MasterLine 8 Doors

PRODUCT PASS

Date: **10-02-2023**

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



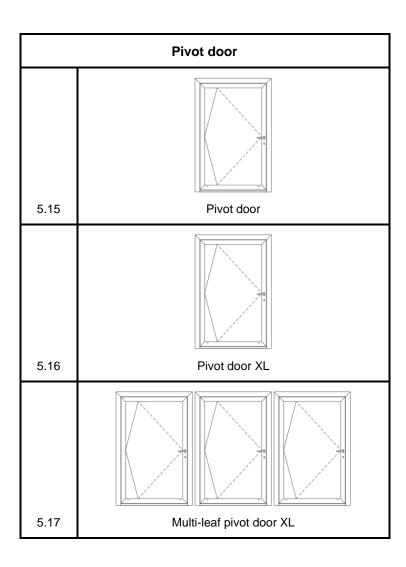
3 VARIANTS

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

	Side hung door									
Opening type		Flush doors		Window doors						
	5.1 5.2		5.3	+ 5.4						
Single-inward opening										
Single-outward opening	5.5	5.6	5.7	+ 5.8						
Double-inward opening	5.9	5.10	5.11							
Double-outward opening	5.12	5.13	5.14							

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

⁽¹⁾ Impact resistance only valid with tubular or L-shaped glazing beads

 $^{^{(2)}}$ Because of the same profile design, characteristics are based on test results for CS 86-HI



5 PERFORMANCE

5.1 Flush doors / Single-inward opening / Brush





		Characteristic	Perform	ance	Notified body - Report	Limits (mm)	
			Essen	tial charact	eristics		
	4.2	Resistance to wind load	C2 (800) Pa)	[0960] – 21.00162	FbxFh < 1352x2204	
	4.5	Watertightness	4A (150) Pa)	[0960] – 21.00162	FbxFh < 1352x2204	
	4.6	Dangerous substances	In the mate	erials deliver	ered by Reynaers, no dangerous substances as indicated in hEN 14351-1 are used.		
	4.7	Impact resistance	5 ⁽¹⁾)	[0960] – 09.1168 (2)	FbxFh > 604x1739	
51-1	4.8	Load-bearing capacity of safety devices	Pass		[0960] – 20.00934	FbxFh < 1400x3000	
EN 14351-1	4.9	Height & width		·	See 6		
_	4.11	Acoustic performance	Glass: 34 (-1;-4)	Doors: 23 (-1;-2)	[0757] – 18-000457- PR03 (GAS-C01-04-en- 01)	FbxFh = 889~1304 x 2062~2942	
	4.12	Thermal transmittance	dim	calculated U-values for he Uf-value tables. certificate BPCB-420-72-			
	4.13	Radiation properties	The	ese propertie	es must be evaluated by the C	E-label of the glass	
	4.14	Air permeability	2		[0960] – 21.00162	FbxFh < 1352x2204	
			Non-esse	ential chara	acteristics		
	4.4.1	Reaction to fire	Anodize Painted Gasket	: A2	EC decision 96/603/EC certificate EFR-21-001664A [0432] – 230006500-6		
	4.16	Operating forces	1 2		[0960] – 18.00012.2 [0960] – 22.00088 Rev A	FbxFh < 1400x3000 256 kg FbxFh < 1400x3000 185 kg	
	4.17	Mechanical strength	4		[0960] – 20.00934	FbxFh < 1400x3000 250 kg	
<u> </u>	4.18	Ventilation			npd		
EN 14351-1	4.19	Bullet resistance (BP version)			npd		
亩	4.20	Explosion resistance			npd		
	4.21	Resistance to repeated opening and closing	8 (1.000 000) 6 (200.000)		[0960] – 18.00012.2 [0960] – 22.00088 Rev A	FbxFh < 1400x3000 256 kg FbxFh < 1400x3000 185 kg	
	4.22	Behaviour between different climates	npd				
	4.23	Burglar resistance (AP version)	RC:		[1309] - 22-27/10.122 [1136] - GSFM-20-083	See report	



