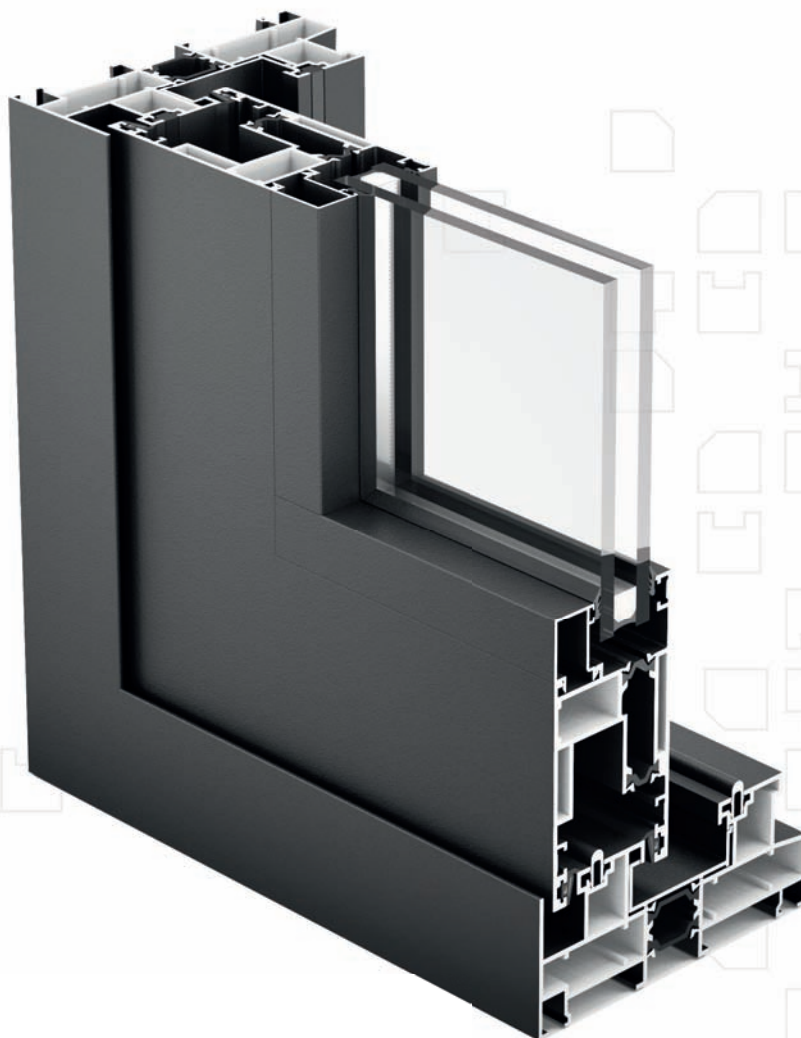


SISTEMA ELEVABLE



SISTEMA CORREDERO / THERMIA® ER52

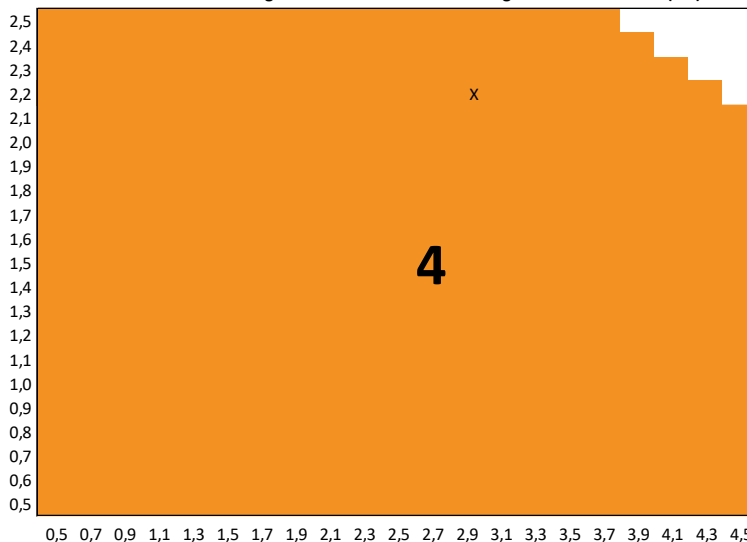
**THERMIA® ER52**

El tamaño no es problema.

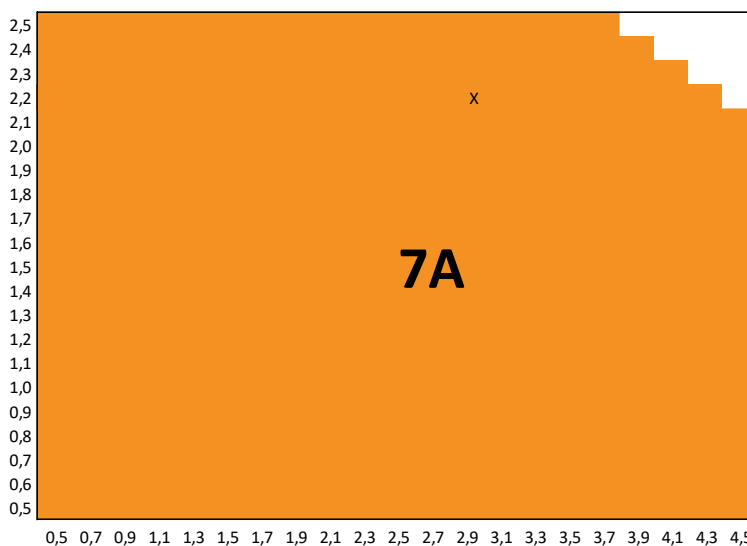
**THERMIA®**  
BARCELONA

**Ventanas para vivir mejor**

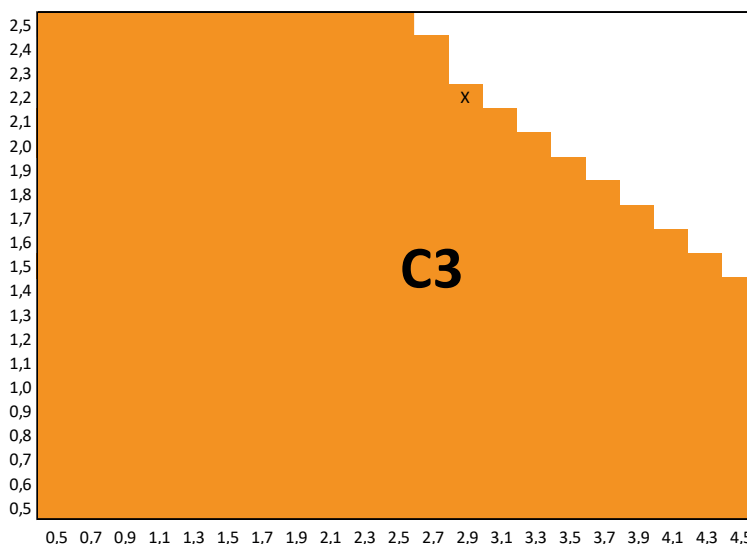
PERMEABILIDAD AL AIRE según EN 12207 - Marcado CE según EN 14351-1:2006 (E.1)



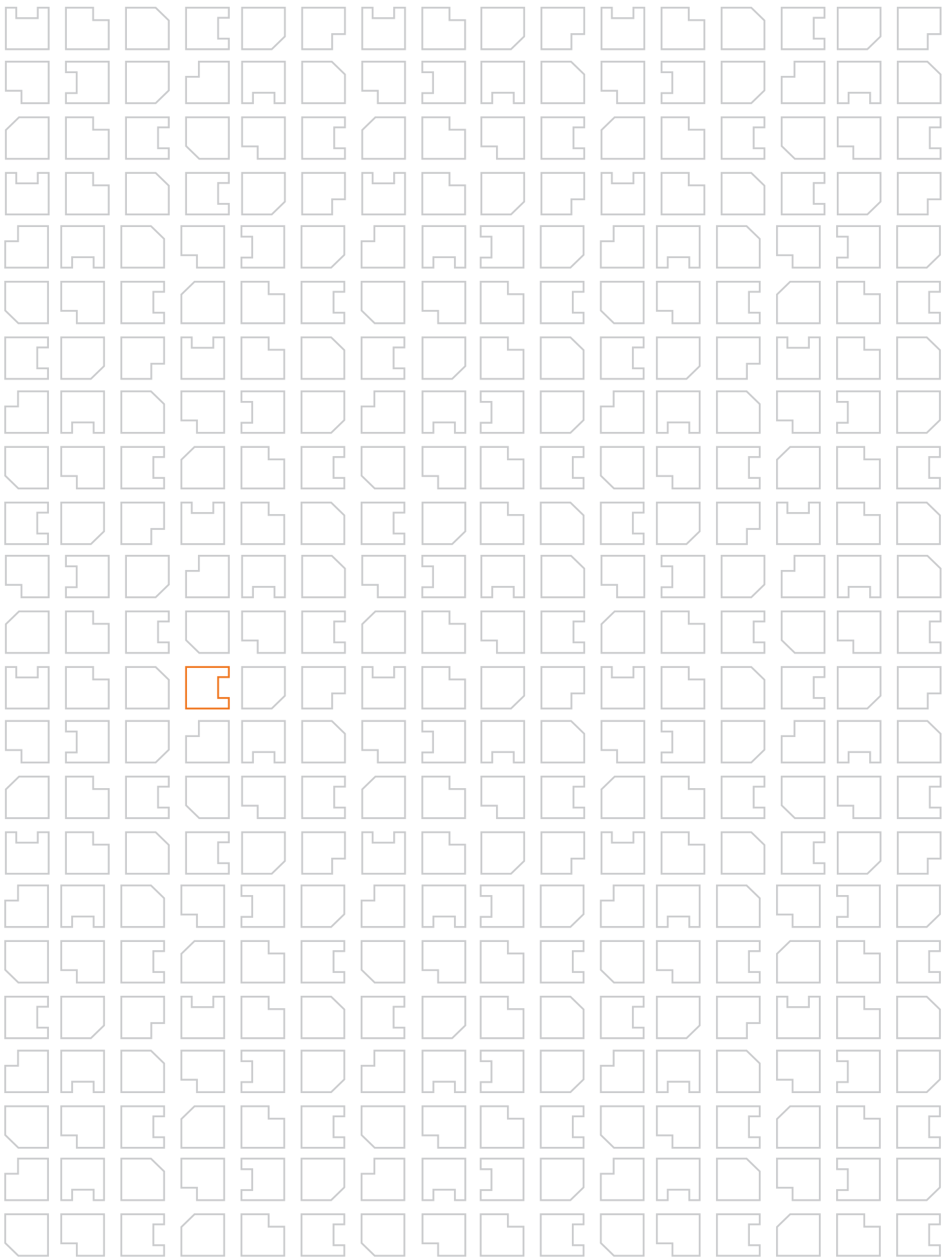
ESTANQUIDAD AL AGUA según EN 12208 - Marcado CE según EN 14351-1:2006 (E.1)



