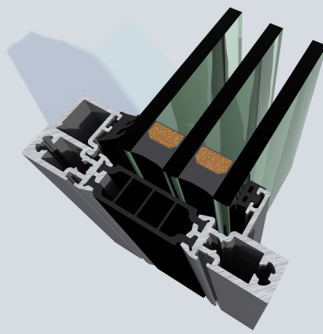




hansen



Hansen Millennium®

Hansen Millennium® is a unique window and door system with extremely slim profiles. The slim profiles enables maximized light and energy transmittance.

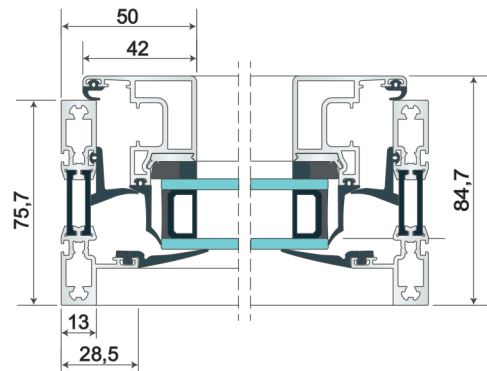
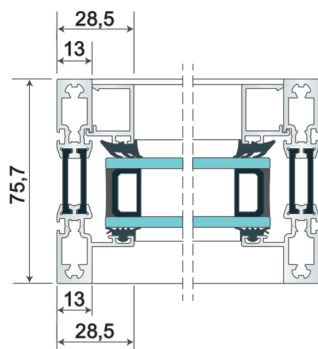
The system can be used with for single, double and triple glazing up to 61mm.
Tilt/turn vents standard up to 100kg/2m² and up to 3m² and 150kg at special conditions.
Integrated vents and hardware are concealed but also available as visible.
When low environmental impacts are required Hansen will be able to supply the aluminium profiles in special aluminium produced with renewable energy.
This reduces the impact from the profiles with more than 75% compared to standard aluminium (HYDRO REDUXA ®).

Construction:	The static properties of the profiles are optimized, as the construction of the aluminium profiles and the thermal break contributes to the strength.
Design:	Max dim sash: W to 1750mm (only tilt W to 2300mm), H to 2800mm Max dim single door: W to 1500mm, H to 2350mm Max dim terrace door: W to 1500mm, H to 3000mm
Profiles:	The system supplier HansenConcepts is ISO 9001 certified. The system includes many profile variations, for different visual expressions. Can be surface treated as desired in different colours outside and inside.
Insulating zone:	The profiles are energy optimised with a specially designed thermal break between the aluminium profiles. This breaks the cold bridge throughout the entire length of the profiles.
Air permeability:	Class 4
Watertightness:	E 1200
Resistance to wind load:	C3

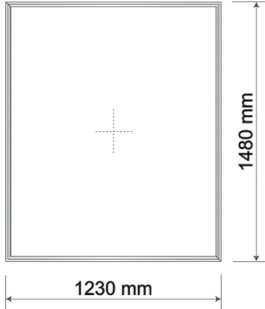
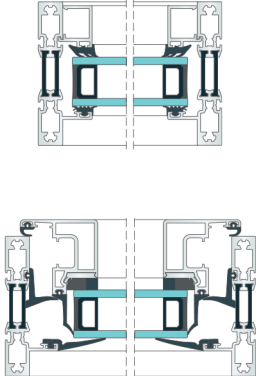
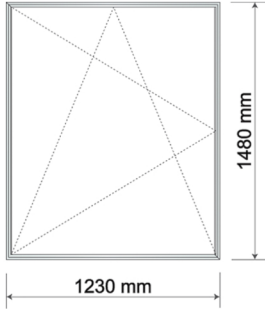
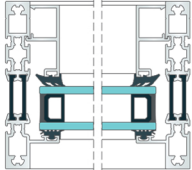
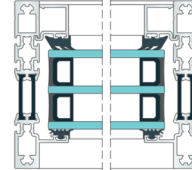
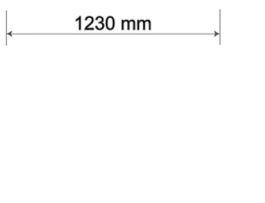
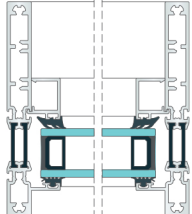


G24 Millennium

Due to Energy Requirements in the Danish Building Regulations G24 and G30 are no longer available for the Danish Market.

