (800			[0960] – 12.1063 [0960] – 23.00580		oxFh < 1400x3000 oxFh < 1086x2360	
	4.5	Watertightness	<b>4A</b> (150 <b>9A</b> (600			[0960] – 12.1063 [0960] – 23.00580		oxFh < 1400x3000 oxFh < 1086x2360	
	4.6	Dangerous substances	In the mate	erials delive		by Reynaers, no dangerous in hEN 14351-1 are used.	subs	tances as indicated	
	4.7	Impact resistance	5 (1)	)		[0960] – 09.1170	F	bxFh > 604x1739	
51-1	4.8	Load-bearing capacity of safety devices	Pas	s		[0960] – 15.00320	Fl	oxFh < 1408x3008	
EN 14351-1	4.9	Height and Width		See 6					
Ш	4.11	Acoustic performance	Glass: Doors: 34 (-1;-4) 36 (-2;-5 41 (-2;-4) 37 (-2;-4 50 (-2;-8) 41 (-1;-4		Ó	PR02		oxFh < 891x2068 ~ 1304x2942	
	4.12	Thermal transmittance	dimension	Ud to be calculated in function of the project. Pre-calculated U-values for dimensions 1230x2180mm 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	The	These properties must be evaluated by the CE				l of the glass	
	4.14	Air permeability	4			[0960] - 12.1063 [0960] - 23.00580	FbxFh < 1400x3000 FbxFh < 1086x2360		
			Non-ess	ential chara	acte	ristics			
	4.4.1	Reaction to fire	Anodize Painted Gasket	l: <b>A2</b>	cer	EC decision 96/603/EC rtificate EFR-21-001664A [0432] – 230006500-6			
	4.16	Operating forces	2			[0960] – 15.00320	Fl	oxFh < 1408x3008 255 kg	
	4.17	Mechanical strength	4			[0960] – 15.00320	Fl	oxFh < 1408x3008 255 kg	
<u>-</u>	4.18	Ventilation				npd			
EN 14351-1	4.19	Bullet resistance (BP version) (BP version)	FB <sup>2</sup> FS0 Kalashr	3		ES-210614a ES-210722b ES-210722a		emark: classes S or NS depending on ammunition	
ш	4.20	Explosion resistance				npd			
	4.21	Resistance to repeated opening and closing	<b>8</b> (1.000.000)			[0960] – 15.00320	FbxFh < 1408x3008 255 kg		
	4.22	Behaviour between different climates				npd			
	4.23	Burglar resistance (AP version) (AP version)	RC2 WK2/F RC3	RC2	[09	960] – SKGIKOB.0837.0285 [1309] - 22-27/10.122 [1136] – CAR 17266	5.06	See report	

 $<sup>^{\</sup>mbox{\scriptsize (2)}}\,\mbox{Air}$  permeability only valid for positive pressure





# 5.6 Flush doors / Single-outward opening / Automatic bottom seal





		Characteristic	Perform	ance	N	otified body - Report		Limits (mm)
			Essent	tial charact	terist	ics		
	4.2	Resistance to wind load	<b>C2</b> (800	Pa)	SI	[0960] - KG/HRU/cbo/11.0635	Ft	oxFh < 1352x2500
	4.5	Watertightness	<b>3A</b> (100	Pa)	SI	[0960] - KG/HRU/cbo/11.0635	Fk	oxFh < 1352x2500
	4.6	Dangerous substances	In the mate	erials delive		y Reynaers, no dangerous n hEN 14351-1 are used.	subs	tances as indicated
	4.7	Impact resistance	5 (1)			[0960] – 09.1170	F	bxFh > 604x1739
51-1	4.8	Load-bearing capacity of safety devices	Pas	s		[0960] – 15.00320	Fl	oxFh < 1408x3008
EN 14351-1	4.9	Height and Width				See 6		
ш	4.11	Acoustic performance	Glass: 34 (-1;-4) 41 (-2;-4) 50 (-2;-8)	34 (-1;-4) 33 (-2;-5 41 (-2;-4) 34 (0;-2)		PR02		oxFh < 891x2068 ~ 1200x2942
	4.12	Thermal transmittance	Ud to be dimension	Ud to be calculated in function of the project. Pre-calculated U-values for dimensions 1230x2180mm 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	The	These properties must be evaluated by			-label	l of the glass
	4.14	Air permeability	2		SI	[0960] - SKG/HRU/cbo/11.0635		oxFh < 1352x2500
			Non-esse	ential chara	acter	istics		
	4.4.1	Reaction to fire	Anodize Painted Gasket	: <b>A2</b>	certi	C decision 96/603/EC ificate EFR-21-001664A 0432] – 230006500-6		
	4.16	Operating forces	2			[0960] – 15.00320		oxFh < 1408x3008 255 kg
	4.17	Mechanical strength	4			[0960] – 15.00320	Fk	oxFh < 1408x3008 255 kg
7	4.18	Ventilation				npd		
EN 14351-1	4.19	Bullet resistance (BP version) (BP version)	FB4 FS0 Kalashr	;		ES-210614a ES-210722b ES-210722a		emark: classes S or NS depending on ammunition
Ш	4.20	Explosion resistance				npd		
	4.21	Resistance to repeated opening and closing	<b>8</b> (1.000.000)			[0960] – 15.00320	FbxFh < 1408x3008 255 kg	
	4.22	Behaviour between different climates				npd		
	4.23	Burglar resistance (AP version) (AP version)	RC2 WK2/R RC3	RC2	[0960] – SKGIKOB.0837.0285. [1309] - 22-27/10.122 [1136] – CAR 17266		5.06	See report