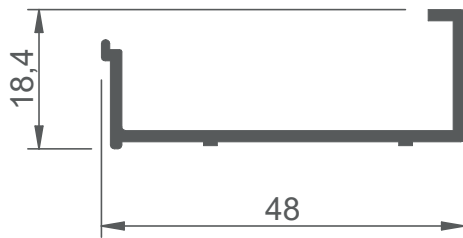
RESISTENCIA AL VIENTO según EN 12210 - Marcado CE según EN 14351-1:2006 (E.1)



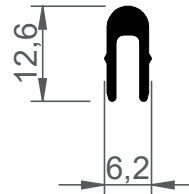
Resultados obtenidos de los informes oficiales  
numeros: 10/32300370, 09/32302504, 09/32302670,  
y 09/100142-1612 según ensayos realizados en  
Applus, y en base al Anexo E de la norma  
EN 14351-1:2006



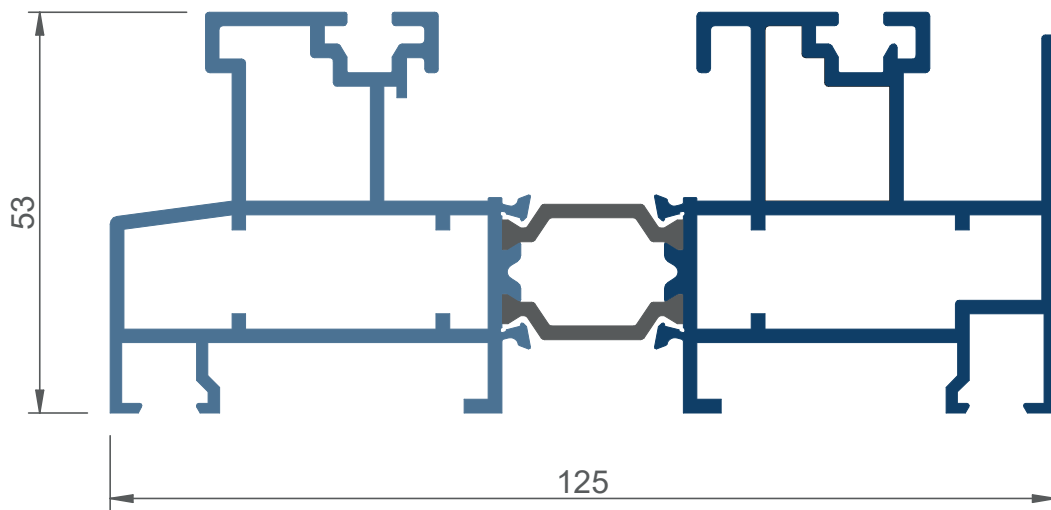
ER52 4103



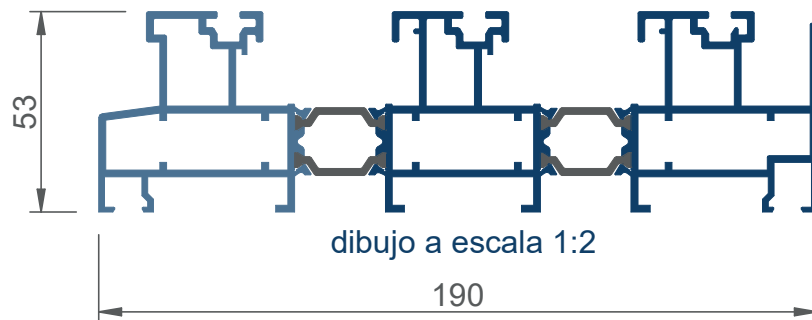
ER52 4100

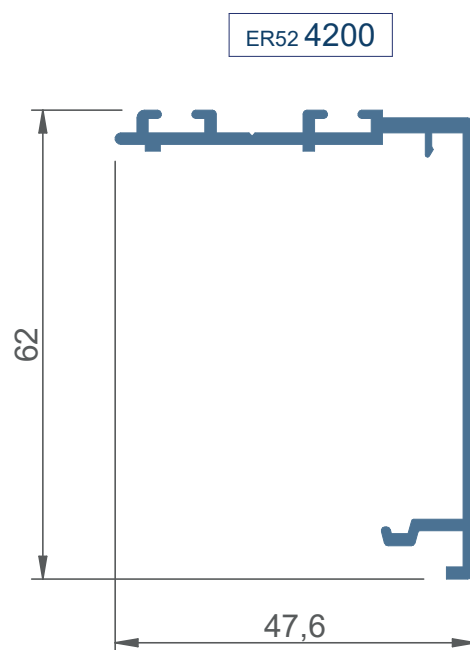
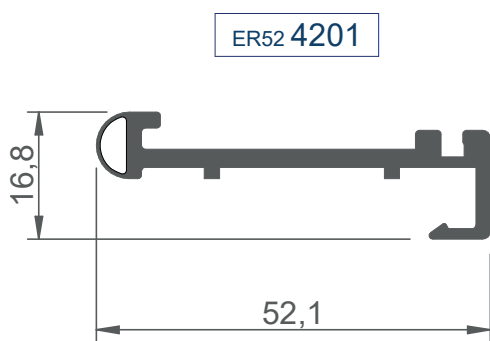
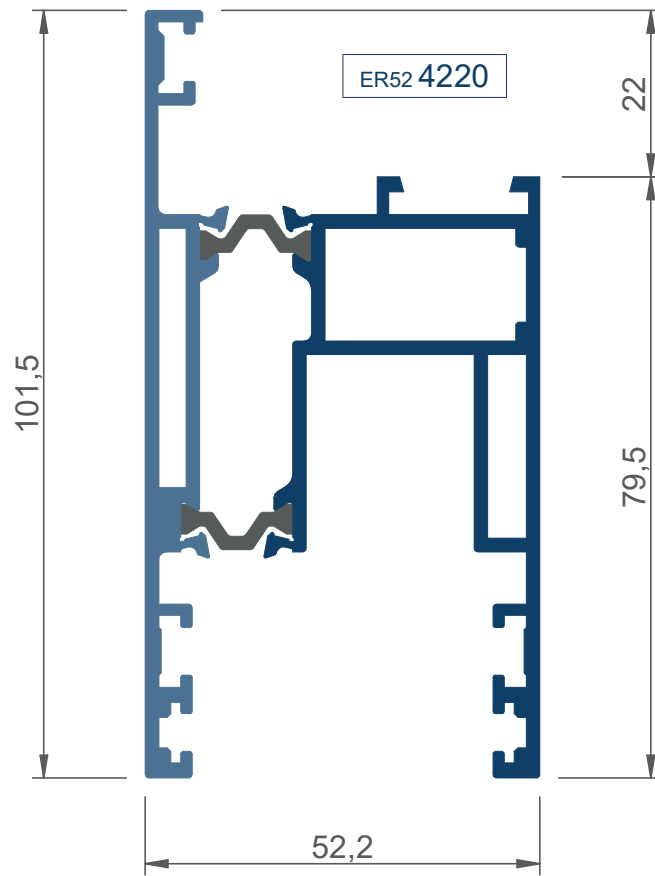