5.2 Flush doors / Single-inward opening / Bottom profile





		Characteristic	Performance		Notified body - Report	Limits (mm)		
			Essentia	al characte	eristics			
	4.2	Resistance to wind load	C3 (1200 C2 (800 F		[0960] – 19.00840 [0960] – 20.01457	FbxFh < 1200x2200 FbxFh < 1400x3000		
	4.5	Watertightness	7A (300 F 8A (450 F		[0960] – 19.00840 [0960] – 20.01457	FbxFh < 1200x2200 FbxFh < 1400x3000		
	4.6	Dangerous substances	In the materi	ials deliver	ered by Reynaers, no dangerous substances as indicated in hEN 14351-1 are used.			
	4.7	Impact resistance	5 ⁽¹⁾		[0960] – 09.1168 (2)	FbxFh > 604x1739		
5	4.8	Load-bearing capacity of safety devices	Pass		[0960] – 20.00934	FbxFh < 1400x3000		
EN 14351-1	4.9	Height & width			See 6			
	4.11	Acoustic performance	Glass: Doors 34 (-1;-4) 37 (-2;-41 (-2;-4) 39 (-2;-50 (-2;-8) 43 (-2;-4)		(i) PR03 (GAS-C01-04-	FbxFh = 889~1279 x 2062~2452		
	4.12	Thermal transmittance	dime	calculated U-values for ne Uf-value tables. certificate BPCB-420-72-				
	4.13	Radiation properties	These	e propertie	es must be evaluated by the C	E-label of the glass		
	4.14	Air permeability	4 3		[0960] — 19.00840 [0960] — 20.01457	FbxFh < 1200x2200 FbxFh < 1400x3000		
			Non-esser	Non-essential characteristics				
	4.4.1	Reaction to fire	Anodized: Painted: Gaskets:	A2	EC decision 96/603/EC certificate EFR-21-001664A [0432] – 230006500-6			
	4.16	Operating forces	1 2		[0960] – 18.00012.2 [0960] – 22.00088 Rev A	FbxFh < 1400x3000 256 kg FbxFh < 1400x3000 185 kg		
	4.17	Mechanical strength	4		[0960] – 20.00934	FbxFh < 1400x3000 250 kg		
Σ	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	8 (1.000 000) 6 (200.000)		[0960] – 18.00012.2 [0960] – 22.00088 Rev A	FbxFh < 1400x3000 256 kg FbxFh < 1400x3000 185 kg		
	4.22	Behaviour between different climates			npd			
	4.23	Burglar resistance (AP version)	RC2 RC3		[1309] – 22-27/10.122 [1136] – GSFM-20-083	See report		

 $^{^{(3)}}$ For casement W x H \leq 1050 x 2200. For casement W x H \leq 1304 x 2942: 42 (-2;-4)



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





		Characteristic	Performance	е	Notified body - Report	Limits (mm)
			Essential of	charact	eristics	
	4.2	Resistance to wind load	C2 (800 Pa))	[0960] – 21.00162	FbxFh < 1352x2207
	4.5	Watertightness	5B (200 Pa))	[0960] – 21.00162	FbxFh < 1352x2207
	4.6	Dangerous substances	In the materials deliv		red by Reynaers, no dangerou in hEN 14351-1 are used.	s substances as indicated
	4.7	Impact resistance	5 ⁽¹⁾		[0960] – 09.1168 (2)	FbxFh > 604x1739
<u> -</u>	4.8	Load-bearing capacity of safety devices	Pass		[0960] – 20.00934	FbxFh < 1400x3000
EN 14351-1	4.9	Height & width				
ā	4.11	Acoustic performance	Glass: Doors: 34 (-1;-4) 33 (-2;-4 41 (-2;-4) 34 (-1;-3 50 (-2;-8) 35 (-1;-2		01)	FbxFh = 889~1200 x 2062~2942
	4.12	Thermal transmittance	Ud to be cal dimens	calculated U-values for ne Uf-value tables. certificate BPCB-420-72-		
	4.13	Radiation properties	These p	ropertie	E-label of the glass	
	4.14	Air permeability	3		[0960] – 21.00162	FbxFh < 1352x2207
			Non-essentia	al chara	acteristics	
	4.4.1	Reaction to fire	Anodized: A' Painted: A2 Gaskets: E	!	EC decision 96/603/EC certificate EFR-21-001664A [0432] – 230006500-6	
	4.16	Operating forces	1 2		[0960] – 18.00012.2 [0960] – 22.00088 Rev A	FbxFh < 1400x3000 256 kg FbxFh < 1400x3000 185 kg
	4.17	Mechanical strength	4		[0960] – 20.00934	FbxFh < 1400x3000 250 kg
7	4.18	Ventilation			npd	
EN 14351-1	4.19	Bullet resistance (BP version)			npd	
Ē	4.20	Explosion resistance			npd	
	4.21	Resistance to repeated opening and closing	8 (1.000 000) 6 (200.000)		[0960] – 18.00012.2 [0960] – 22.00088 Rev A	FbxFh < 1400x3000 256 kg FbxFh < 1400x3000 185 kg
	4.22	Behaviour between different climates		•	npd	-
	4.23	Burglar resistance (AP version)	RC2 RC3		[1309] - 22-27/10.122 [1136] - GSFM-20-083	See report



5.4 Window doors / Single-inward opening / Automatic bottom seal + Brush



		Characteristic	Performance	Limits (mm)						
			Essential charac	cteristics						
	4.2	Resistance to wind load	C3 (1200 Pa)	[0960] – 21.00576	FbxFh < 1200x2800					
	4.5	Watertightness		npd						
	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	5 ⁽¹⁾	5 ⁽¹⁾ [0960] – 09.1168 ⁽²⁾						
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 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 properties must be evaluated by the CE-label of the glass							
	4.14	Air permeability	3	[0960] – 21.00576	FbxFh < 1200x2800					
			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		npd						
	4.17	Mechanical strength		npd						
7	4.18	Ventilation		npd						
N 14351-1	4.19	Bullet resistance (BP version)		npd						
Ш	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						