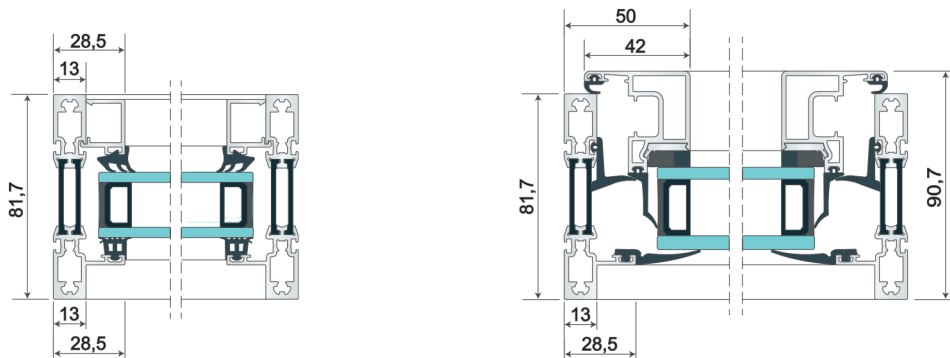


Examples of heat transfer coefficients U_w

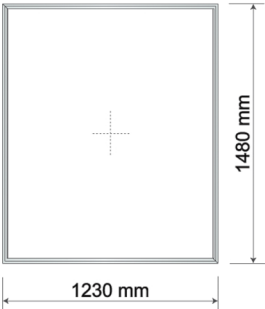
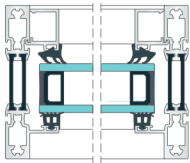
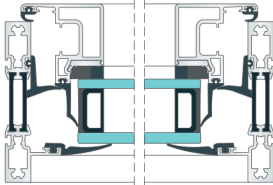
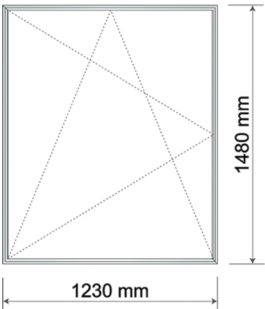
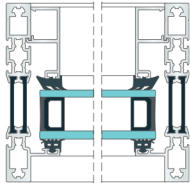
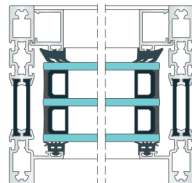
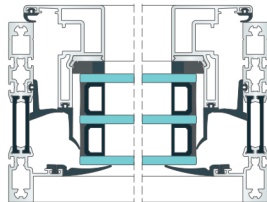
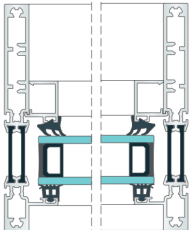
Window scheme	Section		Value U_w [$W/m^2 K$]			
			2-layer glass with a warm edge		3-layer glass with a warm edge	
	2-layer glass	3-layer glass	$U_g=1,0$	$U_g=1,1$	$U_g=0,5$	$U_g=0,7$
	G24 	-	1,3	1,4	-	-
		-	1,3	1,4	-	-
	G24A  	-	1,3	1,4	0,83	1
		-	-	-	0,94	1,1
	G24B 	-	1,3	1,4	-	-
		-	1,3	1,4	-	-

G30 Millennium

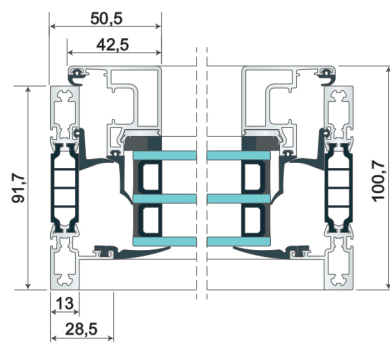
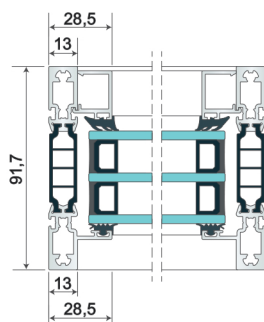
Due to Energy Requirements in the Danish Building Regulations
G24 and G30 are no longer available for the Danish Market.



