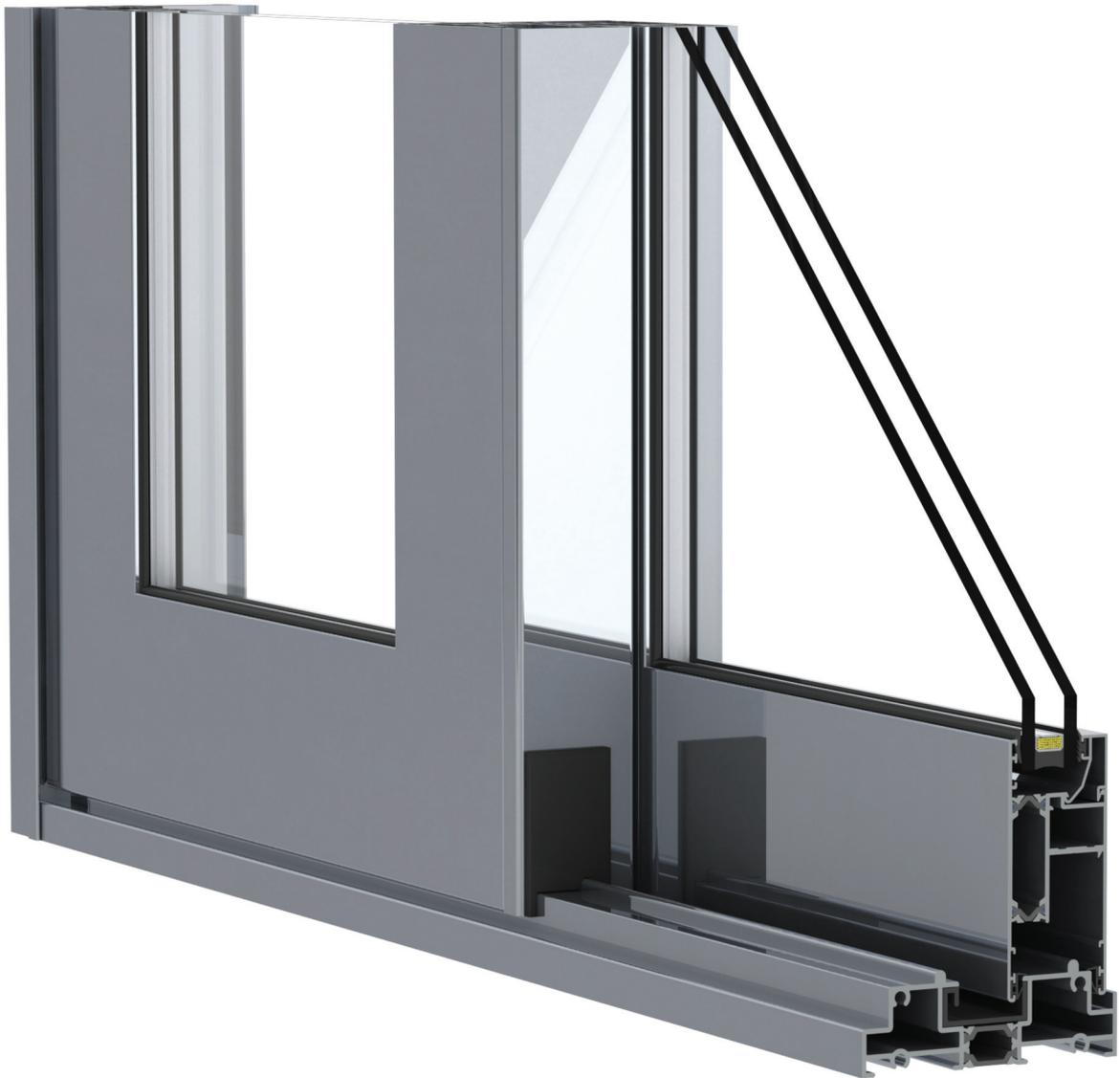
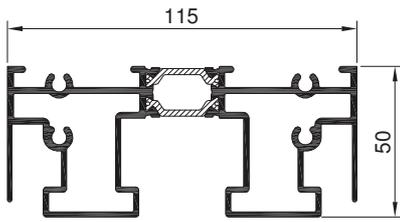


Ce29r

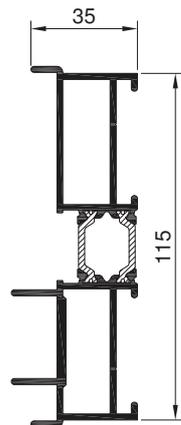




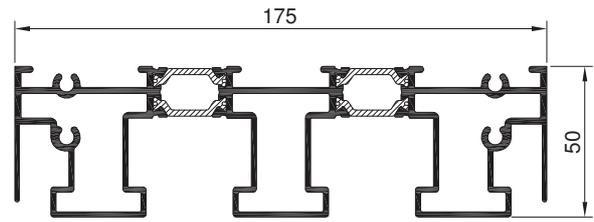
● Perfiles:	> Perfiles de Ventana.....	Páginas	02
● Uniones en escuadra:.....	> Unión de escuadra hoja.....	Página	03
	> Unión de escuadra marco.....	Páginas	04 y 05
● Montaje de Hoja Fija:.....		Páginas	06 a 08
● Rebaje Cruce de Hojas:.....		Página	09
● Retestado Perfil 4 Hojas:.....		Página	10
● Salida de agua:.....		Página	11
● Tapa Hoja Central:.....		Página	12
● Cortavientos y Desagüe:.....		Página	13
● Útiles de mecanizado:.....	> Operaciones EXP-1.....	Páginas	14 a 18
	> Operaciones EXP-2.....	Páginas	19 y 20
● Mecanizado Marco 3 Carriles:.....		Página	21
● Unión de Marcos 3 Carriles:.....		Página	22
● Útiles de mecanizado CE29R/EXP-1:.....		Página	23
● Útiles de mecanizado CE29R/EXP-2:.....		Página	24
● Secciones y Hojas de corte:..	> Hoja de corte ventana 2 hojas.....	Páginas	25 y 26
	> Hoja de corte ventana de 3 hojas (2 carriles).....	Páginas	27 y 28
	> Hoja de corte ventana de 4 hojas	Páginas	29 y 30
	> Hoja de corte ventana de 3 hojas (3 carriles)	Páginas	31 y 32



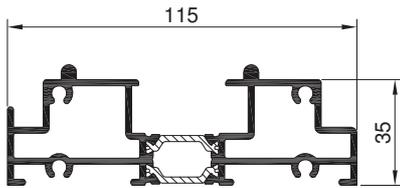
C-13152
 MARCO SUPERIOR



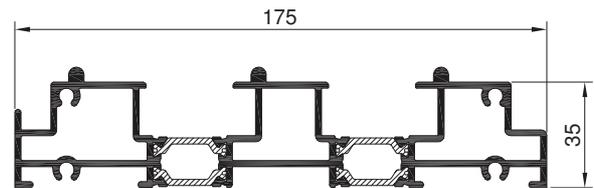
C-13154
 MARCO LATERAL



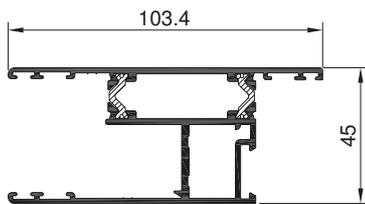
C-13156
 MARCO SUPERIOR 3 CARRILES



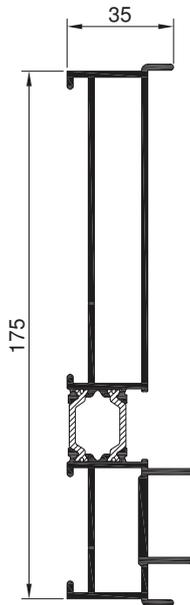
C-13153
 MARCO INFERIOR



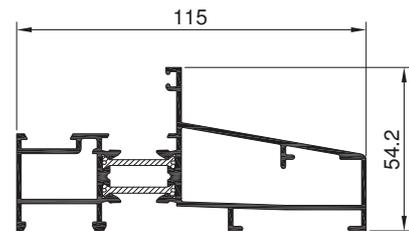
C-13157
 MARCO INFERIOR 3 CARRILES



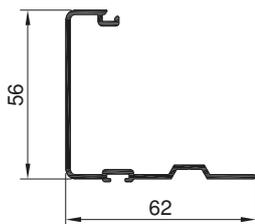
C-13159
 HOJA PERIMETRAL



C-13158
 MARCO LATERAL
 3 CARRILES



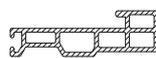
C-13155
 MARCO FIJO



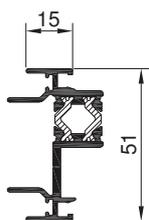
E-13090
 CRUCE HOJA
 CENTRAL



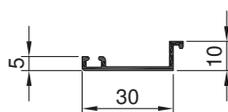
UE-29
 VASO INFERIOR
 ASIMÉTRICO



UC-29
 SUPLEMENTO
 HOJA CENTRAL

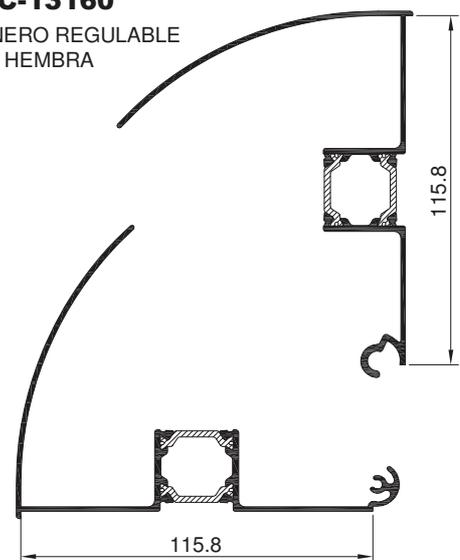


C-13162
 CRUCE 4 HOJAS



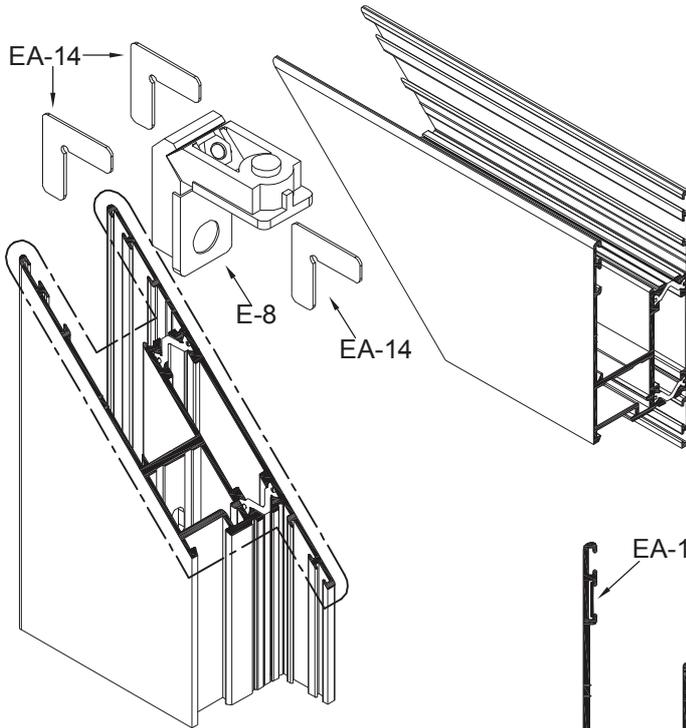
M-3919
 SOLAPE 30 MM.

