# **Masterpatio**

PRODUCT PASS

Date: **21-03-2023** 

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	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	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

Monor	ail - Outside glazing	Monor	rail - Inside glazing
5.1	+ + +	5.5	+ + +
5.2	+ - +		
5.3	+ + +	5.6	+ + +
5.4	Inside/Outside Corner	5.7	Inside/Outside Corner
	+ + +		+ + +   +   +   +   +

2-rail		3-rail	
5.8	+ + +	5.11	
5.9	+ -+	5.12	<b>→ ← → →</b>
5.10	<b>→ ← →</b>		+ - + +

# 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

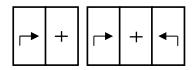
Fixed pane monorail

 $<sup>^{(2)}</sup>$  Tubular glazing beads: p < 2000 Pa, WxH < 3200x3200 mm (fixed windows only)



# 5 PERFORMANCE

# 5.1 Monorail - Outside glazing

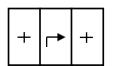


(\*) Slim Chicane

		Characteristic	Performa	nce	Notif	ied body - Report	Limits (mm)	
			Essent	tial char				
	4.2	Resistance to wind load	C4 (1600 C3 (1200 C3 (1200 C5 (2000	Pa) Pa) Pa)	[0960] – 20.00751 <sup>(*)</sup> [0960] – 20.01576 [0960] – 21.00586 rev A [0960] – 22.00447		FbxFh < 1500x2380 <sup>(2)</sup> FbxFh < 2000x3000 <sup>(2)</sup> FbxFh < 1800x3600 <sup>(2)</sup> FbxFh < 1500x380 <sup>(2)</sup>	
	4.5	Watertightness	E1200 (120 E1050 (105 9A (600 9A (600	i0 Pá) Pa)	[0960] – 20.00751 <sup>(*)</sup> [0960] – 20.01576 [0960] – 21.00586 rev A [0960] – 22.00447		FbxFh < 1500x2380 FbxFh < 2000x3000 FbxFh < 1800x3600 FbxFh < 1500x2380	
	4.6	Dangerous substances	In the mater	ials deliv	ered by	red by Reynaers, no dangerous substances as indicated in hEN 14351-1 are used.		
	4.7	Impact resistance	4		[0960] – 21.00887.2		FbxFh > 2380x2380	
51-1	4.8	Load-bearing capacity of safety devices		npd				
EN 14351-1	4.9	Height & width		See 6				
			Glass:	Sliding	g door:			
	4.11	Acoustic performance	36 (-1;-5) 41 (-2;-4) 45 (-2;-6) 52 (-1;-5)	41 (-2;-4) 37 (-1 45 (-2;-6) 41 (-2		[0960] - 20.00651.1 [0960] - 20.00651.2 [0960] - 20.00651.3 [0960] - 20.00651.4	WxH = 2705x2360	
	4.12	Thermal transmittance	dimension	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			ECE-label of the glass	
	4.14	Air permeability	4		[09 [0960]	60] – 20.00751 <sup>(*)</sup> 960] – 20.01576 0] – 21.00586 rev A 960] – 22.00447	FbxFh < 1500x2380 FbxFh < 2000x3000 FbxFh < 1800x3600 FbxFh < 1500x2380	
			Non-esse	ential ch	characteristics			
	4.4.1	Reaction to fire	Anodized: Painted: A Gaskets:	12	certificat	ecision 96/603/EC te EFR-21-001664A t] – 230006500-6		
	4.16	Operating forces	1		[0960] – 20.00738 [0960] – 22.00537 [0960] – 20.00759 [0960] – 22.00926		FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg	
	4.17	Mechanical strength	4		[096	0] – 21.00887.1	FbxFh < 2380x2380, 230kg	
7	4.18	Ventilation				npd		
EN 14351-1	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)	)	[09 [09	60] – 20.00738 60] – 22.00537 60] – 20.00759 60] – 22.00926	FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg	
	4.22	Behaviour between different climates				npd		
	4.23	Burglar resistance (AP version)	RC2		[0960] – 20.01545-2		See report	