ER52 4110

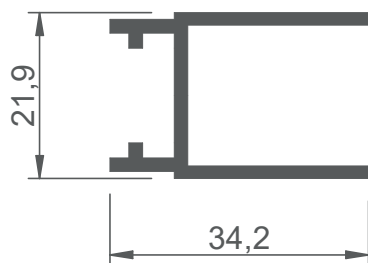


ER52 4130

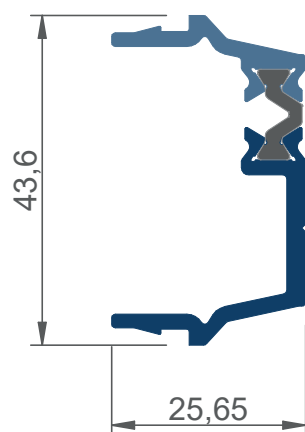




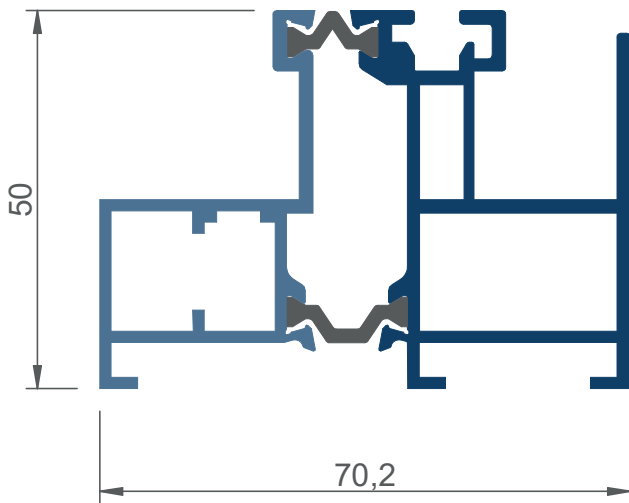
ER52 4500



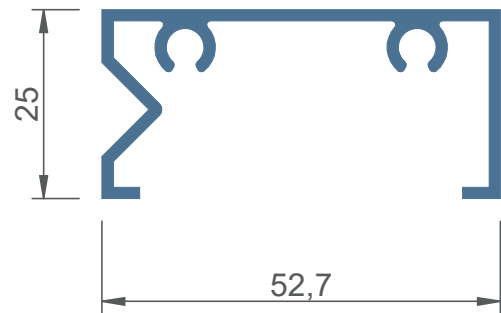
ER52 4250



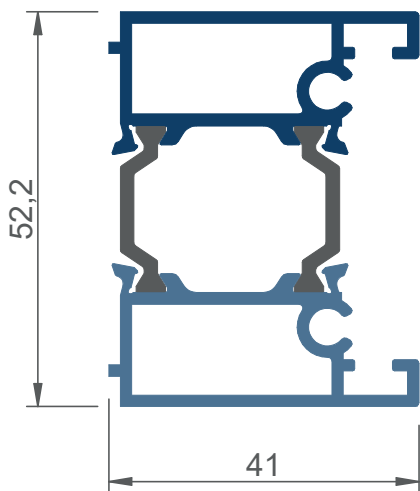
ER52 4120



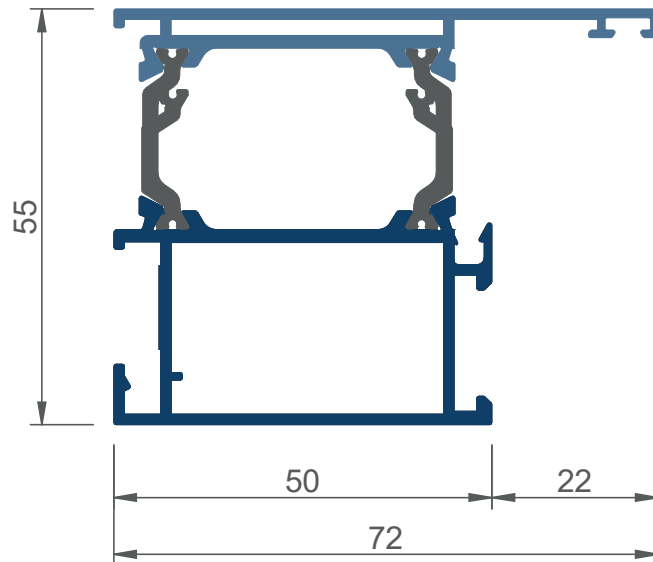
ER52 4141



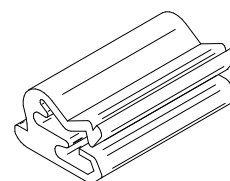
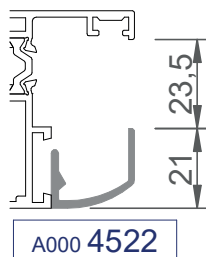
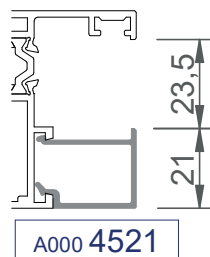
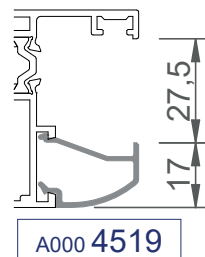
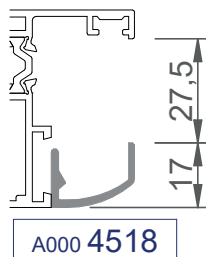
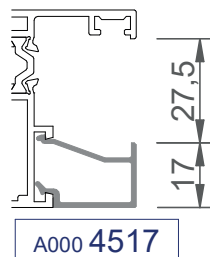
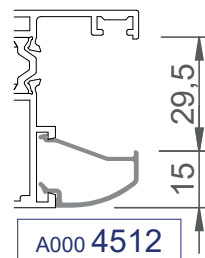
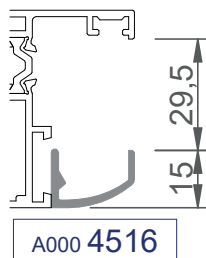
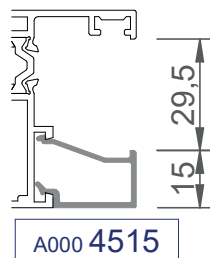
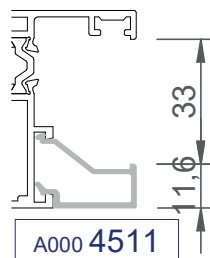
ER52 4140



AR62 4150

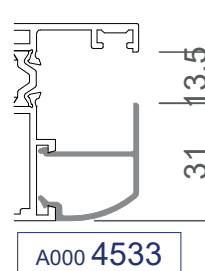
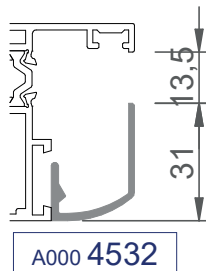
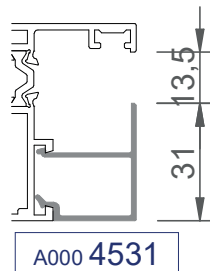
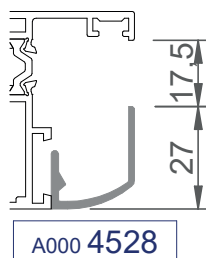
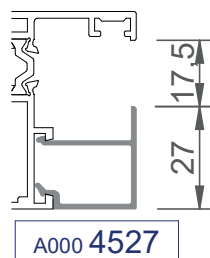