C-13160
 ESQUINERO REGULABLE
 HEMBRA

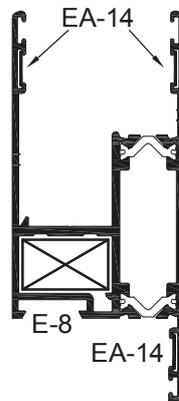


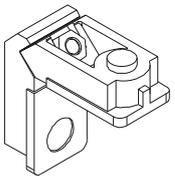
C-13161
 ESQUINERO REGULABLE
 MACHO

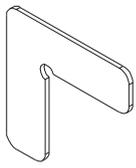
Unión en escuadra hoja

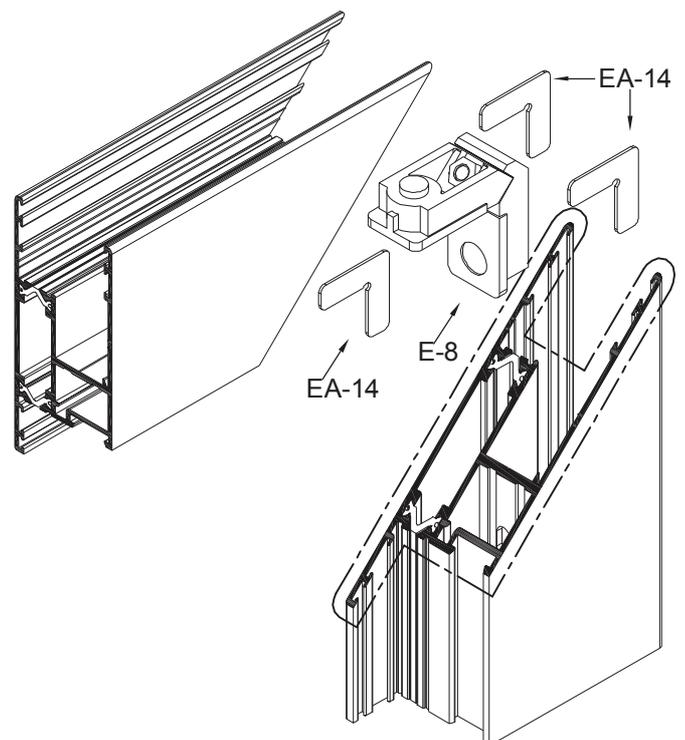
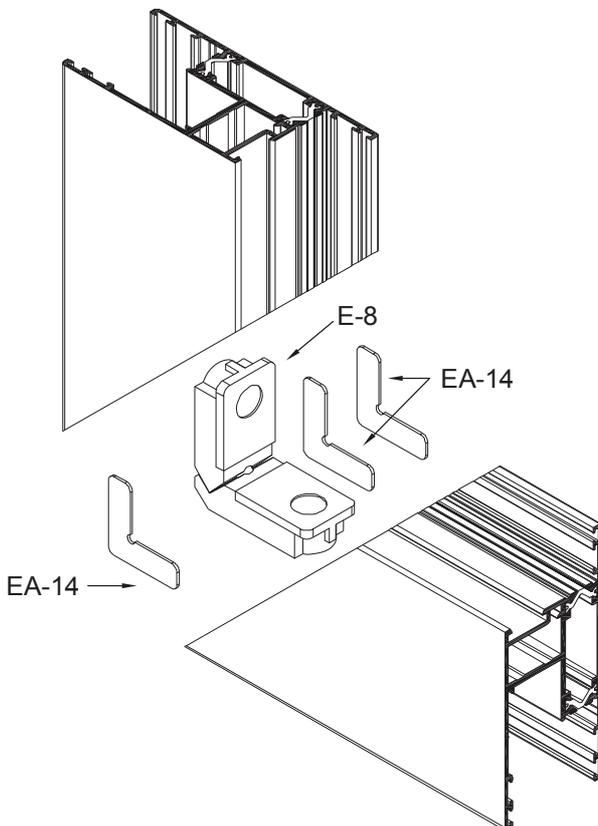


----- La superficie de corte de los ingletes deberá de ser cubierta con sellante antes de unir la esquina.



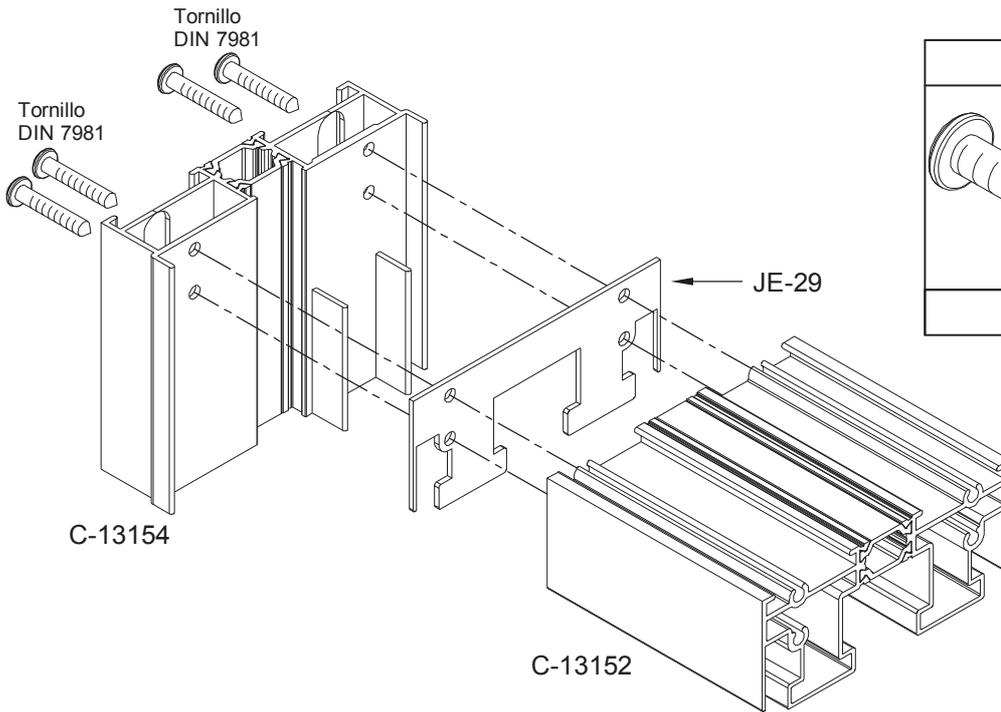
Escuadras Ingletar	
	E-8
Proveedor: HAES	

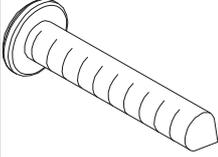
Escuadras Alineación	
	EA-14
Proveedor escuadras: HAES	

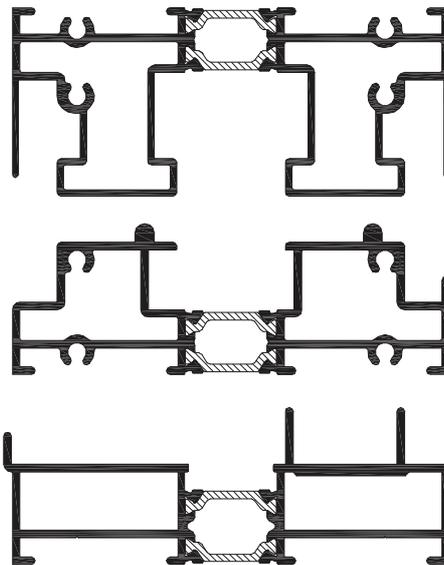


Unión en escuadra marco dispealvema

PERFILES DE ALUMINIO
Distribuidor Oficial **sapa**



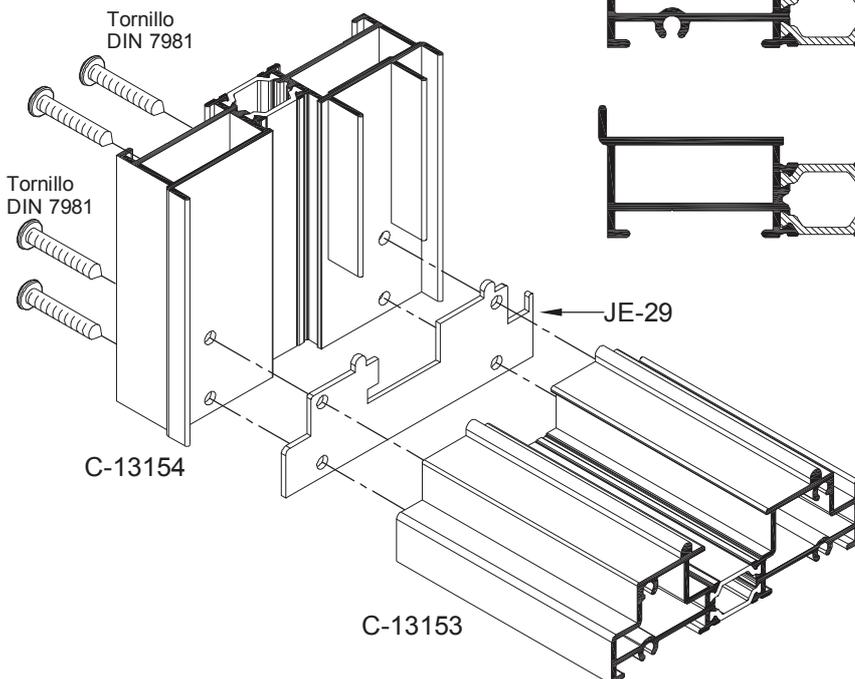
Tornillos	
	DIN 7981
	5.5x25 mm.
Proveedor: HAES	



Marco superior C-13152

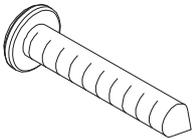
Marco inferior C-13153

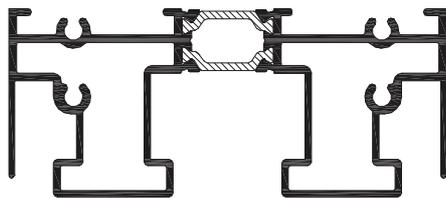
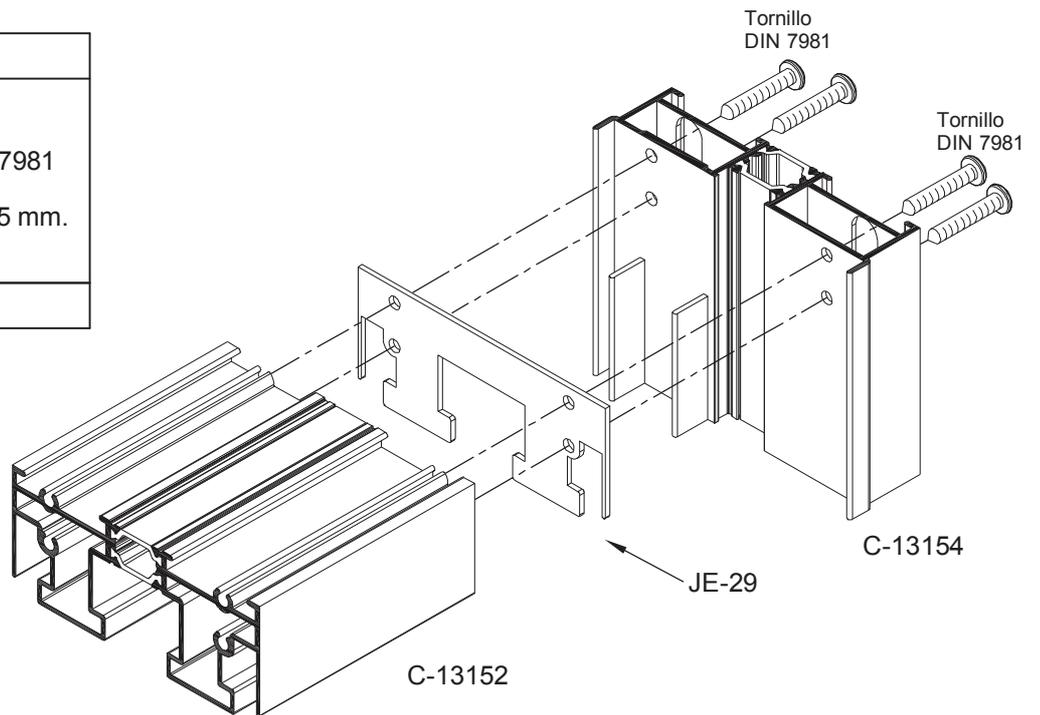
Marco lateral C-13154



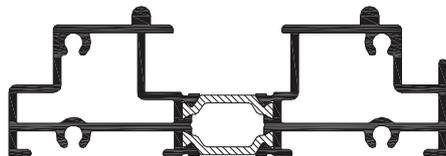
Unión en escuadra marco **D**dispealvema

PERFILES DE ALUMINIO
Distribuidor Oficial **sapa**

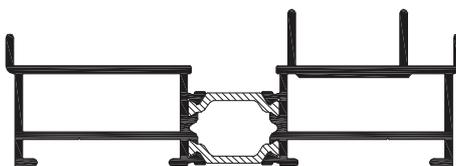
Tornillos	
	DIN 7981 5.5x25 mm.
Proveedor: HAES	