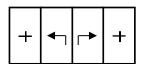
# 5.2 Monorail - Outside glazing



		Characteristic	Performance	Notified body - Report	Limits (mm)					
			Essential cha	aracteristics	. ,					
	l		T		I					
	4.2	Resistance to wind load	<b>C3</b> (1200 Pa)	[0960] – 22.00078	FbxFh < 1500x2404					
	4.5	Watertightness	<b>E1050</b> (1050 Pa)	[0960] – 22.00078	FbxFh < 1500x2404					
	4.6	Dangerous substances	In the materials del	ivered by Reynaers, no danger hEN 14351-1 are use						
	4.7	Impact resistance	4	[0960] – 21.00887.2	FbxFh > 2380x2380					
51-1	4.8	Load-bearing capacity of safety devices		npd						
EN 14351-1	4.9	Height & 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	4	[0960] – 22.00078	FbxFh < 1500x2404					
			Non-essential o	haracteristics						
	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	1	[0960] – 20.00738 [0960] – 22.00537 [0960] – 20.00759 [0960] – 22.00926	FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg					
	4.17	Mechanical strength	4	[0960] – 21.00887.1	FbxFh < 2380x2380, 230kg					
7	4.18	Ventilation		npd						
EN 14351	4.19	Bullet resistance (BP version)		npd						
Ш	4.20	Explosion resistance		npd						
	4.21	Resistance to repeated opening and closing	<b>3</b> (20.000)	[0960] – 20.00738 [0960] – 22.00537 [0960] – 20.00759 [0960] – 22.00926	FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg					
	4.22	Behaviour between different climates	npd							
	4.23	Burglar resistance (AP version)	npd							



# 5.3 Monorail - Outside glazing

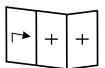


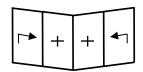
		Characteristic	Performance	Notified body - Report	Limits (mm)					
			Essential cha	racteristics						
	4.2	Resistance to wind load	<b>B4</b> (1600 Pa)	[0960] – 20.01671 (1)	FbxFh < 1500x2380					
	4.5	Watertightness	<b>E1200</b> (1200 Pa)	[0960] – 20.01671 (1)	FbxFh < 1500x2380					
	4.6	Dangerous substances	In the materials del	ivered by Reynaers, no danger hEN 14351-1 are use						
	4.7	Impact resistance	4	[0960] – 21.00887.2	FbxFh > 2380x2380					
51-1	4.8	Load-bearing capacity of safety devices		npd						
EN 14351-1	4.9	Height & width		See 6						
	4.11	Acoustic performance		npd						
	4.12	Thermal transmittance	dimens	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	4	[0960] – 20.01671 (1)	FbxFh < 1500x2380					
			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	1	[0960] – 20.00738 [0960] – 22.00537 [0960] – 20.00759 [0960] – 22.00926	FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg					
	4.17	Mechanical strength	4	[0960] – 21.00887.1	FbxFh < 2380x2380, 230kg					
Ξ	4.18	Ventilation		npd						
EN 14351	4.19	Bullet resistance (BP version)		npd						
ӹ	4.20	Explosion resistance		npd						
	4.21	Resistance to repeated opening and closing	<b>3</b> (20.000)	[0960] – 20.00738 [0960] – 22.00537 [0960] – 20.00759 [0960] – 22.00926	FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg					
	4.22	Behaviour between different climates	npd							
	4.23	Burglar resistance (AP version)	npd							

