

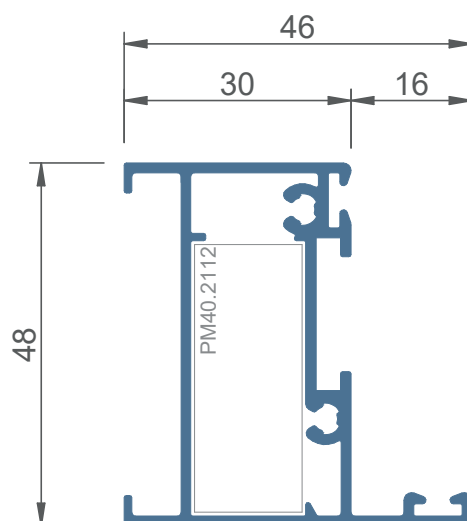
PROTECCIÓN SOLAR



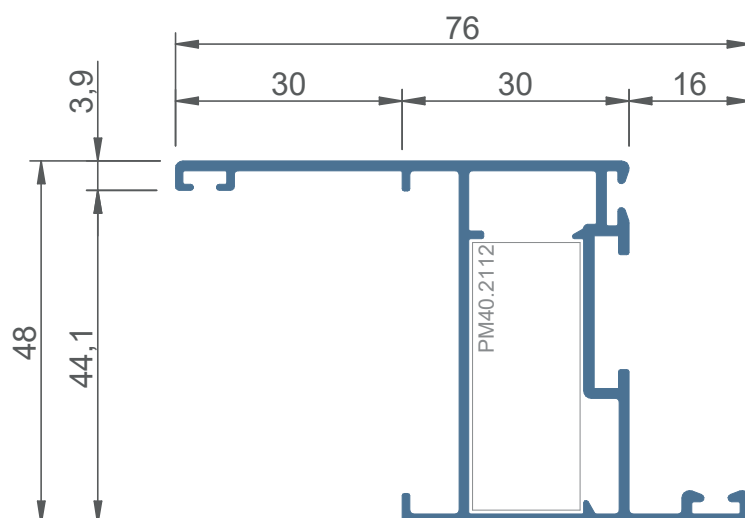
THERMIA® PM

La solución perfecta
para la protección en fachada.

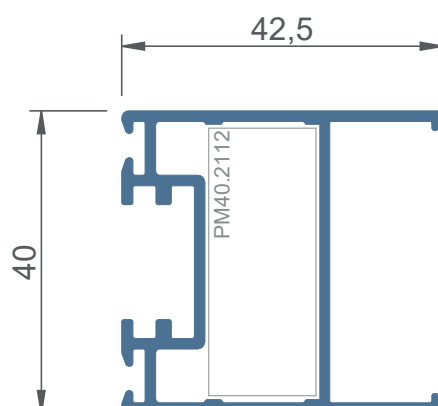
Ventanas para vivir mejor



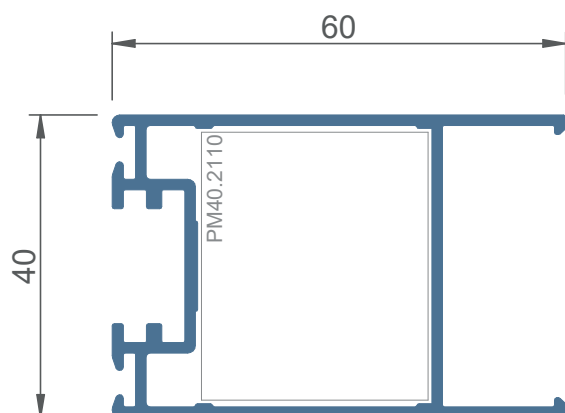
PM40 4110



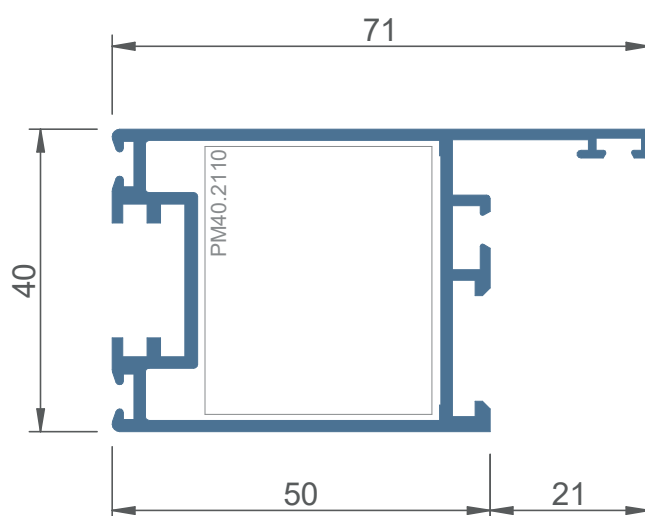
PM40 4112



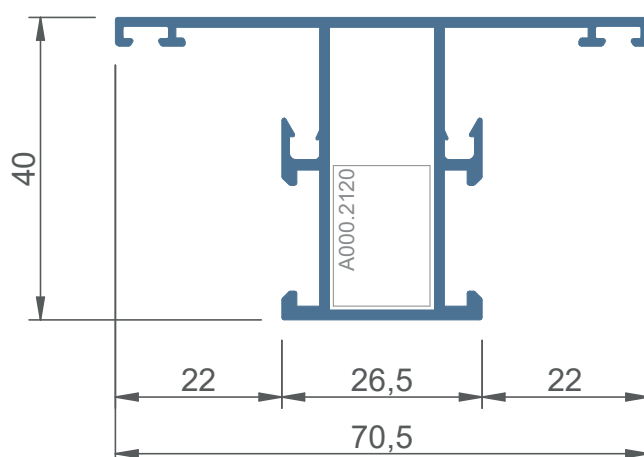
PM40 4210



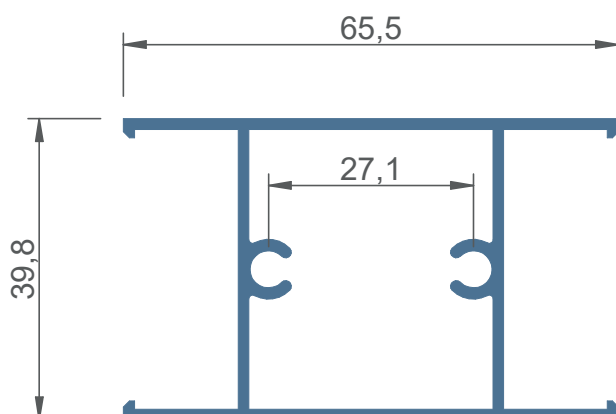
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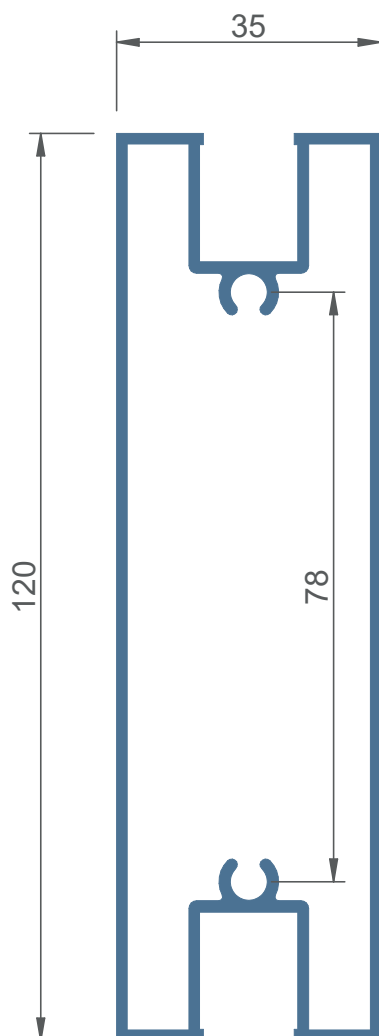
PM40 4224



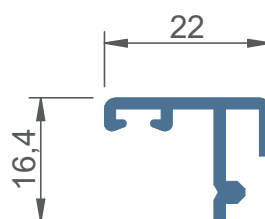
AF47 4310



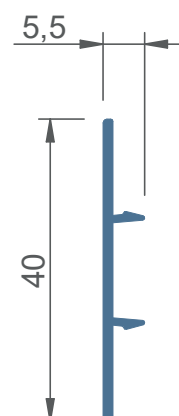
PM40 4358



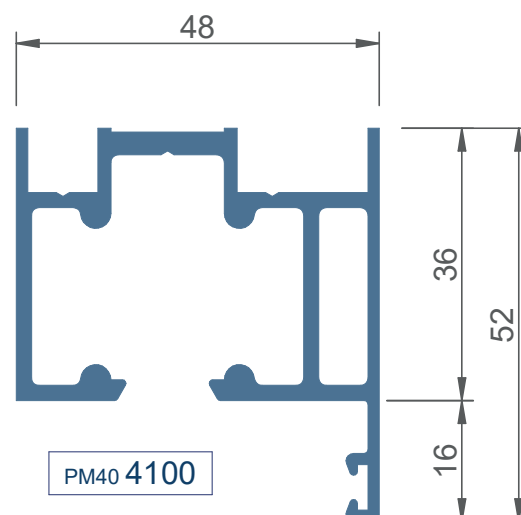
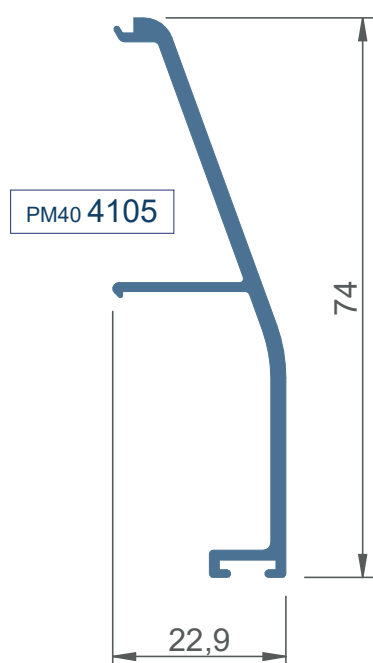
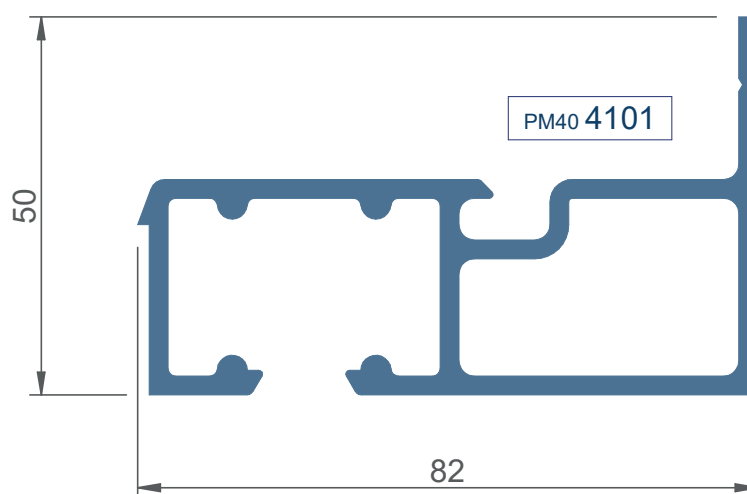
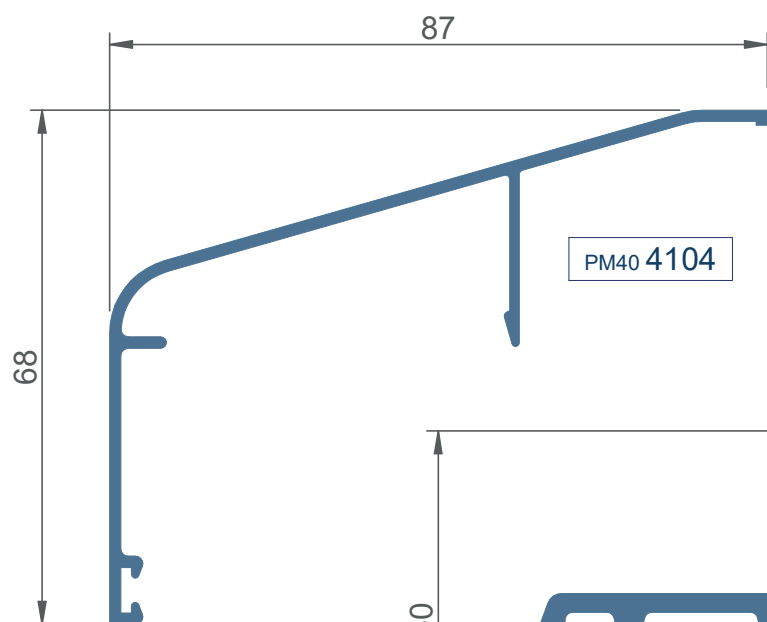
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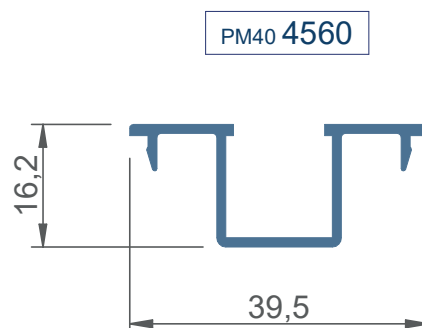
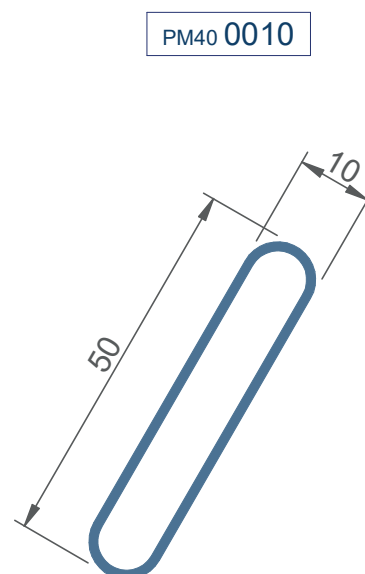
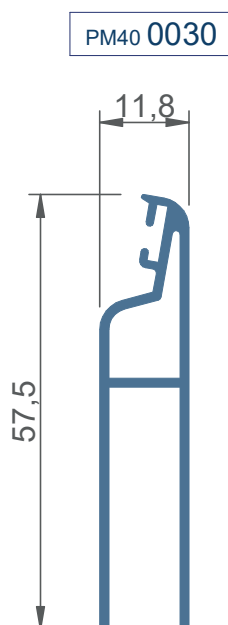
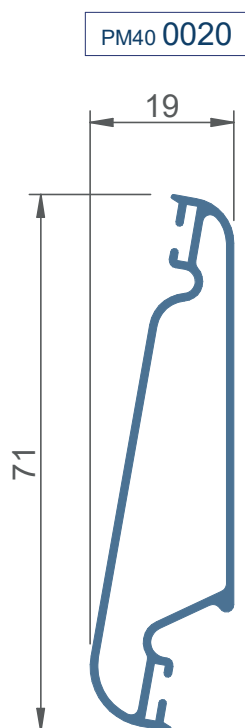
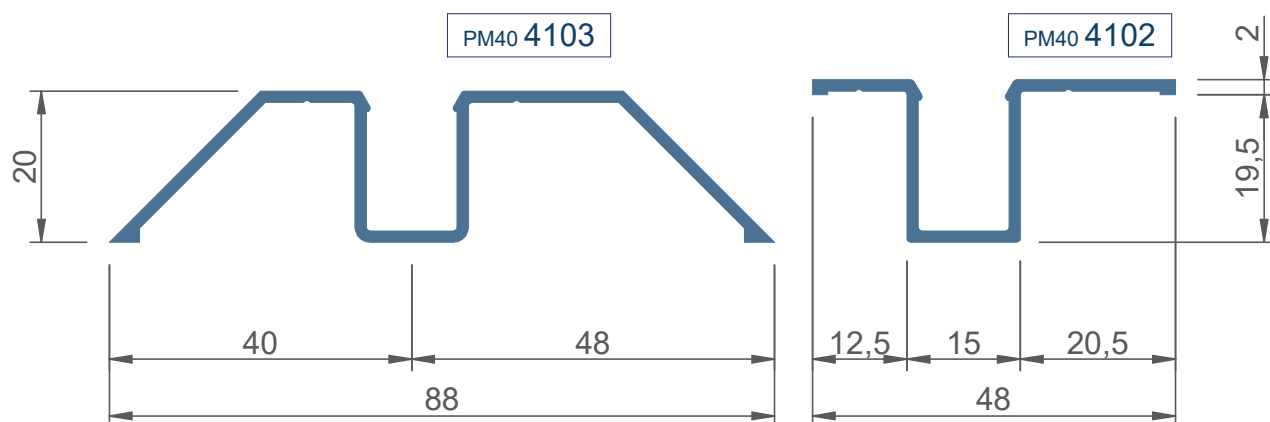


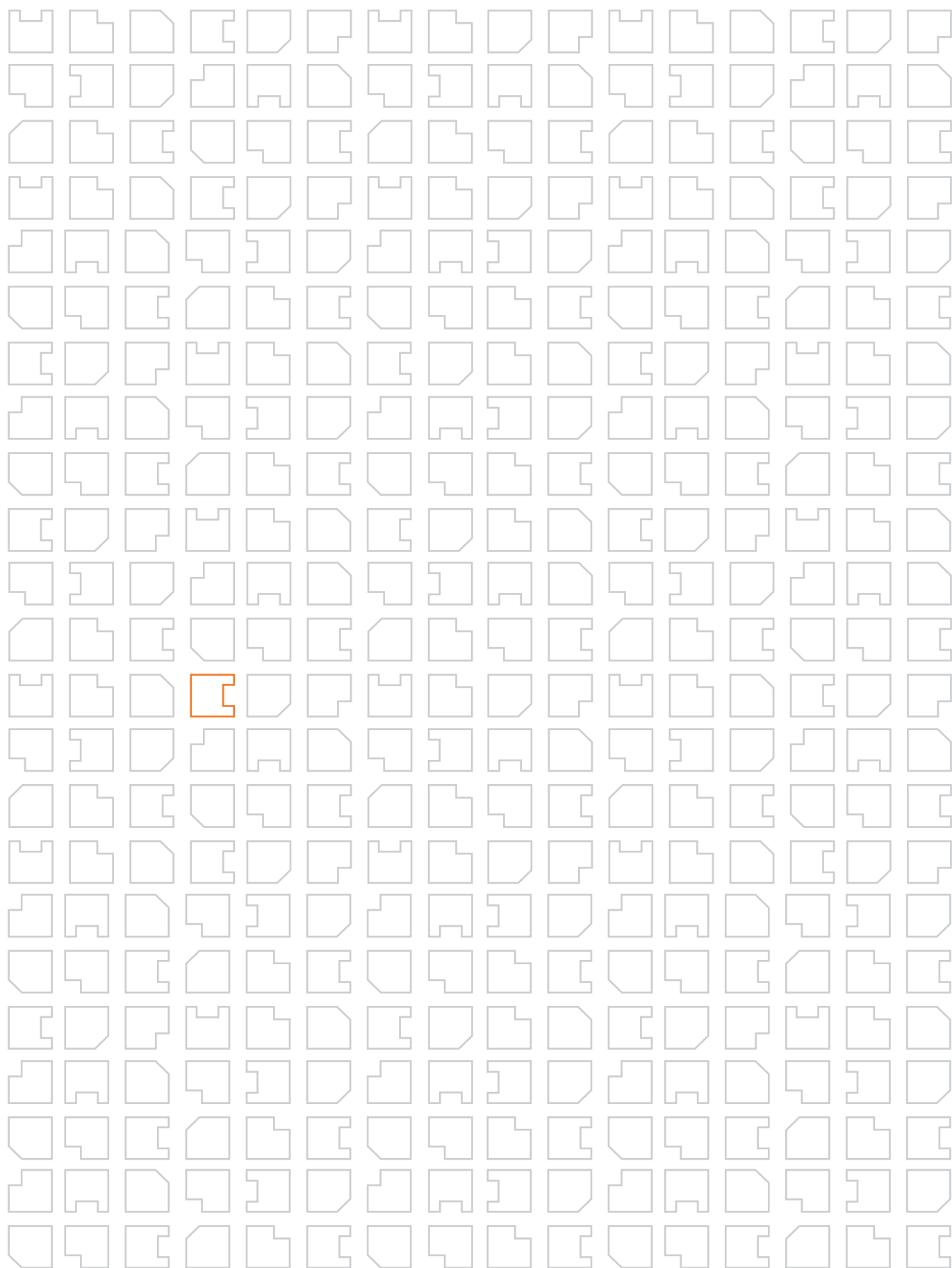
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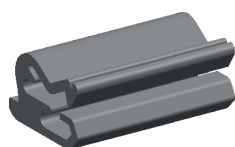
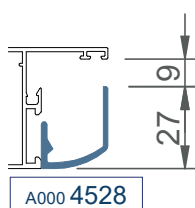
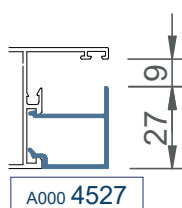
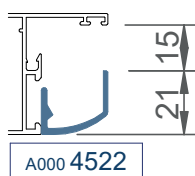
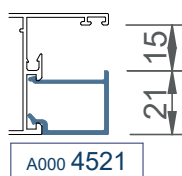
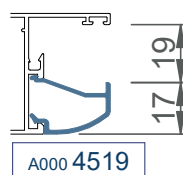
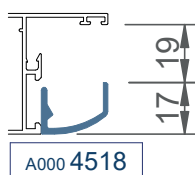
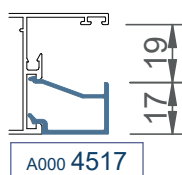
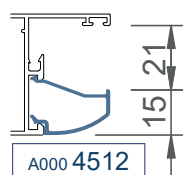
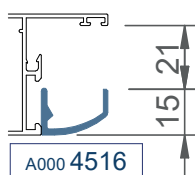
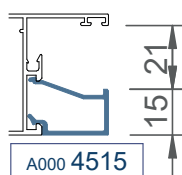
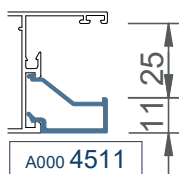
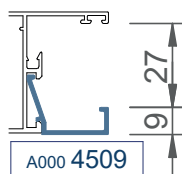