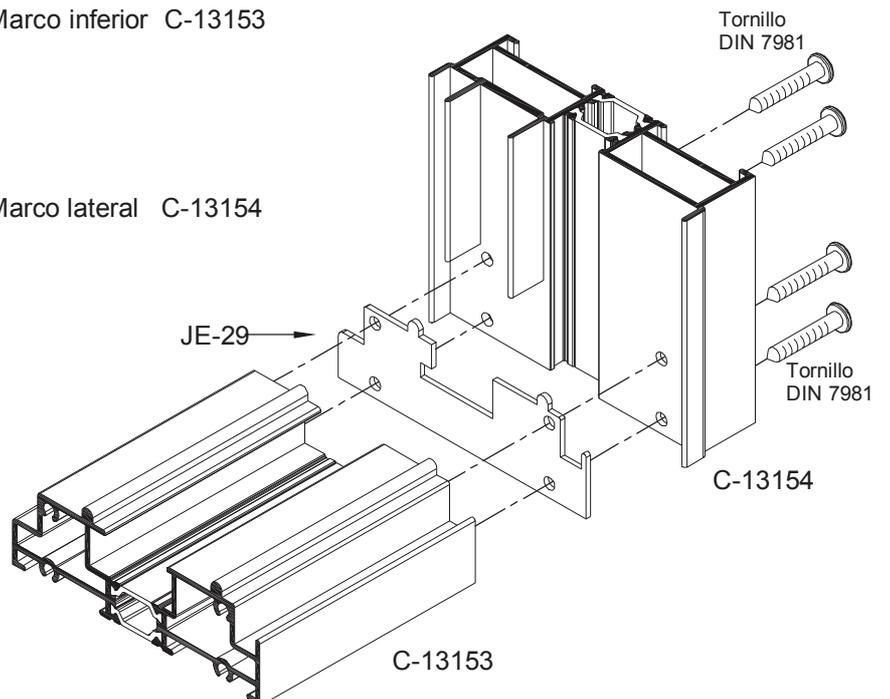
Marco superior C-13152



Marco inferior C-13153



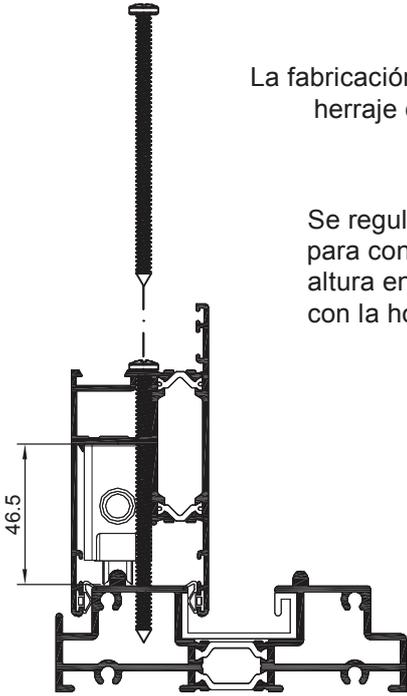
Marco lateral C-13154



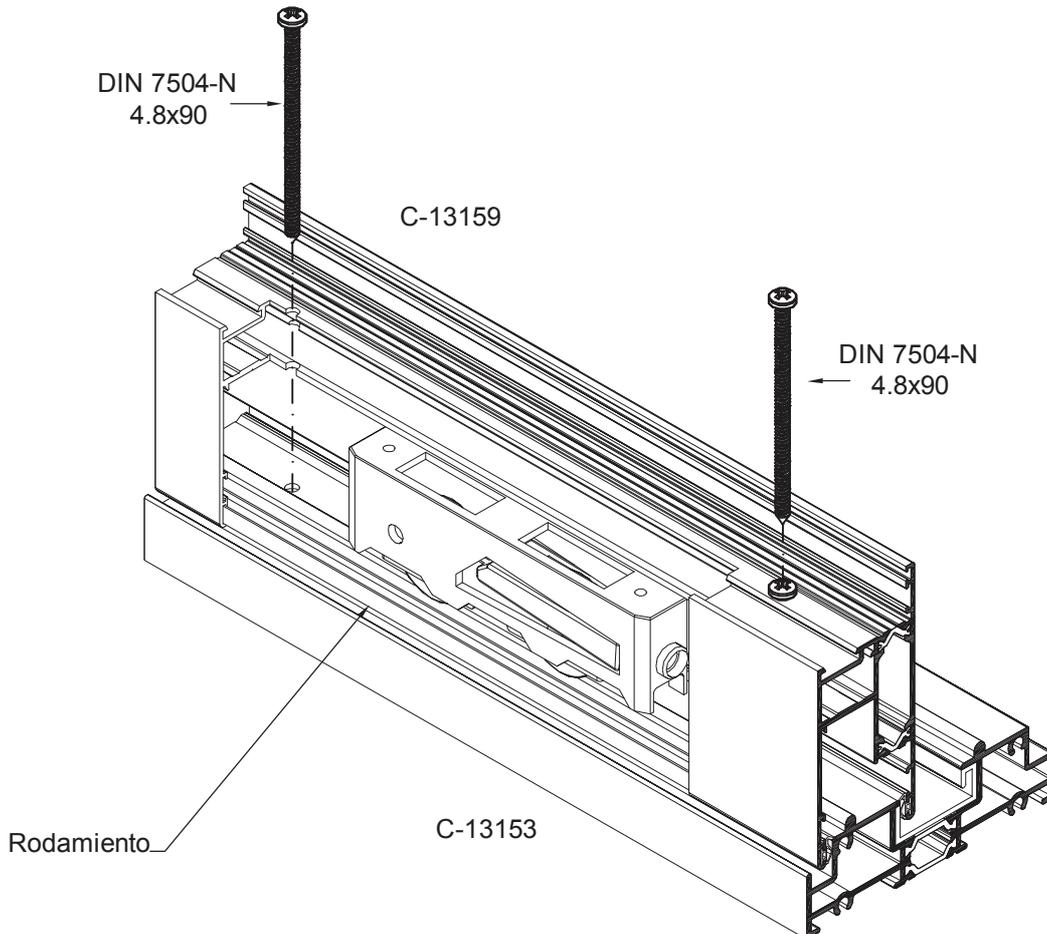
HOJA DE RUEDAS

La fabricación de la hoja fija es idéntica a la hoja elevable, a excepción del herraje que no lo lleva. Sólomente se le colocarán rodamientos.

Se regularán las ruedas para conseguir que la altura en reposo coincida con la hoja elevable.



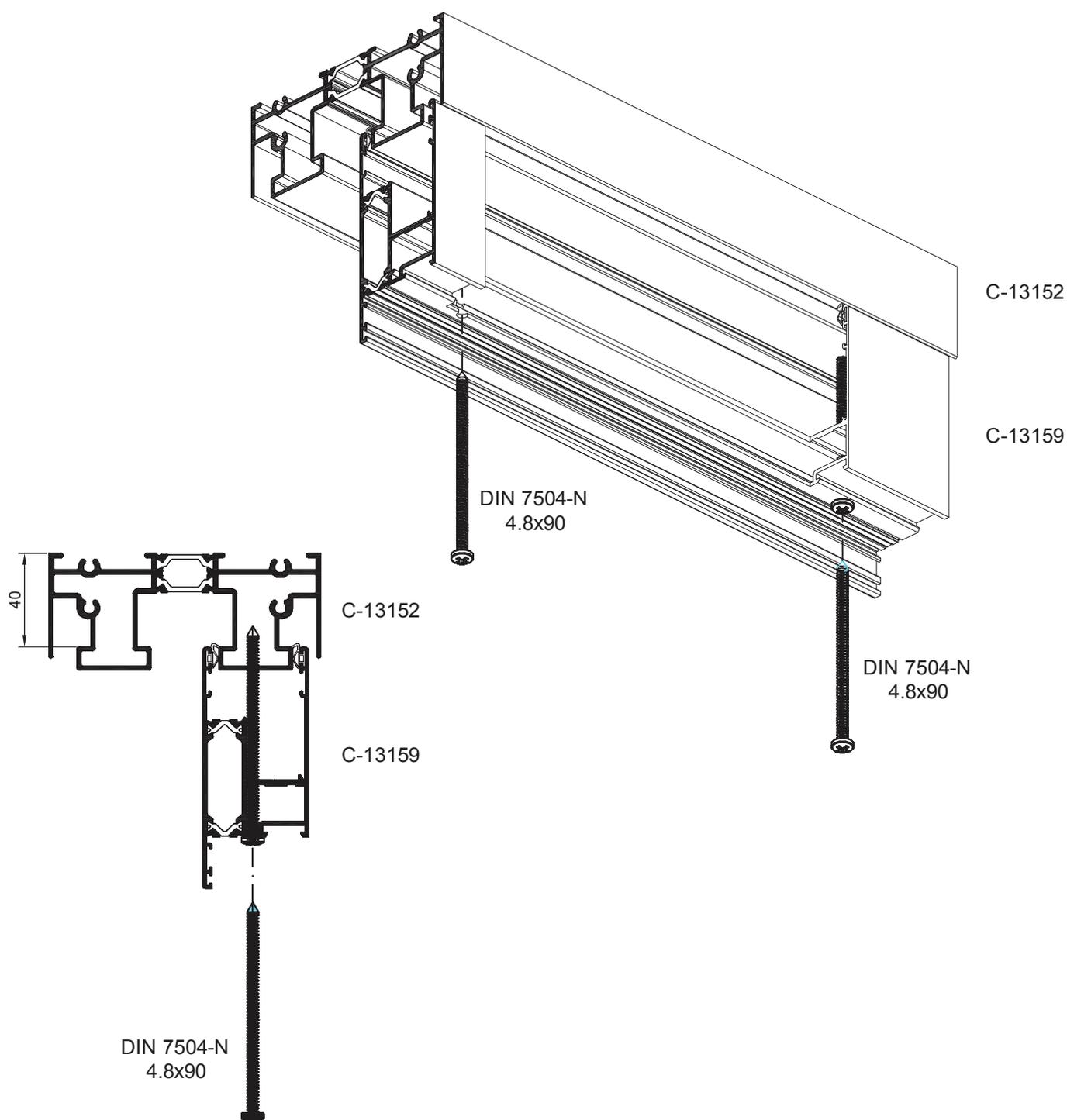
El primer tornillo separarlo lo suficiente del inglete para que no coincida con la escuadra de hoja. El calzo para el vidrio se situará encima del rodamiento.



* Es recomendable llevar el marco ya taladrado de taller o en su defecto llevar la hoja ya montada dentro del marco.

HOJA SUPERIOR

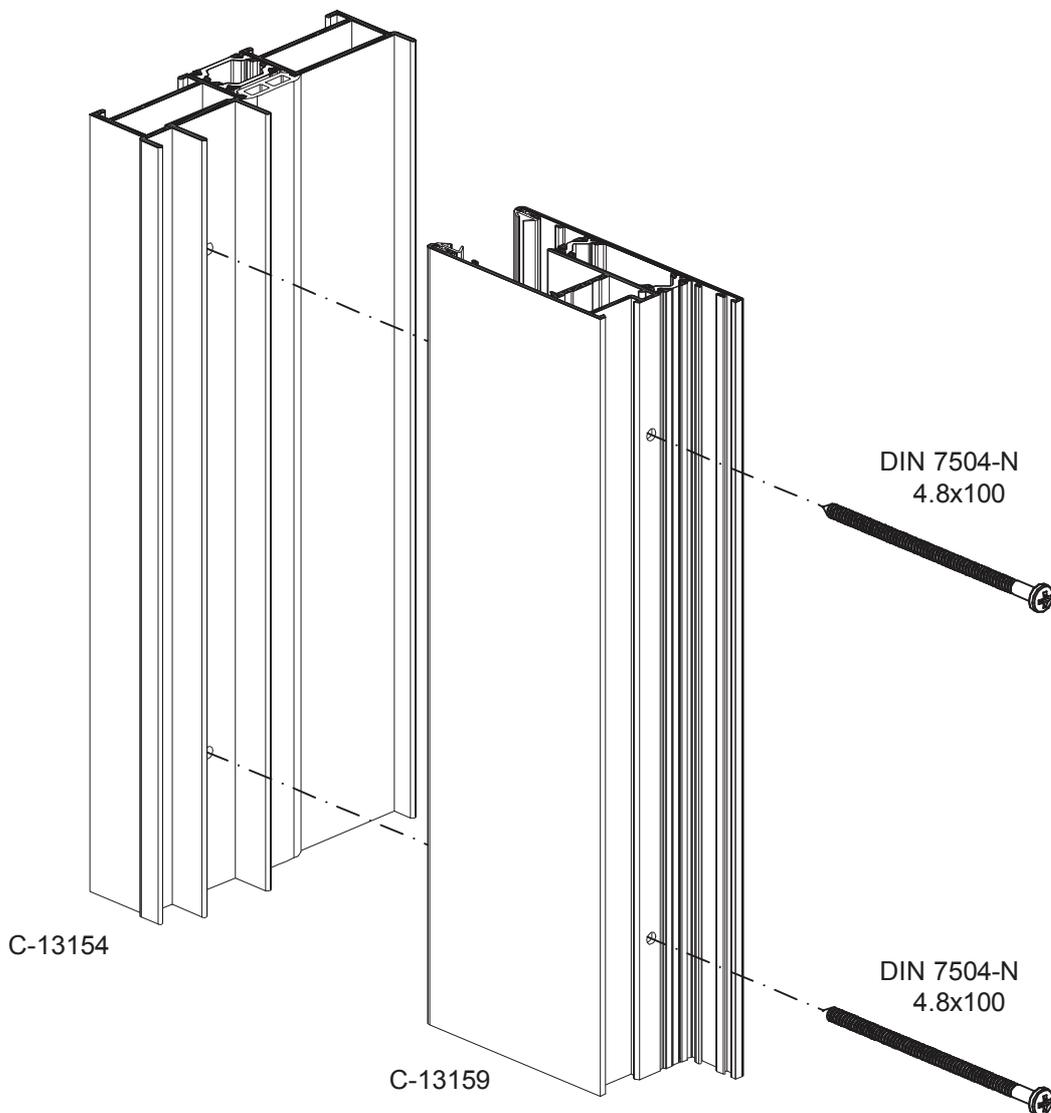
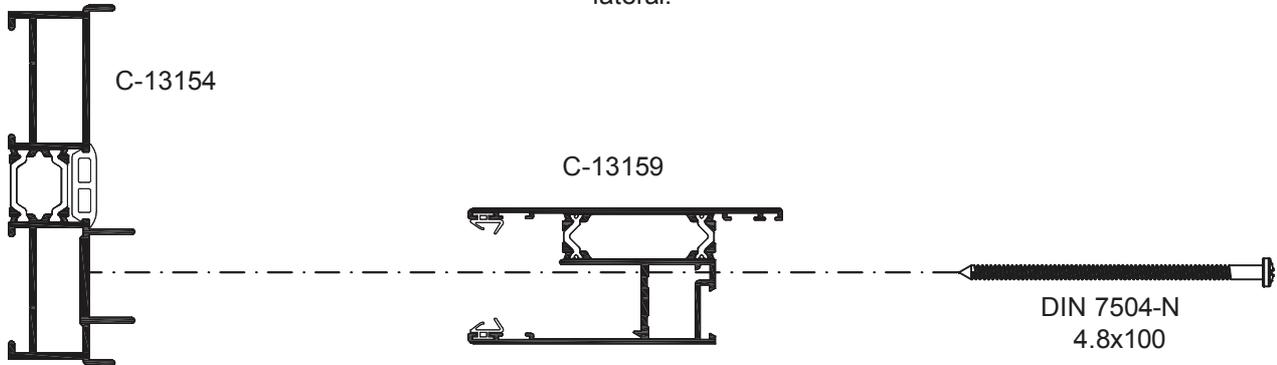
En la hoja superior se colocarán los mismos tornillos que en la hoja de ruedas, pero repartidos en su longitud.