5.5 Flush doors / Single-outward opening / Brush





		Characteristic	Performance		Notified body - Report		Limits (mm)
			Essent	tial charac	cteri	stics	
	4.2	Resistance to wind load	C2 (800	Pa)		[0960] – 21.00162	FbxFh < 1352x2204
	4.5	Watertightness	4A (150	Pa)		[0960] – 21.00162	FbxFh < 1352x2204
	4.6	Dangerous substances	In the mate	erials delive	ered by Reynaers, no dangerous substances as indicated in hEN 14351-1 are used.		
	4.7	Impact resistance	5 ⁽¹⁾			[0960] – 09.1168 (2)	FbxFh > 604x1739
51-1	4.8	Load-bearing capacity of safety devices	Pass			[0960] – 20.00710.1	FbxFh < 1400x3000
EN 14351-1	4.9	Height & width				See 6	
ш	4.11	Acoustic performance	Glass: 34 (-1;-4)			[0757] – 18-000457- PR03 (GAS-C01-04-en- 01)	FbxFh = 889~1304 x 2062~2942
	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			must be evaluated by the CE	-label of the glass
	4.14	Air permeability	2			[0960] – 21.00162	FbxFh < 1352x2204
			Non-esse	ential cha	ract	eristics	
	4.4.1	Reaction to fire	Anodize Painted Gasket	: A2		EC decision 96/603/EC ertificate EFR-21-001664A [0432] – 230006500-6	
	4.16	Operating forces	0			[0960] – 20.00710.1	FbxFh < 1400x3000 250 kg
	4.17	Mechanical strength	4			[0960] – 20.00710.1	FbxFh < 1400x3000 250 kg
7	4.18	Ventilation	npd				
N 14351-1	4.19	Bullet resistance (BP version)				npd	
E	4.20	Explosion resistance	npd				
	4.21	Resistance to repeated opening and closing	8 (1.000 000)			[0960] – 20.00710.1	FbxFh < 1400x3000 250 kg
	4.22	Behaviour between different climates				npd	
	4.23	Burglar resistance (AP version)	RC2 RC3			[1309] – 22-27/10.122 [1136] – GSFM-20-083	See report



5.6 Flush doors / Single-outward opening / Bottom profile





		Characteristic	Performance		Notified body - Report		Limits (mm)
			Essent	ial charac	cterist	ics	
	4.2	Resistance to wind load	C2 (800 C3 (1200			[0960] – 20.01458 [0960] – 22.00924	FbxFh < 1400x3000 FbxFh < 1203x3562
	4.5	Watertightness	7A (300	Pa)		[0960] – 20.01458 [0960] – 22.00924	FbxFh < 1400x3000 FbxFh < 1203x3562
	4.6	Dangerous substances	In the mate	rials deliv		y Reynaers, no dangerous n hEN 14351-1 are used.	s substances as indicated
	4.7	Impact resistance	5 ⁽¹⁾	5 ⁽¹⁾		[0960] – 09.1168 (2)	FbxFh > 604x1739
<u> </u>	4.8	Load-bearing capacity of safety devices	Pass			[0960] – 20.00710.1	FbxFh < 1400x3000
EN 14351-1	4.9	Height & width				See 6	
<u> </u>	4.11	Acoustic performance	Glass: Doors 34 (-1;-4) 37 (-2;- 41 (-2;-4) 39 (-2;- 50 (-2;-8) 43 (-2;-4		-5) -4)	[0757] – 18-000457- PR03 (GAS-C01-04- en-01)	FbxFh = 889~1279 x 2062~2452
	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 10077/2.				
	4.13	Radiation properties	Thes	se propert	ies m	ust be evaluated by the CE	E-label of the glass
	4.14	Air permeability	3			[0960] – 20.01458 [0960] – 22.00924	FbxFh < 1400x3000 FbxFh < 1203x3562
			Non-esse	ntial cha	racter	istics	
	4.4.1	Reaction to fire	Anodized Painted: Gaskets	A2	cert	C decision 96/603/EC ificate EFR-21-001664A 0432] – 230006500-6	
	4.16	Operating forces	0			[0960] – 20.00710.1	FbxFh < 1400x3000 250 kg
	4.17	Mechanical strength	4			[0960] – 20.00710.1	FbxFh < 1400x3000 250 kg
7-	4.18	Ventilation				npd	
EN 14351	4.19	Bullet resistance (BP version)				npd	
Ú	4.20	Explosion resistance	npd				
	4.21	Resistance to repeated opening and closing	8 (1.000 000)			[0960] – 20.00710.1	FbxFh < 1400x3000 250 kg
	4.22	Behaviour between different climates				npd	
	4.23	Burglar resistance (AP version)		RC2 RC3		1309] – 22-27/10.122 136] – GSFM-20-083	See report

 $^{^{(3)}}$ For casement W x H \leq 1050 x 2200. For casement W x H \leq 1304 x 2942: 42 (-2;-4)