PM40 4570









grapa junquillos elípticos

A000 2102



A000 2315

junta exterior (1mm)



A000 2351

junta exterior (2mm)



A000 2353

junta cuña (de 3 a 5mm)



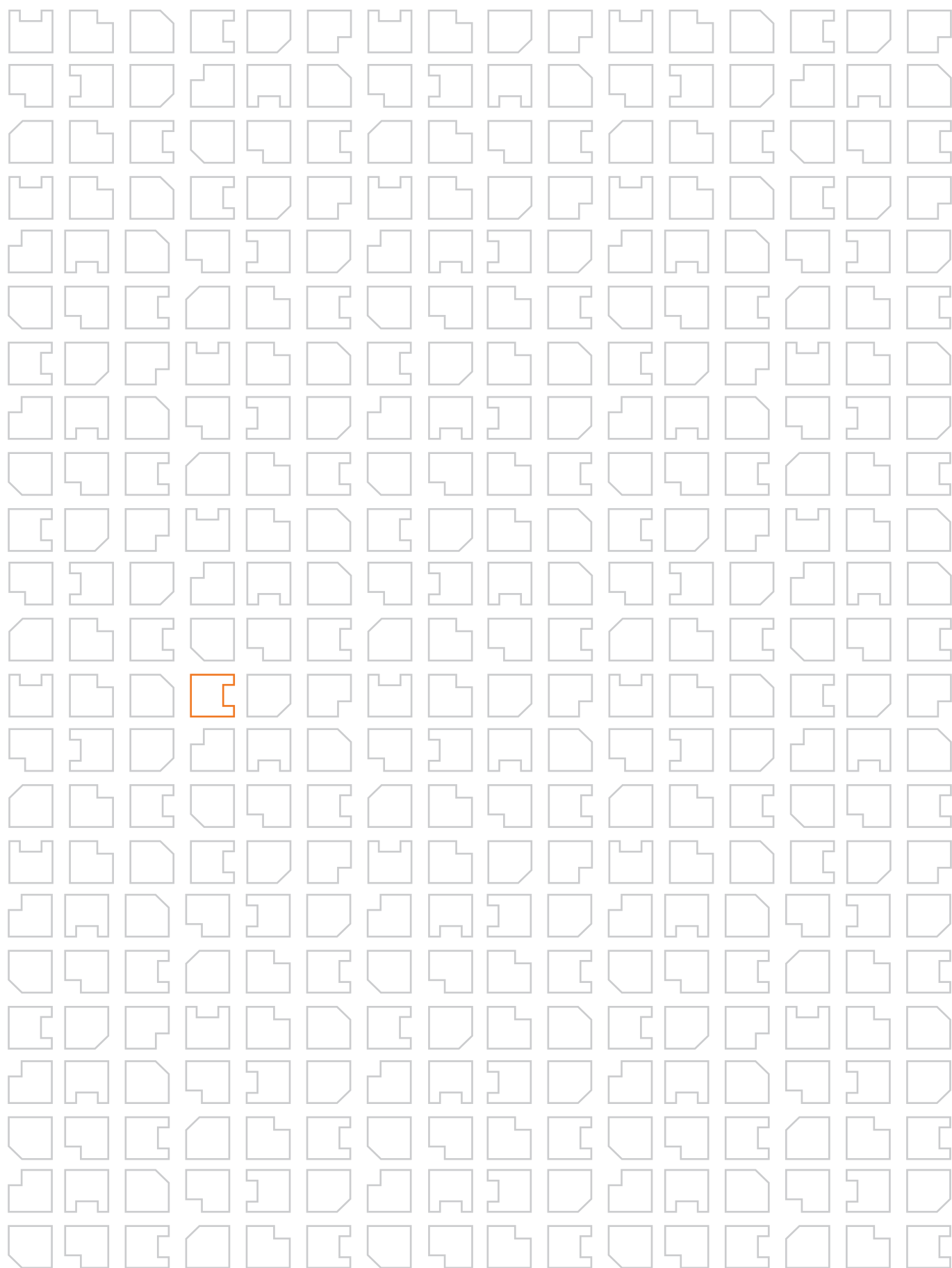
A000 2355

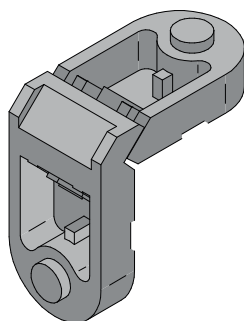
junta cuña (de 5 a 7mm)



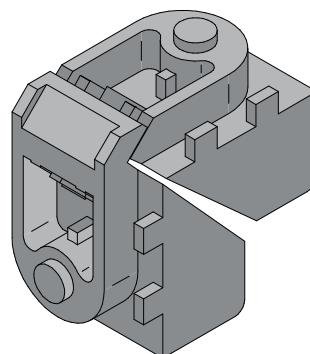
A000 2357

junta cuña (de 7 a 9mm)

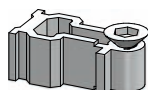




PM40 2112
escuadra pequeña



PM40 2110
escuadra grande



A000 2120
unión travesaño



PM40 2320
junta hojas



PM40 3110
bisagra dos palas



PM40 3112
bisagra tres palas



PM40 3140
bisagra larga tres palas



PM40 3104
cremona plana



PM40 3100
cremona normal



PM40 3105
pasadores conexión
cremona con pletina



PM40 3102
cerradero para abatibles



PM40 3101
terminal pletina



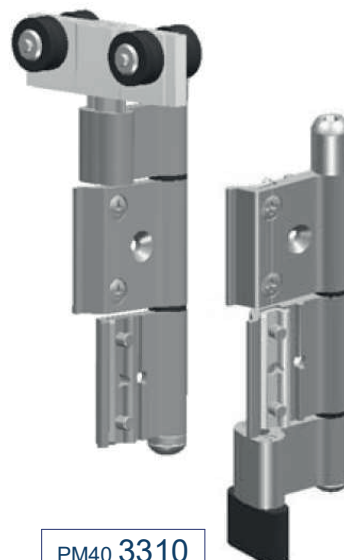
1541.2
pasador hoja pasiva



PM40 3106
pomo tirador
PM40.3106

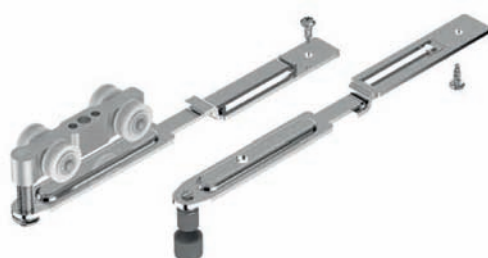
PM40 3103

pasador embutido
doble acción



PM40 3310

cjto bisagra plegable
max 40 kg/hoja



PM40 3320

cjto ruedas hojas
plegable pares



PM40 3810

carro ruedas
hoja corredera



PM40 3840

pieza-eje fijación
hoja corredera



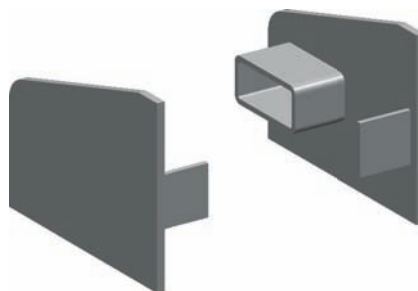
PM40 3830

tope final carrera
base fijación



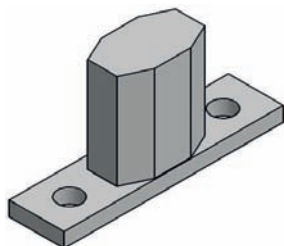
PM40 3860

gancho y cerradero
hoja corredera



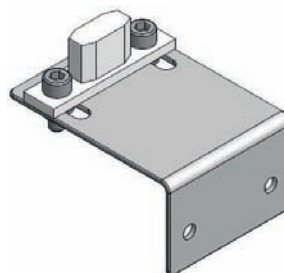
PM40 3850

juego tapas laterales
guía sup corredera



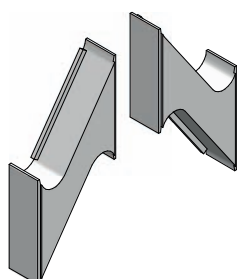
PM40 3820

pieza inferior guía
hojas correderas



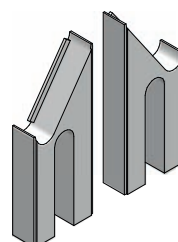
PM40 3822

pieza inferior guía
hojas correderas colgadas



PM40 2850

piezas separación
lamas fijas



PM40 2851

piezas terminales
lamas fijas



PM40 2359

felpa cierre
hojas correderas

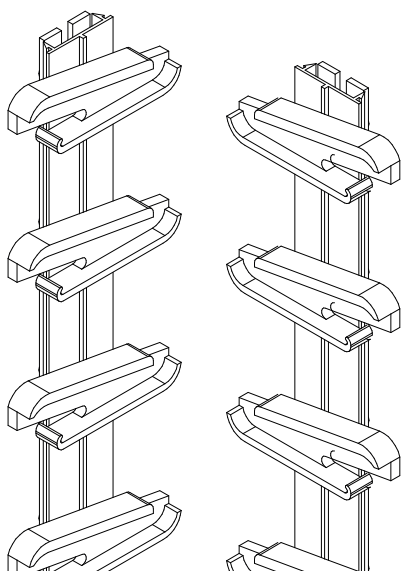
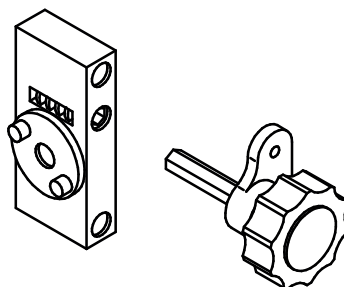


PM40 2851

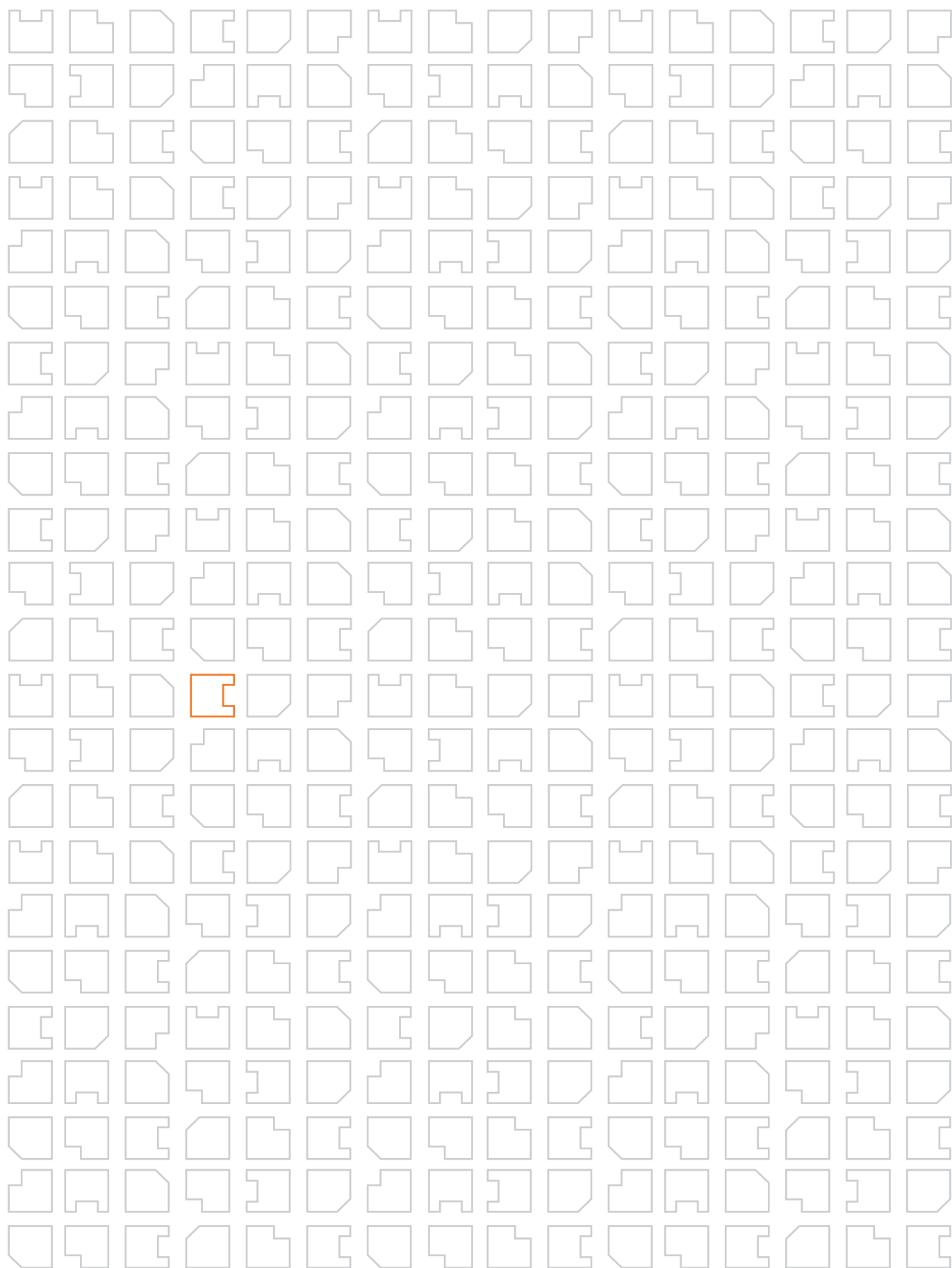
junta entre lamas móviles

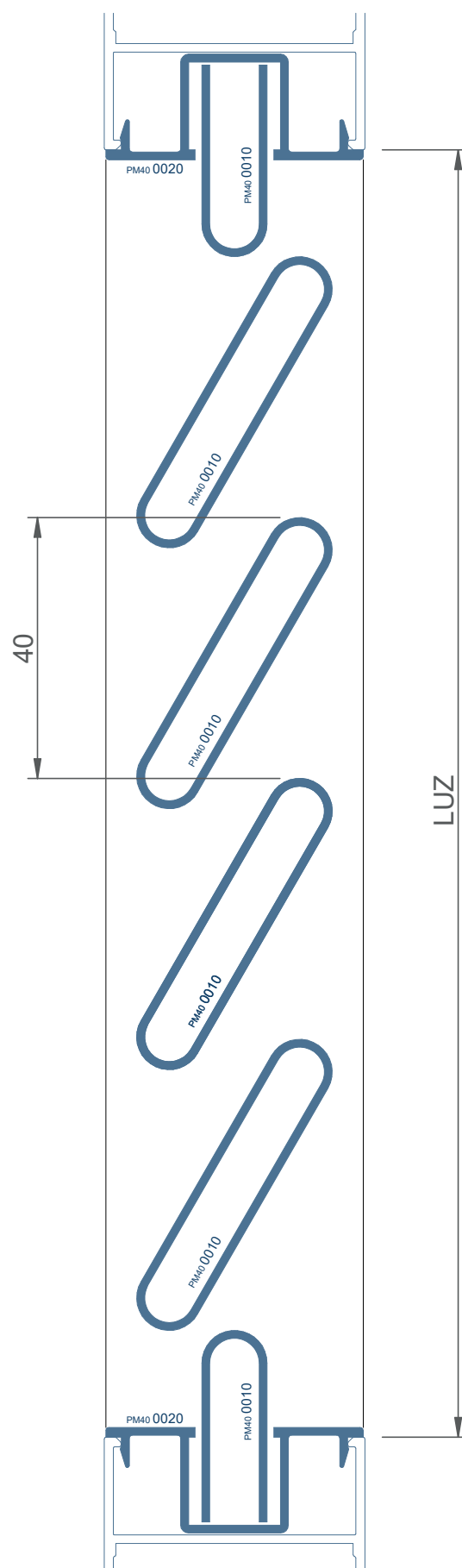
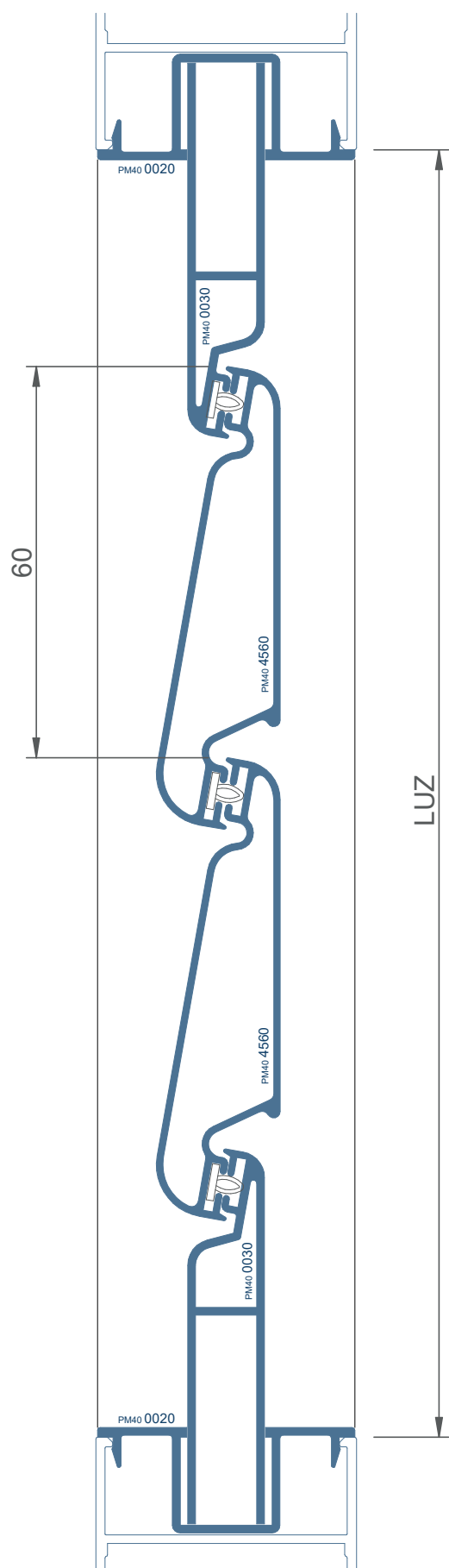
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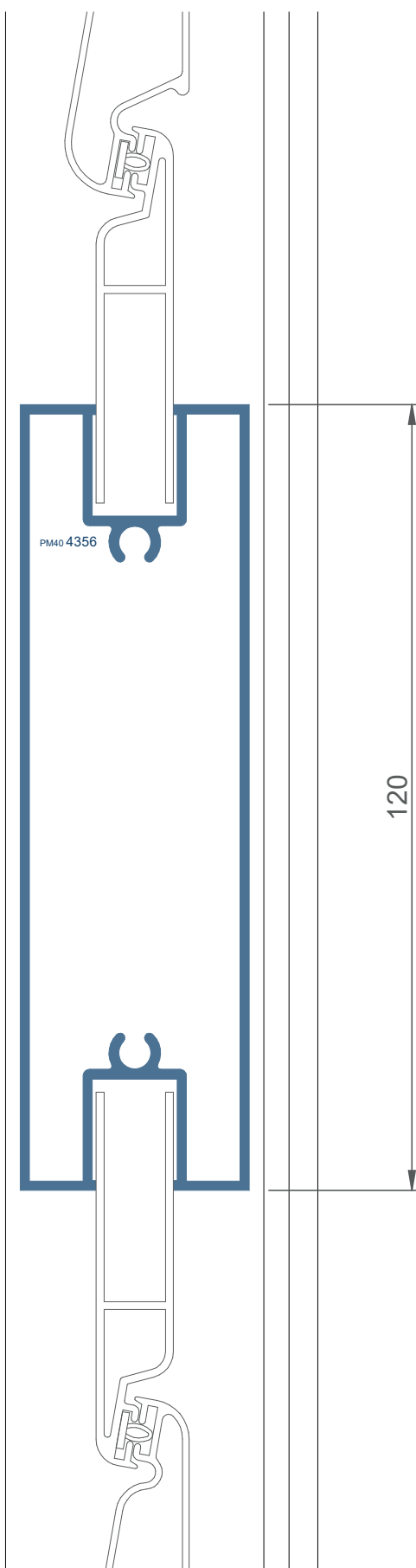
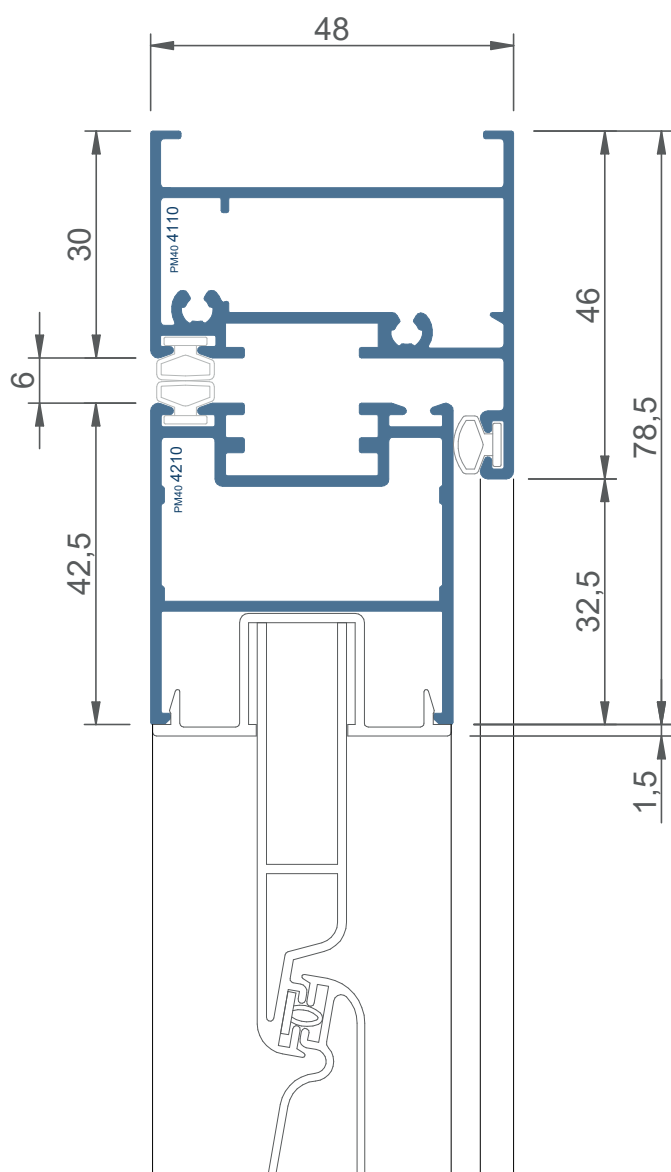
pomo rotación
lamas móviles