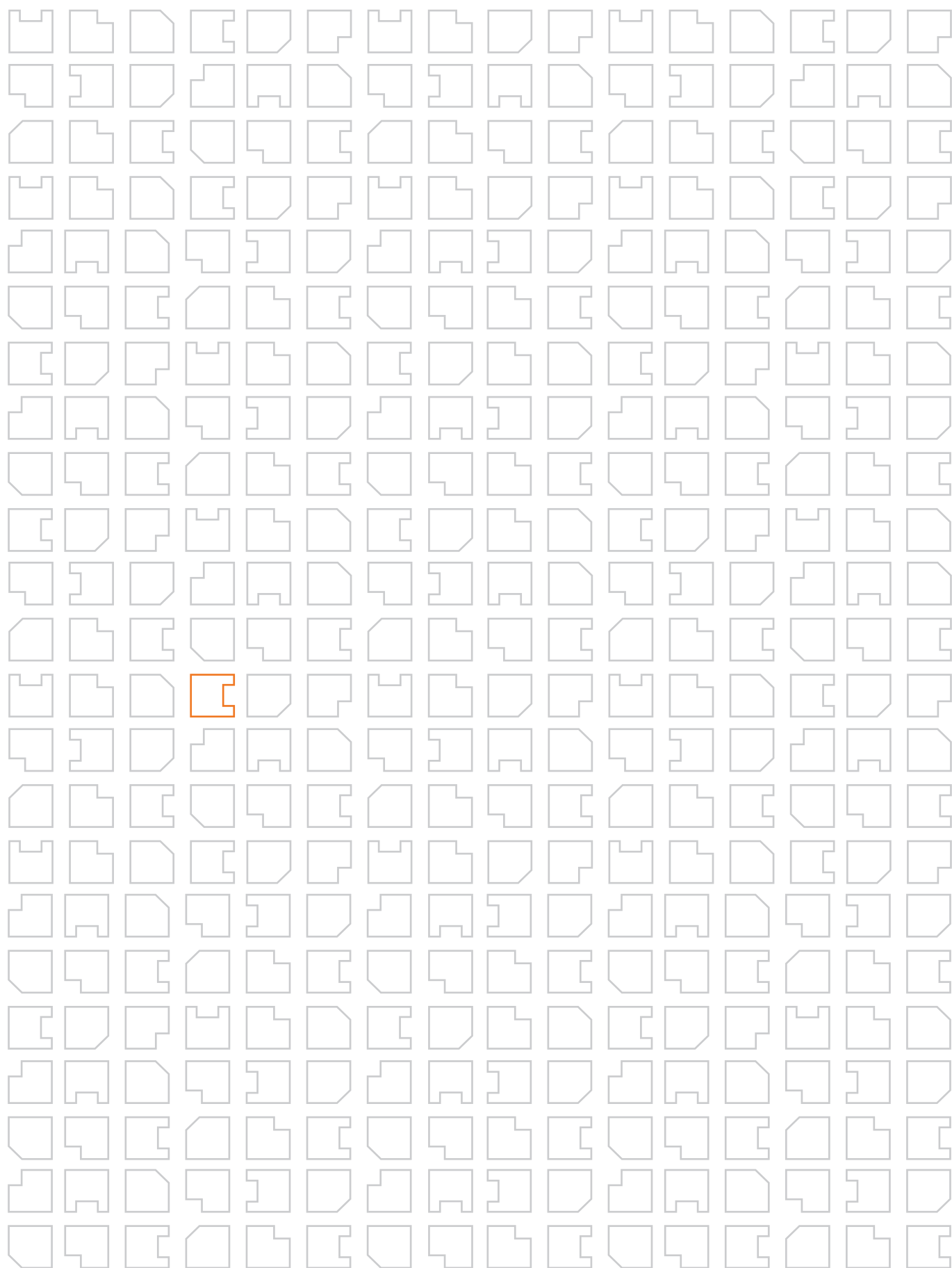


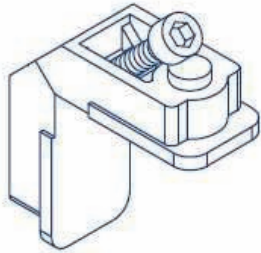


grapa junquillos elípticos

A000 2102



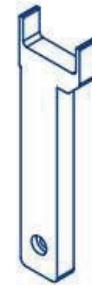




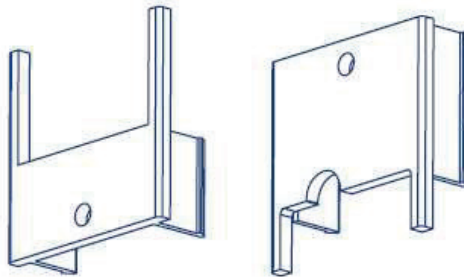
ER52 2110



ER52 2140



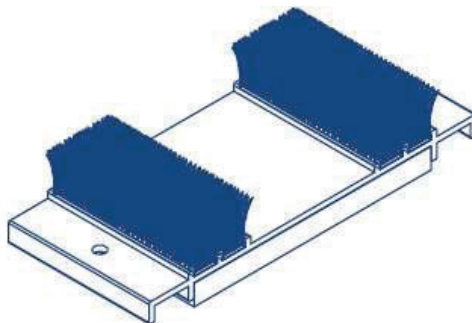
ER52 2346



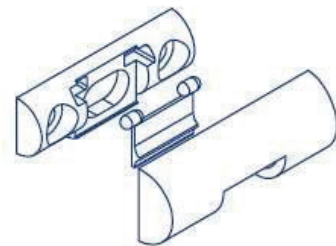
ER52 3100