5.7 Flush doors / Single-outward opening / Automatic bottom seal





		Characteristic	Performance		N	lotified body - Report	Limits (mm)		
			Essen	Essential characteristics					
	4.2	Resistance to wind load	C2 (800) Pa)		[0960] – 21.00162	FbxFh < 1352x2204		
	4.5	Watertightness	4A (150) Pa)		[0960] – 21.00162 (3)	FbxFh < 1352x2204		
	4.6	Dangerous substances	In the materials deliv		vered by Reynaers, no dangerous substances as indicated in hEN 14351-1 are used.				
	4.7	Impact resistance	5 ⁽¹⁾			[0960] - 09.1168 (2)	FbxFh > 604x1739		
<u> </u>	4.8	Load-bearing capacity of safety devices	Pass			[0960] – 20.00710.1	FbxFh < 1400x3000		
EN 14351-1	4.9	Height & width		1		See 6			
Ē	4.11	Acoustic performance	Glass: Doors: 34 (-1;-4) 33 (-2;-5 41 (-2;-4) 34 (-1;-3 50 (-2;-8) 35 (-1;-2		5) 3)	[0757] – 18-000457- PR03 (GAS-C01-04-en- 01)	FbxFh = 889~1200 x 2062~2942		
	4.12	Thermal transmittance	Ud to be calculated in function dimensions 1230x2180m			2180mm can be found in th	ction of the project. Pre-calculated U-values for 80mm can be found in the Uf-value tables. er certification of BCCA: certificate BPCB-420-72-10077/2.		
	4.13	Radiation properties	These proper		ies m	oust be evaluated by the CE	E-label of the glass		
	4.14	Air permeability	3			[0960] – 21.00162	FbxFh < 1352x2204		
			Non-ess	ential char	aracteristics				
	4.4.1	Reaction to fire	Anodize Painted Gasket	l: A2	cer	C decision 96/603/EC tificate EFR-21-001664A [0432] – 230006500-6			
	4.16	Operating forces	0			[0960] – 20.00710.1	FbxFh < 1400x3000 250 kg		
	4.17	Mechanical strength	4			[0960] – 20.00710.1	FbxFh < 1400x3000 250 kg		
1-1	4.18	Ventilation				npd			
EN 14351	4.19	Bullet resistance (BP version)				npd			
Ē	4.20	Explosion resistance		npd					
	4.21	Resistance to repeated opening and closing	8 (1.000 000)			[0960] – 20.00710.1	FbxFh < 1400x3000 250 kg		
	4.22	Behaviour between different climates		npd					
	4.23	Burglar resistance (AP version)	RC:		[1309] – 22-27/10.122 [1136] – GSFM-20-083		See report		

⁽³⁾ Automatic bottom seal + Brush



5.8 Window doors / Single-outward opening



		Characteristic	Performance	Notified body - Report	Limits (mm)					
			Essential charac	cteristics						
	4.2	Resistance to wind load	C3 (1200 Pa)	[0960] – 21.00762-0	FbxFh < 1200x2800					
	4.5	Watertightness		npd						
	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	5 ⁽¹⁾	[0960] – 09.1168 ⁽²⁾	FbxFh > 604x1739					
121-1	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 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 properties must be evaluated by the CE-label of the glass							
	4.14	Air permeability	3	[0960] – 21.00762-0	FbxFh < 1200x2800					
			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		npd						
	4.17	Mechanical strength		npd						
7	4.18	Ventilation		npd						
N 14351-1	4.19	Bullet resistance (BP version)		npd						
EN	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						



5.9 Flush doors / Double-inward opening / Brush





		Characteristic	Perform	ance	N	lotified body - Report	Limits (mm)
			Essen	tial charac	cteris	tics	
	4.2	Resistance to wind load	C2 (800) Pa)		[0960] – 21.00162	FbxFh < 1352x2350
	4.5	Watertightness	3A (100) Pa)		[0960] – 21.00162	FbxFh < 1352x2350
	4.6	Dangerous substances	In the mate	erials delive	ered by Reynaers, no dangerous substances as indicated in hEN 14351-1 are used.		
	4.7	Impact resistance	5 (1)	5 ⁽¹⁾		[0960] – KG/HRU/age/12.0649 ⁽²⁾	FbxFh > 649x1742
21-1	4.8	Load-bearing capacity of safety devices	Pass			[0960] – 22.00323	FbxFh < 1400x3000
EN 14351-1	4.9	Height & width				See 6	
	4.11	Acoustic performance	Glass: Doors: 34 (-1;-4) 23 (-1;-2)			[0757] – 18-000457- PR03 (GAS-C01-04-en- 01)	FbxFh = 889~1279 x 2062~2452
	4.12	Thermal transmittance	dim	nensions 12	calculated U-values for le Uf-value tables. certificate BPCB-420-72-		
	4.13	Radiation properties	These proper		ies m	oust be evaluated by the CE	E-label of the glass
	4.14	Air permeability	2			[0960] – 21.00162	FbxFh < 1352x2350
			Non-esse	ential char	racte	ristics	
	4.4.1	Reaction to fire	Anodize Painted Gasket	: A2	cer	C decision 96/603/EC tificate EFR-21-001664A [0432] – 230006500-6	
	4.16	Operating forces	0			[0960] – 22.00323	FbxFh < 1400x3000 353 kg
	4.17	Mechanical strength	4			[0960] – 22.00323	FbxFh < 1400x3000 353 kg
7	4.18	Ventilation				npd	
EN 14351-1	4.19	Bullet resistance (BP version)				npd	
Ē	4.20	Explosion resistance				npd	
	4.21	Resistance to repeated opening and closing	7 (500.000)			[0960] – 22.00323	FbxFh < 1400x3000 353 kg
	4.22	Behaviour between different climates		- 1	npd		
	4.23	Burglar resistance (AP version)	RC2 RC3			[1309] – 22-27/10.122 1136] – GSFM-20-083	See report