* Es recomendable llevar el marco ya taladrado de taller o en su defecto llevar la hoja ya montada dentro del marco.

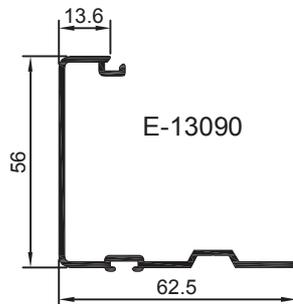
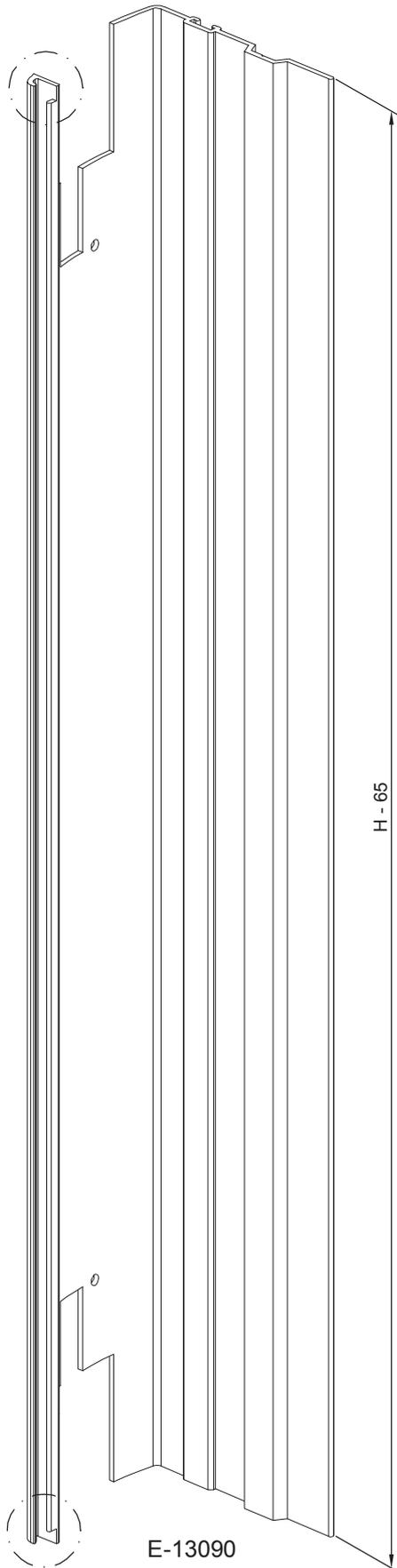
HOJA LATERAL

La hoja lateral se fijará con un mínimo de dos tornillos para asegurar la estanqueidad y su correcto alineamiento y ajuste con el marco lateral.

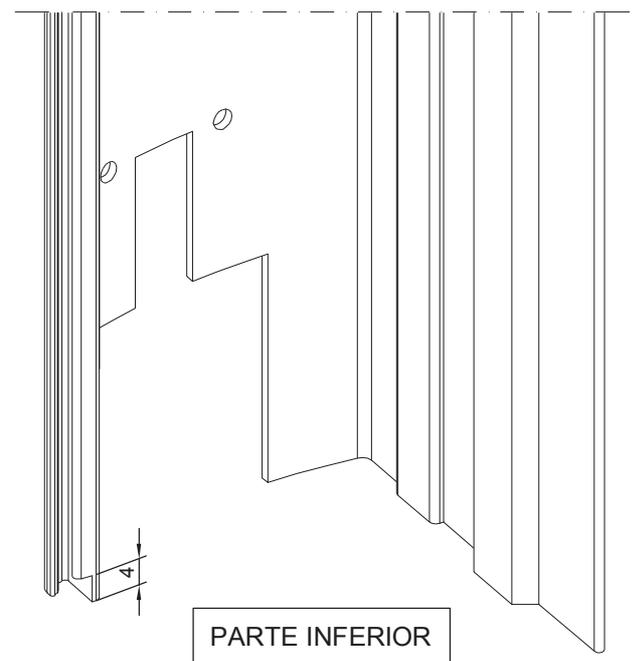
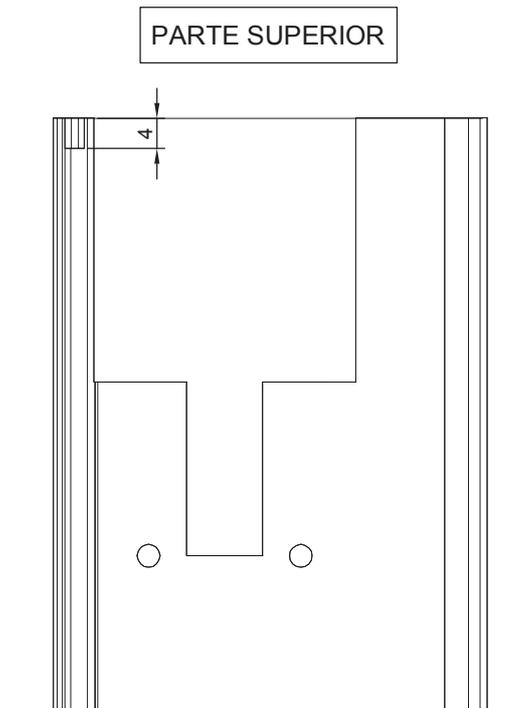


* Es recomendable llevar el marco ya taladrado de taller o en su defecto llevar la hoja ya montada dentro del marco.

Rebaje Cruce Hojas

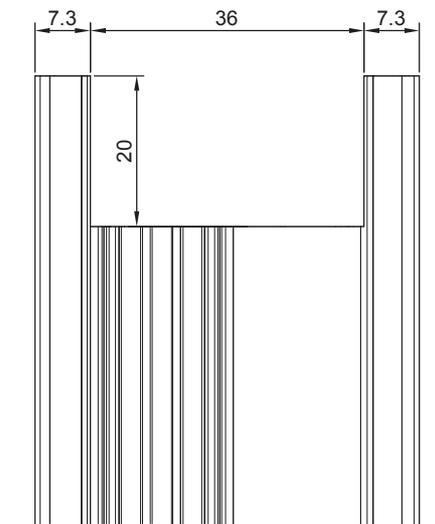
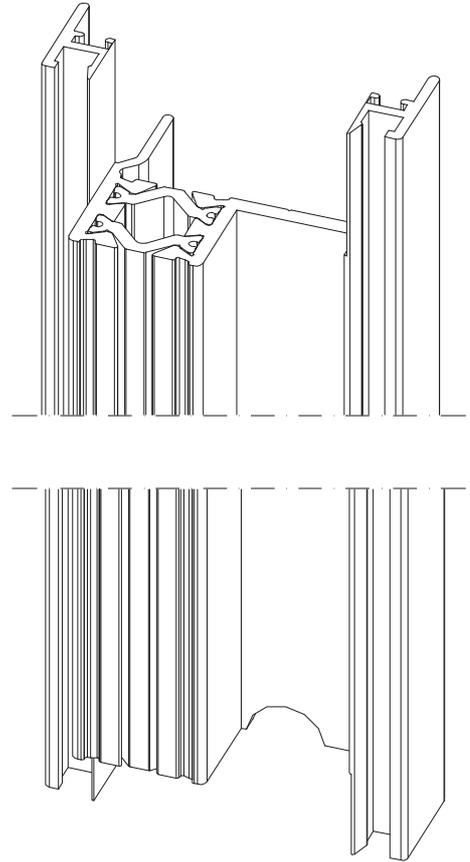
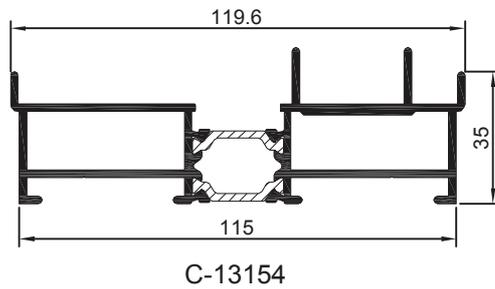
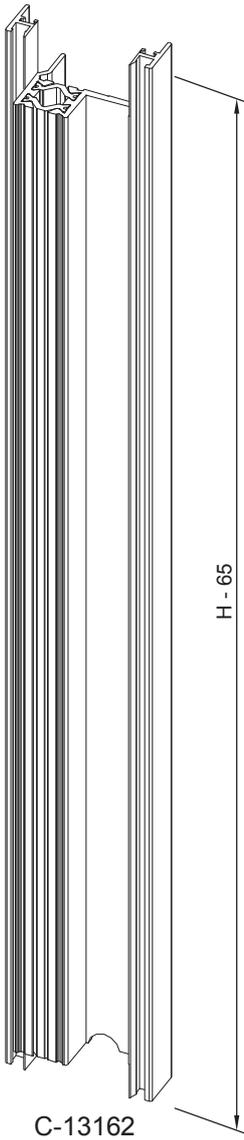


Hay que realizar un rebaje de 4 mm. en el ala del cruce hojas como se indica en el dibujo, tanto en su parte superior como inferior para su perfecto acoplamiento con la hoja y evitar así su deformación en el inglete.

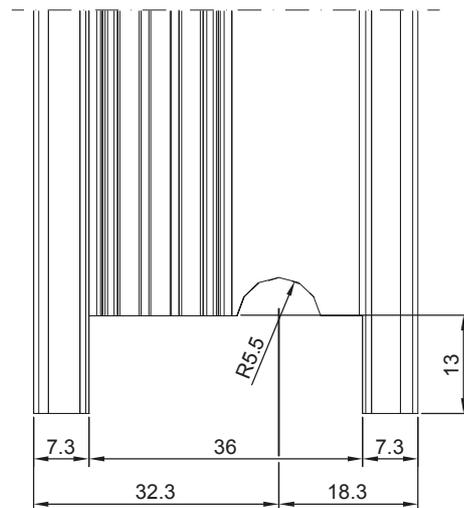


Retestado Perfil 4 Hojas

El perfil de encuentro para 4 hojas requiere de un mecanizado en su parte superior y otro en su inferior para su deslizamiento correcto por los marcos.