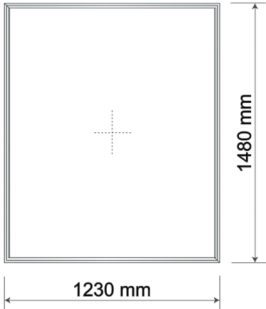
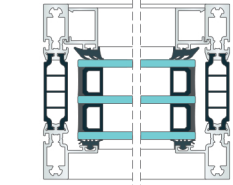
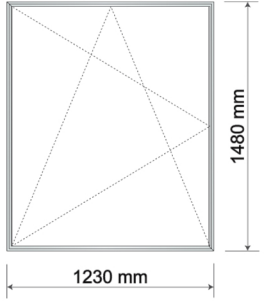
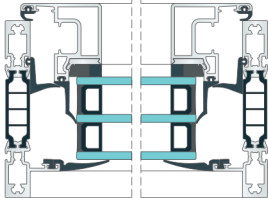
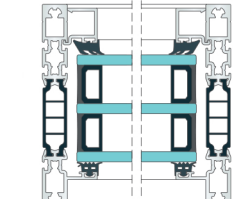
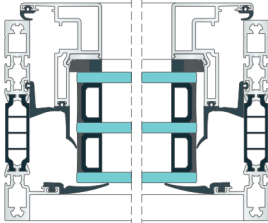
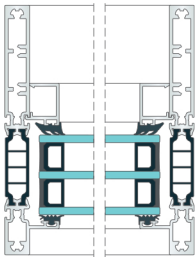
Examples of heat transfer coefficients U_w

Window scheme	Section		Value U_w [$W/m^2 K$]			
			2-layer glass with a warm edge		3-layer glass with a warm edge	
	2-layer glass	3-layer glass	$U_g=1,0$	$U_g=1,1$	$U_g=0,5$	$U_g=0,7$
	G30  	-	1,3	1,4	-	-
		-	1,3	1,4	-	-
	G30A   	-	1,3	1,4	0,81	0,99
		-	-	-	0,89	1,1
	G30B  	-	1,3	1,4	-	-
		-	1,3	1,4	-	-

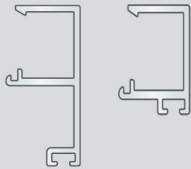
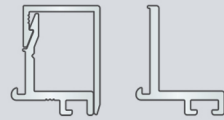
G40 Millennium



Examples of heat transfer coefficients U_w

Window scheme	Section	Value U_w [$W/m^2 K$]	
		3-layer glass with a warm edge	
		$U_g=0,5$	$U_g=0,7$
	G40	0,74	0,92
			
	G40A	0,82	0,99
			
	G40B	0,75	0,93
			
		0,84	1,00
			
		0,75	0,93
			

Technical specification

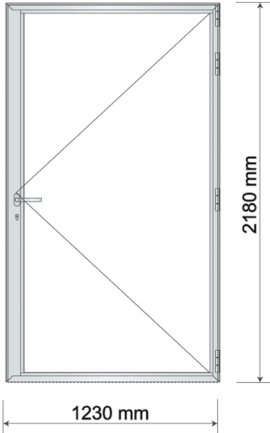
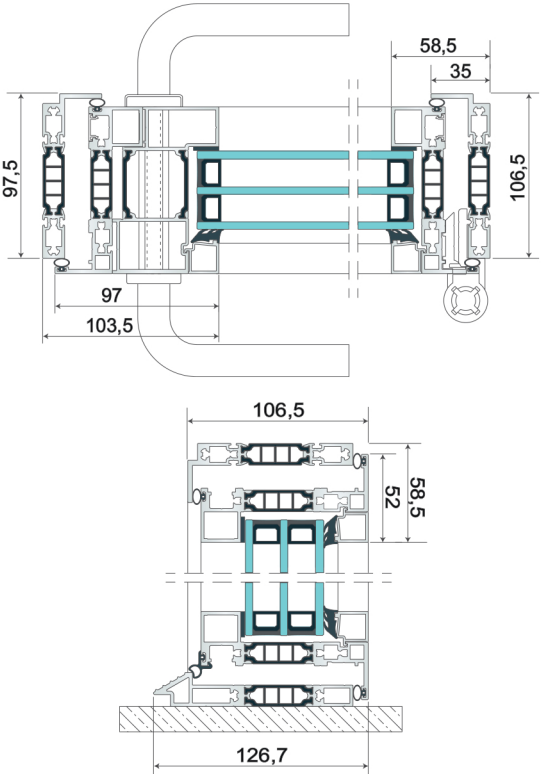
		Depth of frame	Depth of sash	Glazing range		
				Fixed fields with standard glazing bead 	Fixed fields with angular and click glazing bead 	Sash
Millennium G24	G24	75,7mm	84,7mm	4-10mm, 20-32mm	20-26mm	26-30mm
	G24A	88,7mm	97,7mm	17-23mm, 33-45mm	33-39mm	41-45mm
	G24B	114,7 mm	-	4-10mm, 20-32mm	33-39mm	-
Millennium G30	G30	81,7mm	90,7mm	10-16mm, 26-38mm	26-32mm	32-36mm
	G30A	94,7mm	103,7mm	23-29mm, 39-51mm	39-45mm	47-51mm
	G30B	120,6mm	-	10-16mm, 26-38mm	26-32mm	-
Millennium G40	G40	91,7mm	100,7mm	20-26mm, 36-48mm	36-42mm	42-46mm
	G40A	104,7mm	113,7mm	33-39mm, 49-61mm	49-55mm	57-67mm
	G40B	130,6mm	-	20-26mm, 36-48mm	36-42mm	-