5.10 Flush doors / Double-inward opening / Bottom profile





		Characteristic	Performan	nce	Notified body - Report	Limits (mm)	
			Essentia	l characte	eristics		
	4.2	Resistance to wind load	C2 (800 P	'a)	[0960] – 21.00162	FbxFh < 1338x2352	
	4.5	Watertightness	6A (250 P	'a)	[0960] – 21.00162	FbxFh < 1338x2352	
	4.6	Dangerous substances	In the materia	als deliver	vered by Reynaers, no dangerous substances as indicated in hEN 14351-1 are used.		
	4.7	Impact resistance	5 ⁽¹⁾		[0960] – SKG/HRU/age/12.0649 ⁽²⁾	FbxFh > 649x1742	
-	4.8	Load-bearing capacity of safety devices	Pass		[0960] – 22.00323	FbxFh < 1400x3000	
EN 14351-1	4.9	Height & width		•	See 6		
E	4.11	Acoustic performance	Glass: Doors 34 (-1;-4) 36 (-3;- 41 (-2;-4) 38 (-3;- 50 (-2;-8) 41 (-1;-		01)	FbxFh = 889~1279 x 2062~2452	
	4.12	Thermal transmittance	Ud to be d	alculated mensions	calculated U-values for in the Uf-value certificate BPCB-420-72-		
	4.13	Radiation properties	These	propertie	es must be evaluated by the CE	E-label of the glass	
	4.14	Air permeability	3		[0960] – 21.00162	FbxFh < 1338x2352	
			Non-essen	tial chara	aracteristics		
	4.4.1	Reaction to fire	Anodized: Painted: A Gaskets:	A2	EC decision 96/603/EC certificate EFR-21-001664A [0432] – 230006500-6		
	4.16	Operating forces	0		[0960] – 22.00323	FbxFh < 1400x3000 353 kg	
	4.17	Mechanical strength	4		[0960] – 22.00323	FbxFh < 1400x3000 353 kg	
<u>-</u>	4.18	Ventilation			npd		
EN 14351-′	4.19	Bullet resistance (BP version)			npd		
Ē	4.20	Explosion resistance			npd		
	4.21	Resistance to repeated opening and closing	7 (500.000)		[0960] – 22.00323	FbxFh < 1400x3000 353 kg	
	4.22	Behaviour between different climates		•	npd		
	4.23	Burglar resistance (AP version)	RC2 RC3		[1309] – 22-27/10.122 [1136] – GSFM-20-083	See report	



5.11 Flush doors / Double-inward opening / Automatic bottom seal





		Characteristic	Perform	ance	Notifie	d body - Report	Limits (mm)
			Essent	ial charac	teristics		
	4.2	Resistance to wind load	B2 (800	Pa)	[096	0] – 21.00162	FbxFh < 1352x2500
	4.5	Watertightness	3A (100	3A (100 Pa)		0] – 21.00162	FbxFh < 1352x2500
	4.6	Dangerous substances	In the mate	rials delive		ynaers, no dangerou N 14351-1 are used.	s substances as indicated
	4.7	Impact resistance	5 ⁽¹⁾		[0960] – SKG/HRU/age/12.0649 ⁽²⁾		FbxFh > 649x1742
-	4.8	Load-bearing capacity of safety devices	Pass	6	[096	0] – 22.00323	FbxFh < 1400x3000
EN 14351-1	4.9	Height & 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 (-1;-3		57] – 18-000457- 3 (GAS-C01-04-en- 01)	FbxFh = 889~1200 x 2062~2452
	4.12	Thermal transmittance	Ud to be	Ud to be calculated in function of the project. P dimensions 2000x2180mm can be four tables. Uf-values are calculated under certification of BCC		80mm can be found tables.	d in the Uf-value
	4.13	Radiation properties	These propert		ties must be evaluated by the CE-label of the glass		
	4.14	Air permeability	2		[096	0] – 21.00162	FbxFh < 1352x2500
			Non-esse	ential char	acteristics	3	
	4.4.1	Reaction to fire	Anodized: A1 Painted: A2 Gaskets: E		certificate	cision 96/603/EC e EFR-21-001664A – 230006500-6	
	4.16	Operating forces	0		[096	0] – 22.00323	FbxFh < 1400x3000 353 kg
	4.17	Mechanical strength	4		[096	0] – 22.00323	FbxFh < 1400x3000 353 kg
<u>-</u>	4.18	Ventilation		npd			
EN 14351-′	4.19	Bullet resistance (BP version)			npd		
ā	4.20	Explosion resistance				npd	
	4.21	Resistance to repeated opening and closing	7 (500.0	00)	[096	0] – 22.00323	FbxFh < 1400x3000 353 kg
	4.22	Behaviour between different climates			npd		
	4.23	Burglar resistance (AP version)	RC2 RC3			- 22-27/10.122 - GSFM-20-083	See report