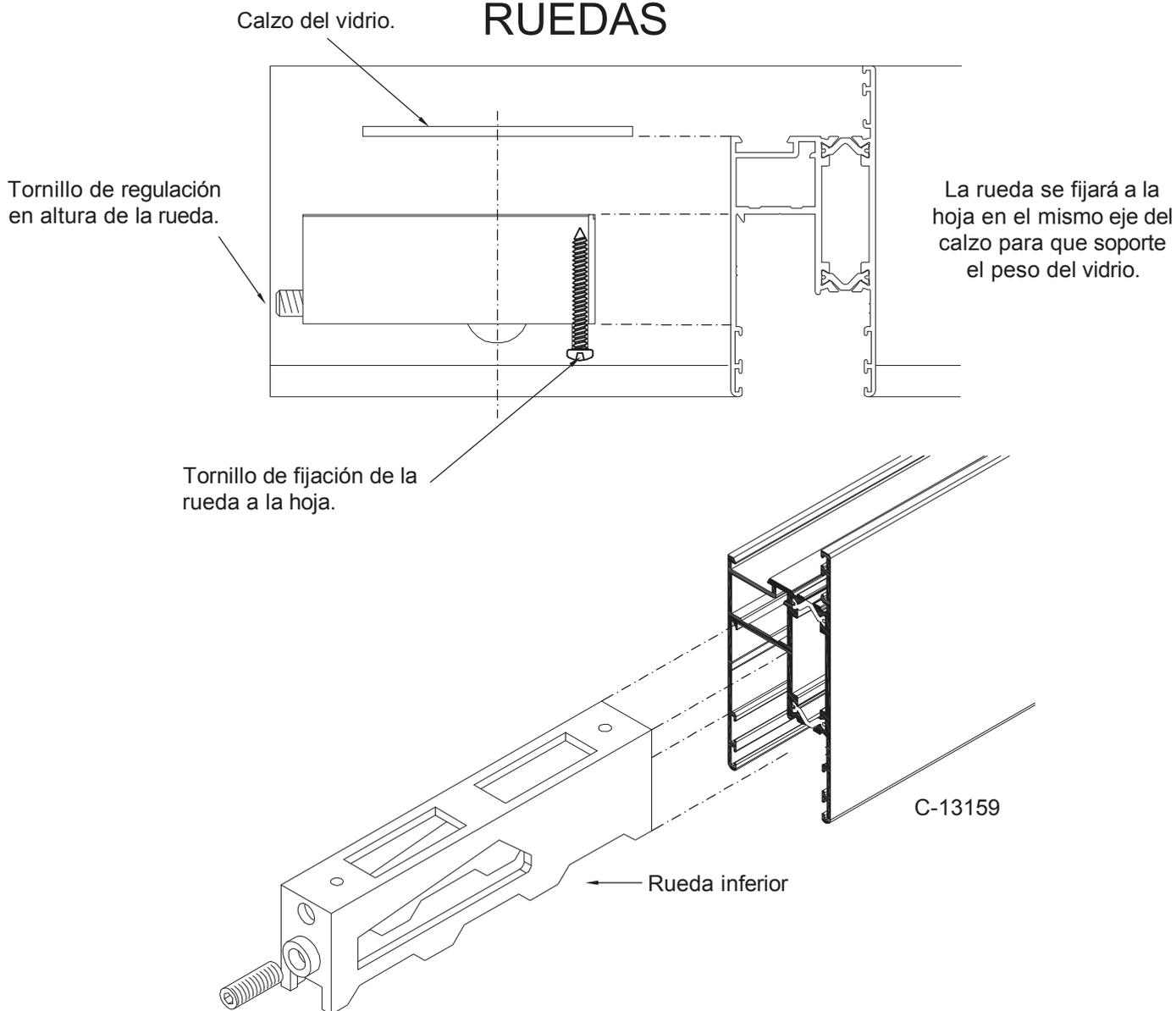


PARTE SUPERIOR



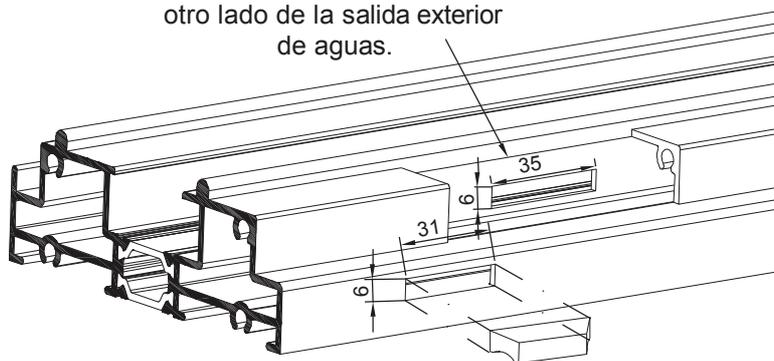
PARTE INFERIOR

RUEDAS

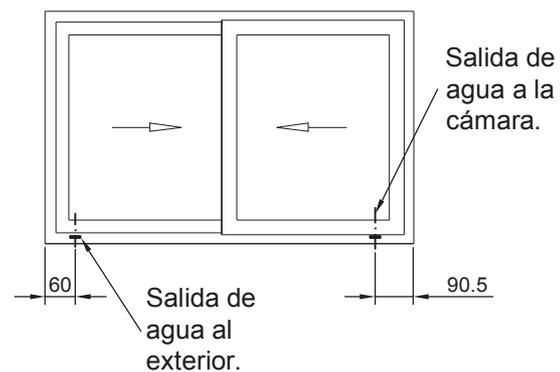


DEFLECTORES

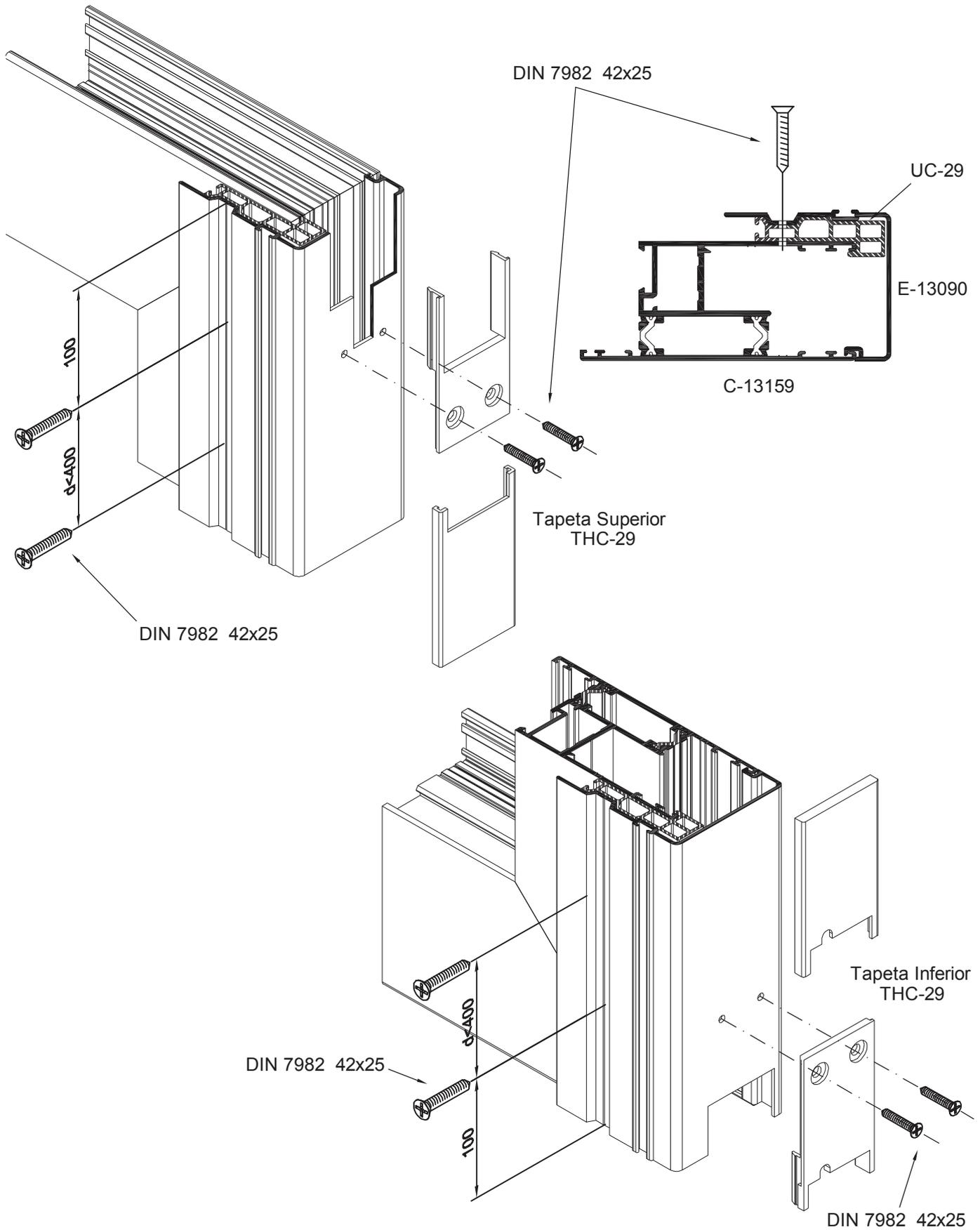
Este desagüe se hará al otro lado de la salida exterior de aguas.

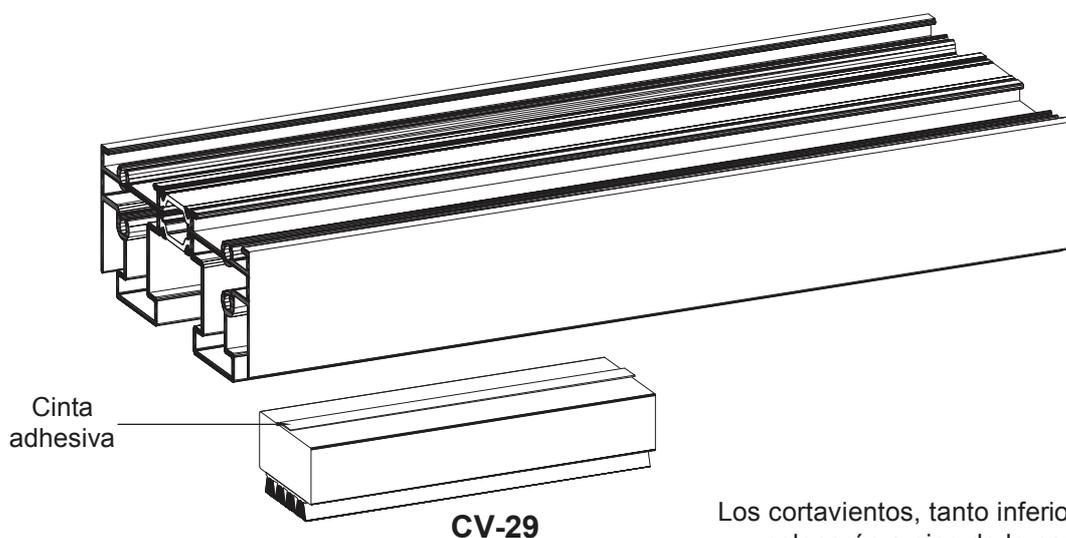


El mecanizado y colocación de las tapas de salida de agua (deflectores) se hará como se indica en el alzado de abajo.

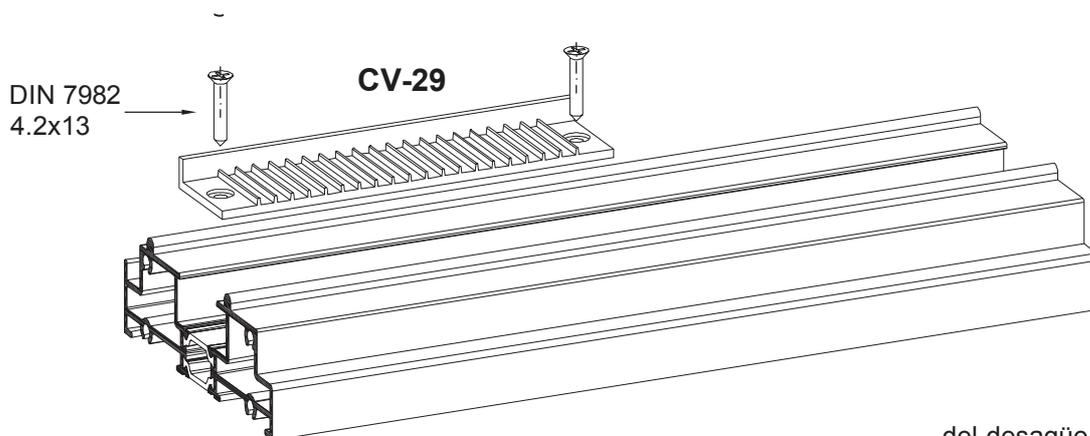


Tapa hoja central

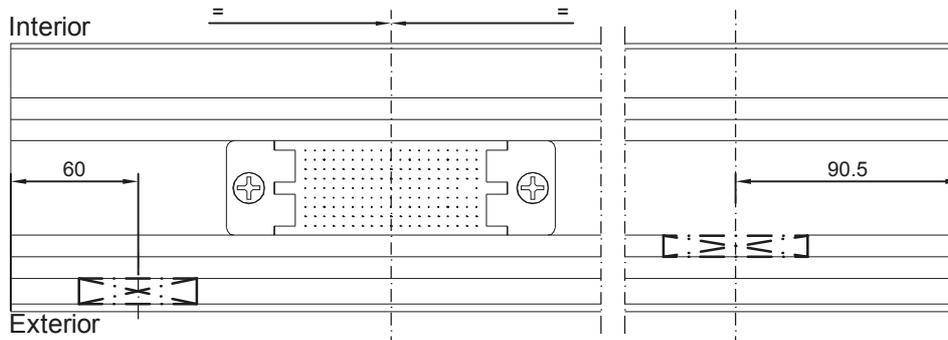




Los cortavientos, tanto inferior como superior se colocarán a ejes de la carpintería y como se indica en las figuras.