		Turn/tilt window	Tilt window
Elegance hardware	Minimum size	405x595mm	645x405mm
	Maximum dimensions	W to 1400mm, H to 2800mm W:H ≤1,5:1	W to 2300mm, H to 1500mm
	Maximum weight	100kg	60kg
	Maximum area	2,0 m2	2,0 m2
Select hardware	Maximum dimensions	W to 1750mm, H to 2800mm W:H ≤ 2:1	
	Maximum weight	150kg	
	Maximum area	3,0 m2	

Door G40

* Due to Energy Requirements in the Danish Building Regulations are no longer available for the Danish Market.

Examples of heat transfer coefficients Ud

Door scheme	Section	Value Ud [$\text{W/m}^2 \text{K}$]	
		3-layer glass with a warm edge	
		Ug=0,5	Ug=0,7
		0,90	1,10 *

Technical specification	Single door G40	Double door G40	Terrace door G40
Depth of frame	97,5mm		
Depth of leaf	106,5mm		
Glazing range	30mm, 31mm, 47mm, 48mm, 51mm, 52mm		
Minimum dimensions	H=1936mm, W=700mm (W to 760mm for emergency door)	H=1936mm W=600mm (W to 760mm for emergency door) - master leaf W=230mm (W to 540mm for emergency door) - slave leaf	H=1843mm, W=543mm
Maximum dimensions	H to max. 2520mm W to 1500mm (W to 1320mm for emergency door)	H to max. 2520mm W to 1500mm (W to 2640 for emergency door) - master and slave leaf	H to 3000mm, W to 1500mm (W to double door to 3000mm)

Catalog door fittings Millennium G40

Assa EL 402



Assa EL 480



Assa EL 482



FUHR 803



FUHR 855 GL



FUHR 833



FUHR 833P



FUHR 834P



MILA terrace



LOCK		Assa EL 402	Assa EL 480	Assa EL 482	FUHR 803	FUHR 855 GL	FUHR 833	FUHR 833P	FUHR 834P	MILA terrace
Skandinavian std.		X	X	X						
Euro cylinder					X	X	X	X	X	
Hook						X				
Latch		X	X	X	X		X	X	X	X
1 point lock		X	X	X	X					
3 point lock						X	X	X	X	X
Mechanical striking plate (instead of roll)					X	X	X	X	X	
Roll		X			X	X				
Operated by handle		X	X	X						X
Operated by key					X	X	X	X	X	
Handle - handle			X	X	X	X	X			X - inside only
Pull handle - handle		X	X	X	X	X	X			
Pull handle - pull handle		X			X	X	X			
El. Striking plate					X	X				
Electrical controll			X	X					X	
Door closer	GEZE TS 5000	X	X	X	X	X	X	X	X	X
	GEZE BOXER	X	X	X	X	X	X	X	X	
EN1125 EN179			X					X	X	
Hight limit	1600 - 2350	X	X	X	X					
	1936 - 2500					X	X	X	X	
	1870 - 3000									X
Air permeability		Class 1	Class 1	Class 1	Class 1	Class 4	Class 4	Class 4	Class 4	Class 4
Water tightness		E1200	E1200	E1200	E1200	E1200	E1200	E1200	E1200	E1200
Resistance to wind load		C 5	C 5 Not suitable with door automatics	C 5	C 5	C 5	C 5	C 5	C 5	C 5