<sup>(1)</sup> Chicane with reinforcement



# 5.4 Monorail - Outside glazing - Inside/Outside Corner



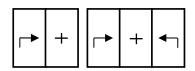


(\*) Slim Chicane

		Characteristic	Performan	nce	Notif	ied body - Report	Limits (mm)	
			Essentia	al chara	cterist	ics		
	4.2	Resistance to wind load	C4 (1600 F C3 (1200 F C3 (1200 F C5 (2000 F E1200 (1200	Pa) Pa) Pa)	[0960] – 20.00751 <sup>(*)</sup> [0960] – 20.01576 [0960] – 21.00586 rev A [0960] – 22.00583 [0960] – 20.00751 <sup>(*)</sup>		FbxFh < 1500x2380 <sup>(2)</sup> FbxFh < 2000x3000 <sup>(2)</sup> FbxFh < 1800x3600 <sup>(2)</sup> FbxFh < 1500x2380 <sup>(2)</sup> FbxFh < 1500x2380	
	4.5	Watertightness	<b>E1050</b> (1050 <b>9A</b> (600 P <b>9A</b> (600 P	) Pa) 'a)	) [0960] – 20.01576 [0960] – 21.00586 rev A [0960] – 22.00583		FbxFh < 2000x3000 FbxFh < 1800x3600 FbxFh < 1500x2380	
	4.6	Dangerous substances	In the materia	als delive	,	Reynaers, no dangero hEN 14351-1 are use	ous substances as indicated in d.	
	4.7	Impact resistance	4			[0960] – 21.00887.2	FbxFh > 2380x2380	
7	4.8	Load-bearing capacity of safety devices				npd		
EN 14351-1	4.9	Height & width		See 6				
EN	4.11	Acoustic performance	Glass: Sliding 36 (-1;-5) 34 (- 41 (-2;-4) 37 (- 45 (-2;-6) 41 (- 52 (-1;-5) 44 (-		;-4) ;-4)	[0960] - 20.00651.1 [0960] - 20.00651.2 [0960] - 20.00651.3 [0960] - 20.00651.4	WxH = 2705x2360	
	4.12	Thermal transmittance	Ud to be	Pre-calculated U-values for and in the Uf-value CA: certificate BPCB-420-72-				
	4.13	Radiation properties	These	These properties must be evaluated by the CE-label or				
	4.14	Air permeability	4		[0960] – 20.00751 <sup>(*)</sup> [0960] – 20.01576 [0960] – 21.00586 rev A [0960] – 22.00583		FbxFh < 1500x2380 FbxFh < 2000x3000 FbxFh < 1800x3600 FbxFh < 1500x2380	
			Non-essential characteristics					
	4.4.1	Reaction to fire	Anodized: A Painted: A2 Gaskets: E	<b>2</b> c	ertificat	ecision 96/603/EC re EFR-21-001664A r] – 230006500-6		
	4.16	Operating forces	1		[0960] – 20.00738 [0960] – 22.00537 [0960] – 20.00759 [0960] – 22.00926		FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg	
	4.17	Mechanical strength	4		[096	0] – 21.00887.1	FbxFh < 2380x2380, 230kg	
7	4.18	Ventilation				npd		
EN 14351-1	4.19	Bullet resistance (BP version)				npd		
Ū	4.20	Explosion resistance				npd		
	4.21	Resistance to repeated opening and closing	<b>3</b> (20.000)		[09 [09	60] – 20.00738 60] – 22.00537 60] – 20.00759 60] – 22.00926	FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg	
	4.22	Behaviour between different climates				npd		
	4.23	Burglar resistance (AP version)	RC2		[0960] – 20.01545-2		See report	