# 5.7 Flush doors / Double-inward opening / Brush





		Characteristic	Performance	Notified body - Report	Limits (mm)					
			Essential charac	cteristics						
	4.2	Resistance to wind load	<b>B2</b> (800 Pa)	[0960] - SKG/HRU/cbo/10.0106-4	FbxFh < 1352 x 2350					
	4.5	Watertightness	<b>3A</b> (100 Pa)	<b>3A</b> (100 Pa) [0960] - SKG/HRU/cbo/10.0106-4						
	4.6	Dangerous substances	In the materials deliv	In the materials delivered by Reynaers, no dangerous substances as indicated in hEN 14351-1 are used.						
	4.7	Impact resistance	<b>5</b> <sup>(1)</sup>	[0960] – SKG/HRU/age/12.0648	FbxFh > 649x1744					
351-1	4.8	Load-bearing capacity of safety devices	Pass	[0960] – 19.00838	FbxFh < 1400x3000					
EN 14351-1	4.9	Height and Width		See 6						
	4.11	Acoustic performance	Doors: 23 (-1;-2)	[0757] – 12-000113-PR02	FbxFh < 891x2068 ~ 1279x2452					
	4.12	Thermal transmittance	Ud to be calculated in function of the project. Pre-calculated U-values for dimensions 1230x2180mm 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 proper	These properties must be evaluated by the CE-lab						
	4.14	Air permeability	2	[0960] - SKG/HRU/cbo/10.0106-4	FbxFh < 1352 x 2350					
			Non-essential cha	racteristics						
	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	2	R16893	FbxFh < 1150x2740					
	4.17	Mechanical strength	4	[0960] – 19.00838	FbxFh < 1400x3000 353 kg					
7	4.18	Ventilation		npd						
14351-1	4.19	Bullet resistance (BP version) (BP version)		npd						
A	4.20	Explosion resistance		npd						
	4.21	Resistance to repeated opening and closing	<b>7</b> (500 000)	[0960] – 19.00838	FbxFh < 1400x3000 353 kg					
	4.22	Behaviour between different climates		npd						
	4.23	Burglar resistance (AP version) (AP version)	RC2 WK2/RC2 RC3	[0960] – SKGIKOB.0837.0285 [1309] - 22-27/10.122 [1136] – CAR 17266	See report					