Inactive leaf locking



Striking plate



Standard pullhandle



Standard pullhandle



Handle

PBA door handle (21131) 2 pcs. pin length



Euro cylinder

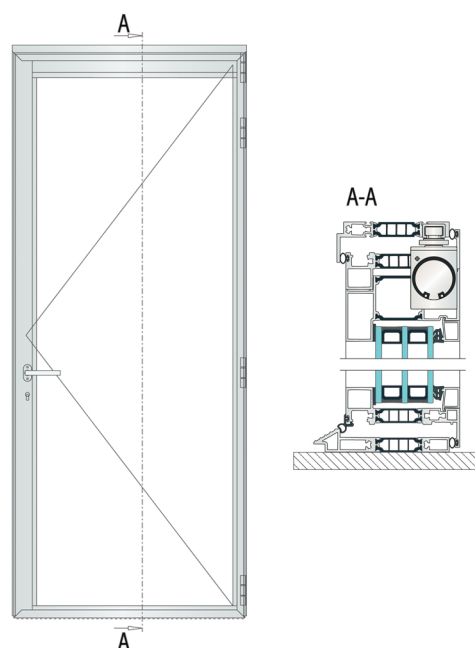
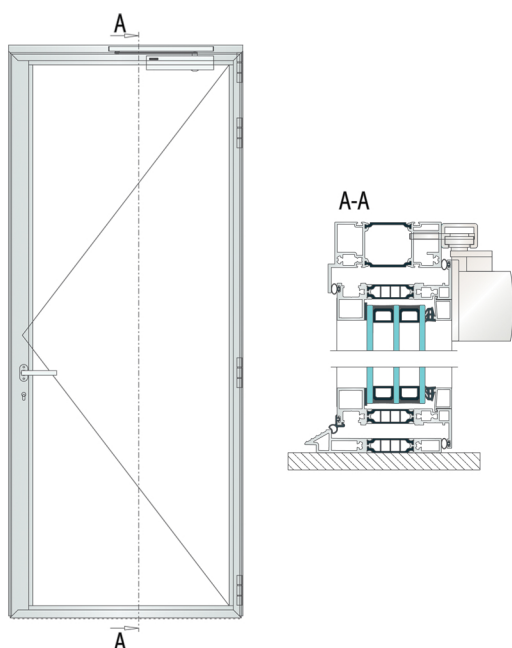


Door closers

TS5000 - overhead door closer



GEZE Boxer - hidden door closer

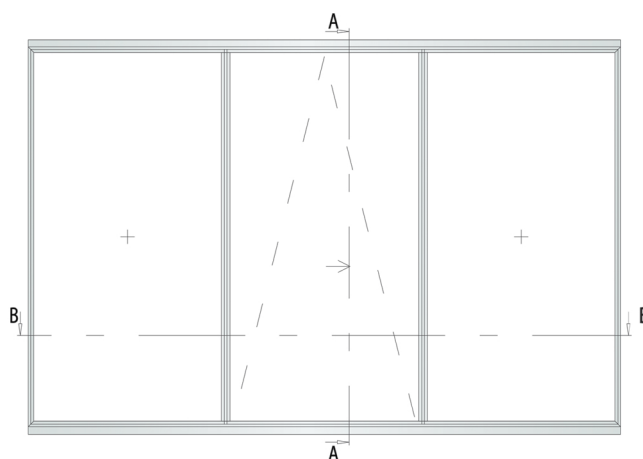


Tilt/slide windows Millennium

Technical specification

Range of height	620-2300mm
Range of width	620-1650mm
Maximum weight	160kg
L:H	Max. 2,5:1

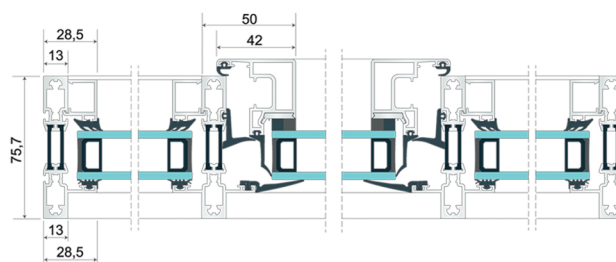
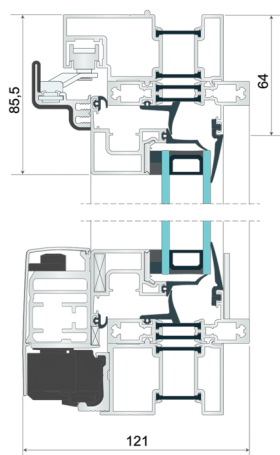
Cross section