5.12 Flush doors / Double-outward opening / Brush





Characteristic		Performance		Notified body - Report		Limits (mm)	
			Essen	tial charac	cteris	etics	
	4.2	Resistance to wind load	B2 (800	Pa)		[0960] – 21.00162	FbxFh < 1352x2350
	4.5	Watertightness	4A (150) Pa)		[0960] – 21.00162	FbxFh < 1352x2350
	4.6	Dangerous substances	In the mate	erials delive		by Reynaers, no dangerous in hEN 14351-1 are used.	s substances as indicated
	4.7	Impact resistance	5 (1)	5 ⁽¹⁾		[0960] – KG/HRU/age/12.0649 ⁽²⁾	FbxFh > 649x1742
21-1	4.8	Load-bearing capacity of safety devices	Pas			[0960] – 22.00323	FbxFh < 1400x3000
EN 14351-1	4.9	Height & width				See 6	
Ш	4.11	Acoustic performance	Glass: 34 (-1;-4)	Doors: 23 (-1;-2		[0757] – 18-000457- PR03 (GAS-C01-04-en- 01)	FbxFh = 889~1279 x 2062~2452
	4.12	Thermal transmittance	dim	Ud to be calculated in function of the p dimensions 1230x2180mm can b Uf-values are calculated under certification 10077			e Uf-value tables.
	4.13	Radiation properties	These properti		ies m	nust be evaluated by the CE	E-label of the glass
	4.14	Air permeability				[0960] – 21.00162	FbxFh < 1352x2350
			Non-ess	ential char	racte	ristics	
	4.4.1	Reaction to fire	Anodized: A1 Painted: A2 Gaskets: E		cer	EC decision 96/603/EC tificate EFR-21-001664A [0432] – 230006500-6	
	4.16	Operating forces	0			[0960] – 22.00323	FbxFh < 1400x3000 353 kg
	4.17	Mechanical strength	4			[0960] – 22.00323	FbxFh < 1400x3000 353 kg
7	4.18	Ventilation		npd			
EN 14351-1	4.19	Bullet resistance (BP version)			npd		
Ē	4.20	Explosion resistance				npd	
	4.21	Resistance to repeated opening and closing	7 (500.000)			[0960] – 22.00323	FbxFh < 1400x3000 353 kg
	4.22	Behaviour between different climates		- 1	npd		
	4.23	Burglar resistance (AP version)	RC2 RC3			[1309] – 22-27/10.122 [1136] – GSFM-20-083	See report



5.13 Flush doors / Double-outward opening / Bottom profile





Characteristic		Performa	nce	Notified body - Report	Limits (mm)	
			Essentia	al charact	eristics	
	4.2	Resistance to wind load	C2 (800 F	Pa)	[0960] – 21.00162	FbxFh < 1339x2352
	4.5	Watertightness	7A (300 Pa)		[0960] – 21.00162	FbxFh < 1339x2352
	4.6	Dangerous substances	In the materi	als deliver	red by Reynaers, no dangerous in hEN 14351-1 are used.	s substances as indicated
	4.7	Impact resistance	5 ⁽¹⁾		[0960] – SKG/HRU/age/12.0649 ⁽²⁾	FbxFh > 649x1742
	4.8	Load-bearing capacity of safety devices	Pass		[0960] – 22.00323	FbxFh < 1400x3000
EN 14351-1	4.9	Height & width			See 6	
	4.11	Acoustic performance	Glass: 34 (-1;-4) 41 (-2;-4) 50 (-2;-8)	Doors: 36 (-3;-6) 38 (-3;-5) 41 (-1;-3)	01)	FbxFh = 889~1279 x 2062~2452
	4.12	Thermal transmittance	d	calculated limensions	in function of the project. Pre- 2000x2180mm can be found tables. dunder certification of BCCA: 10077/2.	in the Uf-value
	4.13	Radiation properties	These properti		ies must be evaluated by the CE-label of the glass	
	4.14	Air permeability	3		[0960] – 21.00162	FbxFh < 1339x2352
			Non-esser	ntial chara	ncteristics	
	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	0		[0960] – 22.00323	FbxFh < 1400x3000 353 kg
	4.17	Mechanical strength	4		[0960] – 22.00323	FbxFh < 1400x3000 353 kg
<u>-</u>	4.18	Ventilation				
EN 14351-′	4.19	Bullet resistance (BP version)			npd	
ā	4.20	Explosion resistance			npd	
	4.21	Resistance to repeated opening and closing	7 (500.000	0)	[0960] – 22.00323	FbxFh < 1400x3000 353 kg
	4.22	Behaviour between different climates			npd	
	4.23	Burglar resistance (AP version)	RC2 RC3		[1309] – 22-27/10.122 [1136] – GSFM-20-083	See report



5.14 Flush doors / Double-outward opening / Automatic bottom seal





Characteristic		Perform	ance	Notified body - Report	Limits (mm)	
			Essent	ial charac	teristics	
	4.2	Resistance to wind load	C2 (800	Pa)	[0960] – 21.00162	FbxFh < 1352x2500
	4.5	Watertightness	3A (100	Pa)	[0960] – 21.00162	FbxFh < 1352x2500
	4.6	Dangerous substances	In the mate	erials delive	red by Reynaers, no dangero in hEN 14351-1 are used	
	4.7	Impact resistance	5 ⁽¹⁾		[0960] – SKG/HRU/age/12.0649 ⁽²⁾	FbxFh > 649x1742
-	4.8	Load-bearing capacity of safety devices	Pass	s	[0960] – 22.00323	FbxFh < 1400x3000
EN 14351-1	4.9	Height & width			See 6	
	4.11	Acoustic performance	Glass: 34 (-1;-4) 41 (-2;-4) 50 (-2;-8)	Doors: 33 (-2;-5 34 (-1;-3 35 (-1;-2	PR03 (GAS-C01-04-en-	FbxFh = 889~1200 x 2062~2452
	4.12	Thermal transmittance	Ud to be	e calculated dimensions	e-calculated U-values for d in the Uf-value	
	4.13	Radiation properties	These properti		ries must be evaluated by the CE-label of the glass	
	4.14	Air permeability	2		[0960] – 21.00162	FbxFh < 1352x2500
			Non-esse	ential char	acteristics	
	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	0		[0960] – 22.00323	FbxFh < 1400x3000 353 kg
	4.17	Mechanical strength	4		[0960] – 22.00323	FbxFh < 1400x3000 353 kg
<u>-</u>	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	7 (500.0	00)	[0960] – 22.00323	FbxFh < 1400x3000 353 kg
	4.22	Behaviour between different climates			npd	
	4.23	Burglar resistance (AP version)	RC2 RC3		[1309] – 22-27/10.122 [1136] – GSFM-20-083	See report