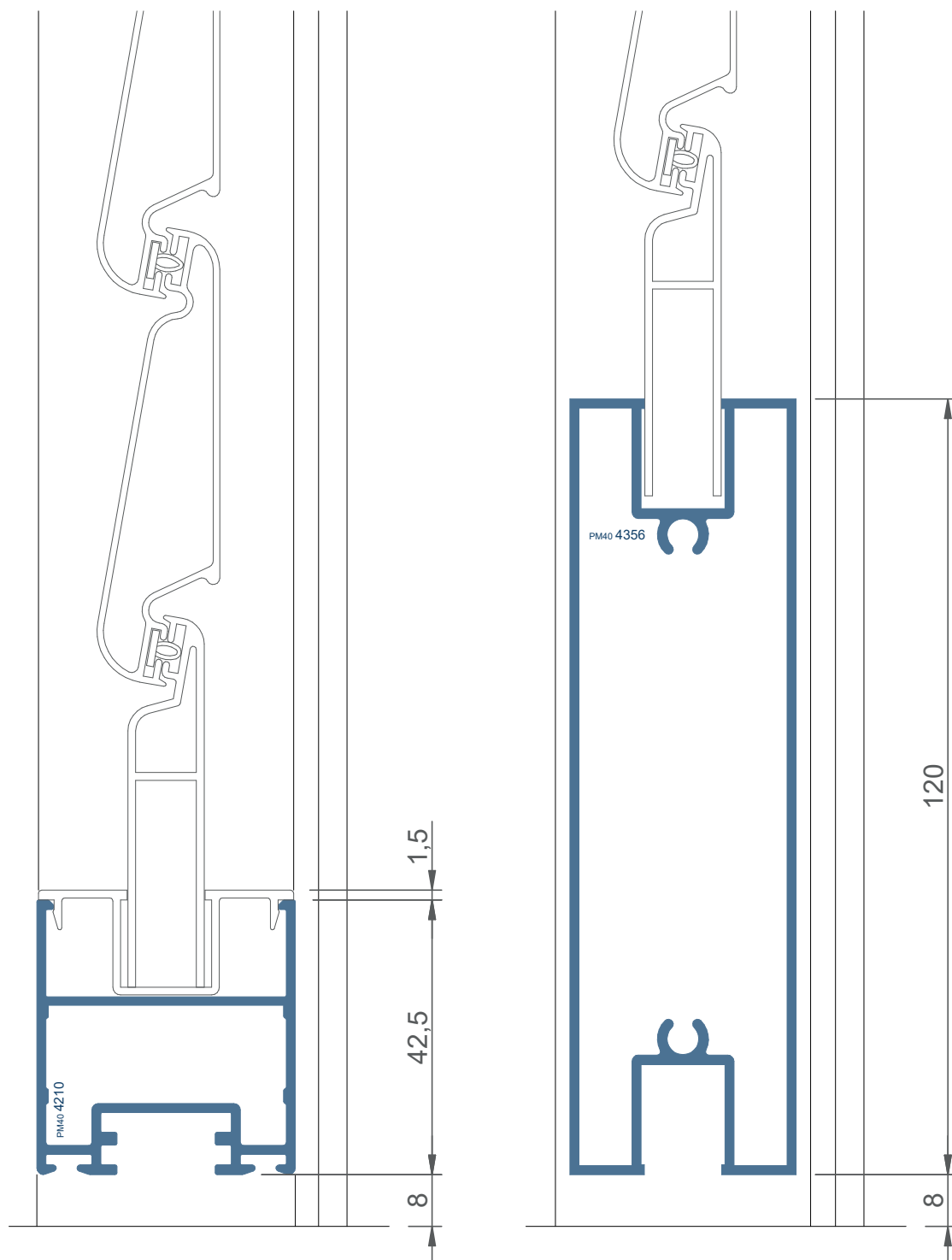


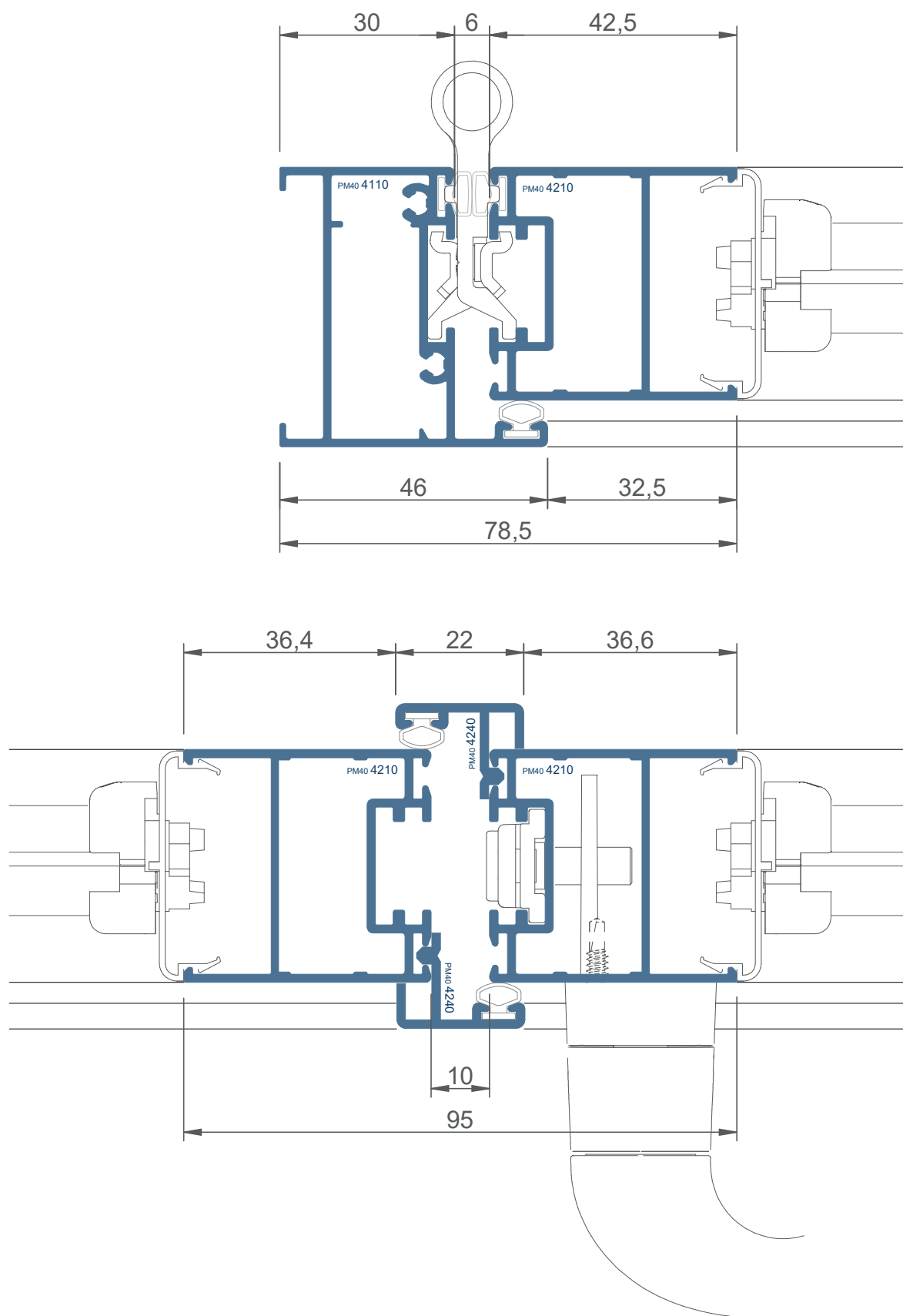
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PM40 2807	mecanismo 7 lamas móviles	461	520
PM40 2808	mecanismo 8 lamas móviles	521	580
PM40 2809	mecanismo 9 lamas móviles	581	640
PM40 2810	mecanismo 10 lamas móviles	641	700
PM40 2811	mecanismo 11 lamas móviles	701	760
PM40 2812	mecanismo 12 lamas móviles	761	820
PM40 2813	mecanismo 13 lamas móviles	821	880
PM40 2814	mecanismo 14 lamas móviles	881	940
PM40 2815	mecanismo 15 lamas móviles	941	1.000
PM40 2816	mecanismo 16 lamas móviles	1.001	1.060
PM40 2817	mecanismo 17 lamas móviles	1.061	1.120
PM40 2818	mecanismo 18 lamas móviles	1.121	1.180
PM40 2819	mecanismo 19 lamas móviles	1.181	1.240
PM40 2820	mecanismo 20 lamas móviles	1.241	1.300
PM40 2821	mecanismo 21 lamas móviles	1.301	1.360
PM40 2822	mecanismo 22 lamas móviles	1.361	1.420
PM40 2823	mecanismo 23 lamas móviles	1.421	1.480
PM40 2824	mecanismo 24 lamas móviles	1.481	1.540
PM40 2825	mecanismo 25 lamas móviles	1.541	1.600
PM40 2826	mecanismo 26 lamas móviles	1.601	1.660
PM40 2827	mecanismo 27 lamas móviles	1.661	1.720
PM40 2828	mecanismo 28 lamas móviles	1.721	1.780
PM40 2829	mecanismo 29 lamas móviles	1.781	1.840
PM40 2830	mecanismo 30 lamas móviles	1.841	1.900
PM40 2831	mecanismo 31 lamas móviles	1.901	1.960
PM40 2832	mecanismo 32 lamas móviles	1.961	2.020
PM40 2833	mecanismo 33 lamas móviles	2.021	2.080
PM40 2852	mecanismo 52 lamas móviles	401	3.220

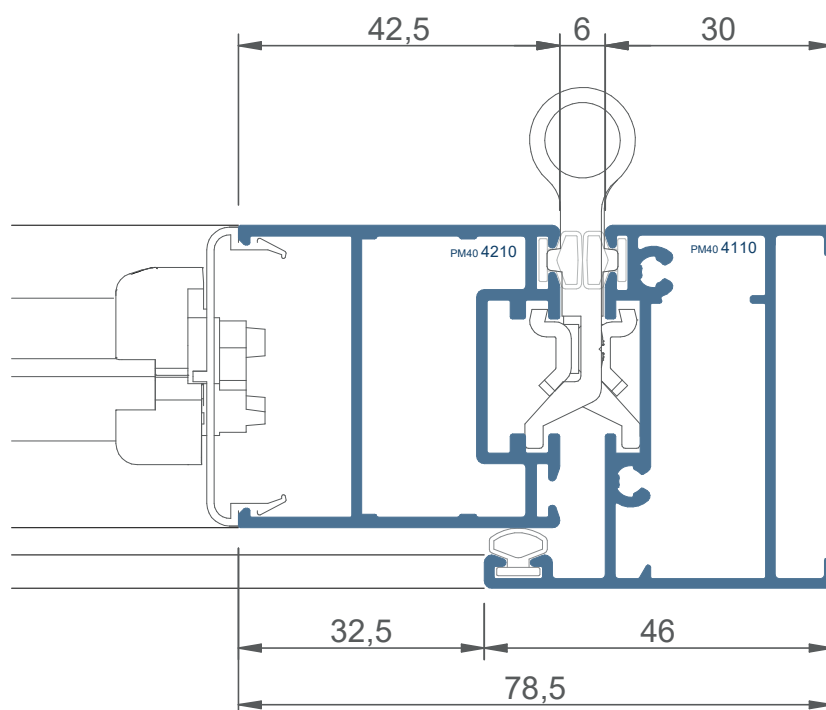
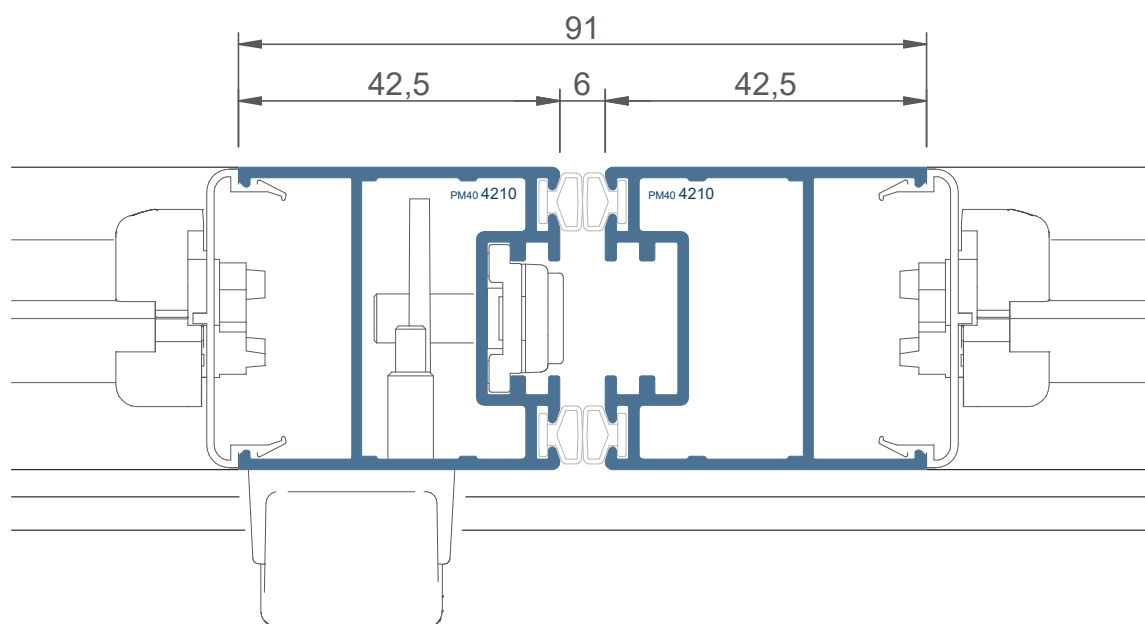


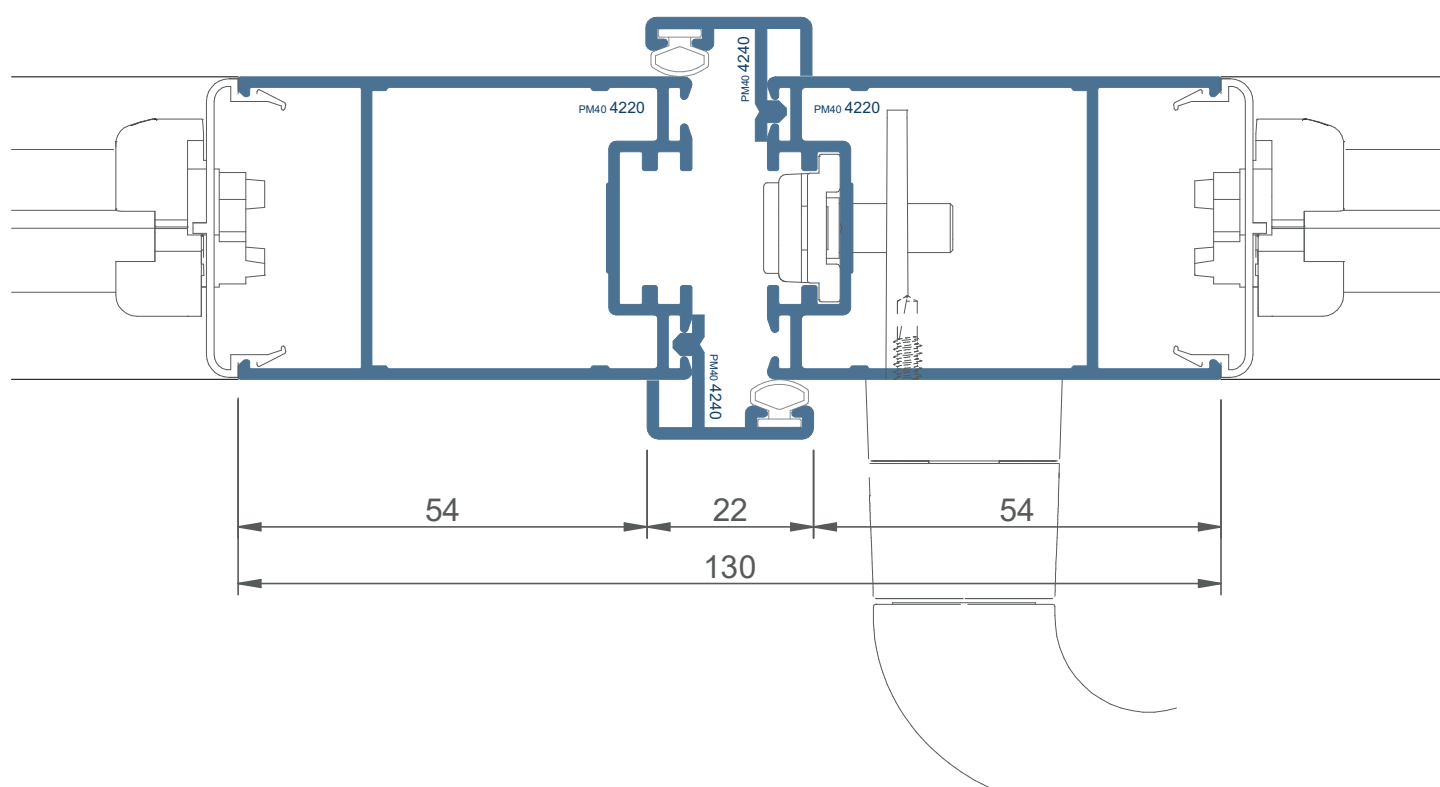
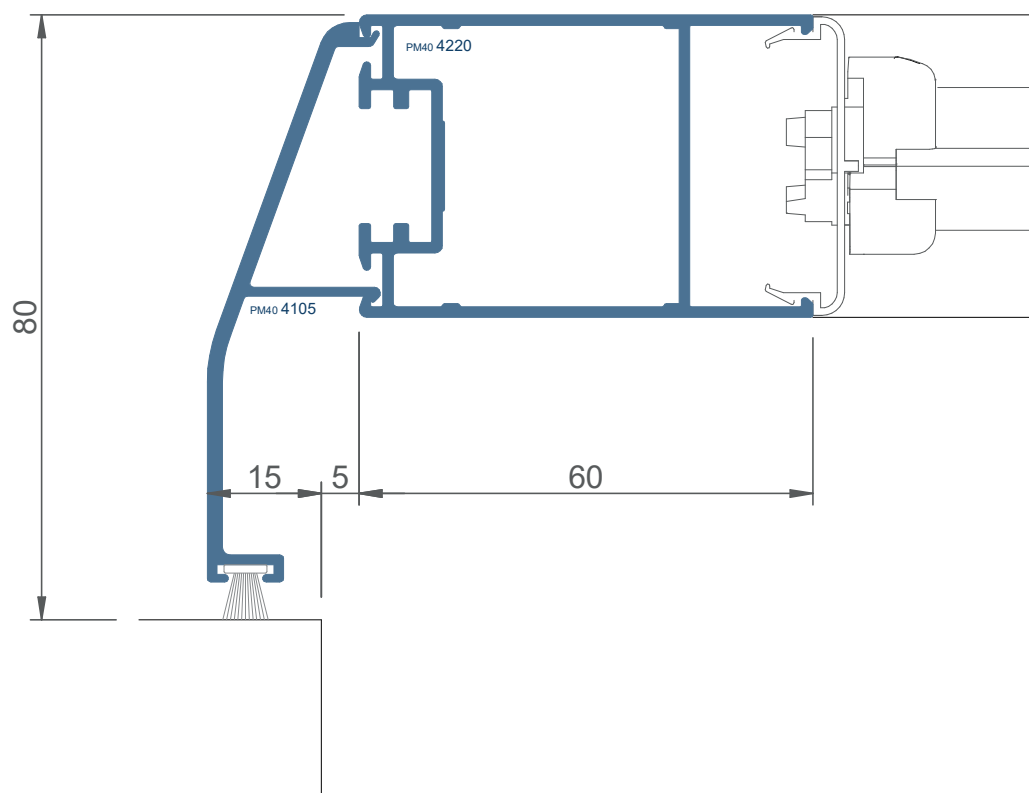