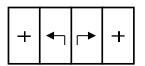
# 5.5 Monorail - Inside glazing



	Characteristic			ance	Notified body - Report Limits (mm)			
			Essent	ial char	acteri	stics		
	4.2	Resistance to wind load	<b>C4</b> (1600	Pa)		[0960] – 20.00526	FbxFh < 1500x2380 <sup>(2)</sup>	
	4.5	Watertightness	<b>E750</b> (75)	0 Pa)		[0960] – 20.00526	FbxFh < 1500x2380	
	4.6	Dangerous substances	In the materi	als deliv	vered by Reynaers, no dangerous substances as indicated in hEN 14351-1 are used.			
	4.7	Impact resistance	4	ļ		[0960] – 21.00887.2	FbxFh > 2380x2380	
	4.8	Load-bearing capacity of safety devices				npd		
EN 14351-1	4.9	Height & width				See 6		
EN 14	4.11	Acoustic performance	Glass: 36 (-1;-5) 41 (-2;-4) 45 (-2;-6) 52 (-1;-5)	36 (-1;-5) 34 (-2;- 41 (-2;-4) 37 (-1;- 45 (-2;-6) 41 (-2;-		[0960] – 20.00651.1 [0960] – 20.00651.2 [0960] – 20.00651.3 [0960] – 20.00651.4	WxH = 2705x2360	
	4.12	Thermal transmittance	Ud to be	calcula dimensi	ted in ons 20	ed in function of the project. Pre-calculated U-values for ns 2000x2180mm can be found in the Uf-value tables. ated under certification of BCCA: certificate BPCB-420-72- 10077/2.		
	4.13	Radiation properties	Thes	se prope	erties ı	must be evaluated by the	e CE-label of the glass	
	4.14	Air permeability	4		[0960] – 20.00526		FbxFh < 1500x2380	
			Non-esse	ntial ch	aract	eristics		
	4.4.1	Reaction to fire	Anodized: A Painted: A Gaskets: I	.2	certific	decision 96/603/EC cate EFR-21-001664A 32] – 230006500-6		
	4.16	Operating forces	1		[0960] – 20.00738 [0960] – 22.00537 [0960] – 20.00759 [0960] – 22.00926		FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg	
	4.17	Mechanical strength	4		[0	960] – 21.00887.1	FbxFh < 2380x2380, 230kg	
7	4.18	Ventilation				npd		
EN 14351-1	4.19	Bullet resistance (BP version)				npd		
Ī	4.20	Explosion resistance				npd		
	4.21	Resistance to repeated opening and closing	3 (20.000)		[( [(	0960] – 20.00738 0960] – 22.00537 0960] – 20.00759 0960] – 22.00926	FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg	
	4.22	Behaviour between different climates				npd		
	4.23	Burglar resistance (AP version)	RC2		[0960] – 20.01545-2		See report	



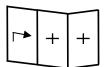
# 5.6 Monorail - Inside glazing

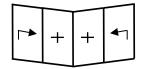


		Characteristic	Performance	Notified body - Report	Limits (mm)					
			Essential ch	aracteristics						
	4.2	Resistance to wind load	<b>C4</b> (1600 Pa)	[0960] – 20.00526	FbxFh < 1500x2380 <sup>(2)</sup>					
	4.5	Watertightness	<b>E750</b> (750 Pa)	[0960] – 20.00526	FbxFh < 1500x2380					
	4.6	Dangerous substances	In the materials de	elivered by Reynaers, no danger hEN 14351-1 are use						
	4.7	Impact resistance	4	4 [0960] – 21.00887.2 FbxFh > 2380						
51-1	4.8	Load-bearing capacity of safety devices		npd						
EN 14351-1	4.9	Height & 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	4	[0960] – 20.00526	FbxFh < 1500x2380					
			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	1	[0960] – 20.00738 [0960] – 22.00537 [0960] – 20.00759 [0960] – 22.00926	FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg					
	4.17	Mechanical strength	4	[0960] – 21.00887.1	FbxFh < 2380x2380, 230kg					
7	4.18	Ventilation		npd						
EN 14351	4.19	Bullet resistance (BP version)		npd						
ӹ	4.20	Explosion resistance		npd						
	4.21	Resistance to repeated opening and closing	<b>3</b> (20.000)	[0960] – 20.00738 [0960] – 22.00537 [0960] – 20.00759 [0960] – 22.00926	FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg					
	4.22	Behaviour between different climates		npd						
	4.23	Burglar resistance (AP version)	npd							