5.15 Pivot door



A.2 Resistance to wind load C3 (1200 Pa) [0960] - 19.00305 (%) FbxFh < 1700x2700			Characteristic	Performance	Notified body - Report	Limits (mm)				
4.5 Watertightness				Essential charac	cteristics					
A.6 Dangerous substances		4.2	Resistance to wind load	C3 (1200 Pa)	[0960] – 19.00305 ⁽⁵⁾	FbxFh < 1700x2700				
4.0 Dangerous substances In hEN 14351-1 are used.		4.5	Watertightness	4A (150 Pa)	[0960] – 19.00305 ⁽⁵⁾	FbxFh < 1700x2700				
4.8 Load-bearing capacity of safety devices Pass [0960] – 18.01316 FbxFh < 1700x2700		4.6	Dangerous substances							
4.9 Height & width See 6		4.7	Impact resistance		npd					
4.11 Acoustic performance npd	1-1	4.8		Pass	[0960] – 18.01316	FbxFh < 1700x2700				
4.11 Acoustic performance npd	EN 14351	4.9	Height & width		See 6					
A.12 Thermal transmittance Comparison Comparison		4.11	Acoustic performance		npd					
4.14 Air permeability 4 [0960] - 19.00305 (6) FbxFh < 1700x2700		4.12	Thermal transmittance	dimensions 2000x2180mm can be found in the Uf-value tables. Uf-values are calculated under certification of BCCA: certificate BPCB-420-72-						
A.4.1 Reaction to fire		4.13	Radiation properties	These properties must be evaluated by the CE-label of the glass						
4.4.1 Reaction to fire Painted: A2 Gaskets: E Painted: A2 Certificate EFR-21-001664A [0432] - 230006500-6 4.16 Operating forces 1 [0960] - 18.01316 FbxFh < 1700x2700 204 kg 4.17 Mechanical strength 4 [0960] - 18.01316 FbxFh < 1700x2700 204 kg 4.18 Ventilation npd 4.19 Bullet resistance (BP version) npd 4.20 Explosion resistance npd 4.21 Resistance to repeated opening and closing (100 000) [0960] - 18.01316 FbxFh < 1700x2700 204 kg 4.22 Behaviour between different climates npd 4.23 Burglar resistance (AP RC2 [1136] - CAR-19-075 See report		4.14	Air permeability	4	[0960] – 19.00305 ⁽⁵⁾	FbxFh < 1700x2700				
4.4.1 Reaction to fire Painted: A2 Gaskets: E Certificate EFR-21-001664A [0432] - 230006500-6 4.16 Operating forces 1 [0960] - 18.01316 FbxFh < 1700x2700 204 kg 4.17 Mechanical strength 4 [0960] - 18.01316 FbxFh < 1700x2700 204 kg 4.18 Ventilation npd 4.19 Bullet resistance (BP version) npd 4.20 Explosion resistance npd 4.21 Resistance to repeated opening and closing (100 000) [0960] - 18.01316 FbxFh < 1700x2700 204 kg 4.22 Behaviour between different climates npd 4.23 Burglar resistance (AP RC2 [1136] - CAR-19-075 See report				Non-essential cha	racteristics					
4.16 Operating forces 1		4.4.1	Reaction to fire	Painted: A2	certificate EFR-21-001664A					
4.17 Mechanical strength 4 [0960] - 18.01316 204 kg 4.18 Ventilation npd 4.19 Bullet resistance (BP version) npd 4.20 Explosion resistance npd 4.21 Resistance to repeated opening and closing (100 000) [0960] - 18.01316 FbxFh < 1700x2700 204 kg 4.22 Behaviour between different climates npd 4.23 Burglar resistance (AP RC2 [1136] - CAR-19-075 See report		4.16	Operating forces	1	[0960] – 18.01316					
4.19 Bullet resistance (BP version)		4.17	Mechanical strength	4	[0960] – 18.01316					
4.19 Bullet resistance (BP version) 4.20 Explosion resistance 1.21 Resistance to repeated opening and closing 4.22 Behaviour between different climates 1.23 Burglar resistance (AP RC2 [1136] - CAR-19-075 See report	7	4.18	Ventilation	npd						
4.20 Explosion resistance npd 4.21 Resistance to repeated opening and closing 5 (100 000) [0960] – 18.01316 FbxFh < 1700x2700 204 kg	N 14351	4.19		npd						
4.21 opening and closing (100 000) [0960] – 18.01316 204 kg 4.22 Behaviour between different climates npd 4.23 Burglar resistance (AP RC2 [1136] – CAR-19-075 See report		4.20	Explosion resistance	npd						
4.22 different climates npd 4.23 Burglar resistance (AP RC2 [1136] – CAR-19-075 See report		4.21			[0960] – 18.01316					
		4.22			npd					
		4.23	` `	RC2		See report				