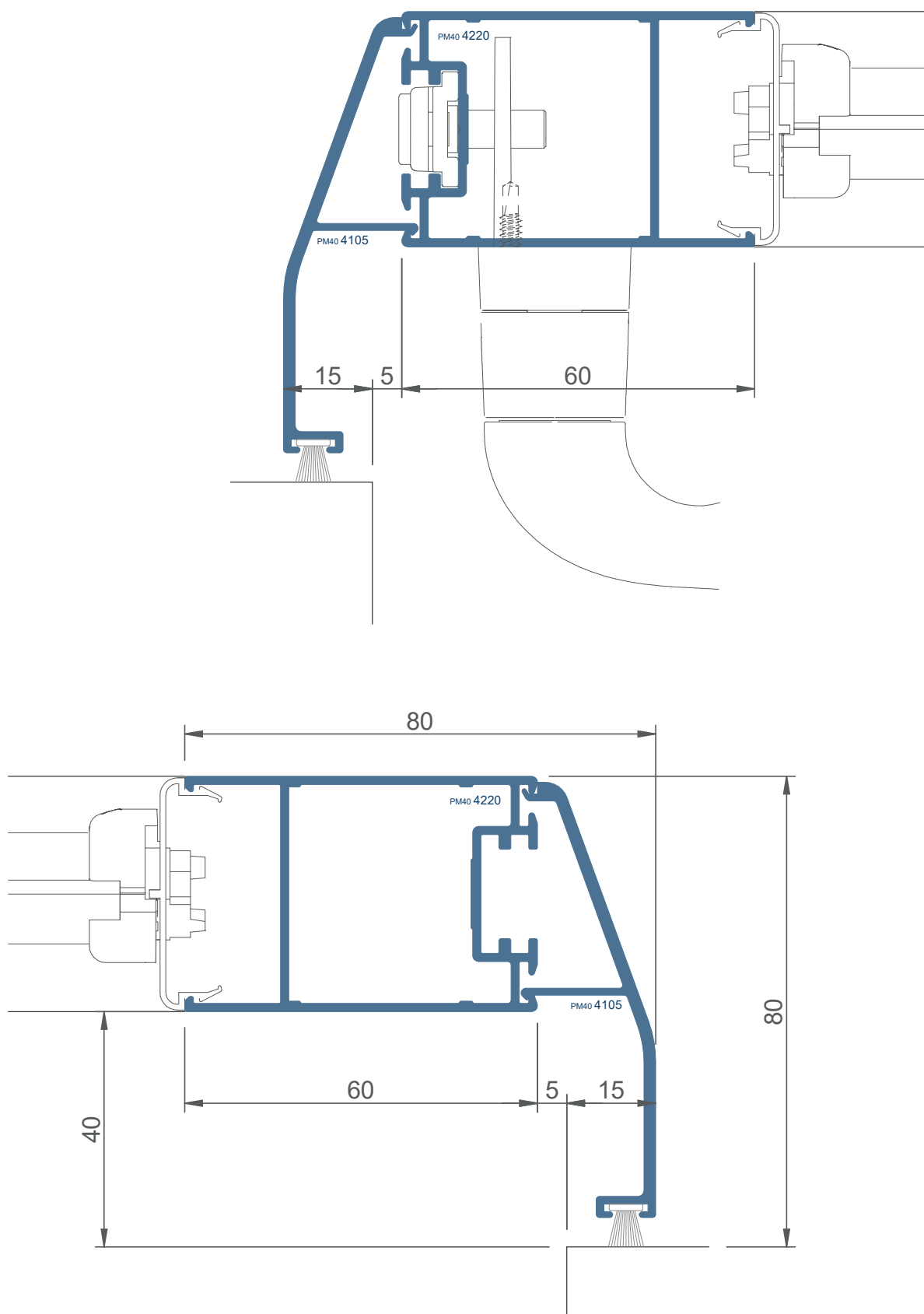


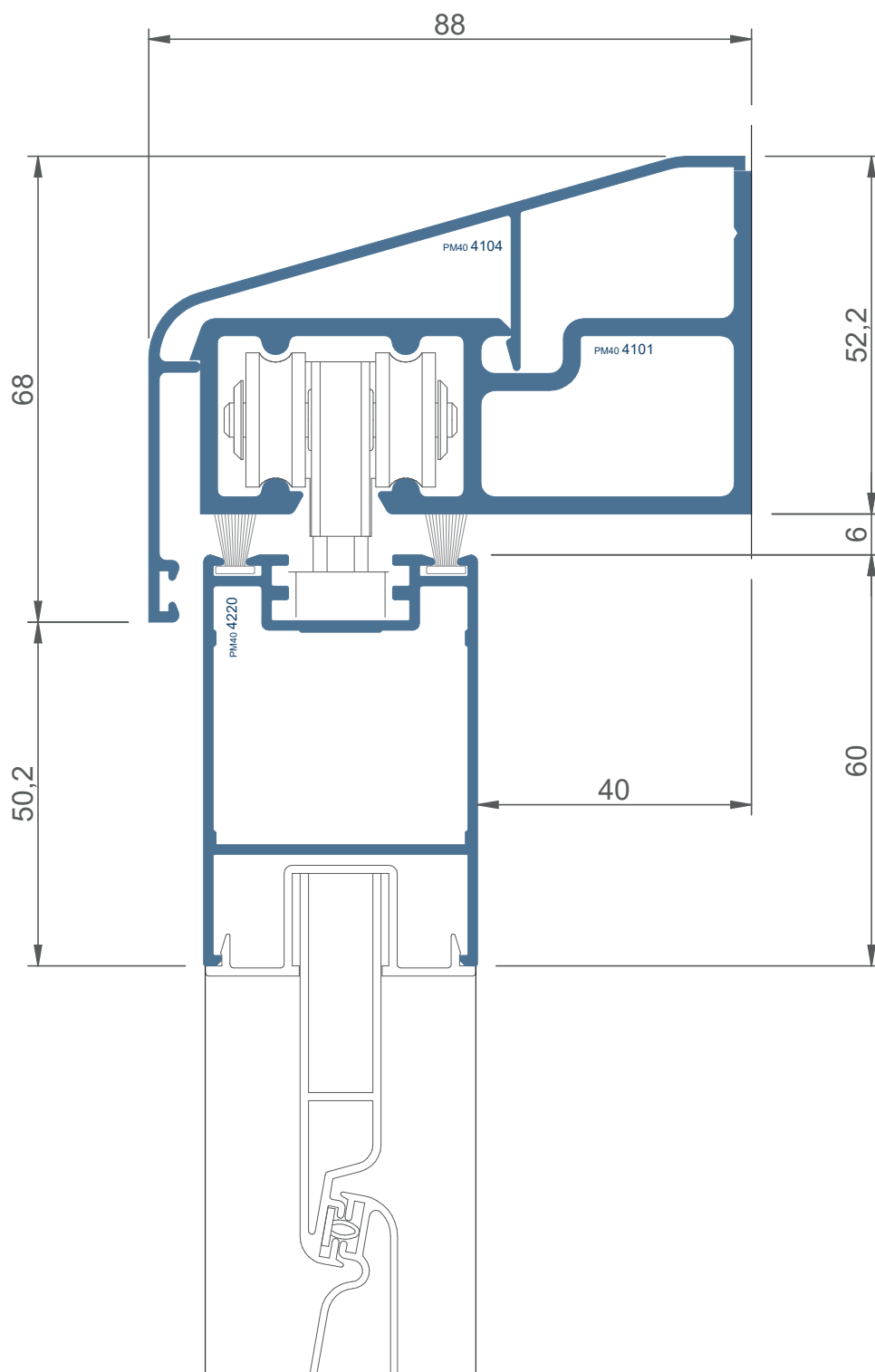


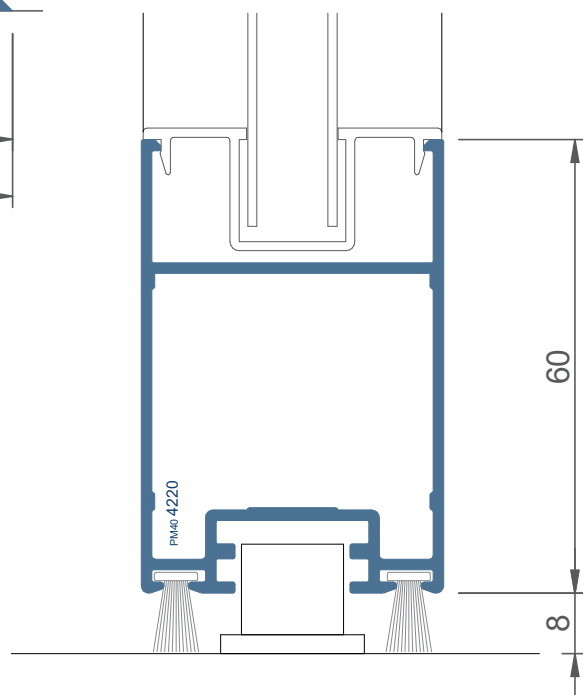
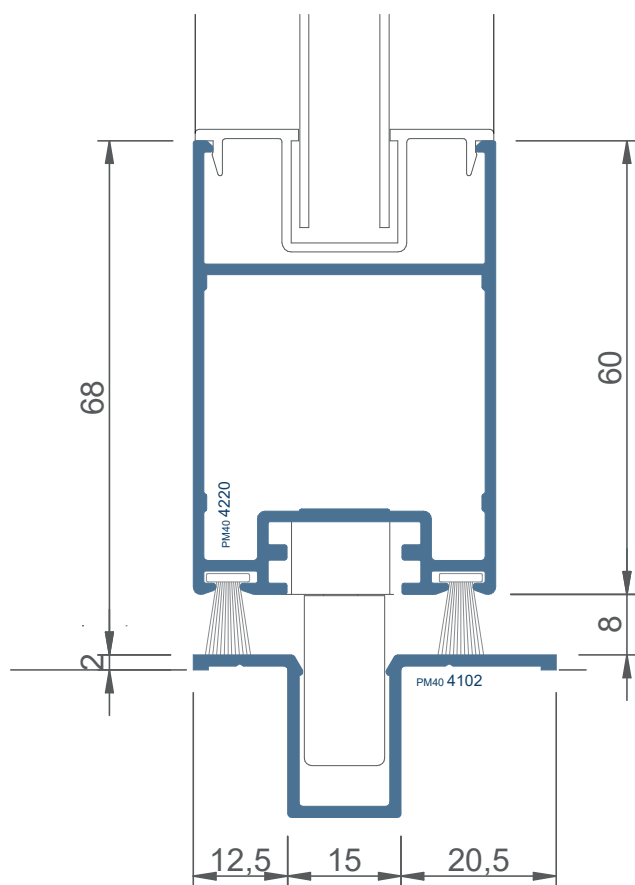
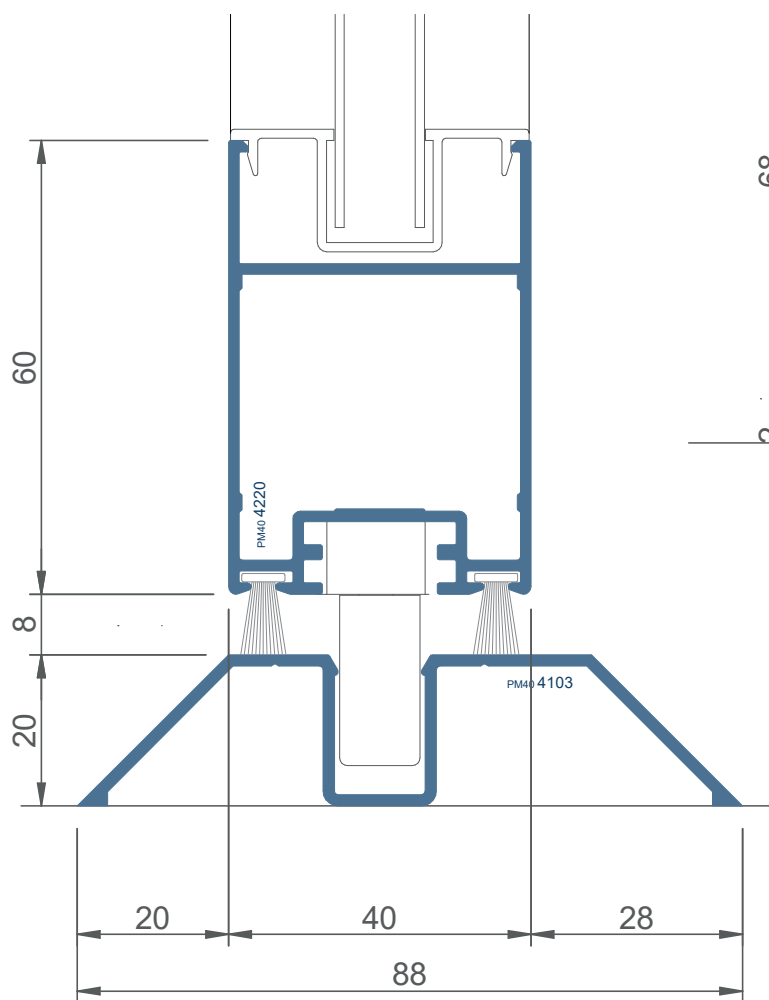


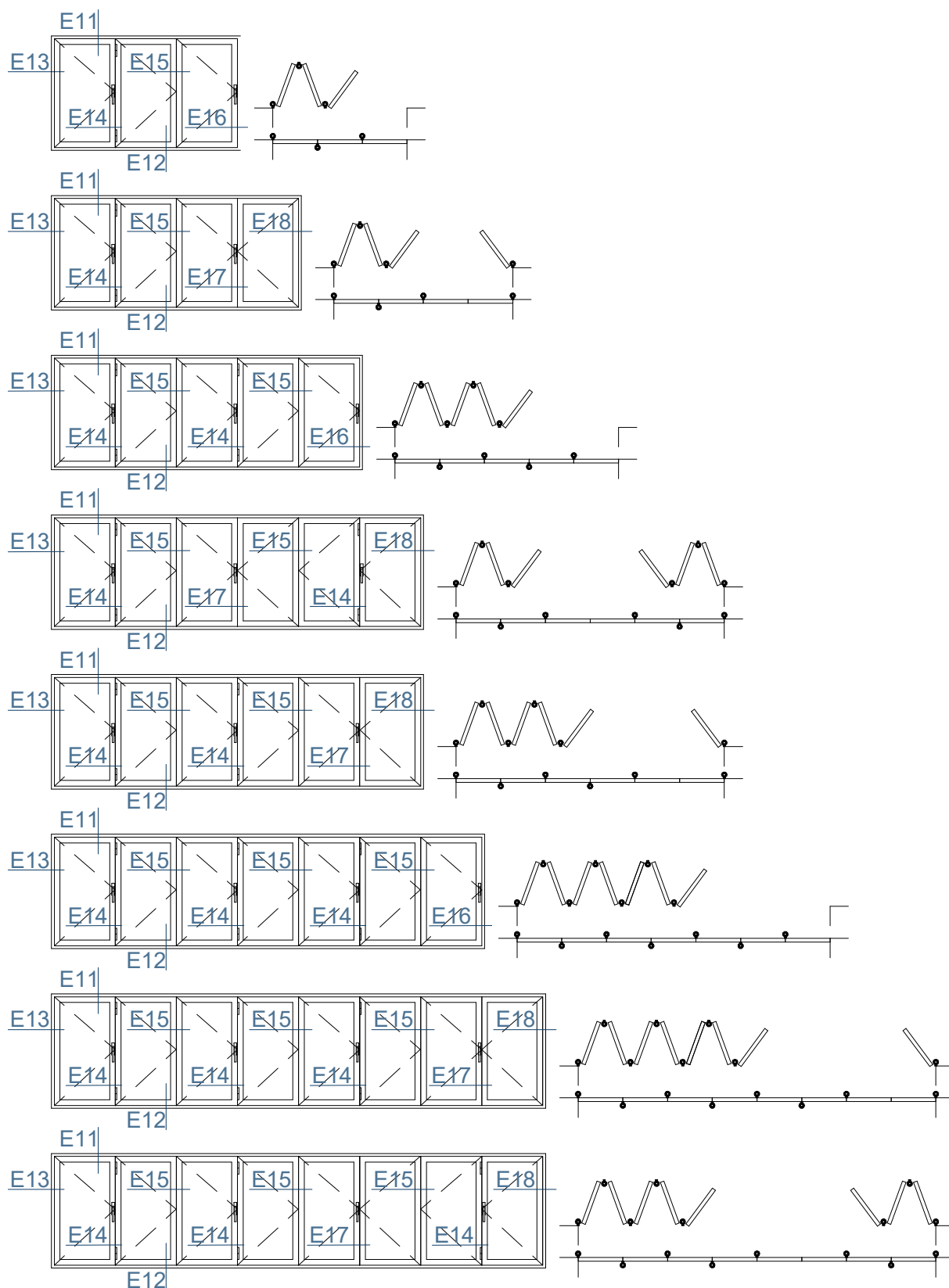


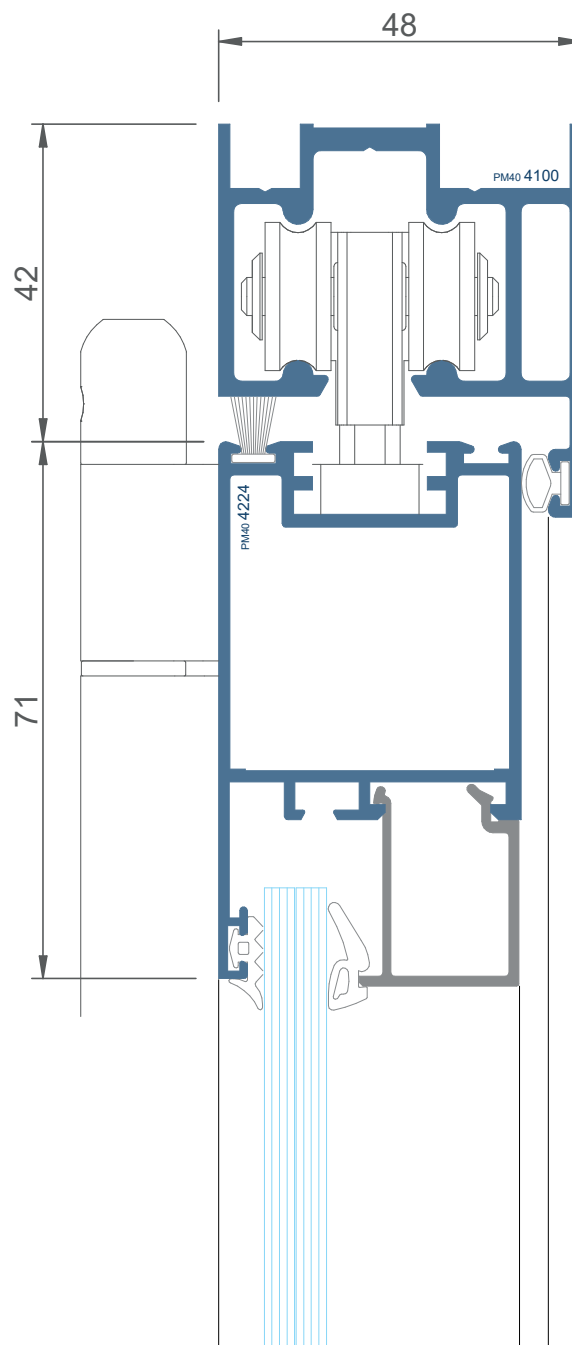
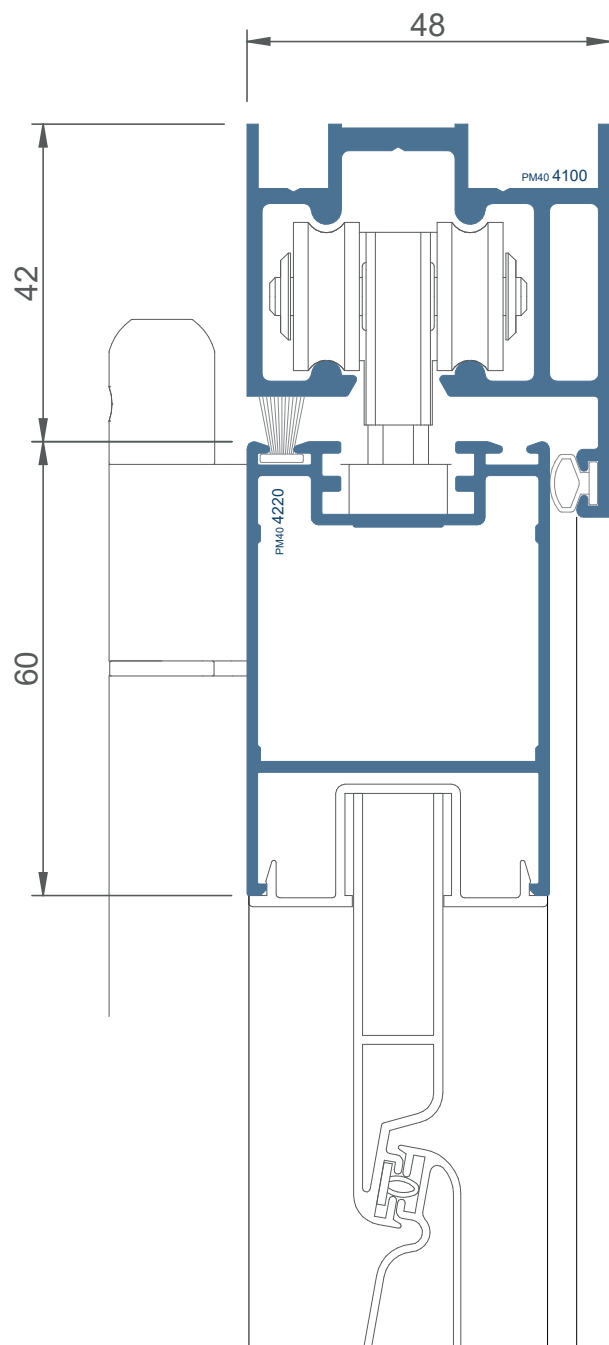