# 5.7 Monorail - Inside glazing - Inside/Outside Corner

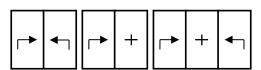




		Characteristic	Performan	се	Notified body - Report Limits (mm)			
	ı		Essenti	ial cha	aracter	istics		
	4.2	Resistance to wind load	<b>C4</b> (1600 P	Pa)	[0960] – 20.00526		FbxFh < 1500x2380 <sup>(2)</sup>	
	4.5	Watertightness	<b>E750</b> (750 l	Pa)	[0960] – 20.00526		FbxFh < 1500x2380	
	4.6	Dangerous substances	In the materia	als del	livered by Reynaers, no dangerous substances as indicated hEN 14351-1 are used.			
	4.7	Impact resistance	4		[0	960] – 21.00887.2	FbxFh > 2380x2380	
	4.8	Load-bearing capacity of safety devices		npd				
EN 14351-1	4.9	Height & width				See 6		
Z 7			Glass:	Slid do				
ш	4.11	Acoustic performance	36 (-1;-5) 41 (-2;-4) 45 (-2;-6) 52 (-1;-5)	36 (-1;-5) 34 (- 41 (-2;-4) 37 (- 45 (-2;-6) 41 (-		[0960] - 20.00651.1 [0960] - 20.00651.2 [0960] - 20.00651.3 [0960] - 20.00651.4	WxH = 2705x2360	
	4.12	Thermal transmittance		calcul dimens	ulated in function of the project. Pre-calculated U-values for nsions 2000x2180mm can be found in the Uf-value tables.  Iculated under certification of BCCA: certificate BPCB-420-72-10077/2.			
	4.13	Radiation properties	Thes	se prop	e CE-label of the glass			
	4.14	Air permeability	4		[0960] – 20.00526		FbxFh < 1500x2380	
			Non-esse	ntial c	haract	eristics		
	4.4.1	Reaction to fire	Anodized: A Painted: A Gaskets: I	d: A2 certificate EFR-21-001664A		cate EFR-21-001664A		
	4.16	Operating forces	1		[0960] - 20.00738 [0960] - 22.00537 [0960] - 20.00759 [0960] - 22.00926		FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg	
	4.17	Mechanical strength	4		[0	960] – 21.00887.1	FbxFh < 2380x2380, 230kg	
Ξ	4.18	Ventilation				npd		
EN 14351-1	4.19	Bullet resistance (BP version)				npd		
<u> </u>	4.20	Explosion resistance				npd		
	4.21	Resistance to repeated opening and closing	3 (20.000)		[0960] - 20.0073 [0960] - 22.0053 [0960] - 20.0075 [0960] - 22.0092		FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg	
	4.22	Behaviour between different climates	npd					
	4.23	Burglar resistance (AP version)	RC2		[0960] – 20.01545-2		See report	