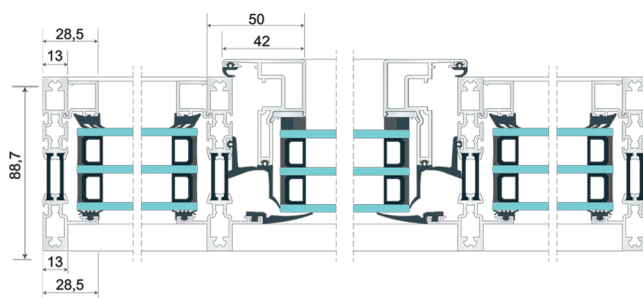
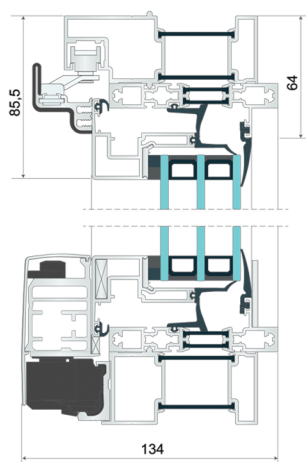
Scheme A

Scheme B

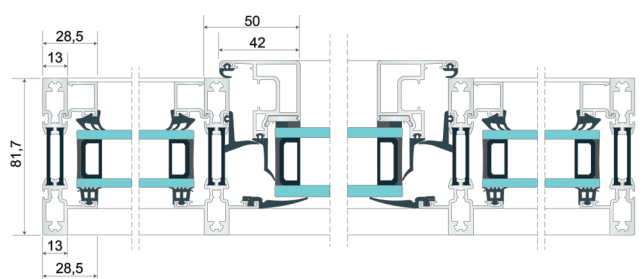
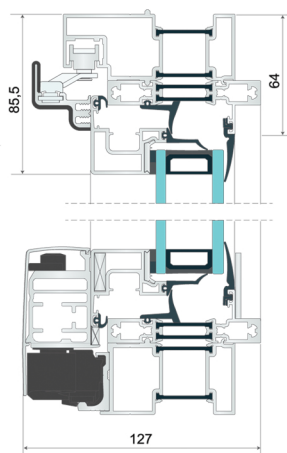
G24



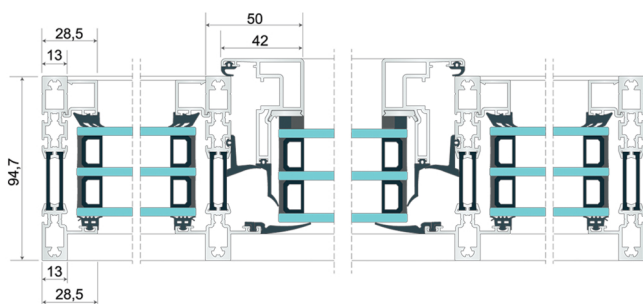
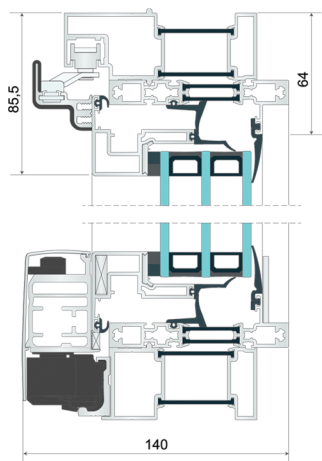
G24A



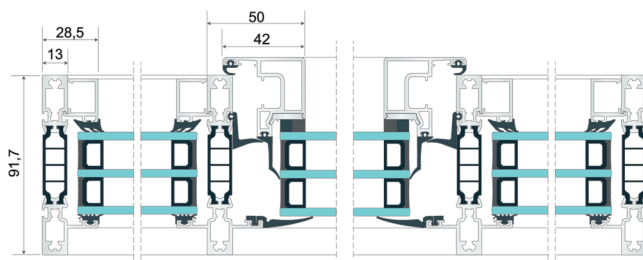
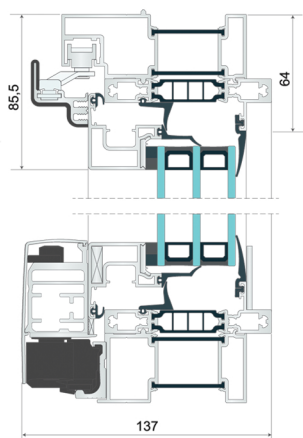
G30