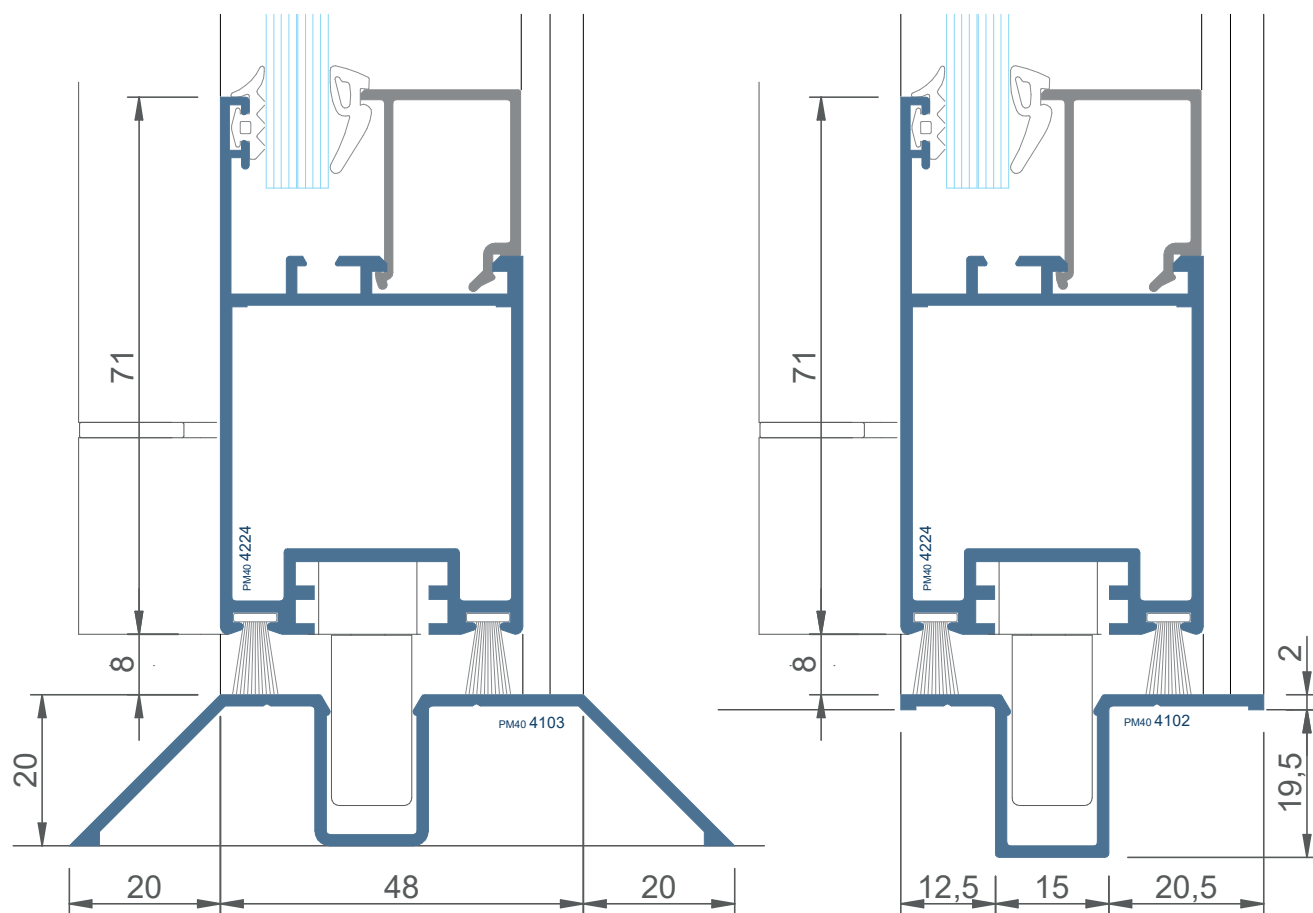
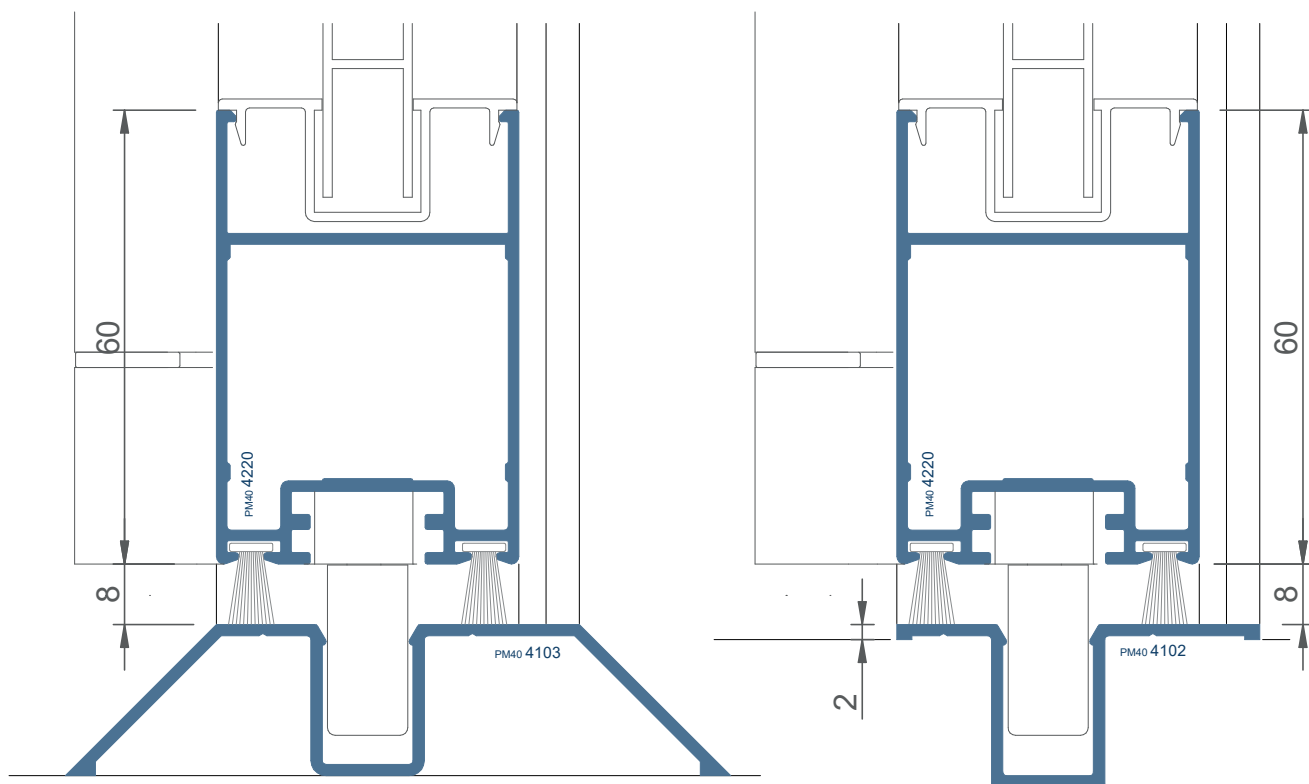


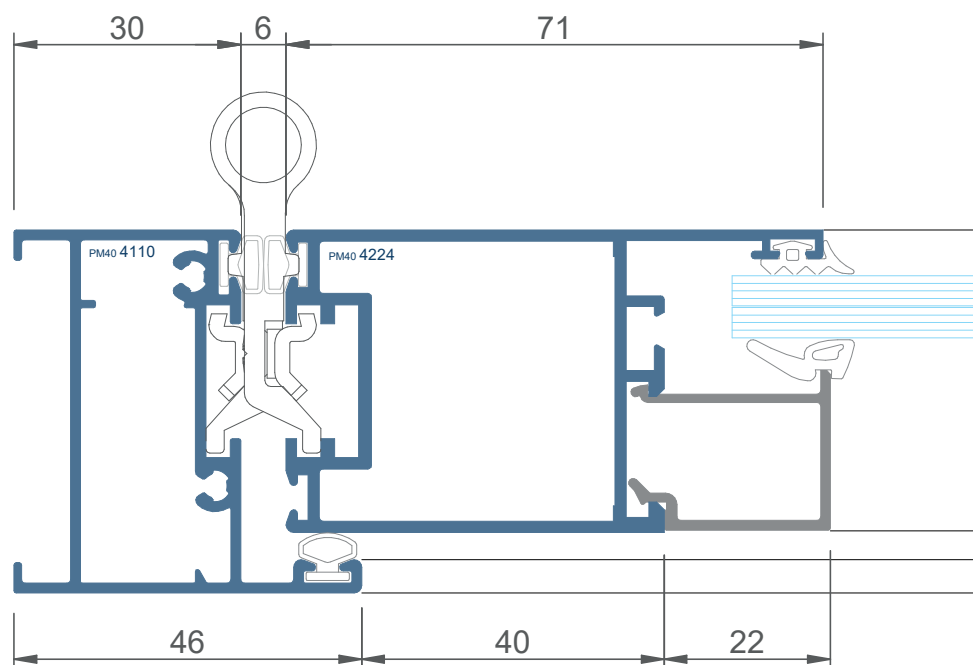
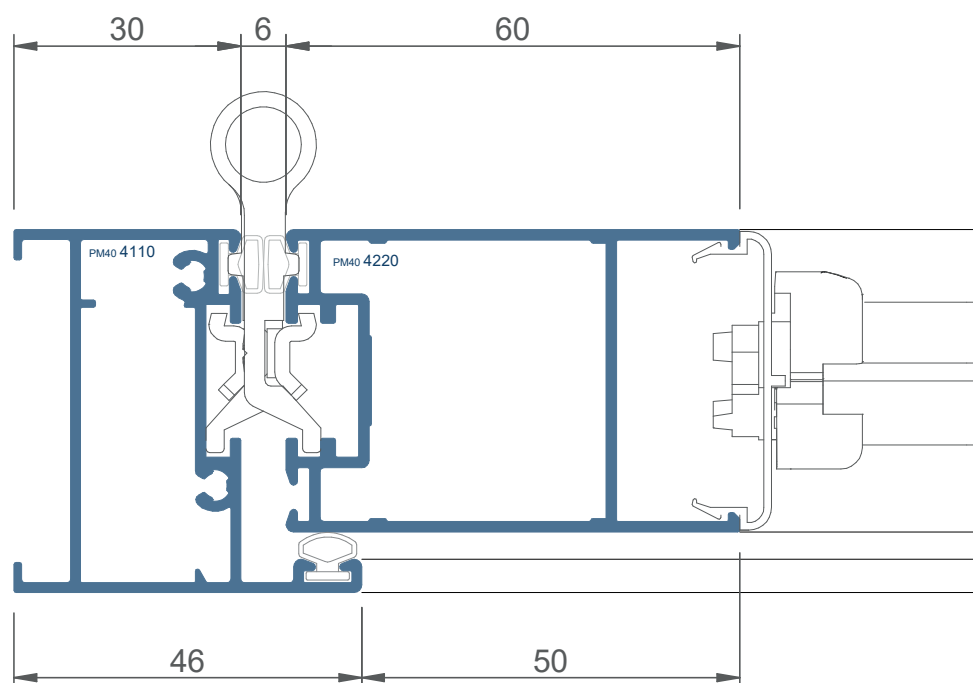


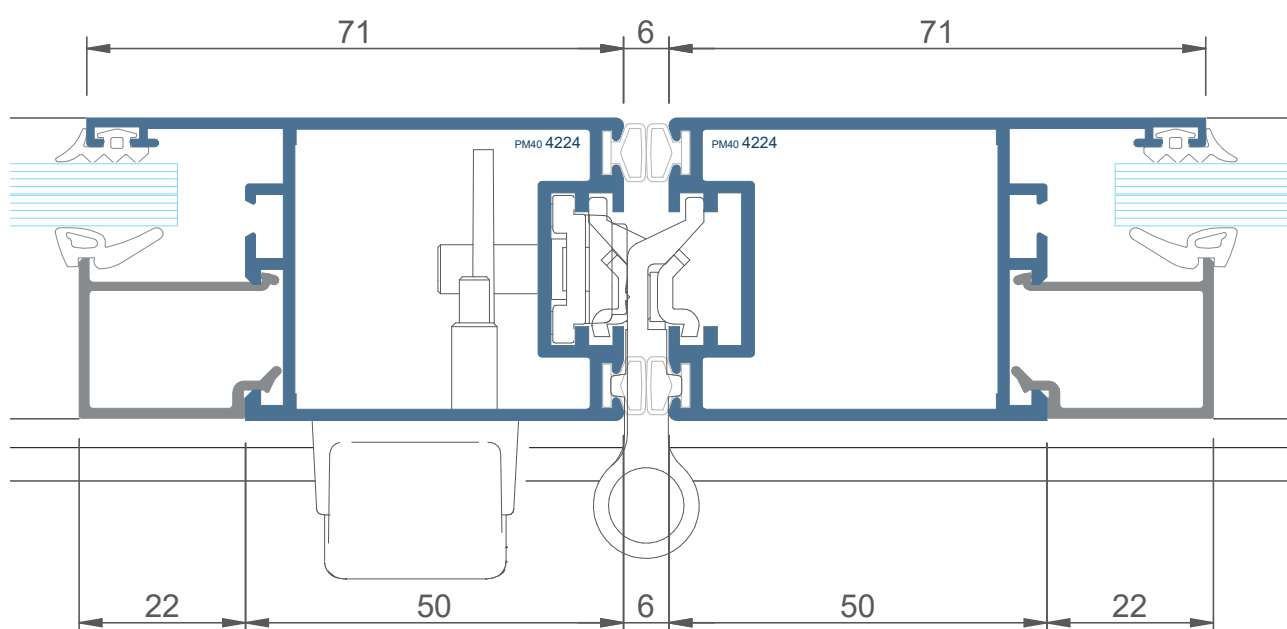
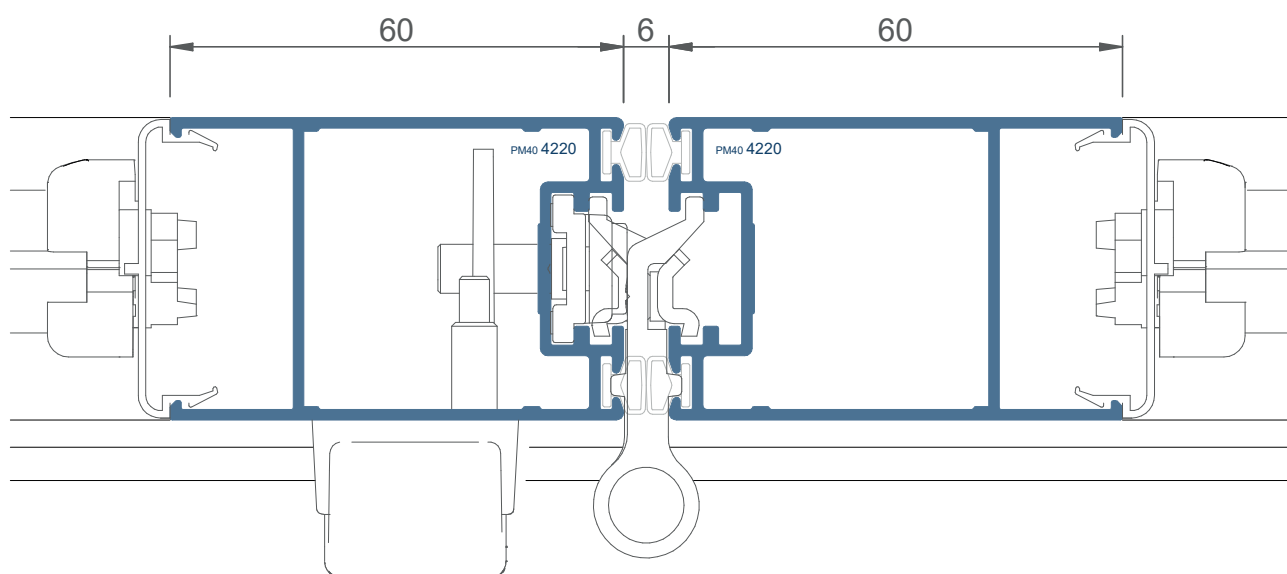


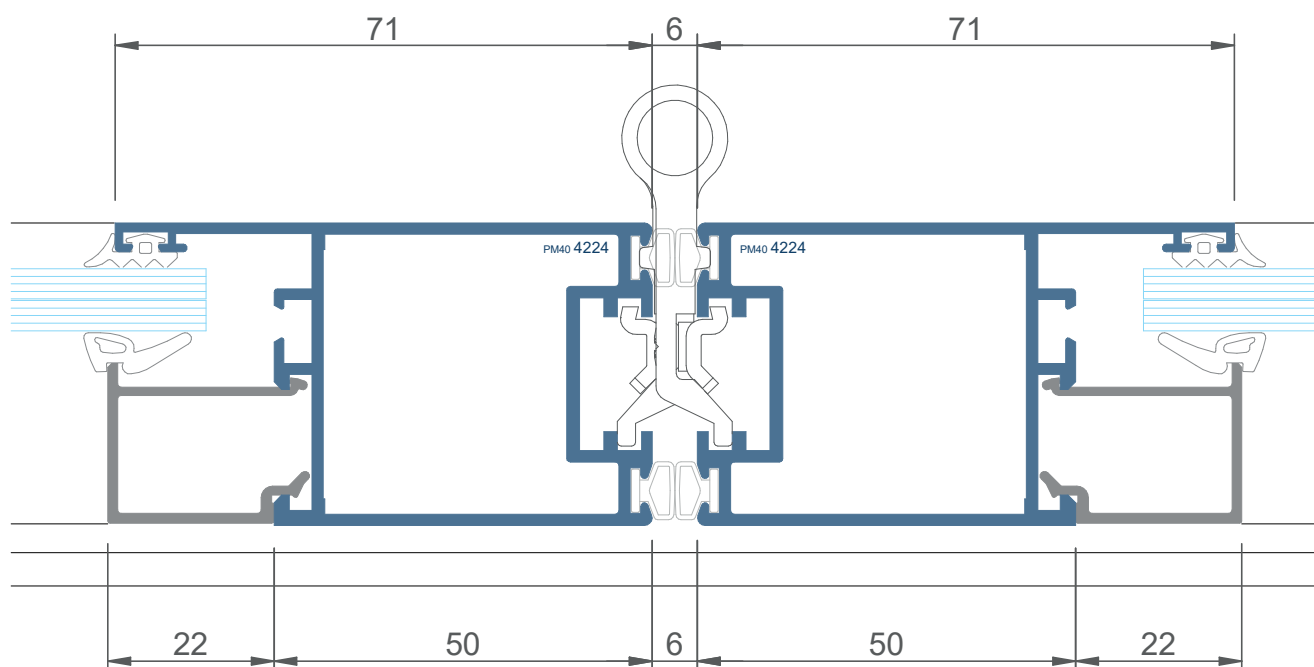
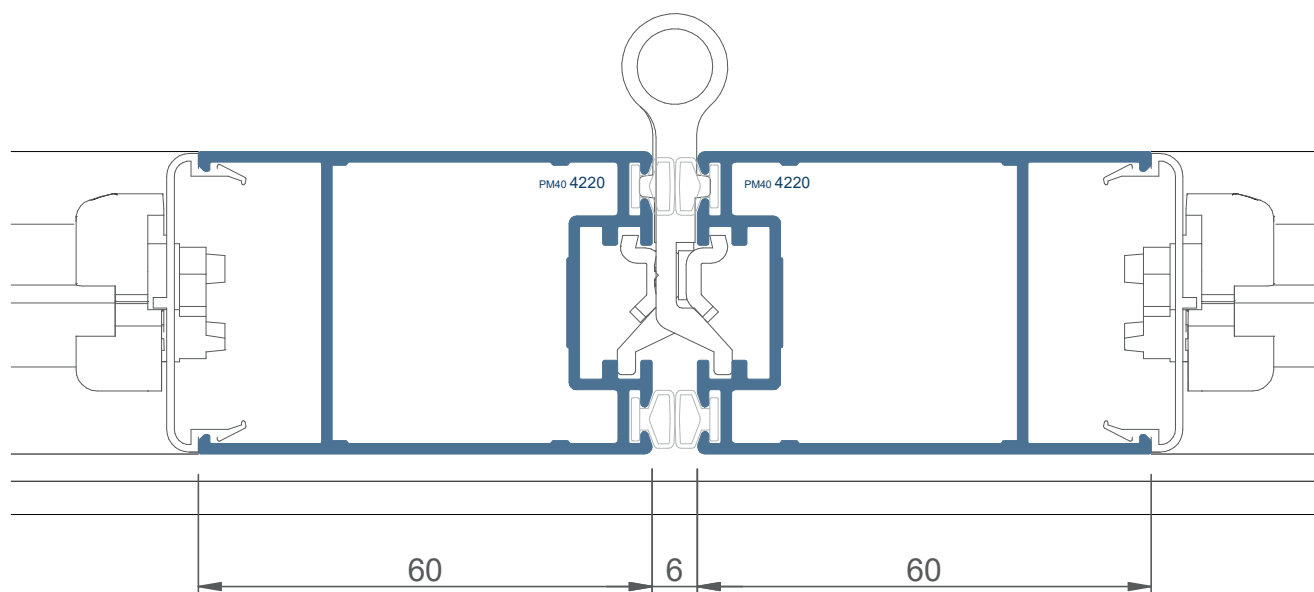