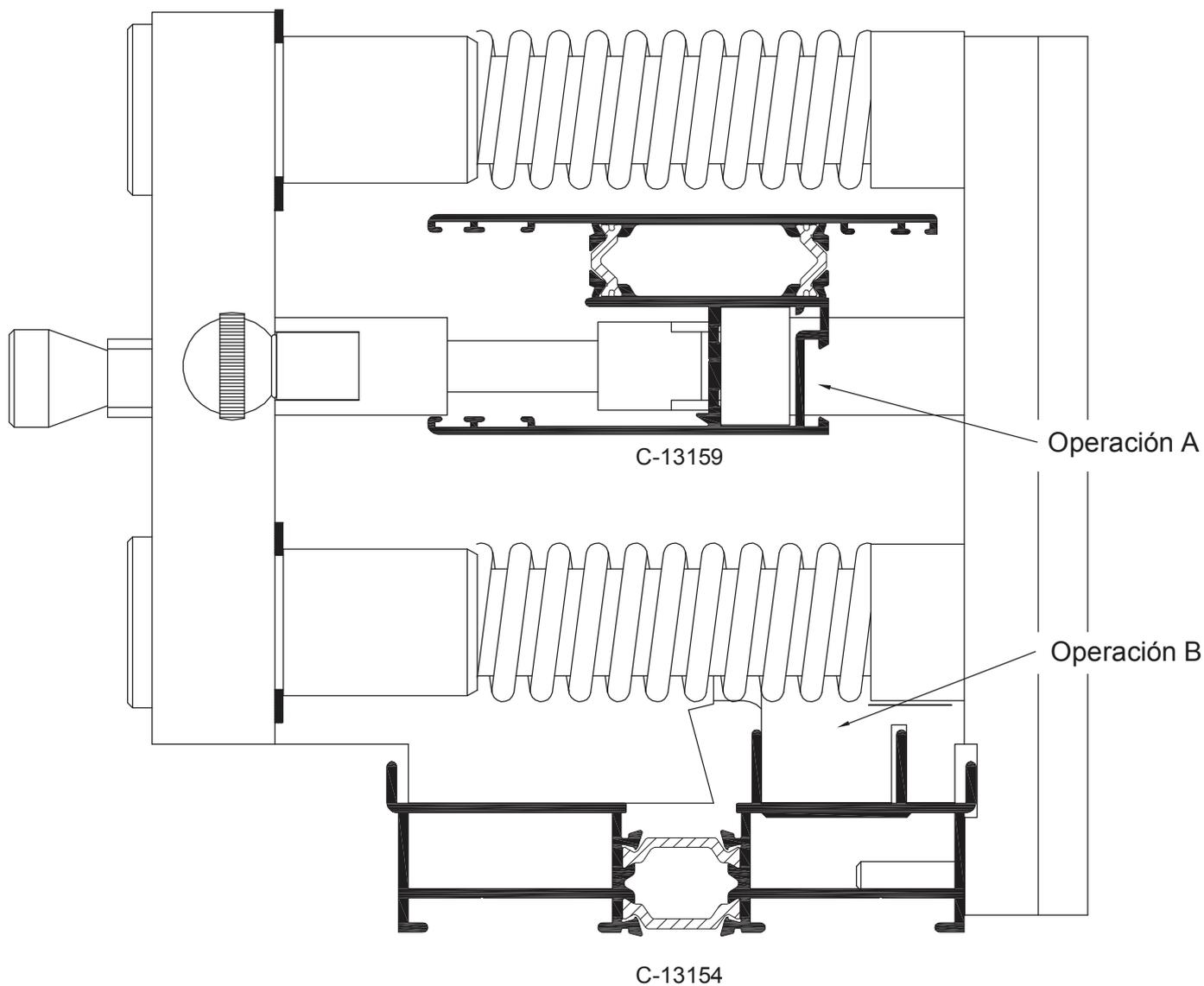
El mecanizado del desagüe a cámara deberá de hacerse pegado al carril exterior con una fresa de $\varnothing 6$ y un recorrido de 35 mm.



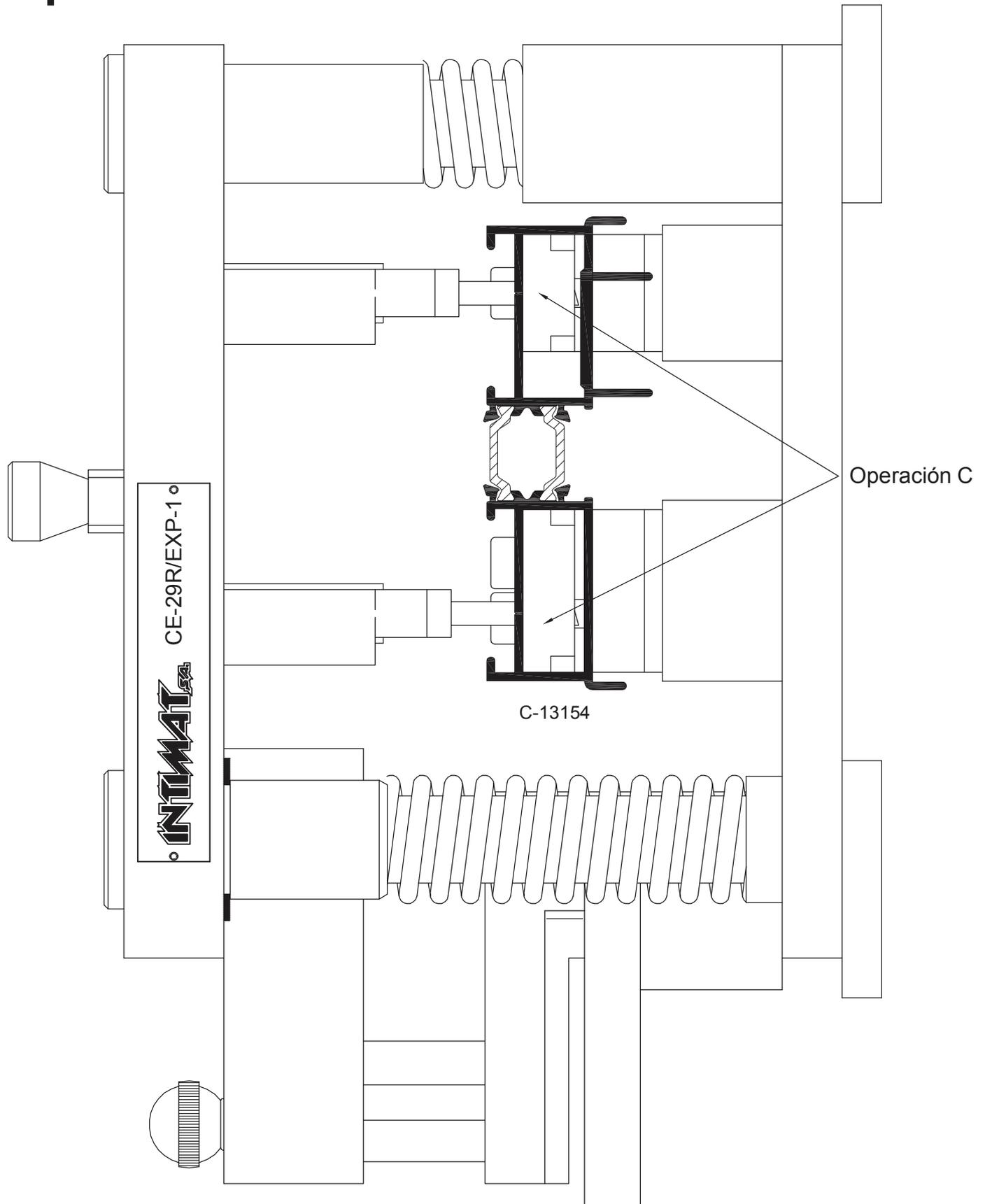
Nota: Antes de colocar el cortavientos inferior, hay que echar silicona en la canal del marco para hacer estanca la unión entre el marco y el cortavientos por todos sus lados de contacto.

Útil de Mecanizado

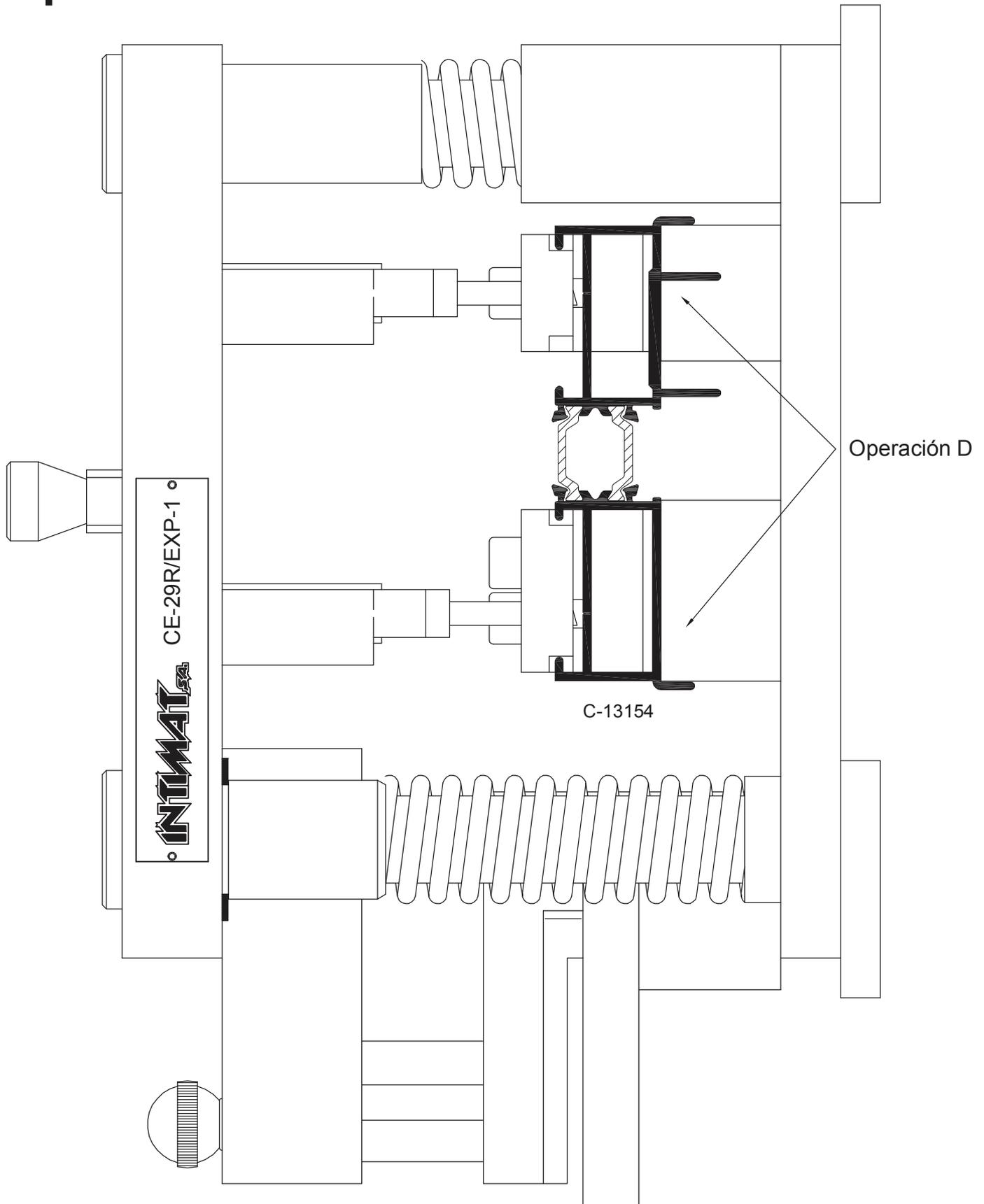
Operaciones EXP-1



Operaciones EXP-1



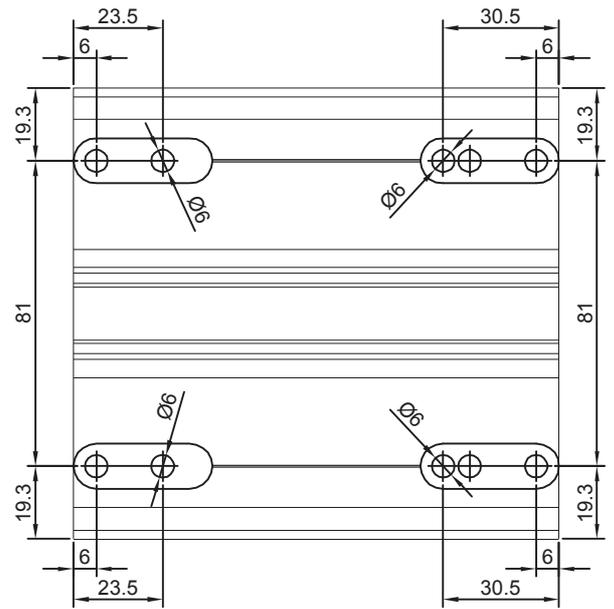
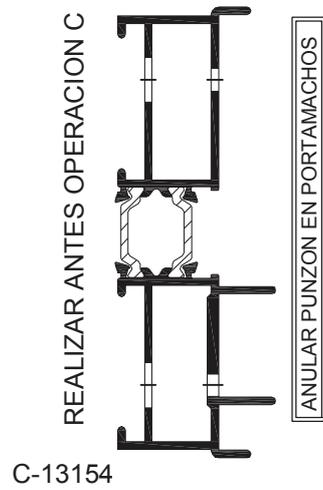
Operaciones EXP-1