# 5.8 Flush doors / Double-inward opening / Bottom profile





		Characteristic	Perform	ance		Notified body - Report		Limits (mm)
			Essen	tial charac	teri	stics		
	4.2	Resistance to wind load	<b>C2</b> (800	Pa)	[	[0960] – 15.00081-Rev A		xFh < 1339x2352.5
	4.5	Watertightness	<b>6A</b> (250	) Pa)	[	0960] – 15.00081-Rev A	Fb	xFh < 1339x2352.5
	4.6	Dangerous substances	In the mate	erials delive	ered	by Reynaers, no dangerous in hEN 14351-1 are used.	subs	tances as indicated
	4.7	Impact resistance	<b>5</b> (1)	)		[0960] – SKG/HRU/age/12.0648	F	bxFh > 649x1744
<u> </u>	4.8	Load-bearing capacity of safety devices	Pas	s		[0960] – 19.00838	Fl	oxFh < 1400x3000
EN 14351-1	4.9	Height and Width				See 6		
	4.11	Acoustic performance	Glass: 34 (-1;-4) 41 (-2;-4) 50 (-2;-8)	Doors: 35 (-3;-6 36 (-3;-5 40 (-1;-3	5) 5)	[0757] – 12-000113- PR02	Fb	oxFh < 891x2068 ~ 1279x2452
	4.12	Thermal transmittance	Ud to be	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	The	These properties must be evaluated by the CE			-labe	l of the glass
	4.14	Air permeability	3		[	0960] – 15.00081-Rev A	Fb	xFh < 1339x2352.5
			Non-ess	ential char	ract	eristics		
	4.4.1	Reaction to fire	Anodize Painted Gasket	l: <b>A2</b>	ce	EC decision 96/603/EC ertificate EFR-21-001664A [0432] – 230006500-6		
	4.16	Operating forces	2		R16893		FbxFh < 1150x2740	
	4.17	Mechanical strength	4			[0960] – 19.00838	Fl	oxFh < 1400x3000 353 kg
7	4.18	Ventilation				npd		
EN 14351-1	4.19	Bullet resistance (BP version) (BP version)				npd		
画	4.20	Explosion resistance				npd		
	4.21	Resistance to repeated opening and closing	<b>7</b> (500 000)			[0960] – 19.00838	FbxFh < 1400x3000 353 kg	
	4.22	Behaviour between different climates				npd		
	4.23	Burglar resistance (AP version) (AP version)	RC2 WK2/F RC3	<b>2/RC2</b> [1309] - 22-27/10.122		5.06	See report	





# 5.9 Flush doors / Double-inward opening / Automatic bottom seal





		Characteristic	Perform	ance	Notified bo	ody - Report		Limits (mm)	
			Essen	tial charact	eristics				
	4.2	Resistance to wind load	<b>B2</b> (800	) Pa)		60] – (cbo/11.0632	FI	oxFh < 1352x2500	
	4.5	Watertightness	<b>3A</b> (100	) Pa)		60] – ′cbo/11.0632	FI	oxFh < 1352x2500	
	4.6	Dangerous substances	In the mate	erials deliver		ers, no dangerous 351-1 are used.	s subs	tances as indicated	
	4.7	Impact resistance	5 (1)	)		60] – ′age/12.0648	F	bxFh > 649x1744	
<u>-</u>	4.8	Load-bearing capacity of safety devices	Pas	s	[0960] —	19.00838	FI	oxFh < 1400x3000	
EN 14351-1	4.9	Height and Width				See 6			
ā	4.11	Acoustic performance	Glass: 34 (-1;-4) 41 (-2;-4) 50 (-2;-8)	Doors: 33 (-2;-5) 34 (0;-2) 36 (0;-2)		– 12-000113- PR02		oxFh < 891x2062 ~ 1200x2452	
	4.12	Thermal transmittance	dim	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 proper		s must be eva	aluated by the CE	E-labe	l of the glass	
	4.14	Air permeability	2			[0960] – SKG/HRU/cbo/11.0632		FbxFh < 1352x2500	
			Non-esse	ential chara	cteristics				
	4.4.1	Reaction to fire	Anodize Painted Gasket	l: <b>A2</b>	EC decision 96/603/EC certificate EFR-21-001664A [0432] – 230006500-6				
	4.16	Operating forces	2		R1	R16893		FbxFh < 1150x2740	
	4.17	Mechanical strength	4		[0960] —	19.00838	FI	oxFh < 1400x3000 353 kg	
7	4.18	Ventilation		·		npd			
EN 14351	4.19	Bullet resistance (BP version) (BP version)				npd			
Ē	4.20	Explosion resistance				npd			
	4.21	Resistance to repeated opening and closing	<b>7</b> (500 000)		[0960] –	19.00838	FbxFh < 1400x3000 353 kg		
	4.22	Behaviour between different climates		1		npd			
	4.23	Burglar resistance (AP version) (AP version)	RC2 WK2/F RC3	RC2	[0960] – SKGIKOB.0837.0285. [1309] - 22-27/10.122 [1136] – CAR 17266		5.06	See report	