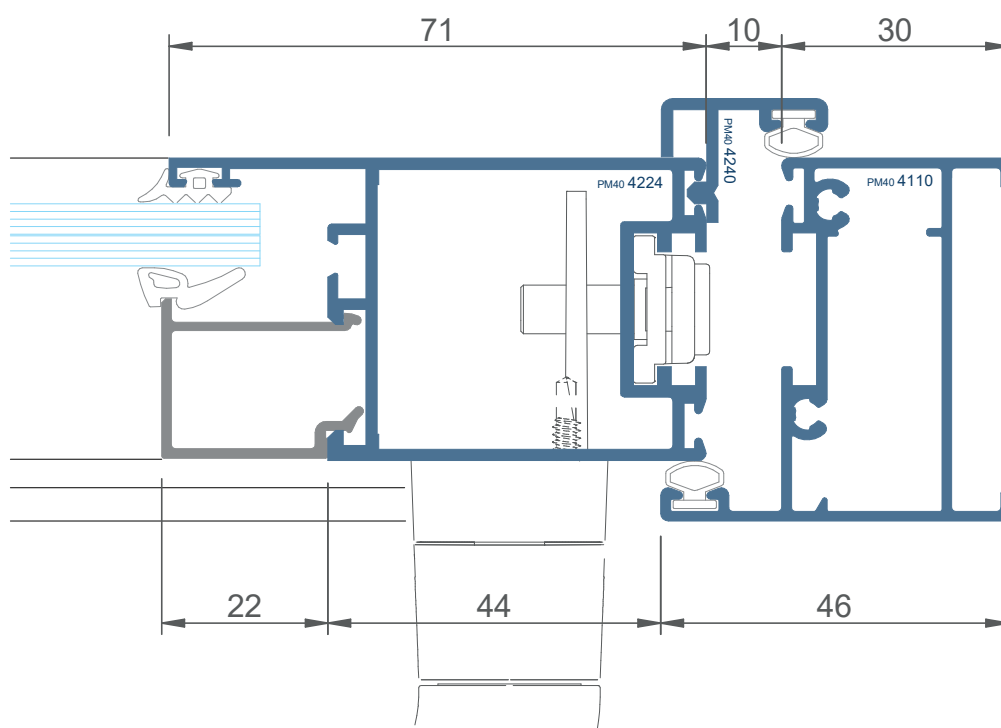
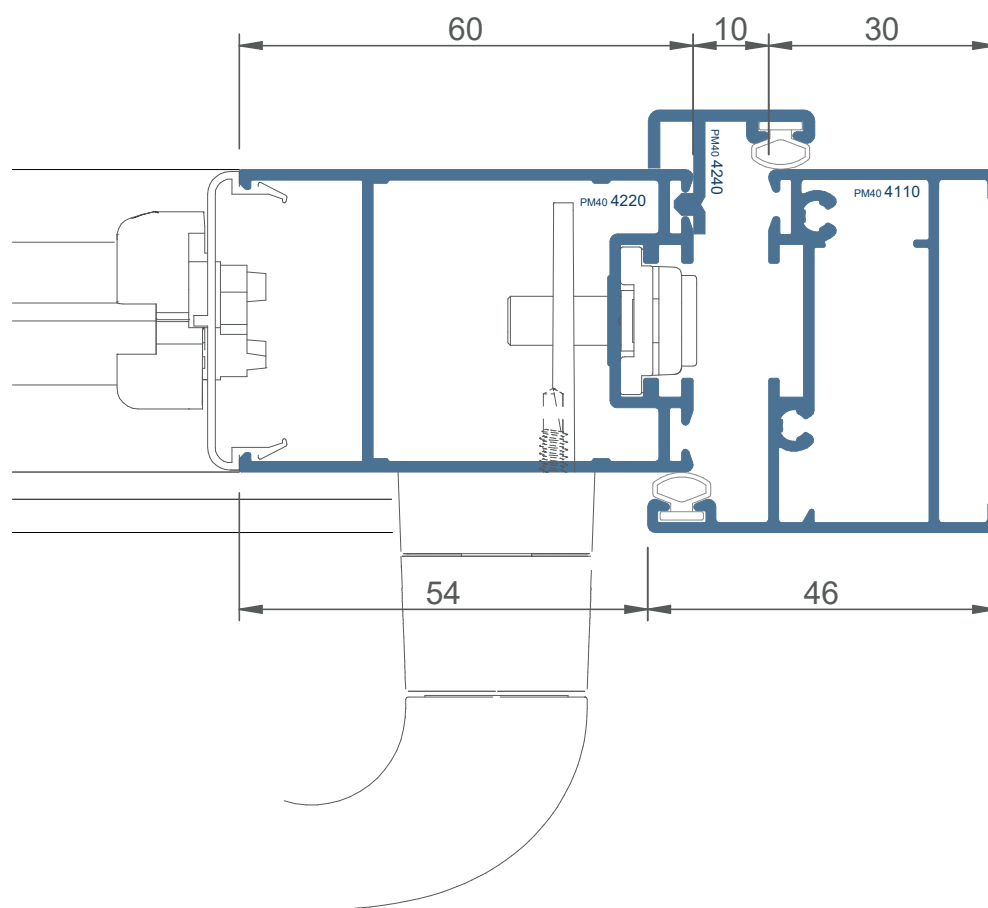


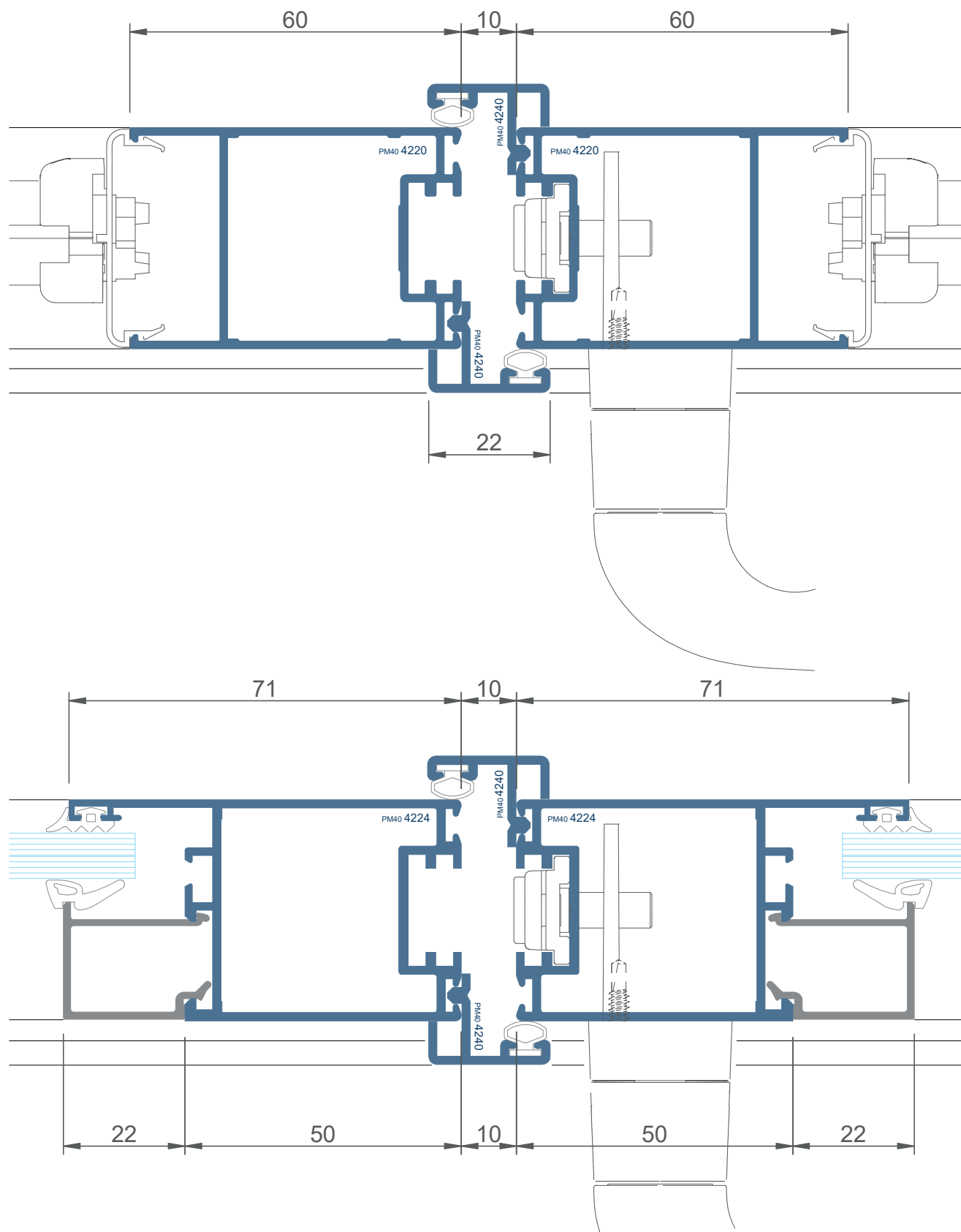


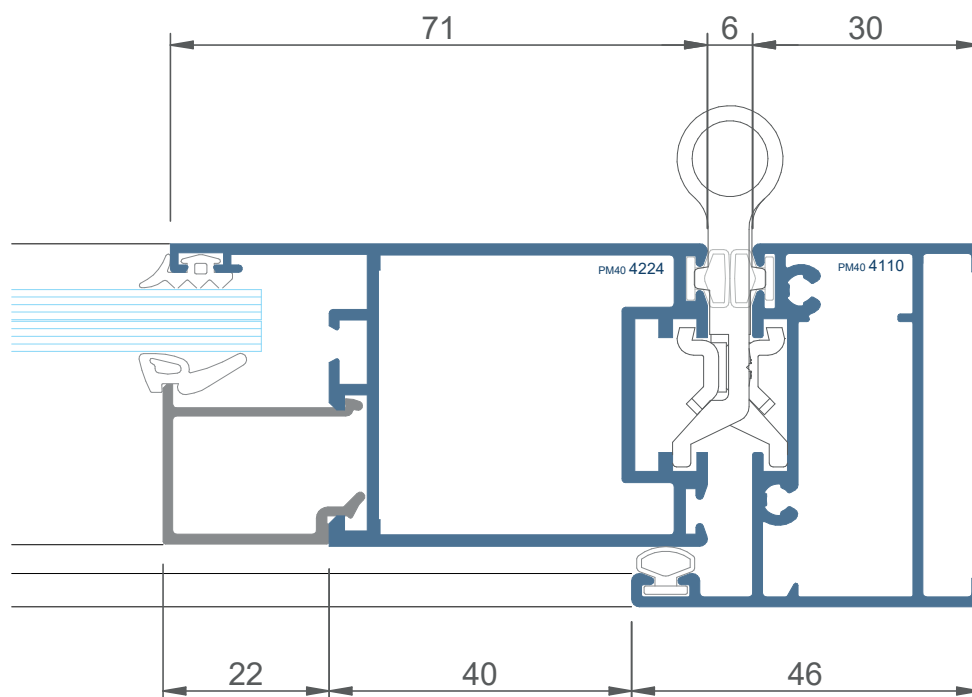
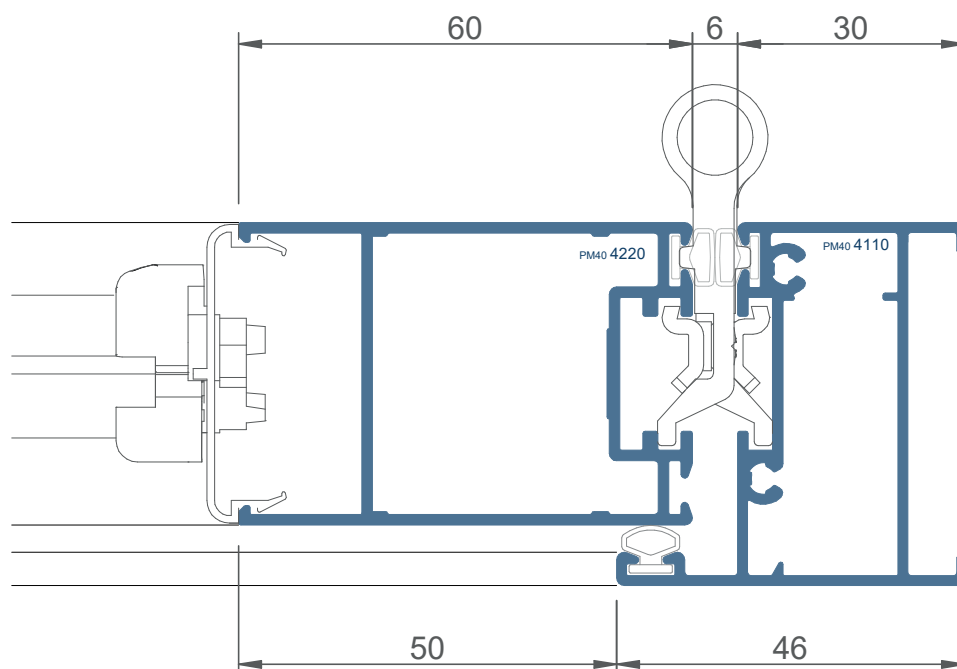


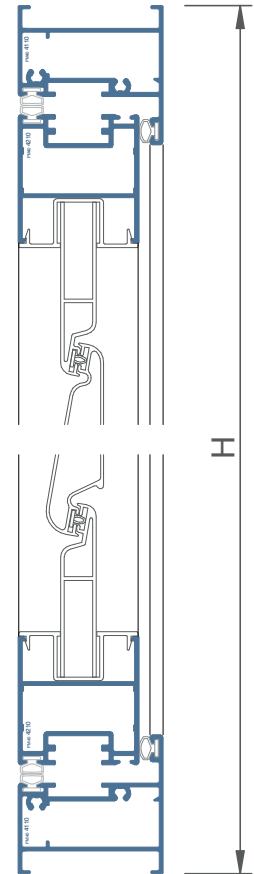
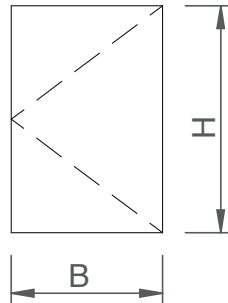












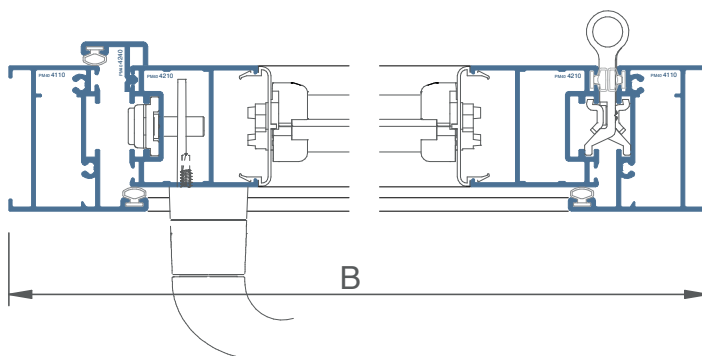
FORMULAS DE CORTE

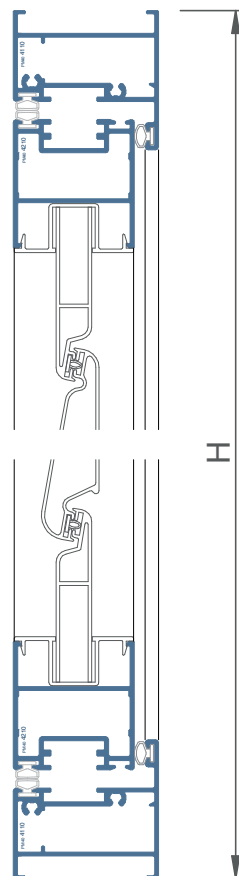
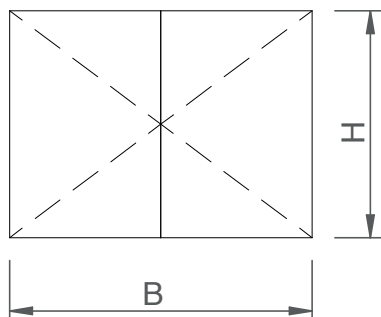
		UDS	FORMULA	FORMA
marco vertical	PM40.4110	2	H	\----/
marco horizontal	PM40.4110	2	B	\----/
hoja horizontal	PM40.4210	2	B-76	\----/
hoja vertical	PM40.4210	2	H-72	\----/
perfil ala batiente	PM40.4240	1	H-72	----
perfil reductor	PM40.4560	2	B-161	----
perfil terminal lama	PM40.0030	2	*	----
perfil lama móvil	PM40.0020	*	*	----

El corte de los perfiles PM40.0020 y PM40.0030 será en base al mecanismo escogido, así como el número de lamas.

ACCESORIOS

		UDS
escuadra	PM40.2112	8
bisagra normal	PM40.3110	2
cremona hoja principal	PM40.3100	1
conexión cremona falleba	PM40.3105	1
terminal falleba	PM40.3101	1
cerradero	PM40.3102	2
junta hoja	PM40.2320	5H + 4B
junta cierre lamas	PM40.2851	B x (H/60)





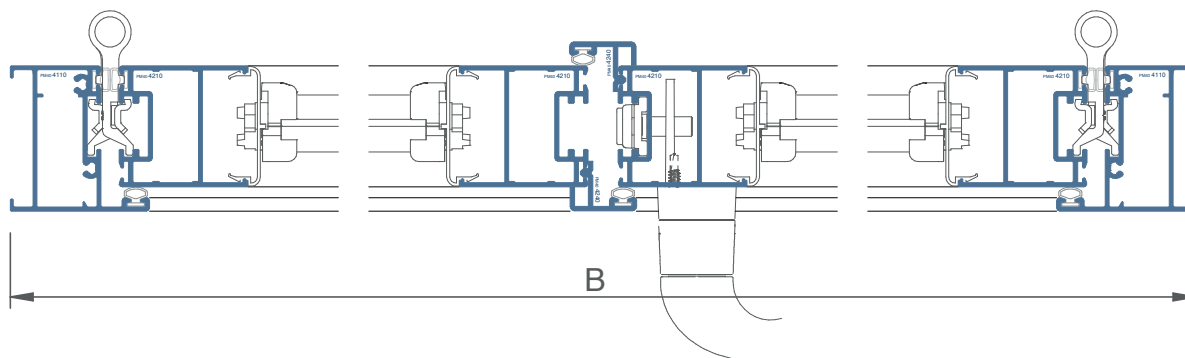
FORMULAS DE CORTE

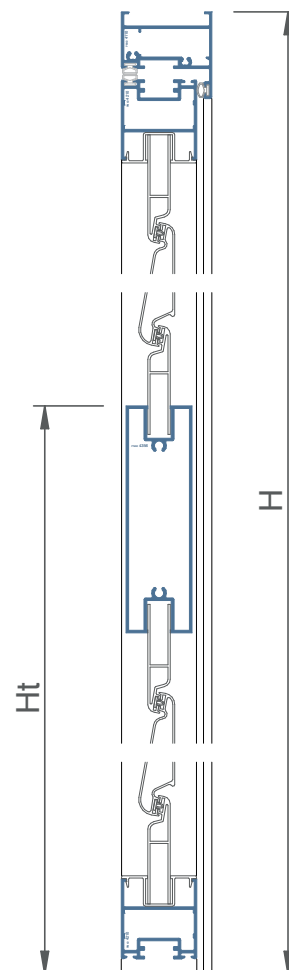
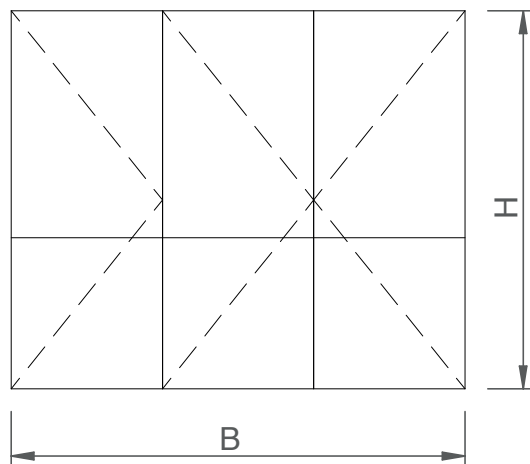
		UDS	FORMULA	FORMA
marco vertical	PM40.4110	2	H	\----/
marco horizontal	PM40.4110	2	B	\----/
hoja horizontal	PM40.4210	4	$(B-82)/2$	\----/
hoja vertical	PM40.4210	4	H-72	\----/
perfil ala batiente	PM40.4240	2	H-72	----
perfil reductor	PM40.4560	4	$(B-252)/2$	----
perfil terminal lama	PM40.0030	4	*	----
perfil lama móvil	PM40.0020	*	*	----

El corte de los perfiles PM40.0020 y PM40.0030 será en base al mecanismo escogido, así como el número de lamas.