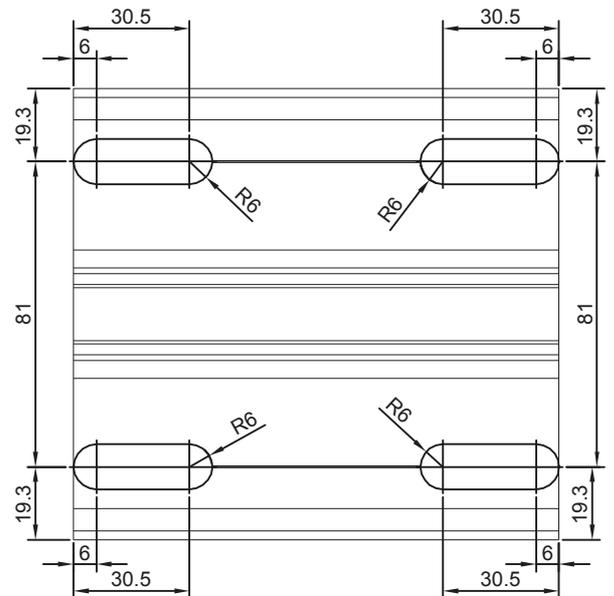
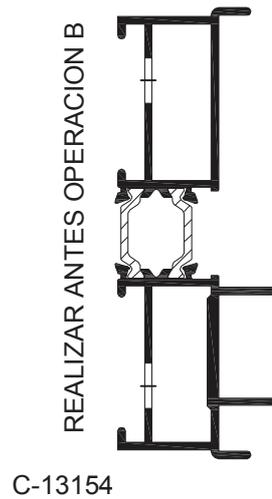
Útil de Mecanizado

Operaciones EXP-1

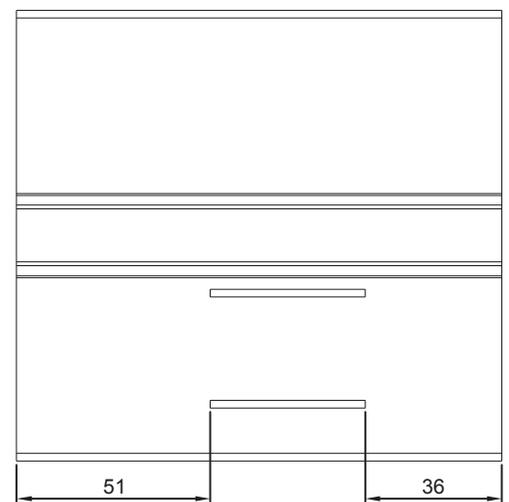
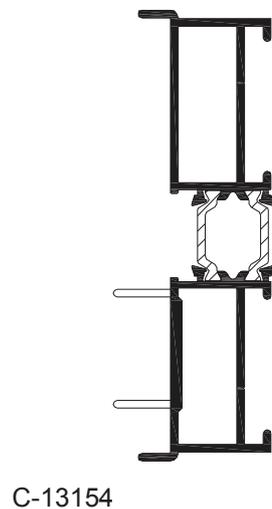
OPERACION D



OPERACION C



OPERACION B

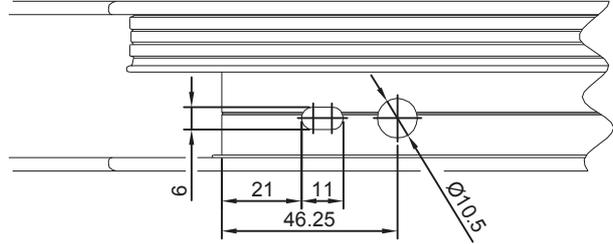
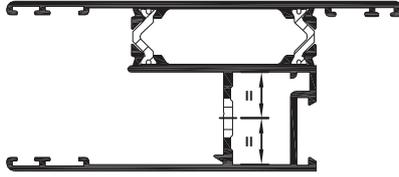


Útil de Mecanizado

Operaciones EXP-1

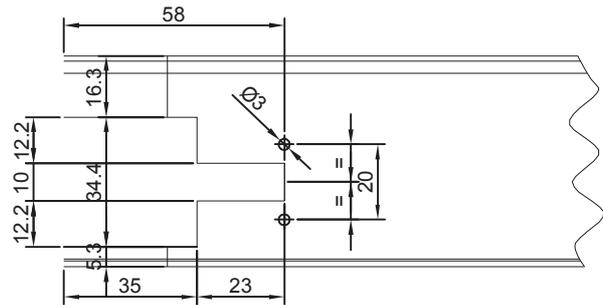
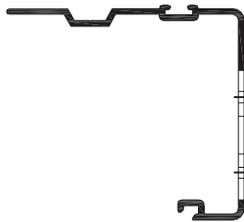
OPERACION A

C-13159



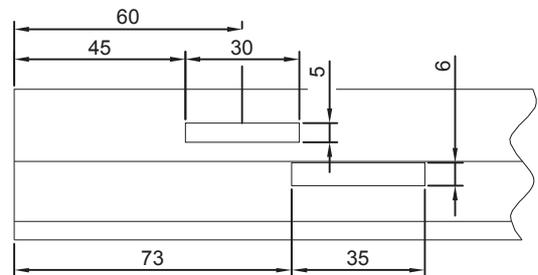
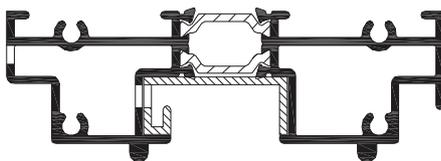
OPERACION B