With double manual lock



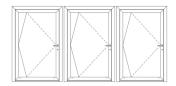
5.16 Pivot door XL



		Characteristic	Performance	Notified body - Report	Limits (mm)			
			Essential chara	cteristics				
	4.2	Resistance to wind load	C2 (800 Pa)	[0960] – 20.00498	FbxFh < 2000x3200			
	4.5	Watertightness	4A (150 Pa)	[0960] – 20.00498	FbxFh < 2000x3200			
	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	Pass	[0960] – 21.00298	FbxFh < 2500x3559			
EN 14351-1	4.9	Height & width		See 6				
Ш	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	3	[0960] – 20.00498	FbxFh < 2000x3200			
			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] – 21.00298	FbxFh < 2500x3559 488 kg			
	4.17	Mechanical strength	4	[0960] – 21.00298	FbxFh < 2500x3559 488 kg			
<u>-</u>	4.18	Ventilation	npd					
EN 14351-1	4.19	Bullet resistance (BP version)		npd				
Ē	4.20	Explosion resistance	npd					
	4.21	Resistance to repeated opening and closing	5 (100 000)	[0960] – 21.00298	FbxFh < 2500x3559 488 kg			
	4.22	Behaviour between different climates	npd					
	4.23	Burglar resistance (AP version)	npd					



5.17 Multi-leaf pivot door XL

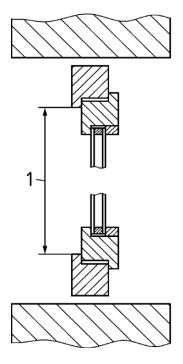


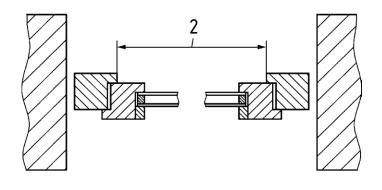
		Characteristic	Performance		Notified body - Report	Limits (mm)		
			Essential charac	cteri	stics			
	4.2	Resistance to wind load	B2 (800 Pa)		[0960] – 20.00737	FbxFh < 1865x3500		
	4.5	Watertightness	npd					
	4.6	Dangerous substances	In the materials deliver	In the materials delivered by Reynaers, no dangerous substances as indicated in hEN 14351-1 are used.				
	4.7	Impact resistance		npd				
1-1	4.8	Load-bearing capacity of safety devices	Pass		[0960] – 21.00298	FbxFh < 2500x3559		
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	2	[0960] – 20.00737		FbxFh < 1865x3500		
			Non-essential char	racte	eristics			
	4.4.1	Reaction to fire	Anodized: A1 Painted: A2 Gaskets: E		EC decision 96/603/EC rtificate EFR-21-001664A [0432] – 230006500-6			
	4.16	Operating forces	2		[0960] – 21.00298	FbxFh < 2500x3559 488 kg		
	4.17	Mechanical strength	4		[0960] – 21.00298	FbxFh < 2500x3559 488 kg		
<u>-</u>	4.18	Ventilation		npd				
EN 14351-1	4.19	Bullet resistance (BP version)			npd			
亩	4.20	Explosion resistance			npd			
	4.21	Resistance to repeated opening and closing	5 (100 000)		[0960] – 21.00298	FbxFh < 2500x3559 488 kg		
	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

10/02/2023

	VARIANTS	Characteristic
22.00088 Rev A	5.1~5.3	4.16 + 4.21
22.00924	5.6	4.2 + 4.5 + 4.14
22-27/10.122	5.1~5.3 , 5.5~5.7, 5.9 ~5.14	

22/9/2022

	VARIANTS	Characteristic
22.00088	5.1 ~ 5.3	4.16 + 4.21
20.01457	5.2	4.2 + 4.5 + 4.14
20.01458	5.6	4.2 + 4.5 + 4.14

26/5/2022

	VARIANTS	Characteristic
22.00323	5.9 – 5.14	4.16 – 4.17 – 4.21

22/4/2022

	VARIANTS	Characteristic
Window doors Single-outward opening	5.8	
Pivot door XL	5.16	
Multi-leaf pivot door XL	5.17	
19.00840	5.2	4.2 + 4.5 + 4.14
20.00710.1	5.5~5.7 + 5.12~5.14	4.8 + 4.16 + 4.17 + 4.21
20.00934	5.1~5.3 + 5.9~5.11	4.8 + 4.17 + 4.21
21.00162	5.1~5.3 + 5.5~5.7 + 5.9~5.14	4.2 + 4.5 + 4.14
21.00576	5.4	4.2 + 4.14
22-27/10.120	5.1~5.3 + 5.5~5.7 + 5.9~5.14	4.23
GSFM-20-083	5.1~5.3 + 5.5~5.7 + 5.9~5.14	4.23
CAR-19-257	5.15	4.23
EFR-21-001664A	5.1~5.17	4.4.1