# 5.10 Flush doors / Double-outward opening / Brush





		Characteristic	Performance	Notified body - Report	Limits (mm)				
			Essential charac	cteristics					
	4.2	Resistance to wind load	<b>B2</b> (800 Pa)	[0960] - SKG/HRU/cbo/10.0106-4	FbxFh < 1352x2350				
	4.5	Watertightness	<b>4A</b> (150 Pa)	[0960] - SKG/HRU/cbo/10.0106-4	FbxFh < 1352x2350				
	4.6	Dangerous substances	In the materials deliv	s substances as indicated					
	4.7	Impact resistance	<b>5</b> <sup>(1)</sup>	[0960] – SKG/HRU/age/12.0648	FbxFh > 649x1744				
351-1	4.8	Load-bearing capacity of safety devices	Pass	[0960] – 19.00838	FbxFh < 1400x3000				
EN 14351-1	4.9	Height and Width		See 6					
	4.11	Acoustic performance	Doors: 23 (-1;-2)	[0757] – 12-000113-PR02	FbxFh < 891x2068 ~ 1279x2452				
	4.12	Thermal transmittance	Ud to be calculated in function of the project. Pre-calculated U-values for dimensions 1230x2180mm 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 proper	These properties must be evaluated by the CE-label of the gl					
	4.14	Air permeability	2	[0960] - SKG/HRU/cbo/10.0106-4	FbxFh < 1352x2350				
			Non-essential cha	racteristics					
	4.4.1	Reaction to fire	Anodized: <b>A1</b> Painted: <b>A2</b> Gaskets: <b>E</b>	EC decision 96/603/EC certificate EFR-21-001664A [0432] – 230006500-6					
	4.16	Operating forces	2	R16893	FbxFh < 1150x2740				
	4.17	Mechanical strength	4	[0960] – 19.00838	FbxFh < 1400x3000 353 kg				
7	4.18	Ventilation		npd					
14351-1	4.19	Bullet resistance (BP version) (BP version)		npd					
N N	4.20	Explosion resistance		npd					
	4.21	Resistance to repeated opening and closing	<b>7</b> (500 000)	[0960] – 19.00838	FbxFh < 1400x3000 353 kg				
	4.22	Behaviour between different climates		npd					
	4.23	Burglar resistance (AP version) (AP version)	RC2 WK2/RC2 RC3	[0960] – SKGIKOB.0837.0285 [1309] - 22-27/10.122 [1136] – CAR 17266	See report				





# 5.11 Flush doors / Double-outward opening / Bottom profile





Characteristic			Performance		Notified body - Report		Limits (mm)		
			Essent	tial charact	teristic	S			
EN 14351-1	4.2	Resistance to wind load	<b>C2</b> (800 Pa)		[1488] – LK02- 00948/15/R84NK		FbxFh < 1339x2352.5		
	4.5	Watertightness	<b>7A</b> (300 Pa)		[1488] – LK02- 00948/15/R84NK		Fb	xFh < 1339x2352.5	
	4.6	Dangerous substances	In the materials delivered by Reynaers, no dangerous in hEN 14351-1 are used.				s subs	tances as indicated	
	4.7	Impact resistance	<b>5</b> <sup>(1)</sup>		[0960] – SKG/HRU/age/12.0648		F	FbxFh > 649x1744	
	4.8	Load-bearing capacity of safety devices	Pass		[	0960] – 19.00838	0] – 19.00838 FI		
	4.9	Height and Width	See 6						
	4.11	Acoustic performance	Glass: Doors: 34 (-1;-4) 35 (-3;-4 41 (-2;-4) 36 (-3;-5 50 (-2;-8) 40 (-1;-5		6) [0757] – 12-000113- PR02		FbxFh < 891x2062 ~ 1279x2452		
	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	3		[1488] – LK02- 00948/15/R84NK		FbxFh < 1339x2352.5		
Non-essential characteristics									
	4.4.1	Reaction to fire	Anodized: <b>A1</b> Painted: <b>A2</b> Gaskets: <b>E</b>		EC decision 96/603/EC certificate EFR-21-001664A [0432] – 230006500-6				
	4.16	Operating forces	2			R16893	FbxFh < 1150x2740		
	4.17	Mechanical strength	4		[0960] – 19.00838		Fl	oxFh < 1400x3000 353 kg	
7	4.18	Ventilation	npd						
EN 14351-1	4.19	Bullet resistance (BP version) (BP version)	npd						
EN	4.20	Explosion resistance	npd						
	4.21	Resistance to repeated opening and closing	<b>7</b> (500 000)		[0960] — 19.00838		FbxFh < 1400x3000 353 kg		
	4.22	Behaviour between different climates	npd						
	4.23	Burglar resistance (AP version) (AP version)	RC2 WK2/RC2 RC3		[0960] – SKGIKOB.0837.0285.06 [1309] - 22-27/10.122 [1136] – CAR 17266		5.06	See report	