ACCESORIOS

		UDS
escuadra	PM40.2112	12
bisagra normal	PM40.3110	4
cremona hoja principal	PM40.3100	1
conexión cremona falleba	PM40.3105	1
terminal falleba	PM40.3101	2
cerradero	PM40.3102	4
pasadores hoja pasiva	1541.2	2
junta hoja	PM40.2320	$8H + 4B$
junta cierre lamas	PM40.2851	$B \times (H/60)$





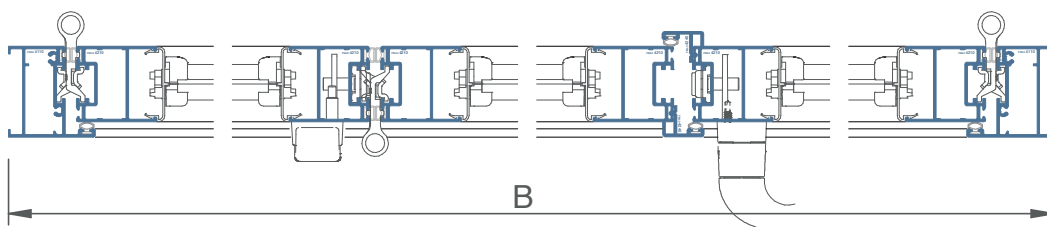
FORMULAS DE CORTE

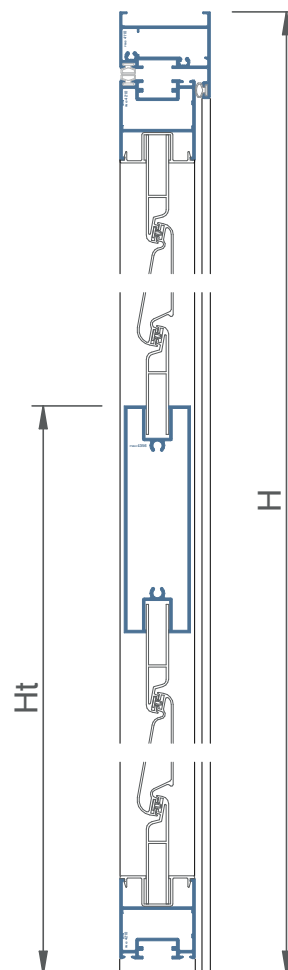
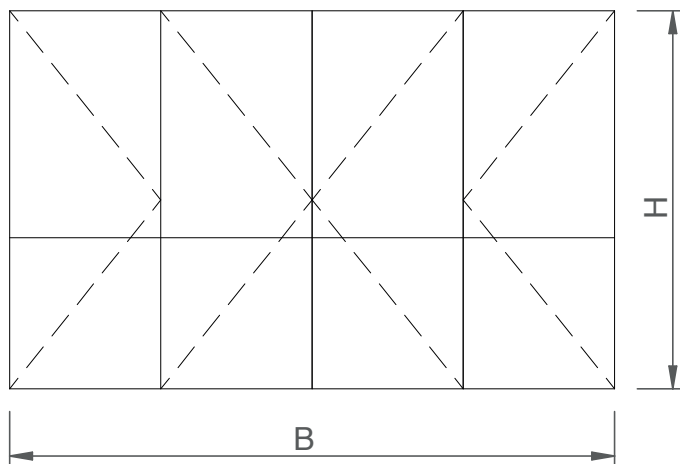
		UDS	FORMULA	FORMA
marco lateral	PM40.4110	2	H	---/\---
marco superior	PM40.4110	1	B	\---/
hoja horizontal	PM40.4210	6	$(B-88)/3$	\---/
hoja vertical	PM40.4210	6	H-44	\---/
perfil ala batiente	PM40.4240	2	H-44	---
perfil travesaño	AF47.4310	3	$(B-247)/3$	---
perfil reductor	PM40.4560	6	$(B-343)/3$	---
perfil terminal lama	PM40.0030	12	*	---
perfil lama móvil	PM40.0020	*	*	---

El corte de los perfiles PM40.0020 y PM40.0030 será en base al mecanismo escogido, así como el número de lamas.

ACCESORIOS

		UDS
escuadra	PM40.2112	14
bisagra normal	PM40.3112	9
cremona hoja principal	PM40.3100	1
cierre hojas intermedias	PM40.3104	1
	PM40.3103	1
conexión cremona falleba	PM40.3105	2
terminal falleba	PM40.3101	4
cerradero	PM40.3102	2
cerradero suelo	1409.10	2
pasadores hoja pasiva	1541.2	2
junta hoja	PM40.2320	$12H + 2B$
junta cierre lamas	PM40.2851	$B \times (H/60)$





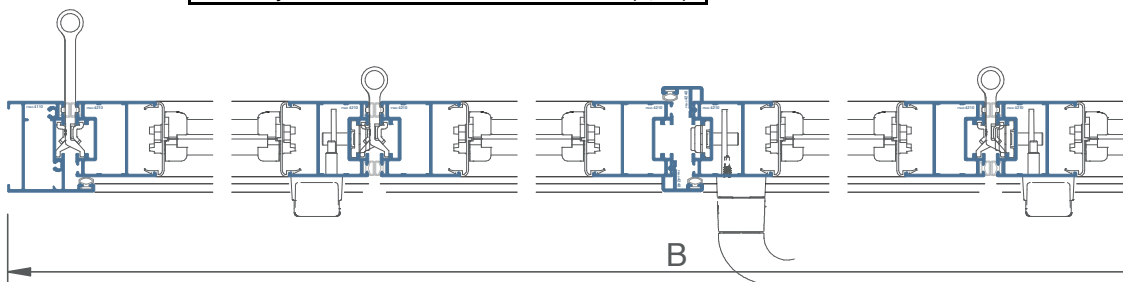
FORMULAS DE CORTE

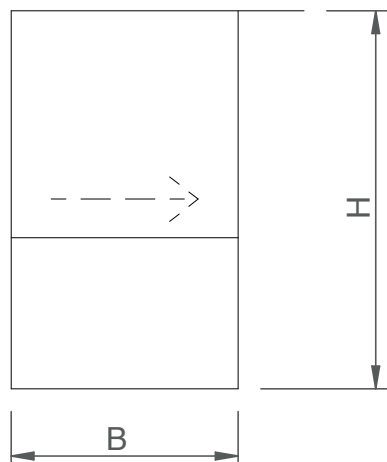
		UDS	FORMULA	FORMA
marco lateral	PM40.4110	2	H	---/\---
marco superior	PM40.4110	1	B	\---/
hoja horizontal	PM40.4210	4	$((B-94)/4)+10$	\---/
hoja horizontal	PM40.4210	4	$((B-94)/4)-10$	\---/
hoja vertical	PM40.4210	8	H-44	\---/
perfil ala batiente	PM40.4240	2	H-44	---
perfil travesaño	AF47.4310	4	$(B-306)/4$	---
perfil reductor	PM40.4560	8	$(B-434)/4$	---
perfil terminal lama	PM40.0030	16	*	---
perfil lama móvil	PM40.0020	*	*	---

El corte de los perfiles PM40.0020 y PM40.0030 será en base al mecanismo escogido, así como el número de lamas.

ACCESORIOS

		UDS
escuadra	PM40.2112	18
bisagra pala larga	PM40.3140	6
bisagra normal	PM40.3112	6
cremona hoja principal	PM40.3100	1
cierre hojas intermedias	PM40.3104	2
conexión cremona falleba	PM40.3105	3
terminal falleba	PM40.3101	4
cerradero	PM40.3102	3
cerradero suelo	1409.10	3
pasadores hoja pasiva	1541.2	2
junta hoja	PM40.2320	$16H + 2B$
junta cierre lamas	PM40.2851	$B \times (H/60)$





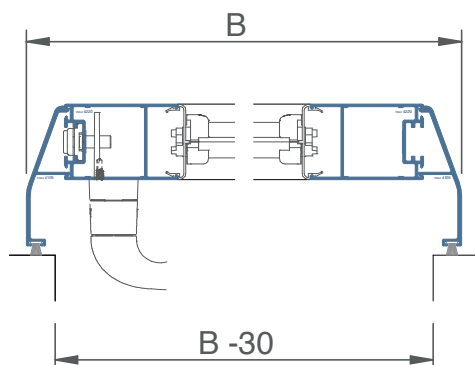
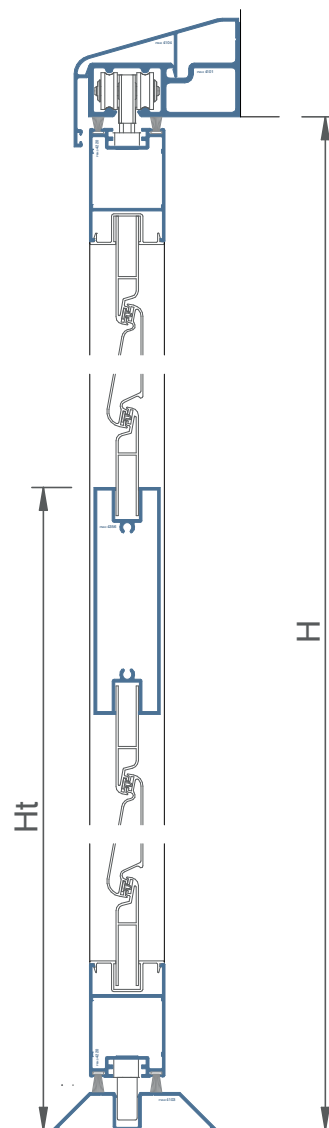
FORMULAS DE CORTE

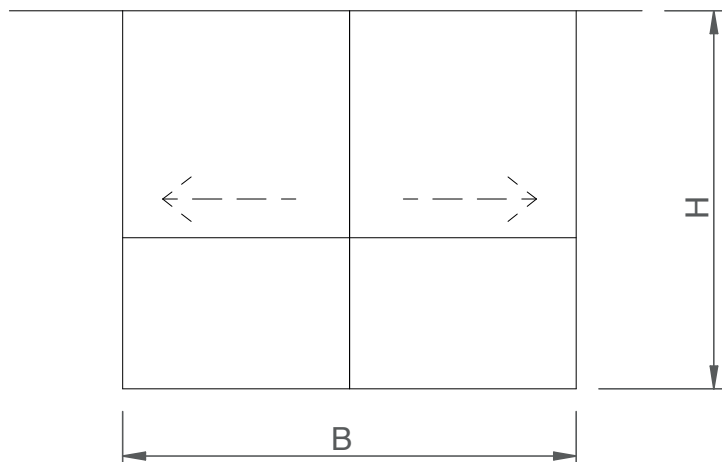
		UDS	FORMULA	FORMA
guía superior	PM40.4101	1	$(B+60) \times 2$	---
cubierta guía	PM40.4104	1	$(B+60) \times 2$	---
guía inferior	PM40.4103	1	$(B+60) \times 2$	---
hoja horizontal	PM40.4220	2	B-40	\---/
hoja vertical	PM40.4220	2	H-34	\---/
perfil cierre hoja	PM40.4105	2	H-34	---
perfil travesaño	PM40.4356	1	B-128	---
perfil reductor	PM40.4560	2	B-160	---
perfil terminal lama	PM40.0030	4	*	---
perfil lama móvil	PM40.0020	*	*	---

El corte de los perfiles PM40.0020 y PM40.0030 será en base al mecanismo escogido, así como el número de lamas.

ACCESORIOS

		UDS
escuadras hoja	PM40.2110	4
cremona cierre	PM40.3100	1
conexión cremona falleba	PM40.3105	1
terminal falleba - cierre	PM40.3101	1
ruedas hojas	PM40.3810	2
pieza fijación final carrera	PM40.3840	1
pieza final carrera	PM40.3830	2
patín guía inferior	PM40.3820	2
felpa cierre hojas	PM40.2359	$4B + 2H$
tapas extremo guía	PM40.3850	2
mecanismo lamas	-----	2
junta cierre lamas	PM40.2851	$B \times (H/60)$





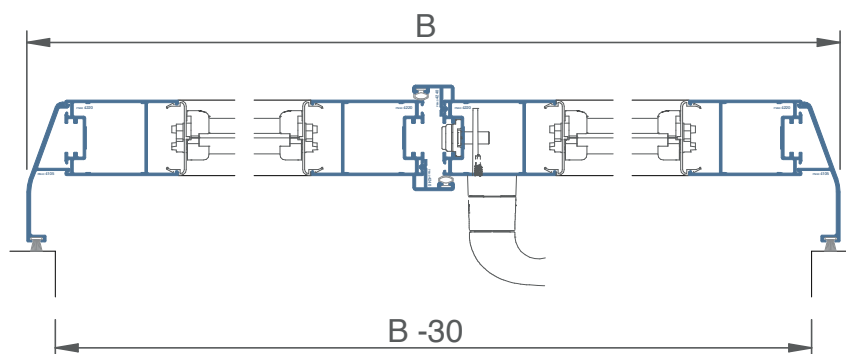
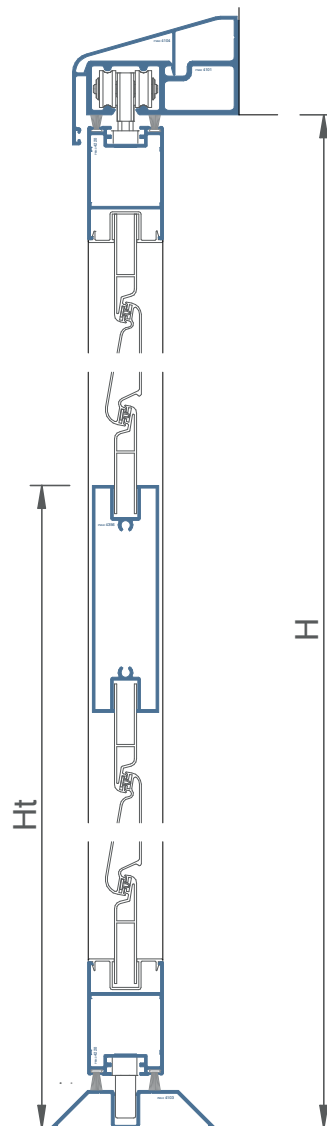
FORMULAS DE CORTE

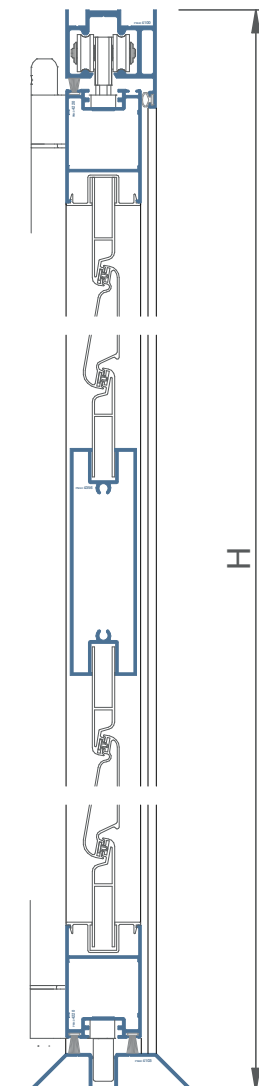
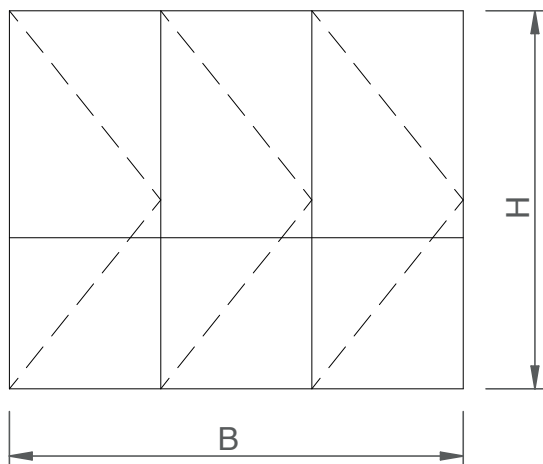
		UDS	FORMULA	FORMA
guía superior	PM40.4101	1	$(B+60) \times 2$	----
cubierta guía	PM40.4104	1	$(B+60) \times 2$	----
guía inferior	PM40.4103	1	$(B+60) \times 2$	----
hoja horizontal	PM40.4220	4	$(B-50)/2$	\----/
hoja vertical	PM40.4220	4	H-34	\----/
perfil ala batiente	PM40.4240	2	H-34	----
perfil cierre hoja	PM40.4105	2	H-34	----
perfil travesaño	PM40.4356	2	$(B-226)/2$	----
perfil reductor	PM40.4560	4	$(B-290)/2$	----
perfil terminal lama	PM40.0030	8	*	----
perfil lama móvil	PM40.0020	*	*	----

El corte de los perfiles PM40.0020 y PM40.0030 será en base al mecanismo escogido, así como el número de lamas.

ACCESORIOS

		UDS
escuadras hoja	PM40.2110	8
cremona cierre	PM40.3100	1
conexión cremona falleba	PM40.3105	1
piezas cierre hojas	PM40.3860	2
ruedas hojas	PM40.3810	4
pieza fijación final carrera	PM40.3840	4
pieza final carrera	PM40.3830	3
patín guía inferior	PM40.3820	4
felpa cierre hojas	PM40.2359	4B + 4H
tapas extremo guía	PM40.3850	2
mecanismo lamas	-----	4
junta cierre lamas	PM40.2851	B x (H/60)





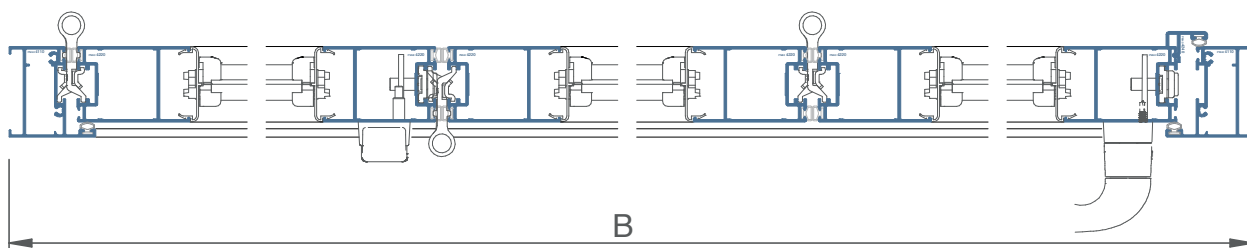
FORMULAS DE CORTE

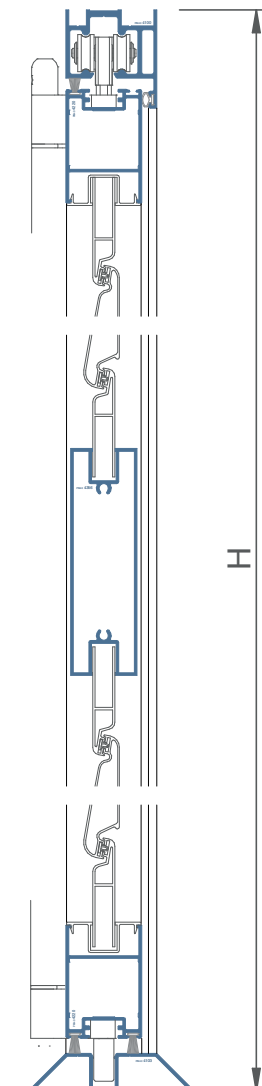
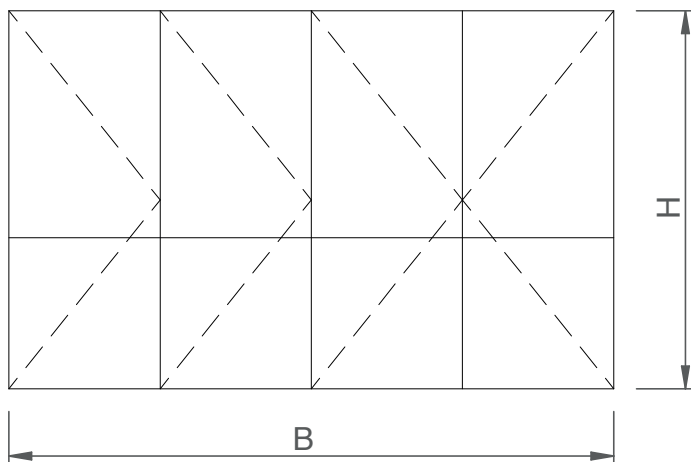
		UDS	FORMULA	FORMA
marco lateral	PM40.4110	2	H-56	----
raíl superior	PM40.4100	1	B	----
raíl inferior	PM40.4103	1	B	----
hoja horizontal	PM40.4220	6	$(B-88)/3$	\----/
hoja vertical	PM40.4220	6	H-70	\----/
perfil ala batiente	PM40.4240	1	H-70	----
perfil travesaño	PM40.4356	3	$(B-352)/3$	----
perfil reductor	PM40.4560	6	$(B-448)/3$	----
perfil terminal lama	PM40.0030	12	*	----
perfil lama móvil	PM40.0020	*	*	----

El corte de los perfiles PM40.0020 y PM40.0030 será en base al mecanismo escogido, así como el número de lamas.

ACCESORIOS

		UDS
escuadras hoja	PM40.2110	12
cjto bisagras plegable	PM40.3310	1
bisagra	PM40.3112	7
cierre hojas intermedias	PM40.3104	1
	PM40.3103	1
cremona hoja principal	PM40.3100	1
conexión cremona falleba	PM40.3105	2
terminal pletina falleba	PM40.3101	4
junta hoja	PM40.2320	14 H + 1 B
felpa cierre horizontal	PM40.2359	3 B
mecanismo lamas	-----	6
junta cierre lamas	PM40.2851	B x (H/60)





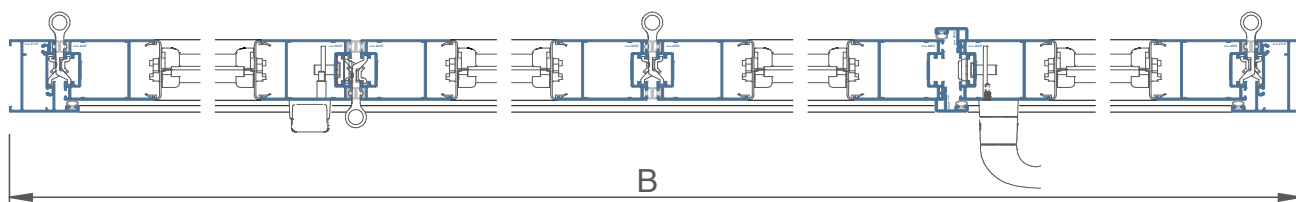
FORMULAS DE CORTE

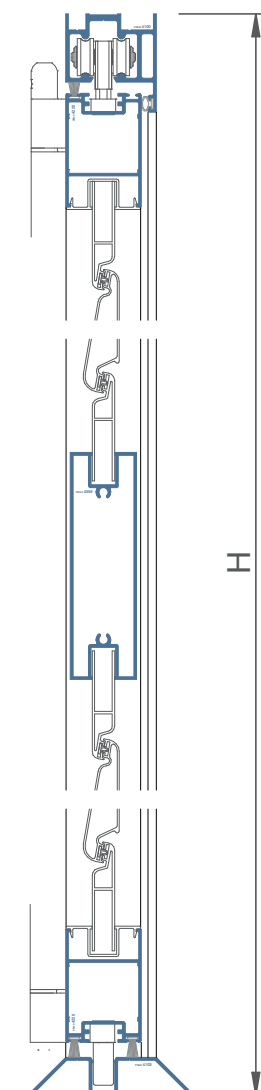
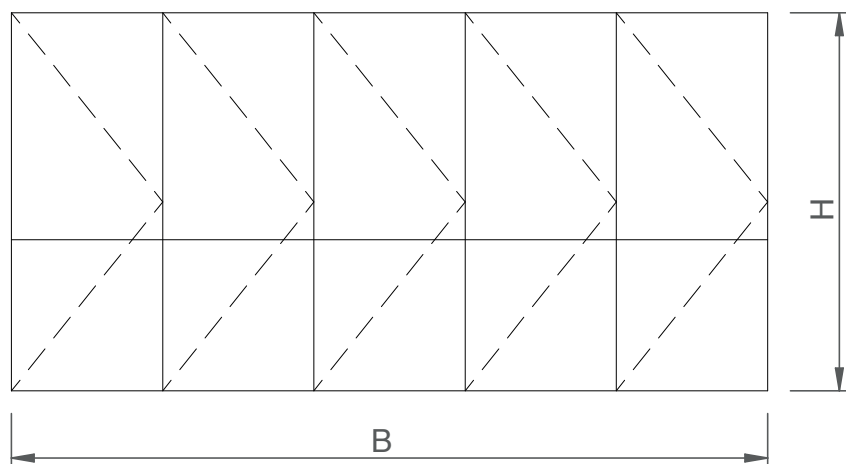
		UDS	FORMULA	FORMA
marco lateral	PM40.4110	2	H-56	---
raíl superior	PM40.4100	1	B	---
raíl inferior	PM40.4103	1	B	---
hoja horizontal	PM40.4220	8	$(B-94)/4$	\---/
hoja vertical	PM40.4220	8	H-70	\---/
perfil ala batiente	PM40.4240	2	H-70	---
perfil travesaño	PM40.4356	4	$(B-446)/4$	---
perfil reductor	PM40.4560	8	$(B-574)/4$	---
perfil terminal lama	PM40.0030	16	*	---
perfil lama móvil	PM40.0020	*	*	---

El corte de los perfiles PM40.0020 y PM40.0030 será en base al mecanismo escogido, así como el número de lamas.