#### 5.8 2-rail

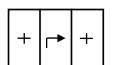


		Characteristic	Performance	e Notifie	Notified body - Report Limits (mm)			
			Essentia	l characteristic	es			
	4.2	Resistance to wind load	<b>C3</b> (1200 Pa	) [0960] -	[0960] – 20.00744 rev A		500x2380 <sup>(2)</sup>	
	4.5	Watertightness	<b>E1050</b> (1050 Pa)	0960] -	- 20.00744 rev A	FbxFh < 1	500x2380	
	4.6	Dangerous substances	In the material		livered by Reynaers, no dangerous substances as indicated hEN 14351-1 are used.			
	4.7	Impact resistance	4	[0960	] – 21.00887.2	FbxFh > 2	2380x2380	
	4.8	Load-bearing capacity of safety devices			npd			
351-1	4.9	Height & width			See 6			
EN 14351-1	4.11	Acoustic performance	Glass:  36(-1;-5) 41(-2;-4) 45(-2;-6) 50(-2;-8) 52(-1;-5)	36(-2;-4) 39(-1;-3) 41(-2;-4) 43(-1;-4)* 44(-2;-3)*	[0757] - 22-00276 [0757] - 22-00276	22-002767-PR01 PB 01 22-002767-PR01 PB 01 22-002767-PR01 PB 01 22-002767-PR01 PB 01 2705x2350		
	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-420-7 10077/2.					
	4.13	Radiation properties	These properties must be evaluated by the CE-label of the glass				glass	
	4.14	Air permeability	4	[0960] -	[0960] – 20.00744 rev A		500x2380	
			Non-essen	tial characteris	stics			
	4.4.1	Reaction to fire	Anodized: A' Painted: A2 Gaskets: E	certificate	eision 96/603/EC EFR-21-001664A = 230006500-6			
	4.16	Operating forces	1	[0960] [0960]	[0960] - 20.00738 [0960] - 22.00537 [0960] - 20.00759 [0960] - 22.00926		FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg	
	4.17	Mechanical strength	4	[0960	] – 21.00887.1	FbxFh < 2380	)x2380, 230kg	
7	4.18	Ventilation			npd			
EN 14351-1	4.19	Bullet resistance (BP version)			npd			
ш	4.20	Explosion resistance			npd			
	4.21	Resistance to repeated opening and closing	<b>3</b> (20.000)	[0960 [0960	[0960] – 20.00738 [0960] – 22.00537 [0960] – 20.00759 [0960] – 22.00926		0x2500, 264kg 0x3000, 400kg 0x3600, 435kg 0x3000, 500kg	
	4.22	Behaviour between different climates			npd			
	4.23	Burglar resistance (AP version)	RC2	[0960]	] – 20.01545-2	See report		

<sup>\*</sup> Variant



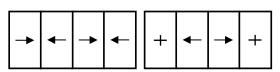
#### 5.9 2-rail



		Characteristic	Performa	nce	Notif	ied body - Report	Lim	its (mm)
			Essent	ial chai	racterist	ics		
	4.2	Resistance to wind load	<b>C3</b> (1200	Pa)	[09	960] – 22.00078	FbxFh <	: 1500x2404
	4.5	Watertightness	<b>E1050</b> (105	60 Pa)	[0960] – 22.00078		FbxFh <	: 1500x2404
	4.6	Dangerous substances	In the mater	ials deliv	ivered by Reynaers, no dangerous substances as indicate hEN 14351-1 are used.			s as indicated in
	4.7	Impact resistance	4		[09	60] – 21.00887.2	FbxFh >	· 2380x2380
	4.8	Load-bearing capacity of safety devices				npd		
121-1	4.9	Height & width				See 6		
EN 14351-1	4.11	Acoustic performance	Glass: Sliding  36(-1;-5) 36(-2;-4) 39(-1;-5) 41(-2;-4) 41(-2;-6) 41(-2;-6) 50(-2;-8) 43(-1;-5) 44(-2;-6)		2;-4) 1;-3) 2;-4)	[0757] - 22-002767- [0757] - 22-002767-	757] - 22-002767-PR01 PB 01 757] - 22-002767-PR01 PB 01 757] - 22-002767-PR01 PB 01 757] - 22-002767-PR01 PB 01 757] - 22-002767-PR01 PB 01	
	4.12	Thermal transmittance	Ud to be	calcula dimensi	lated in function of the project. Pre-calculated U-values for sions 2000x2180mm can be found in the Uf-value tables. culated under certification of BCCA: certificate BPCB-420-72-10077/2.			
	4.13	Radiation properties	The	se prope	erties mu	ist be evaluated by the	e CE-label of t	he glass
	4.14	Air permeability	4		[0960] – 22.00078		FbxFh <	: 1500x2404
			Non-esse	ential ch	haracter	istics		
	4.4.1	Reaction to fire	Anodized: Painted: A Gaskets:	12	certificat	ecision 96/603/EC te EFR-21-001664A 2] – 230006500-6		
	4.16	Operating forces	1		[09 [09 [09	0960] - 20.00738		00x3000, 400kg 00x3600, 435kg
	4.17	Mechanical strength	4		[096	0] – 21.00887.1	FbxFh < 23	80x2380, 230kg
-	4.18	Ventilation				npd		
EN 14351-1	4.19	Bullet resistance (BP version)				npd		
Ш	4.20	Explosion resistance				npd	<b>.</b>	
	4.21	Resistance to repeated opening and closing	<b>3</b> (20.000)	1	[0960] – 20.00738 [0960] – 22.00537 [0960] – 20.00759 [0960] – 22.00926		FbxFh < 36 FbxFh < 30	00x2500, 264kg 00x3000, 400kg 00x3600, 435kg 00x3000, 500kg
	4.22	Behaviour between different climates				npd		
	4.23	Burglar resistance (AP version)				npd		