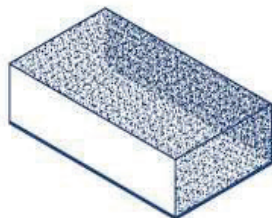
ER52 2320



ER52 2343



ER52 2300



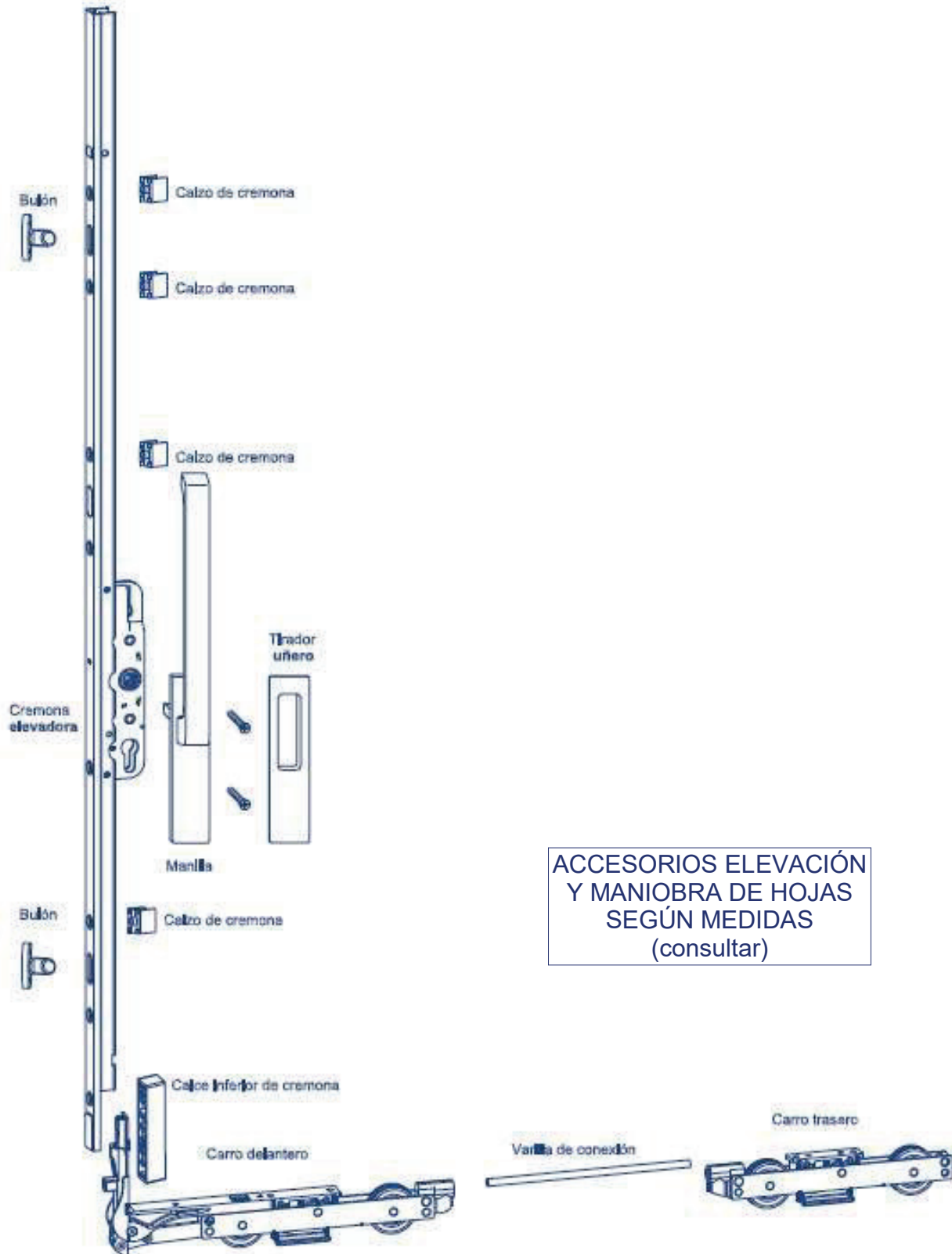
ER52 2344

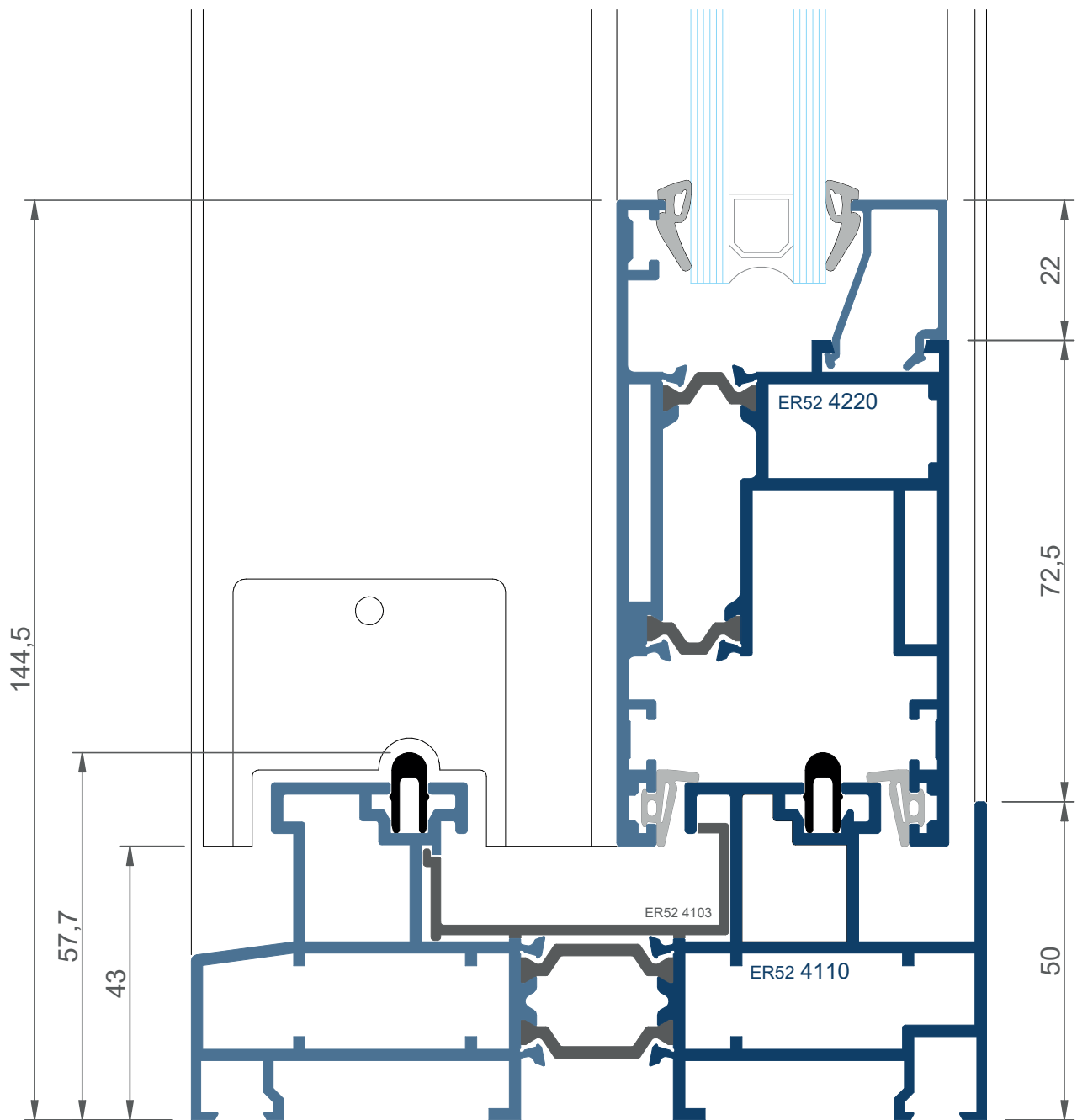


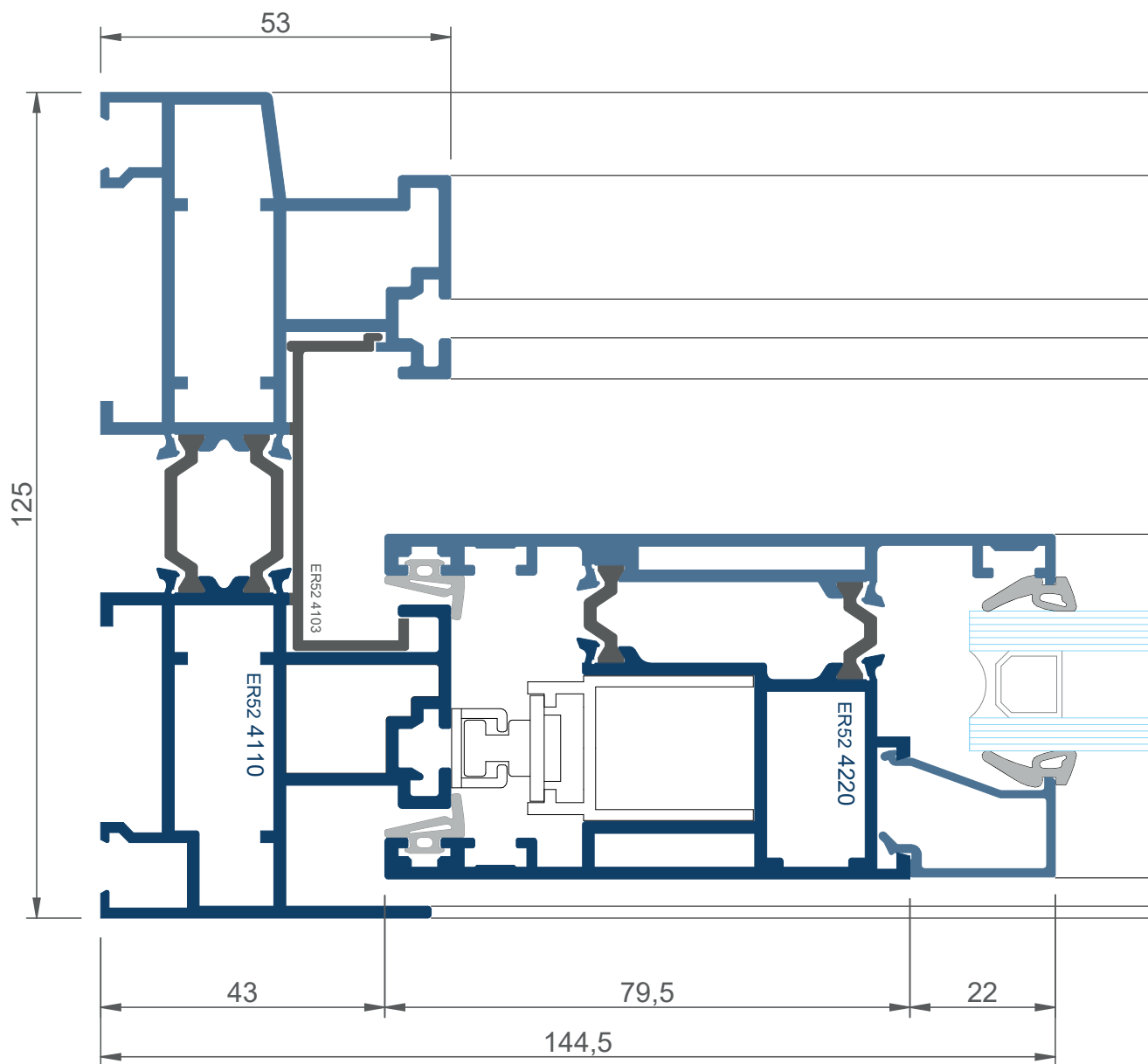
A000 2365

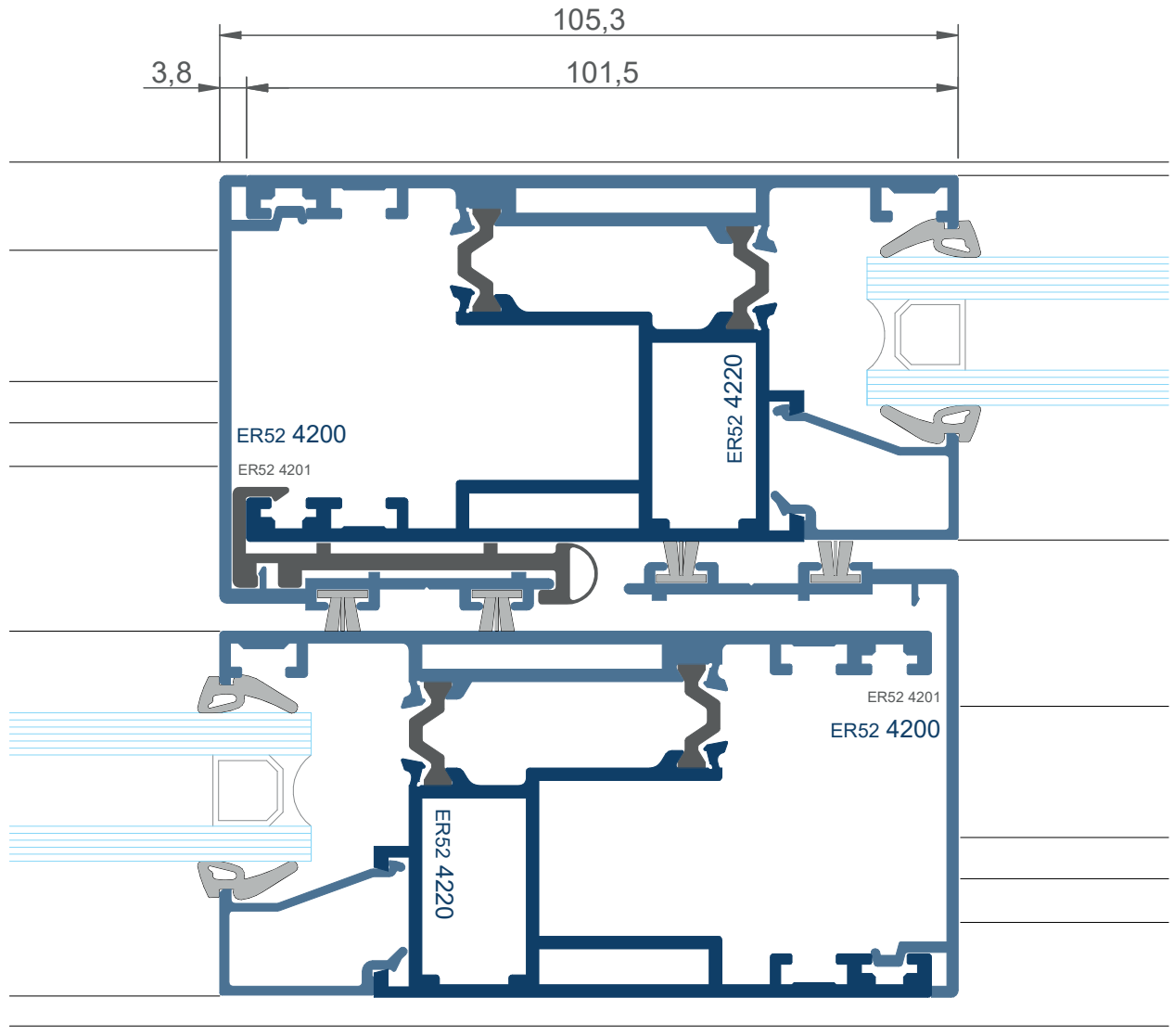


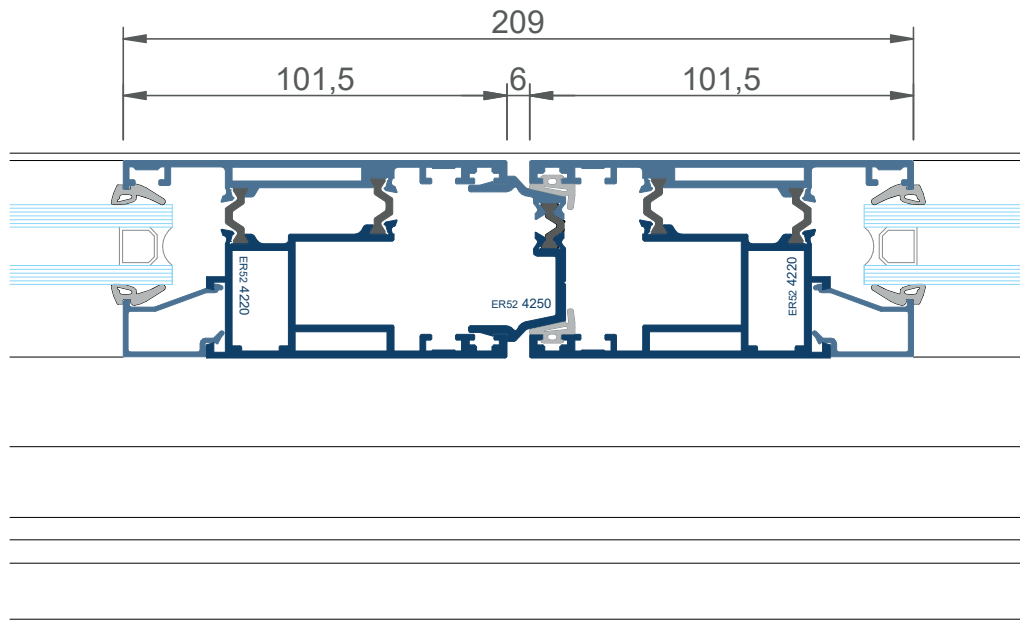
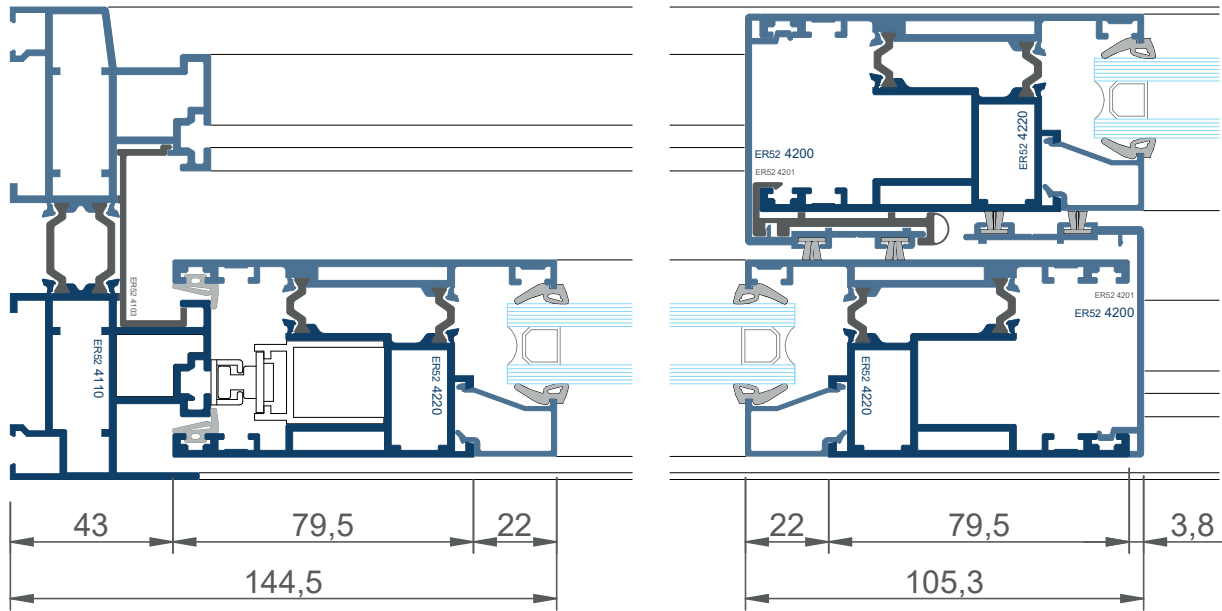
CR46 2301