ACCESORIOS

	UDS
escuadras hoja	PM40.2110 16
cjto bisagras plegable	PM40.3310 1
bisagra	PM40.3112 10
cierre hojas intermedias	PM40.3104 1
	PM40.3103
cremona hoja principal	PM40.3100 1
conexión cremona falleba	PM40.3105 2
terminal pletina falleba	PM40.3101 4
cierre hoja secundaria	1541.2 2
junta hoja	PM40.2320 16 H + 1 B
felpa cierre horizontal	PM40.2359 3 B
mecanismo lamas	----- 8
junta cierre lamas	PM40.2851 B x (H/60)





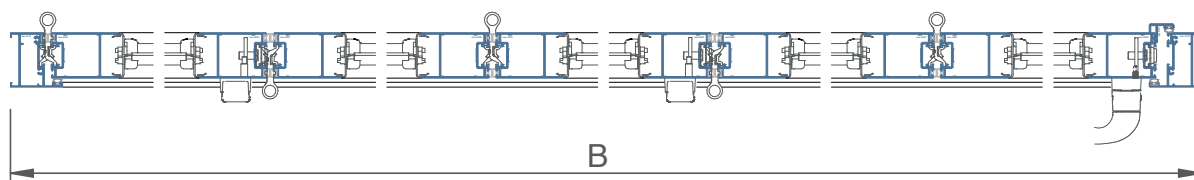
FORMULAS DE CORTE

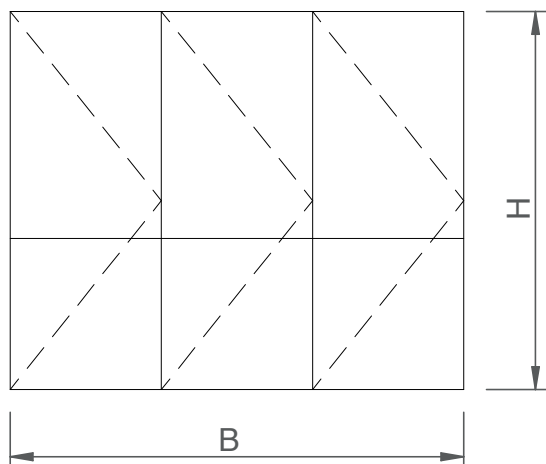
		UDS	FORMULA	FORMA
marco lateral	PM40.4110	2	H-56	---
raíl superior	PM40.4100	1	B	---
raíl inferior	PM40.4103	1	B	---
hoja horizontal	PM40.4220	10	$(B-100)/5$	\---/
hoja vertical	PM40.4220	10	H-70	\---/
perfil ala batiente	PM40.4240	1	H-70	---
perfil travesaño	PM40.4356	5	$(B-540)/5$	---
perfil reductor	PM40.4560	10	$(B-700)/5$	---
perfil terminal lama	PM40.0030	20	*	---
perfil lama móvil	PM40.0020	*	*	---

El corte de los perfiles PM40.0020 y PM40.0030 será en base al mecanismo escogido, así como el número de lamas.

ACCESORIOS

	UDS
escuadras hoja	PM40.2110 20
cjto bisagras plegable	PM40.3310 2
bisagra	PM40.3112 11
cierre hojas intermedias	PM40.3104 2
cremona hoja principal	PM40.3100 1
conexión cremona falleba	PM40.3105 3
terminal pletina falleba	PM40.3101 6
junta hoja	PM40.2320 $20 H + 1 B$
felpa cierre horizontal	PM40.2359 $3 B$
mecanismo lamas	----- 10
junta cierre lamas	PM40.2851 $B \times (H/60)$



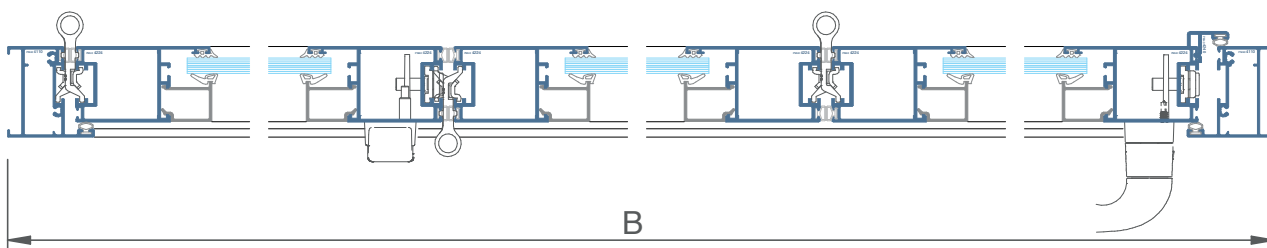
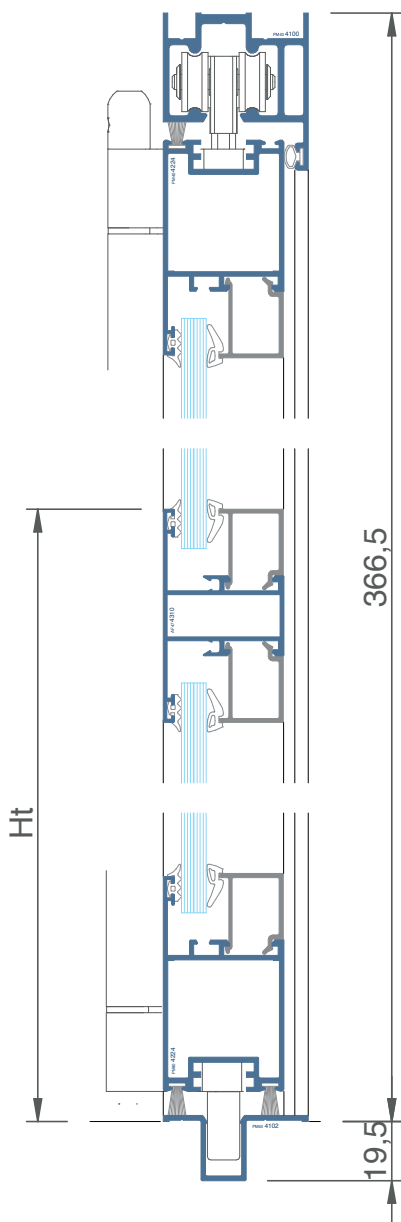


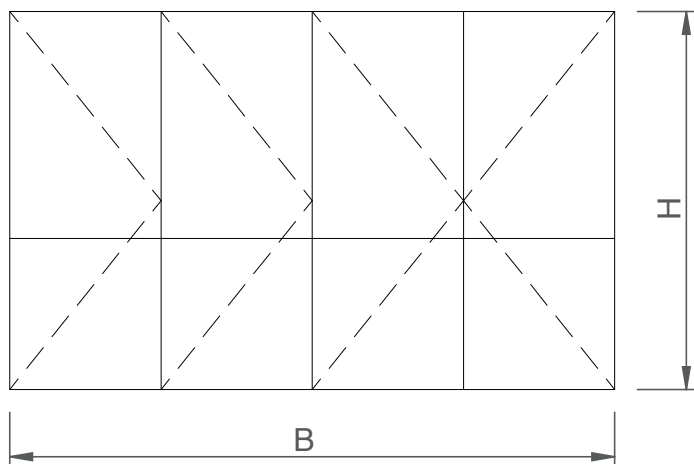
FORMULAS DE CORTE

		UDS	FORMULA	FORMA
marco lateral	PM40.4110	2	H-38	---
raíl superior	PM40.4100	1	B	---
raíl inferior	PM40.4102	1	B	---
hoja horizontal	PM40.4224	6	(B-88)/3	\---/
hoja vertical	PM40.4224	6	H-52	\---/
perfil ala batiente	PM40.4240	1	H-52	---
perfil travesaño	AF47.4310	3	(B-364)/3	---
junquillo horizontal	A000.45XX	12	(B-388)/3	---
junquillo vertical sup	A000.45XX	6	H-Ht-114	---
junquillo vertical inf	A000.45XX	6	Ht-152	---
	vidrio	3	(B-448)/3 x H-Ht-90	
	vidrio	3	(B-448)/3 x Ht-128	

ACCESORIOS

		UDS
escuadras hoja	PM40.2110	12
tope travesaño	A000.2120	6
cjto bisagras plegable	PM40.3310	1
bisagra	PM40.3112	7
cierre hojas intermedias	PM40.3104	1
	PM40.3103	
cremona hoja principal	PM40.3100	1
conexión cremona falleba	PM40.3105	2
terminal pletina falleba	PM40.3101	4
junta hoja	PM40.2320	13 H + 1 B
felpa cierre horizontal	PM40.2359	3 B



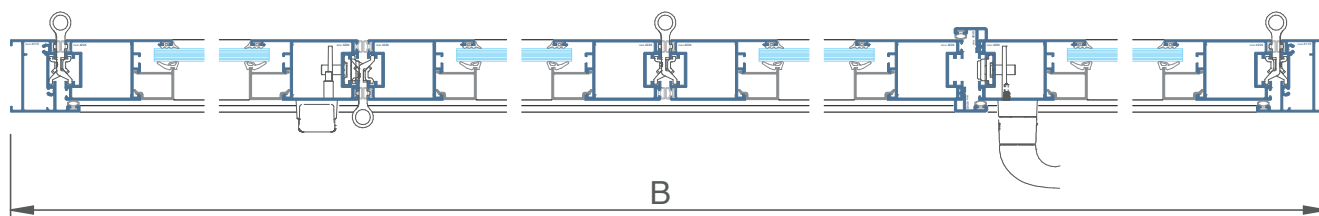
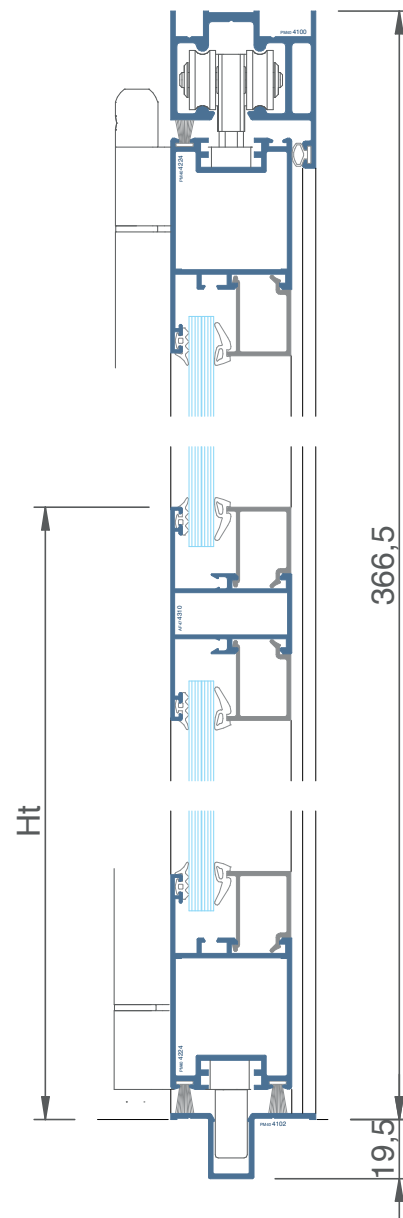


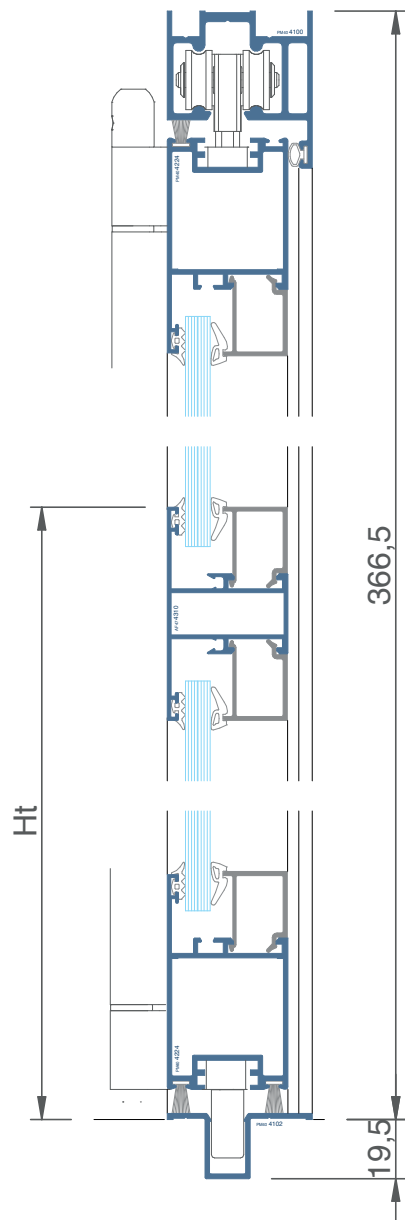
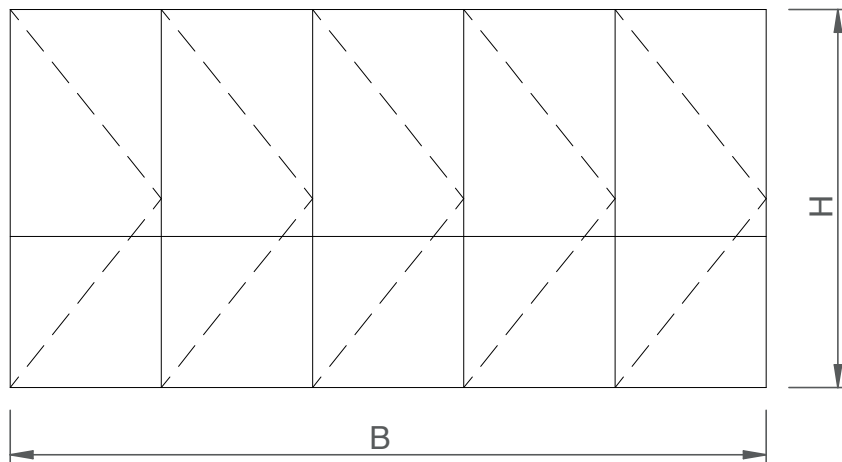
FORMULAS DE CORTE

		UDS	FORMULA	FORMA
marco lateral	PM40.4110	2	H-38	----
raíl superior	PM40.4100	1	B	----
raíl inferior	PM40.4102	1	B	----
hoja horizontal	PM40.4224	8	$(B-94)/4$	\----/
hoja vertical	PM40.4224	8	H-52	\----/
perfil ala batiente	PM40.4240	2	H-52	----
perfil travesaño	AF47.4310	4	$(B-462)/4$	----
junquillo horizontal	A000.45XX	16	$(B-494)/4$	----
junquillo vertical sup	A000.45XX	8	H-Ht-114	----
junquillo vertical inf	A000.45XX	8	Ht-152	----
	vidrio	4	$(B-574)/4 \times H-Ht-90$	
	vidrio	4	$(B-574)/4 \times Ht-128$	

ACCESORIOS

		UDS
escuadras hoja	PM40.2110	16
tope travesaño	A000.2120	8
cjto bisagras plegable	PM40.3310	1
bisagra	PM40.3112	10
cierre hojas intermedias	PM40.3104	1
	PM40.3103	
cremona hoja principal	PM40.3100	1
conexión cremona falleba	PM40.3105	2
terminal pletina falleba	PM40.3101	4
cierre hoja secundaria	1541.2	2
junta hoja	PM40.2320	16 H + 1 B
felpa cierre horizontal	PM40.2359	3 B



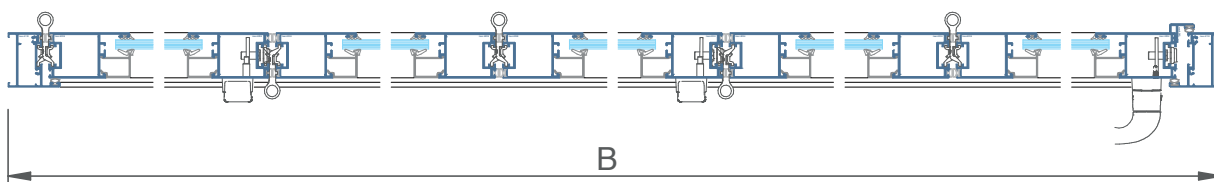


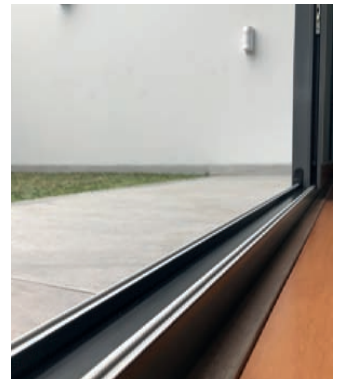
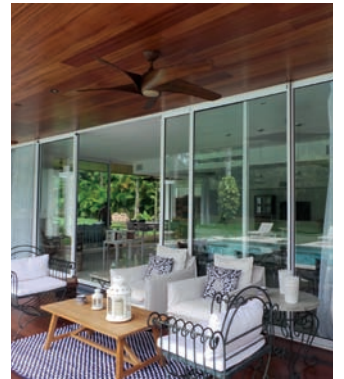
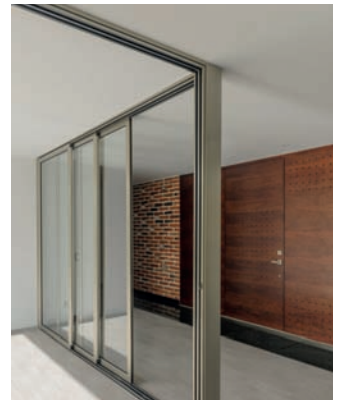
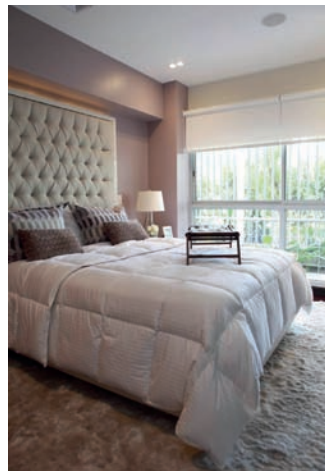
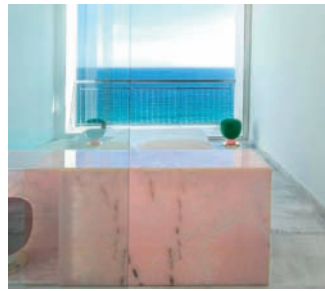
FORMULAS DE CORTE

	UDS	FORMULA	FORMA
marco lateral	PM40.4110	2	H-38
raíl superior	PM40.4100	1	B
raíl inferior	PM40.4102	1	B
hoja horizontal	PM40.4224	10	$(B-100)/5$
hoja vertical	PM40.4224	10	$H-52$
perfil ala batiente	PM40.4240	1	H-52
perfil travesaño	AF47.4310	5	$(B-560)/5$
junquillo horizontal	A000.45XX	20	$(B-600)/5$
junquillo vertical sup	A000.45XX	10	H-Ht-114
junquillo vertical inf	A000.45XX	10	Ht-152
vidrio	5	$(B-700)/5 \times H-Ht-90$	
vidrio	5	$(B-700)/5 \times Ht-128$	

ACCESORIOS

	UDS
escuadras hoja	PM40.2110
tope travesaño	A000.2120
cjto bisagras plegable	PM40.3310
bisagra	PM40.3112
cierre hojas intermedias	PM40.3104
	PM40.3103
cremona hoja principal	PM40.3100
conexión cremona falleba	PM40.3105
terminal pletina falleba	PM40.3101
junta hoja	PM40.2320
felpa cierre horizontal	PM40.2359







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Sede Central en Barcelona

C/ Narcís Monturiol, 34
08192 Sant Quirze del Vallès
Barcelona (España)
Tel. +34 937 121 237
contacto@thermiabarcelona.com
Síguenos en   

Delegación Área Andina

Los Telares, 289
Urbanización Industrial Vulcano
Ate, Lima (Perú)
Tel. +51-1-7197649

Showrooms

Barcelona

Narcís Monturiol, 34
08192 Sant Quirze Valles
Tel. +34 937 121 237

Lima

Paseo de la República, 3583
2o. Piso - San Isidro
Tel. +51-1-7197649

Girona

Carrer Sant Jordi, 2
Local 4 - Sarrià de Ter
Tel. +34 937 121 237

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