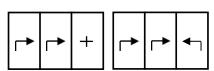
#### 5.10 2-rail



Characteristic		Performanc	e Notifie	Notified body - Report		Limits (mm)		
Essential characteristics								
	4.2	Resistance to wind load	<b>C3</b> (1200 Pa	n) [0960] -	[0960] – 20.00744 rev A		FbxFh < 1500x2380 <sup>(2)</sup>	
	4.5	Watertightness	E1050 (1050 Pa) [0960] – 20.00744 rev A		FbxFh < 1500x2380			
	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	4	[0960	] – 21.00887.2	FbxFh > 2	2380x2380	
	4.8	Load-bearing capacity of safety devices	npd					
351-1	4.9	Height & width	See 6					
EN 14351-1	4.11	Acoustic performance	Glass:  36(-1;-5) 41(-2;-4) 45(-2;-6) 50(-2;-8) 52(-1;-5)	Sliding door: 36(-2;-4) 39(-1;-3) 41(-2;-4) 43(-1;-4)* 44(-2;-3)*	[0757] - 22-00276 [0757] - 22-00276 [0757] - 22-00276 [0757] - 22-00276 [0757] - 22-00276	7-PR01 PB 01 7-PR01 PB 01 7-PR01 PB 01 WxH = 2705x2350		
	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	4	[0960] -	[0960] – 20.00744 rev A		FbxFh < 1500x2380	
			Non-essen	tial characteris	stics			
	4.4.1	Reaction to fire	Anodized: A Painted: A2 Gaskets: E	certificate	EC decision 96/603/EC certificate EFR-21-001664A [0432] – 230006500-6			
	4.16	Operating forces	1	[096 [096	[0960] – 20.00738 [0960] – 22.00537 [0960] – 20.00759 [0960] – 22.00926		FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg	
	4.17	Mechanical strength	4	[0960	[0960] – 21.00887.1		)x2380, 230kg	
Σ	4.18	Ventilation	npd					
EN 14351-1	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)	[096 [096	0] - 20.00738 0] - 22.00537 0] - 20.00759 0] - 22.00926	FbxFh < 3600 FbxFh < 3000	0x2500, 264kg 0x3000, 400kg 0x3600, 435kg 0x3000, 500kg	
	4.22	Behaviour between different climates	npd					
	4.23	Burglar resistance (AP version)	npd					