# 5.12 Flush doors / Double-outward opening / Automatic bottom seal





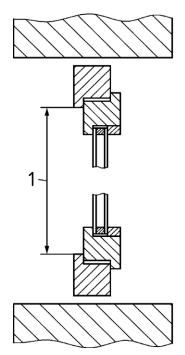
Characteristic		Performance		Notified body - Report		Limits (mm)			
	Essential characteristics								
EN 14351-1	4.2	Resistance to wind load	<b>B2</b> (800 Pa)		[0960] – SKG/HRU/cbo/11.0632		Fl	oxFh < 1352x2500	
	4.5	Watertightness	<b>3A</b> (100 Pa)		[0960] – SKG/HRU/cbo/11.0632		Fl	oxFh < 1352x2500	
	4.6	Dangerous substances	In the materials delivered by Reynaers, no dangero in hEN 14351-1 are used			subs	tances as indicated		
	4.7	Impact resistance	<b>5</b> <sup>(1)</sup>		[0960] – SKG/HRU/age/12.0648		FbxFh > 649x1744		
	4.8	Load-bearing capacity of safety devices	Pass		[0960] – 19.00838		Fl	oxFh < 1400x3000	
	4.9	Height and Width	See 6						
	4.11	Acoustic performance	Glass: Doors: 34 (-1;-4) 33 (-2;-4) 41 (-2;-4) 34 (0;-2) 50 (-2;-8) 36 (0;-2)		5) [0757] – 12-000113- 2) PR02		FbxFh < 891x2068 ~ 1200x2452		
	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	2		[0960] – SKG/HRU/cbo/11.0632		FbxFh < 1352x2500		
Non-essential characteristics									
	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	2			R16893	FbxFh < 1150x2740		
	4.17	Mechanical strength	4		[0960] – 19.00838		Fl	oxFh < 1400x3000 353 kg	
7	4.18	Ventilation	npd						
EN 14351-1	4.19	Bullet resistance (BP version) (BP version)	npd						
	4.20	Explosion resistance	npd						
	4.21	Resistance to repeated opening and closing	<b>7</b> (500 000)		[0960] – 19.00838		FbxFh < 1400x3000 353 kg		
	4.22	Behaviour between different climates	npd						
	4.23	Burglar resistance (AP version) (AP version)	RC2 WK2/RC2 RC3		[0960] – SKGIKOB.0837.0285.0 [1309] - 22-27/10.122 [1136] – CAR 17266		5.06	See report	

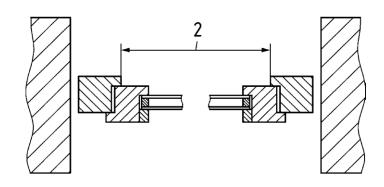




#### 6 RULE FOR DEFINITION OF CLEAR OPENING HEIGHT AND WIDTH

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









#### **UPDATES**

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22/4/2022						
	VARIANTS	Characteristic				
12.1060 rev A	5.1 ~ 5.3	4.8, 4.16, 4.17, 4.21				
EFR-21-001664A	5.1 ~ 5.12	4.4.1				
230006500-6	5.1 ~ 5.12	4.4.1				
22.00537	5.1 ~ 5.10	4.16 + 4.21				
19.00838	5.7 ~ 5.12	4.8, 4.17, 4.21				
R16893	5.7 ~ 5.12	4.16				
SKGIKOB.0837.0285.06	5.1 ~ 5.12	4.23				
22-27/10.120	5.1 ~ 5.12	4.23				
CAR 17266	5.1 ~ 5.12	4.23				
ES-210614a, ES-210722b, ES-210722a	5.1 ~ 5.6	4.19				
20/1/2023						
	VARIANTS	Characteristic				
15.00090	5.5	4.2, 4.5, 4.14				
08/06/2023						
	VARIANTS	Characteristic				
23.00580	5.5	4.2, 4.5, 4.14				

5.1 ~ 5.12 4.23

22-27/10.122