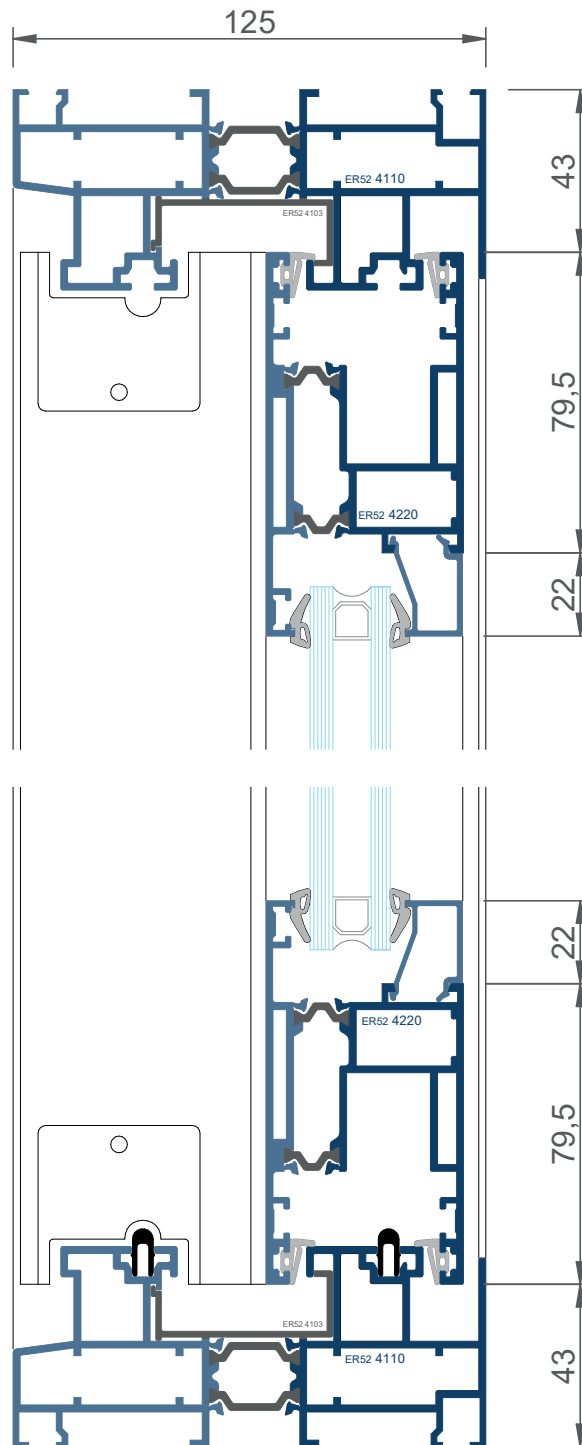




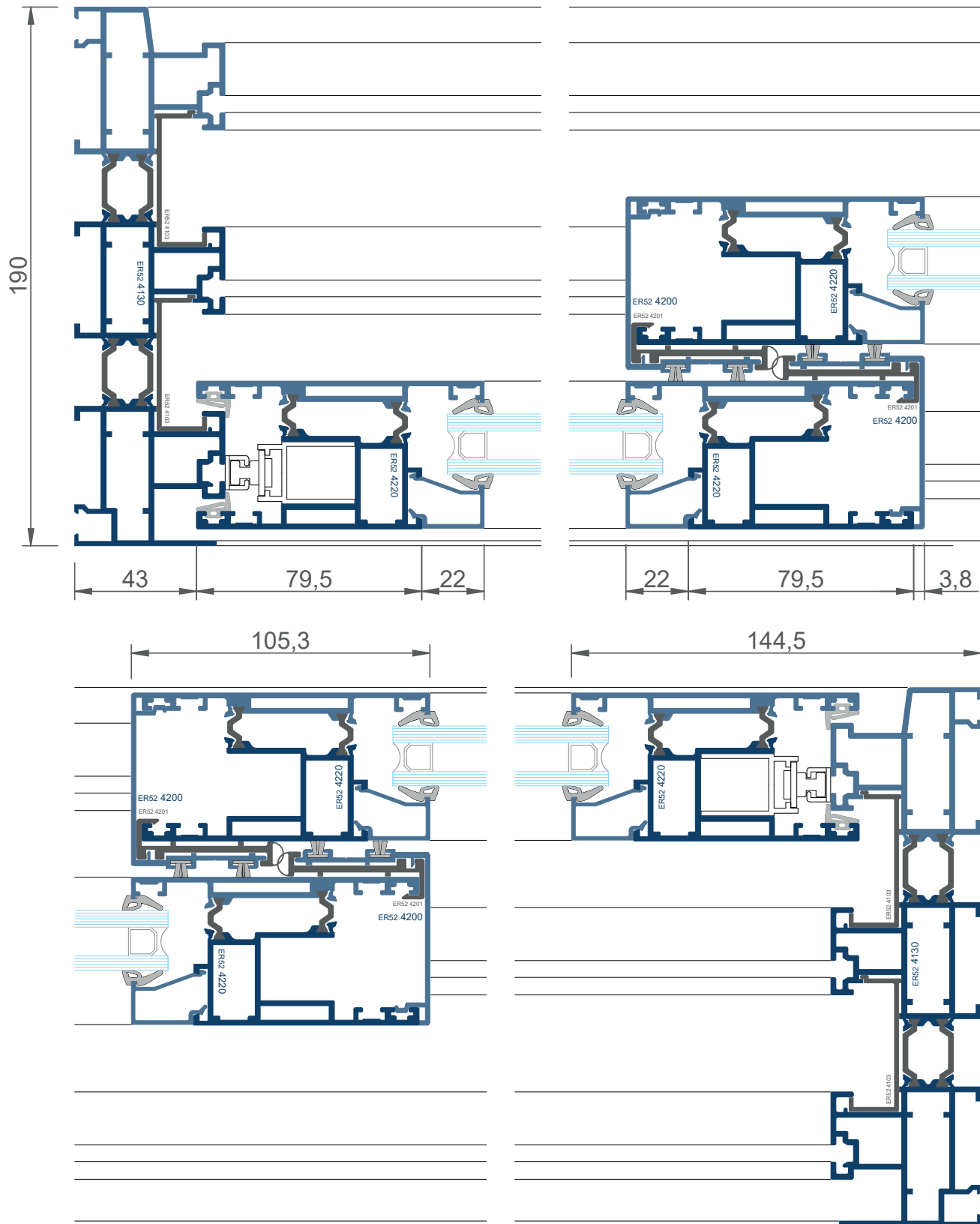


escala 1:2

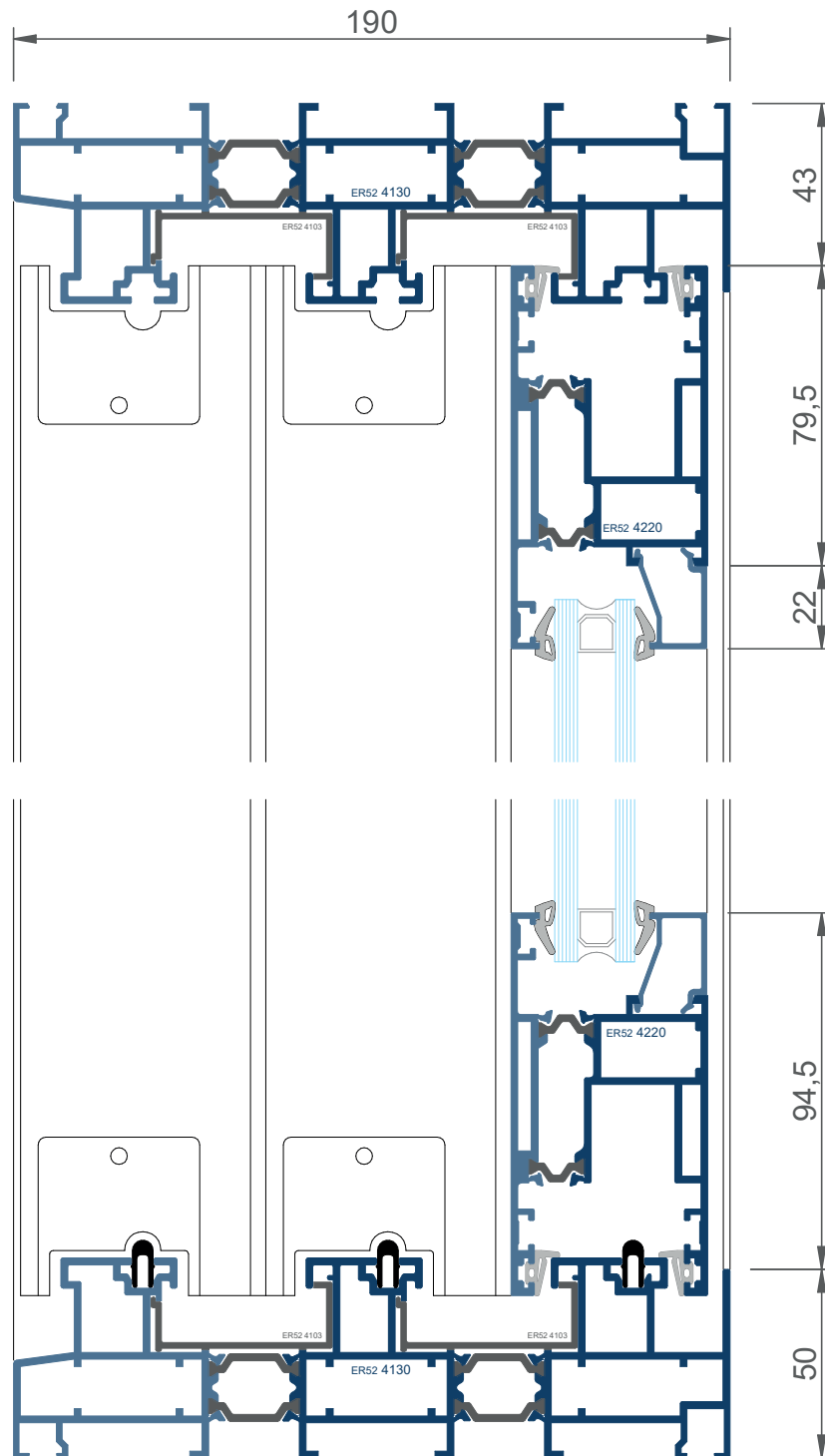




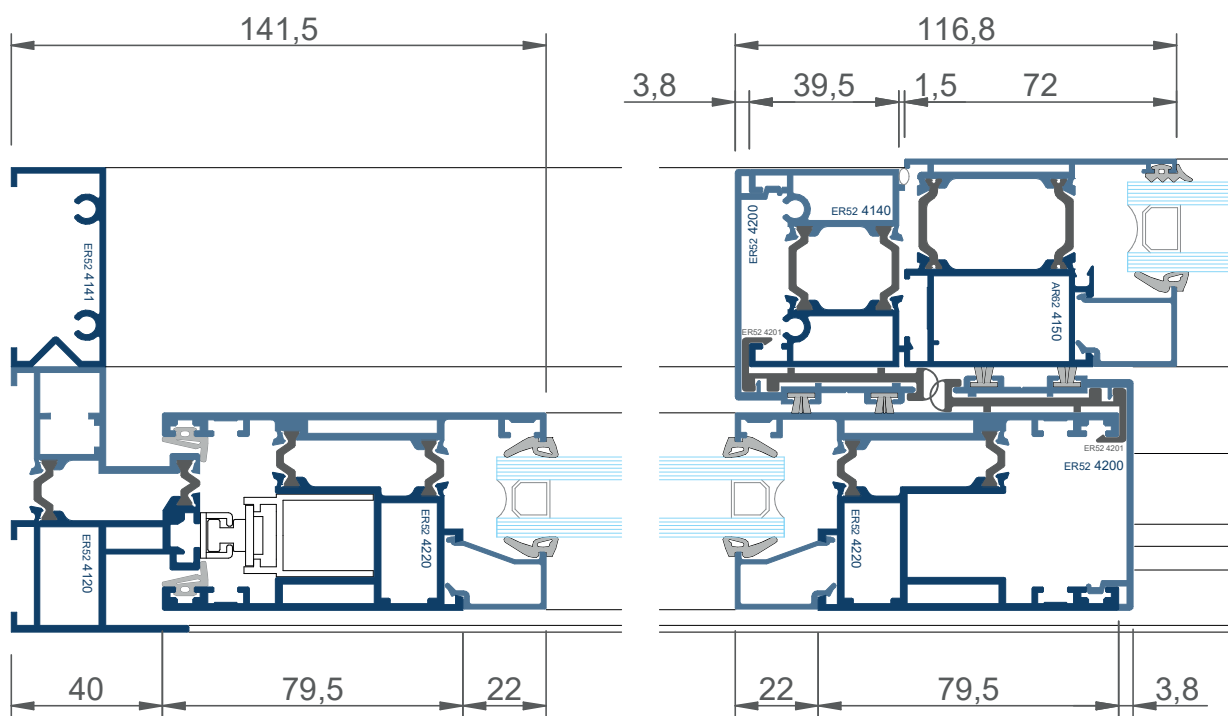
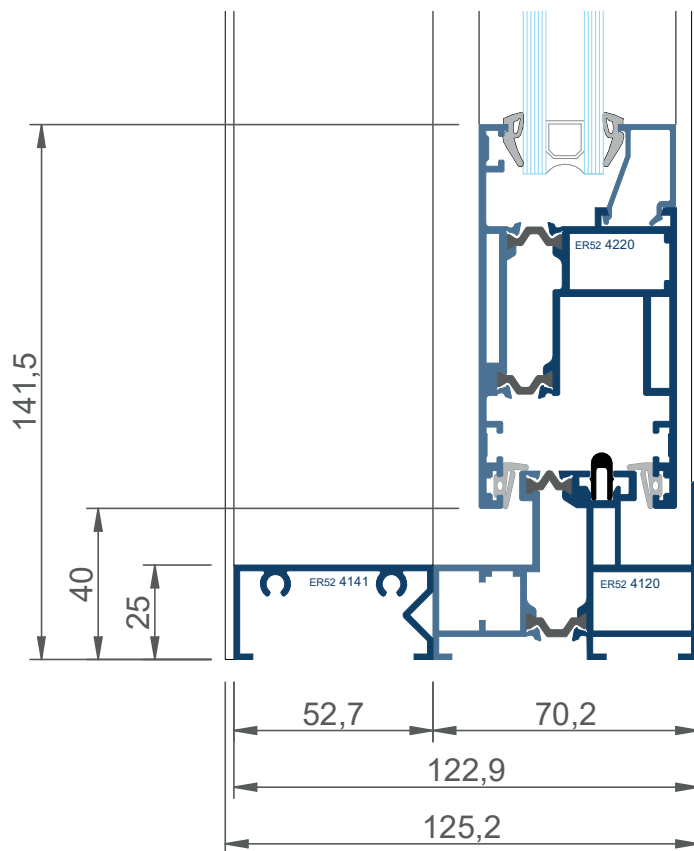
escala 1:2