G30A



G40

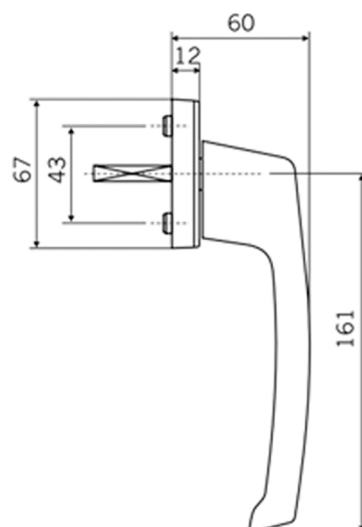
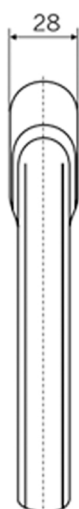


Handle

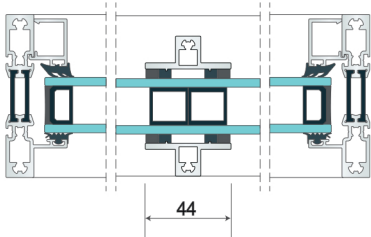
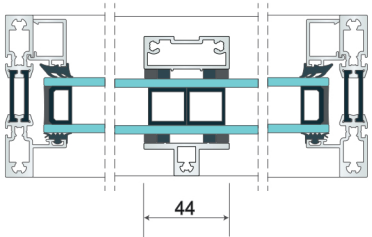
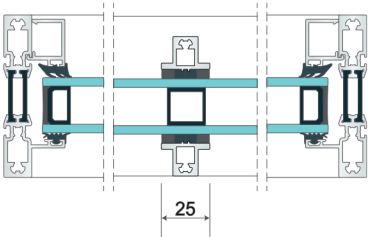
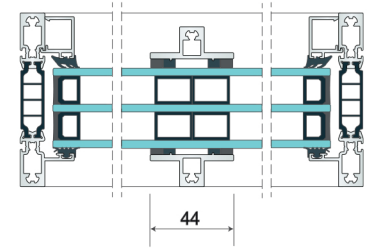
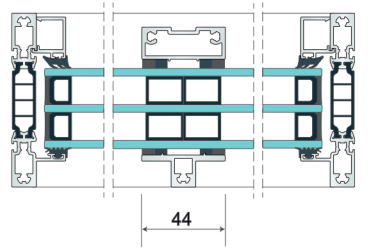
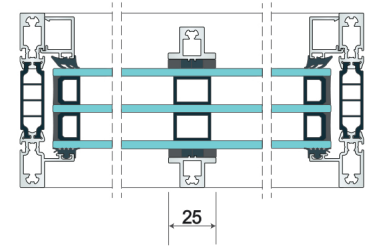
Handle Winkhaus 1468300 EV1



Handle Winkhaus 1207884 white, 1207883 black, 1210983 EV1



Types of dummy bars

Option 1	Option 2	Option 3
		
		

Standard Size Limits of IGUs, delivered by Pilkington IGP

Glass thickness /mm/	Spacer bar /mm/	Maximum length of IGU /mm/	Maximum width of IGU /mm/	Maximum area of IGU /m ² /	Maximum side of square /mm/
3	6 - 16	1500	1270	1,60	1270
4	6	2420	1300	2,86	1300
	8 - 10	2440	1300	3,17	1300
	12-20	2440	1300	3,17	1300
5	6	3000	1750	4,00	1750
	8-10	3000	1750	4,80	2100
	12-20	3000	1815	5,10	2100
6	6	3500	1980	5,88	2000
	8-10	3500	2280	7,98	2440
	12-20	3500	2440	8,54	2440
8,10	6	3500	2000	7,00	2440
	8-10	3500	2500	8,75	2700
	12-20	3500	2500	8,75	2700
12	12-20	3500	2700	9,45	2700

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