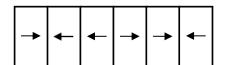
#### 5.11 3-rail

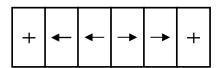


	Characteristic		Performance Notified body - Report		Limits (mm)		
	Essential characteristics						
EN 14351-1	4.2	Resistance to wind load	<b>C2</b> (800 Pa)	[0960] – 21.01396	FbxFh < 1500x2380		
	4.5	Watertightness	<b>8A</b> (450 Pa)	[0960] – 21.01396	FbxFh < 1500x2380		
	4.6	Dangerous substances	In the materials delivered by Reynaers, no dangerous substances as indicated in hEN 14351-1 are used.				
	4.7	Impact resistance	4	[0960] – 21.00887.2	FbxFh > 2380x2380		
	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. 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	4	[0960] – 21.01396	FbxFh < 1500x2380		
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	1	[0960] – 20.00738 [0960] – 22.00537 [0960] – 20.00759 [0960] – 22.00926	FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg		
	4.17	Mechanical strength	4	[0960] – 21.00887.1	FbxFh < 2380x2380, 230kg		
7	4.18	Ventilation	npd				
EN 1435′	4.19	Bullet resistance (BP version)	npd				
<del> </del>	4.20	Explosion resistance	npd				
	4.21	Resistance to repeated opening and closing	<b>3</b> (20.000)	[0960] – 20.00738 [0960] – 22.00537 [0960] – 20.00759 [0960] – 22.00926	FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg		
	4.22	Behaviour between different climates	npd				
	4.23	Burglar resistance (AP version)	npd				



#### 5.12 3-rail



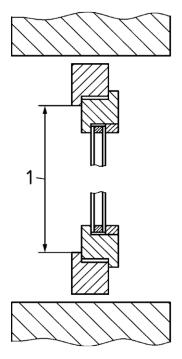


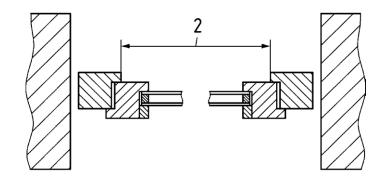
Characteristic			Performance	Limits (mm)			
	Essential characteristics						
EN 14351-1	4.2	Resistance to wind load	<b>C2</b> (800 Pa)	[0960] – 21.01396	FbxFh < 1500x2380		
	4.5	Watertightness	<b>8A</b> (450 Pa)	[0960] – 21.01396	FbxFh < 1500x2380		
	4.6	Dangerous substances	In the materials delivered by Reynaers, no dangerous substances as indicated in hEN 14351-1 are used.				
	4.7	Impact resistance	<b>4</b> [0960] – 21.00887.2 FbxFt		FbxFh > 2380x2380		
	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. 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	4	[0960] – 21.01396	FbxFh < 1500x2380		
	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	1	[0960] – 20.00738 [0960] – 22.00537 [0960] – 20.00759 [0960] – 22.00926	FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg		
	4.17	Mechanical strength	4	[0960] – 21.00887.1	FbxFh < 2380x2380, 230kg		
7	4.18	Ventilation	npd				
EN 14351-	4.19	Bullet resistance (BP version)	npd				
	4.20	Explosion resistance	npd				
	4.21	Resistance to repeated opening and closing	<b>3</b> [0960] – 22.00537 F (20.000) [0960] – 20.00759 F		FbxFh < 2000x2500, 264kg FbxFh < 3600x3000, 400kg FbxFh < 3000x3600, 435kg FbxFh < 3600x3000, 500kg		
	4.22	Behaviour between different climates	npd				
	4.23	Burglar resistance (AP version)	npd				



# 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**

#### 21/03/2023

VARIANTS Characteristic

22.00926 5.1 ~ 5.12 4.16, 4.21

20.00738 5.1 ~ 5.12 4.16, 4.21

#### 14/12/2022

VARIANTS Characteristic

22-002767-PR01 PB 01 5.8 ~ 5.10 4.11

22-002767-PR01 PB 02 5.8 ~ 5.10 4.11

#### 13/10/2022

VARIANTS Characteristic

22.00447 5.1 4.2, 4.5, 4.14

#### 23/9/2022

**VARIANTS** 

2-rail QXXQ, XXXX 5.10

3-rail QXXXXQ, XXXXXX 5.12

#### 9/9/2022

	VARIANTS	Characteristic
20.01576	5.1	4.2, 4.5, 4.14
22.00583	5.1	4.2, 4.5, 4.14
21.01348	5.1 ~ 5.10	4.16 + 4.21
22.00537	5.1 ~ 5.10	4.16 + 4.21