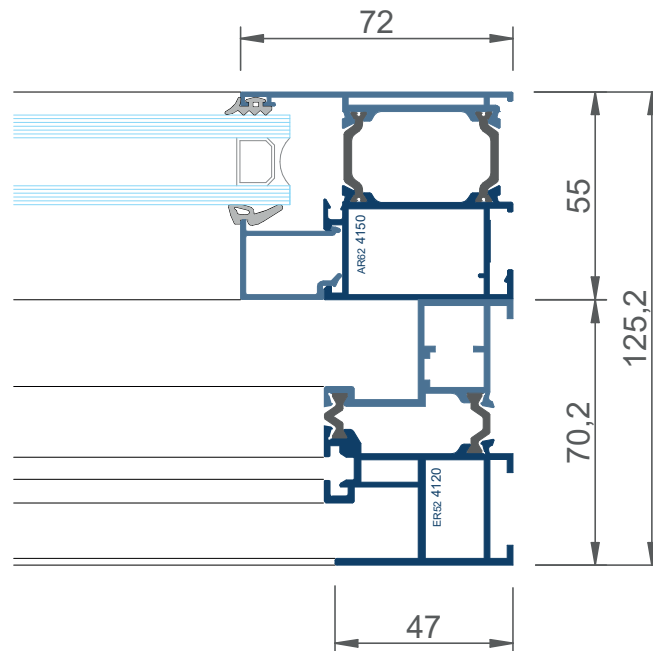
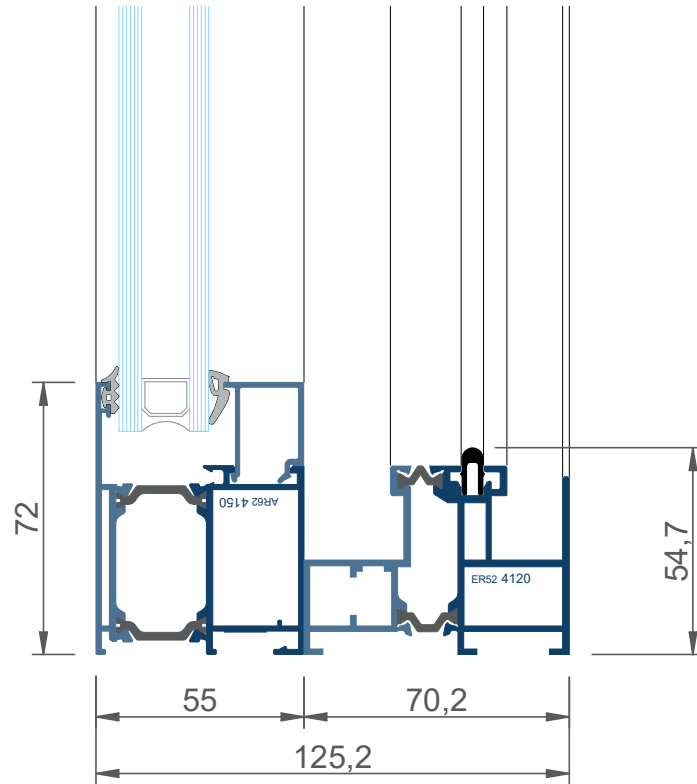
escala 1:2



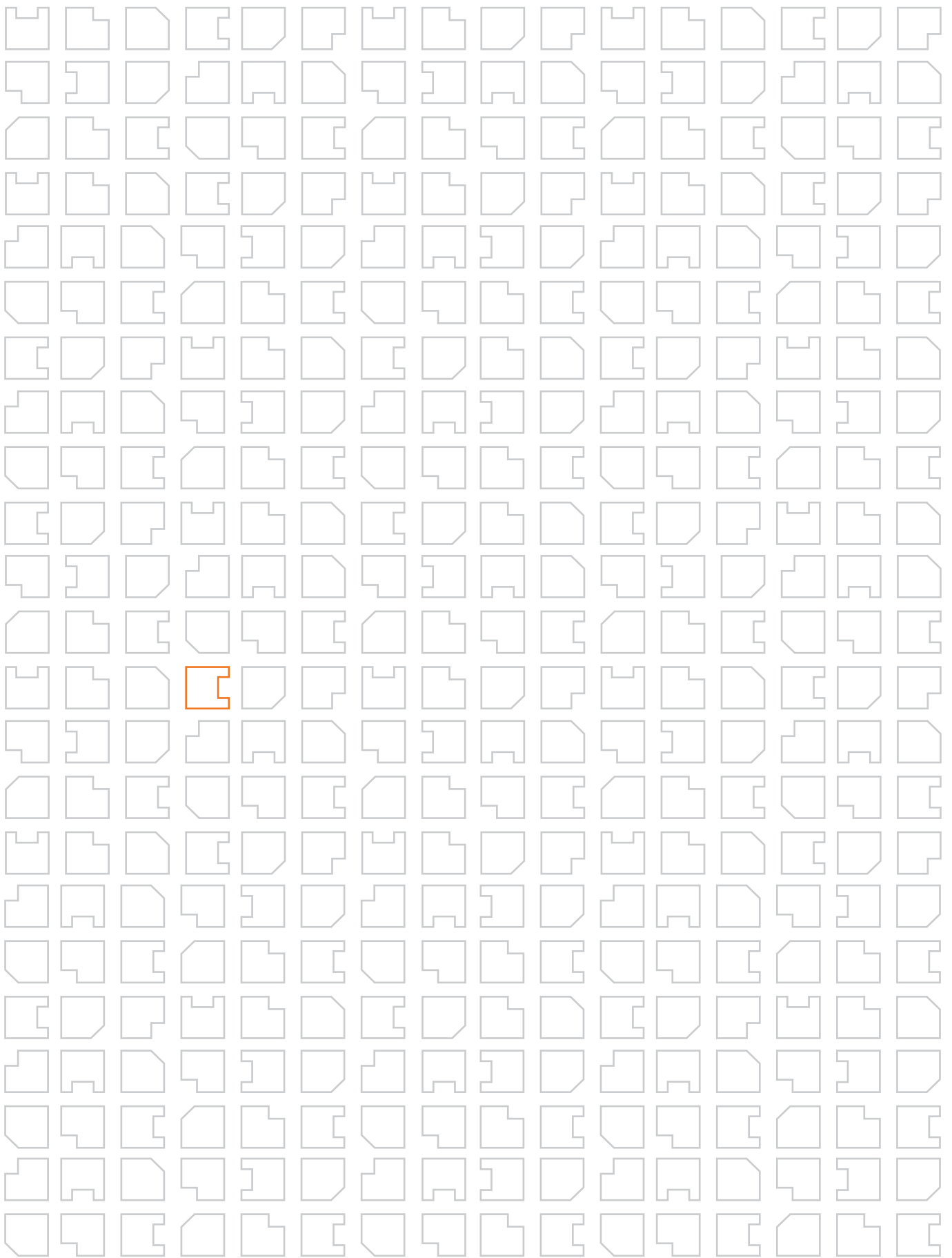
escala 1:2

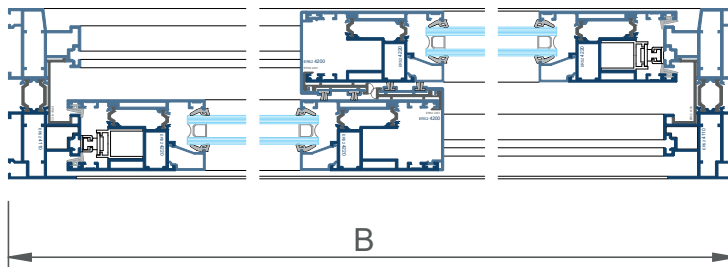
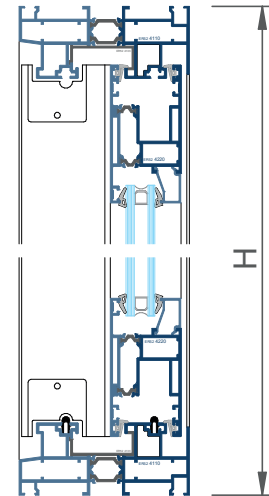
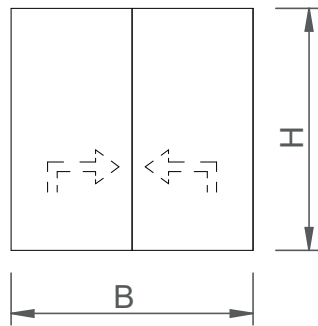


escala 1:2



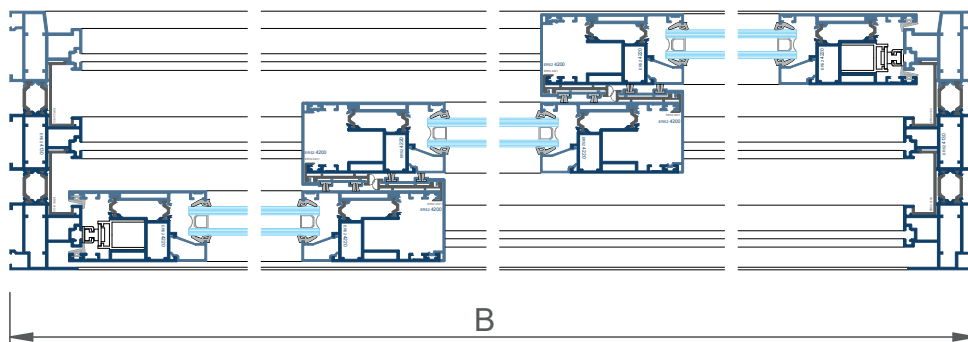
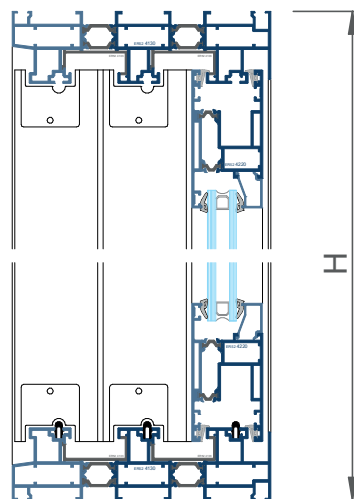
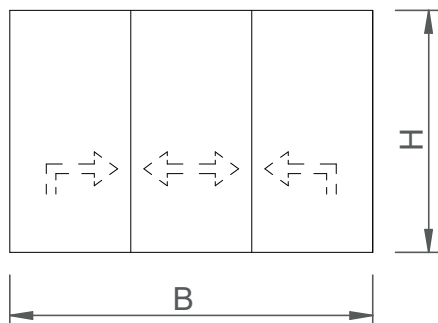
escala 1:2





FORMULAS DE CORTE				
		UDS	FORMULA	FORMA
marco horizontal	ER52.4110	2	B	\---/
marco vertical	ER52.4110	2	H	\---/
hoja horizontal	ER52.4220	4	$(B+10)/2$	\---/
hoja vertical	ER52.4220	4	H-87	\---/
perfil cruce aluminio	ER52.4200	2	H-87	---
perfil cruce termico	ER52.4201	2	H-87	---
U cubre carril	ER52.4103	2	B	\---/
U cubre carril	ER52.4103	2	H	\---/
rail de rodadura	ER52.4100	2	B	---
junquillo horizontal	A000.XXXX	4	$(B-306)/2$	---
junquillo vertical	A000.XXXX	4	H-289	---
vidrio	2		$(B-352)/2 \times H-267$	

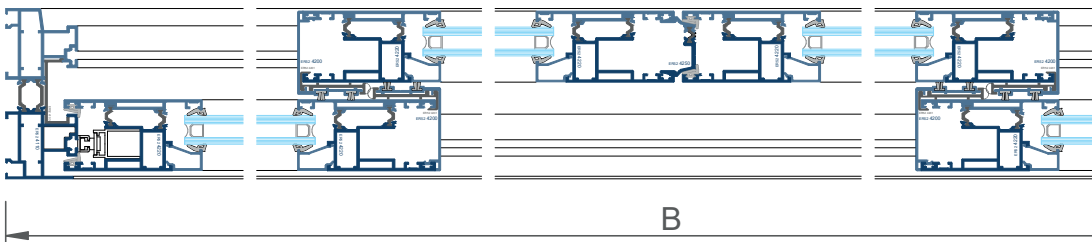
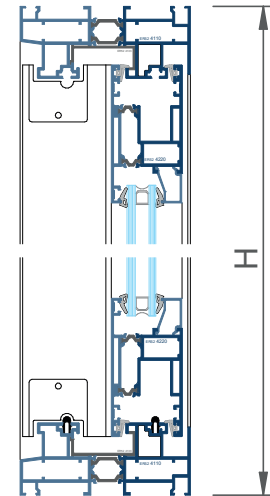
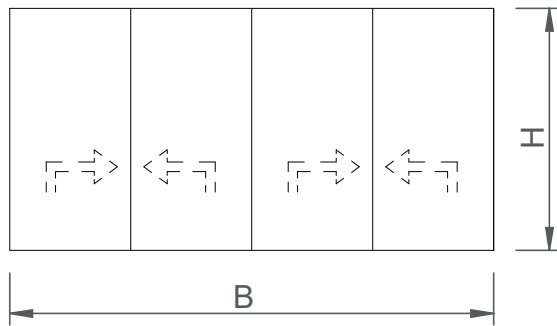
ACCESORIOS		
		UDS
escuadra marco y hoja	ER52.2110	16
escuadra alineacion hoja	ER52.2140	16
cortavientos inferior elevable	ER52.2343	1
cortavientos superior elevable	ER52.2344	1
deflector con válvula	ER52.2300	4
junta hoja elevable	ER52.2320	4B+4H
juego tapas de cruce	ER52.3100	2
felpa vertical central	A000.2365	4H
kit hoja elevable	ER52.0900	2
junta ranura marco	CR46.2301	2B+4H
horquilla guia superior hoja	ER52.2346	4



FORMULAS DE CORTE				
		UDS	FORMULA	FORMA
marco horizontal	ER52.4130	2	B	\---/
marco vertical	ER52.4130	2	H	\---/
hoja horizontal	ER52.4220	6	$(B+110)/3$	\---/
hoja vertical	ER52.4220	6	H-87	\---/
perfil cruce aluminio	ER52.4200	4	H-87	---
perfil cruce termico	ER52.4201	4	H-87	---
U cubre carril	ER52.4103	4	B	\---/
U cubre carril	ER52.4103	4	H	\---/
rail de rodadura	ER52.4100	3	B	---
junquillo horizontal	A000.XXXX	6	$(B-366)/3$	---
junquillo vertical	A000.XXXX	6	H-289	---
vidrio		3	$(B-426)/3 \times H-267$	

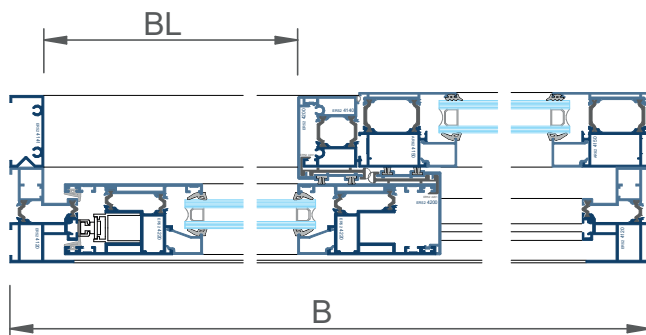
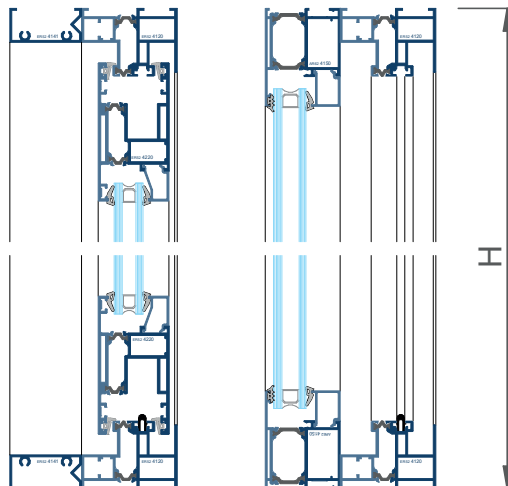
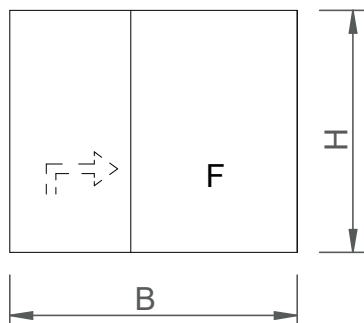
ACCESORIOS		
		UDS
escuadra marco y hoja	ER52.2110	24
escuadra alineacion hoja	ER52.2140	24
cortavientos inferior elevable	ER52.2343	2
cortavientos superior elevable	ER52.2344	2
deflector con válvula	ER52.2300	8
junta hoja elevable	ER52.2320	4B+6H
juego tapas de cruce	ER52.3100	4
felpa vertical central	A000.2365	8H
kit hoja elevable	ER52.0900	3
junta ranura marco	CR46.2301	3B+6H
horquilla guia superior hoja	ER52.2346	6





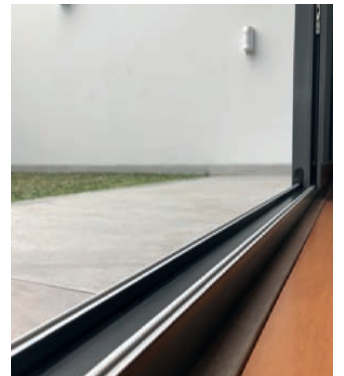
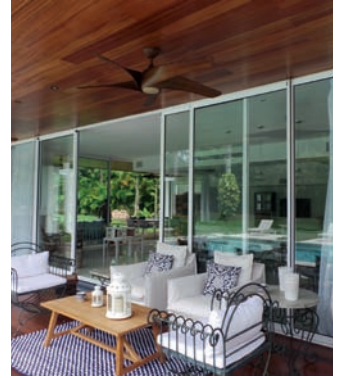
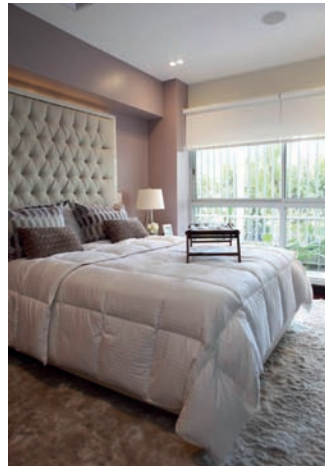
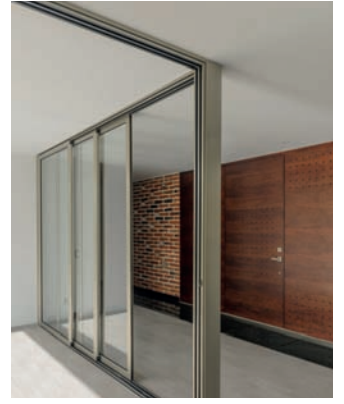
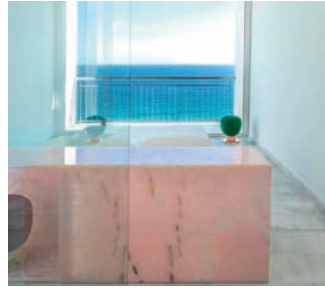
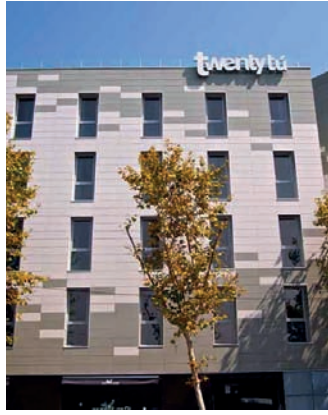
FORMULAS DE CORTE				
		UDS	FORMULA	FORMA
marco horizontal	ER52.4110	2	B	\ --- /
marco vertical	ER52.4110	2	H	\ --- /
hoja horizontal	ER52.4220	8	$(B+104)/4$	\ --- /
hoja vertical	ER52.4220	8	H-87	\ --- /
perfil cruce aluminio	ER52.4200	4	H-87	---
perfil cruce termico	ER52.4201	4	H-87	---
U cubre carril	ER52.4103	2	B	\ --- /
U cubre carril	ER52.4103	2	H	\ --- /
rail de rodadura	ER52.4100	2	B	---
perfil kiss	ER52.4250	1	H-87	---
junquillo horizontal	A000.XXXX	8	$(B-528)/4$	---
junquillo vertical	A000.XXXX	8	H-289	---
vidrio		4	$(B-612)/4 \times H-267$	

ACCESORIOS		
		UDS
escuadra marco y hoja	ER52.2110	24
escuadra alineacion hoja	ER52.2140	32
cortavientos inferior elevable	ER52.2343	2
cortavientos superior elevable	ER52.2344	2
deflector con válvula	ER52.2300	6
junta hoja elevable	ER52.2320	4B+6H
juego tapas de cruce	ER52.3100	4
felpa vertical central	A000.2365	8H
kit hoja elevable	ER52.0900	3
junta ranura marco	CR46.2301	2B+4H
horquilla guia superior hoja	ER52.2346	8



FORMULAS DE CORTE				
		UDS	FORMULA	FORMA
marco monocarril horizontal	ER52.4120	2	B	\---/
marco monocarril vertical	ER52.4120	2	H	\---/
hoja horizontal	ER52.4220	2	BL+86	\---/
hoja vertical	ER52.4220	2	H-82	\---/
perfil cruce aluminio	ER52.4200	1	H-82	---
perfil cruce termico	ER52.4201	1	H-82	---
perfil cruce aluminio (fijo)	ER52.4200	1	H-50	---
perfil cruce termico (fijo)	ER52.4201	1	H-50	---
perfil exterior	ER52.4141	1	H	---
perfil exterior	ER52.4141	2	BL	---
comp central monocarril	ER52.4140	1	H-50	---
marco fijo vertical	AR62.4150	2	H	\---/
marco fijo horizontal	AR62.4150	2	(B-BL)-69	\---/
rail de rodadura	ER52.4100	1	B	---
perfil kiss	ER52.4250	1	H-87	---
junquillo horizontal hoja	A000.XXXX	2	BL-72	---
junquillo vertical hoja	A000.XXXX	2	H-285	---
junquillo horizontal fijo	A000.XXXX	2	(B-BL)-169	---
junquillo vertical fijo	A000.XXXX	2	H-143	---
vidrio hoja	1		BL-90 x H-257	
vidrio fijo	1		(B-BL)-187 x H-120	

ACCESORIOS		
		UDS
escuadra marco y hoja	ER52.2110	8
escuadra alineacion hoja	ER52.2140	8
cortavientos inferior elevable	ER52.2343	1
cortavientos superior elevable	ER52.2344	1
deflector con válvula	ER52.2300	2
junta hoja elevable	ER52.2320	2B+2H
juego tapas de cruce	ER52.3100	1
felpa vertical central	A000.2365	4H
kit hoja elevable	ER52.0900	1
escuadra fijo	A000.2113	4
junta ranura marco	CR46.2301	1B+2H
horquilla guia superior hoja	ER52.2346	2



Obras de Thermia Barcelona

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