C-13090



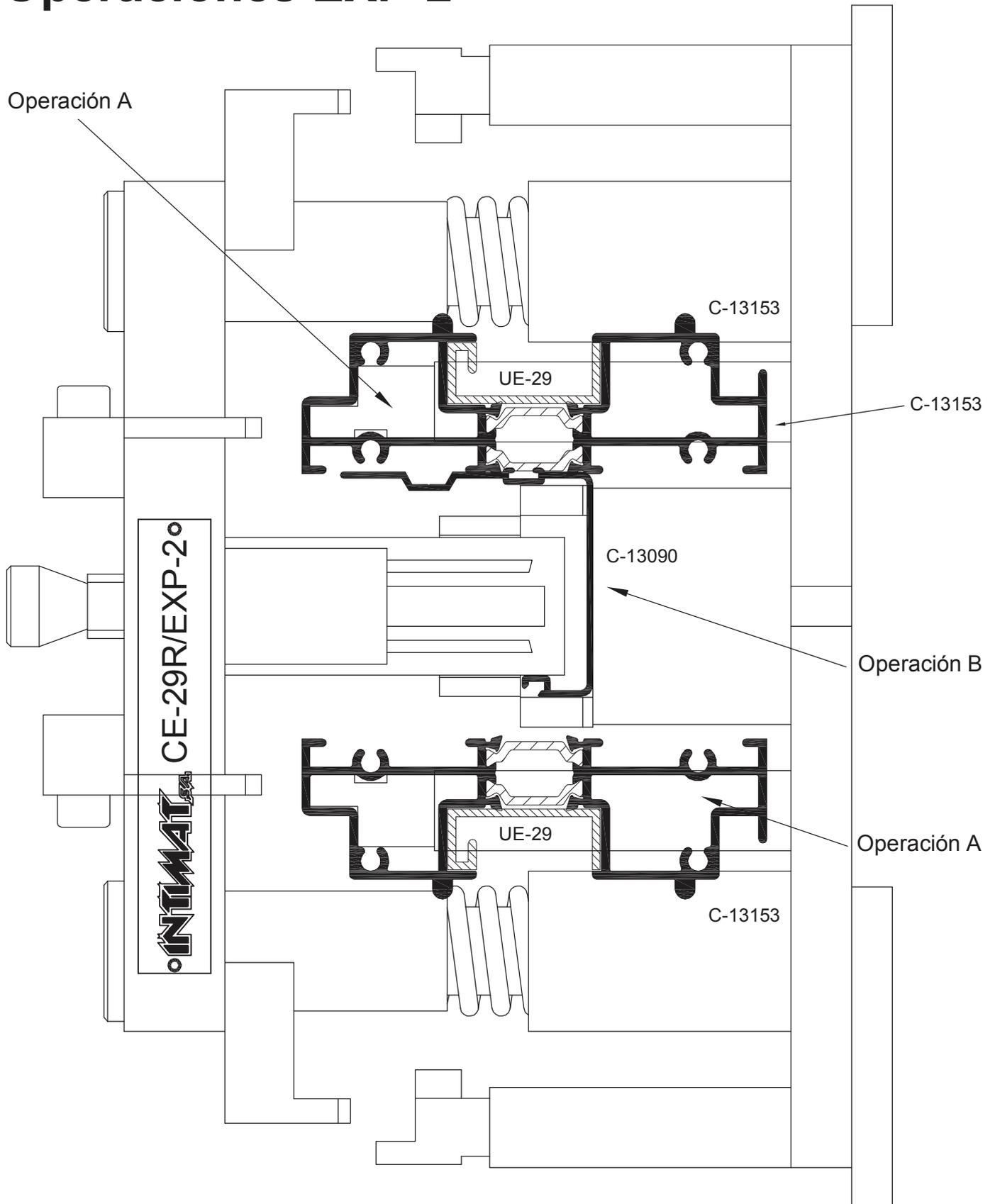
OPERACION A
 OPERACION C

C-13153

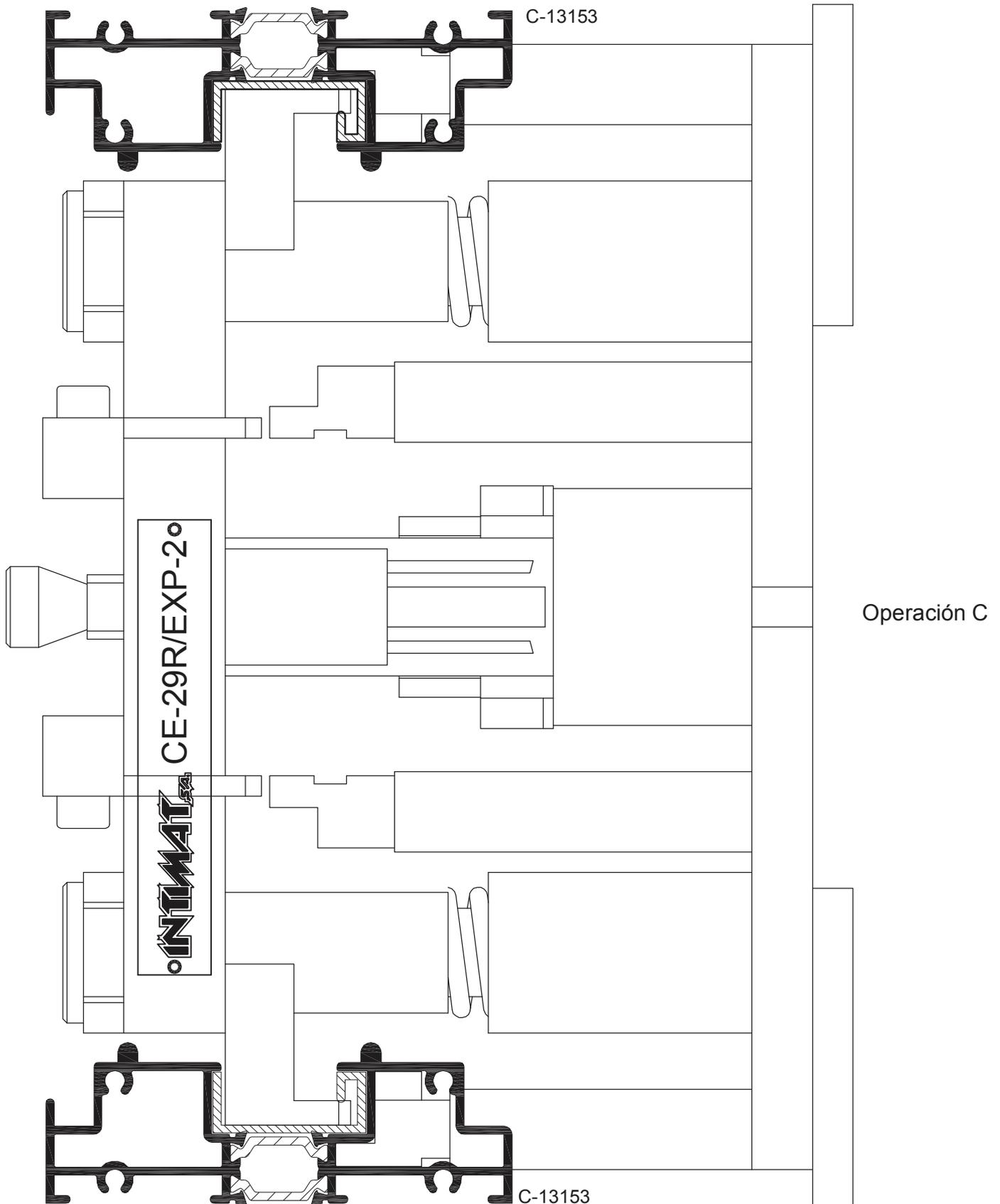


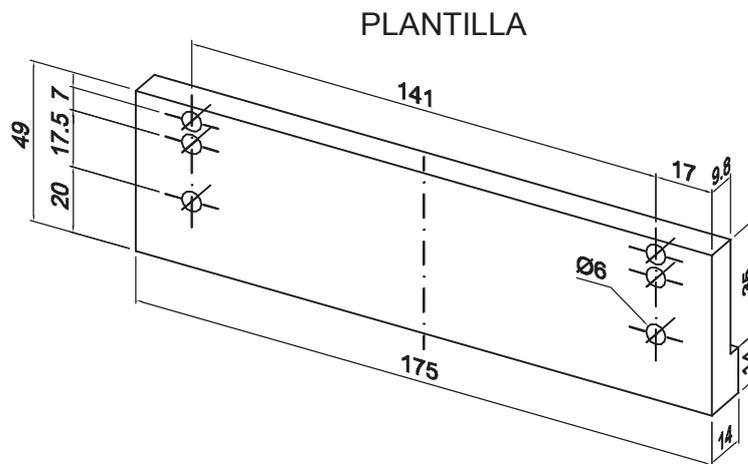
Útil de Mecanizado

Operaciones EXP-2

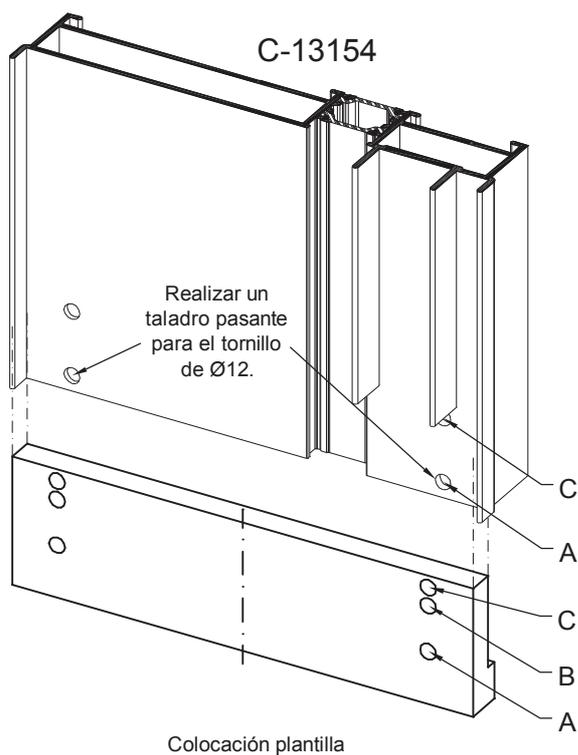


Operaciones EXP-2

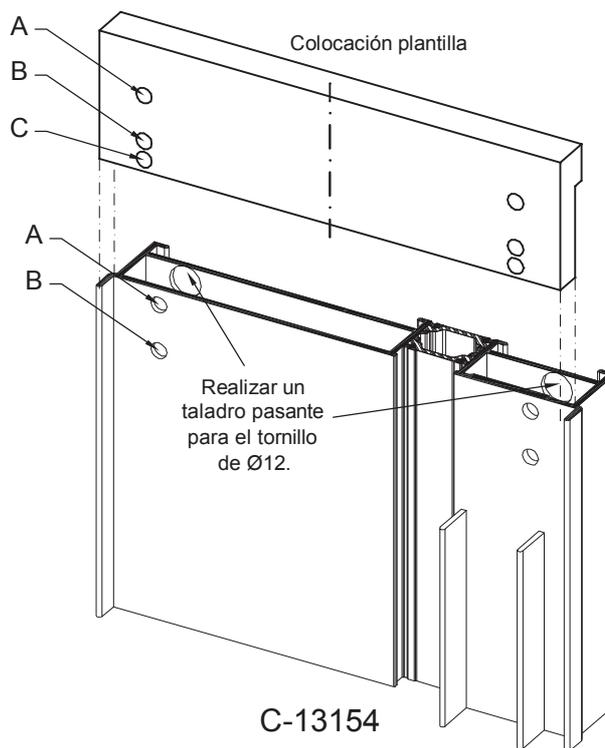




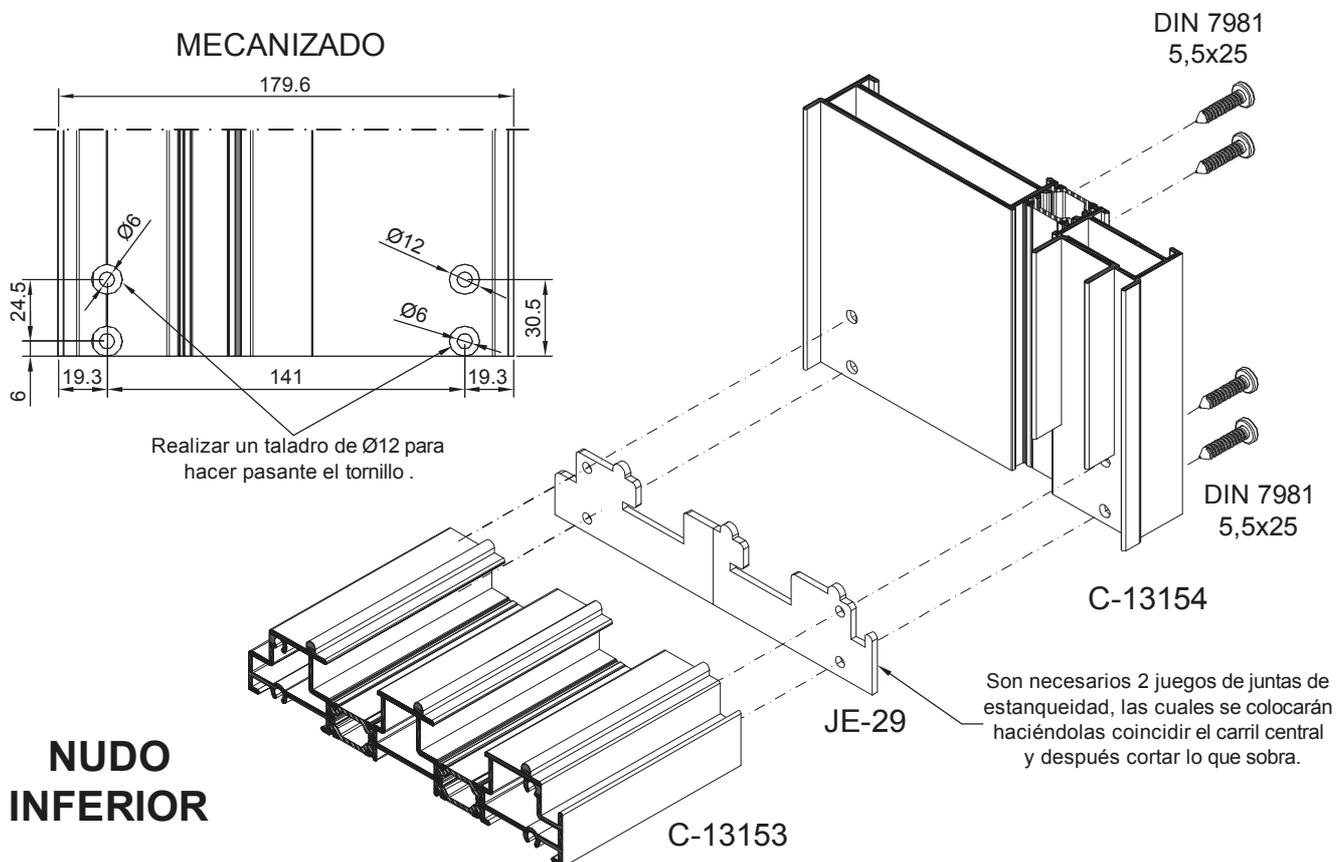
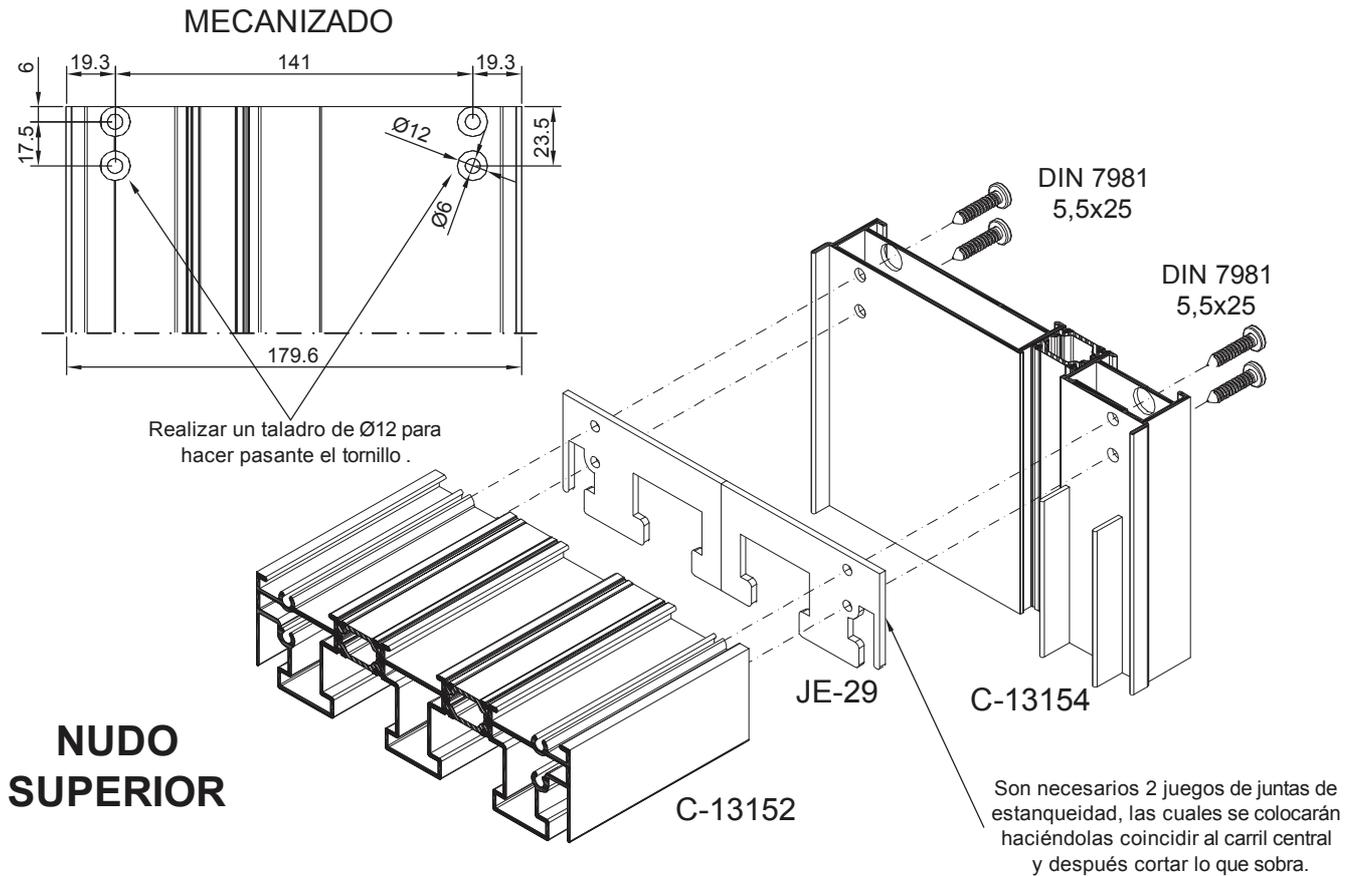
MARCO INFERIOR

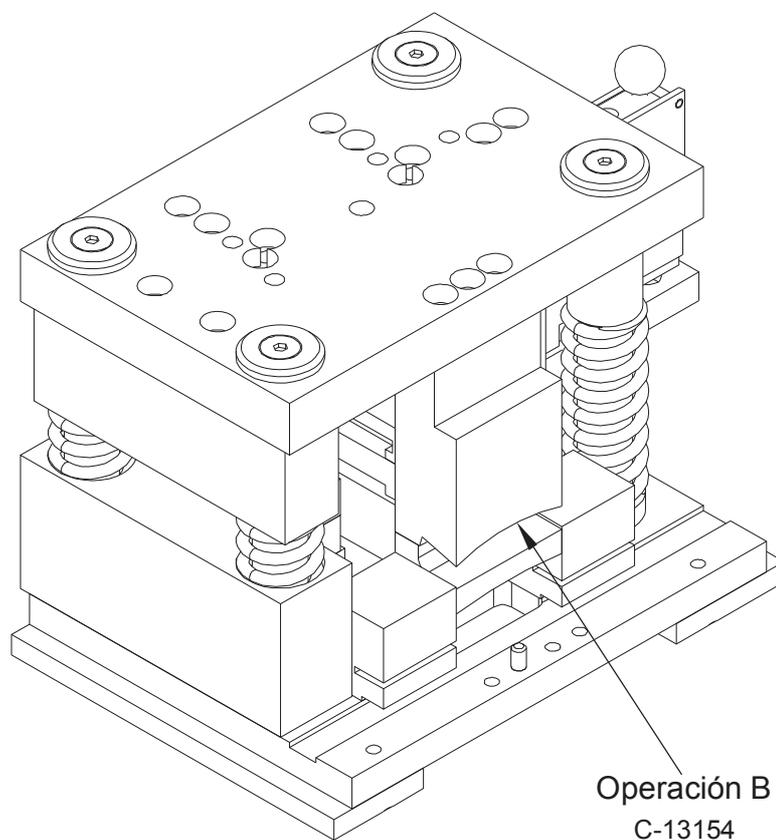
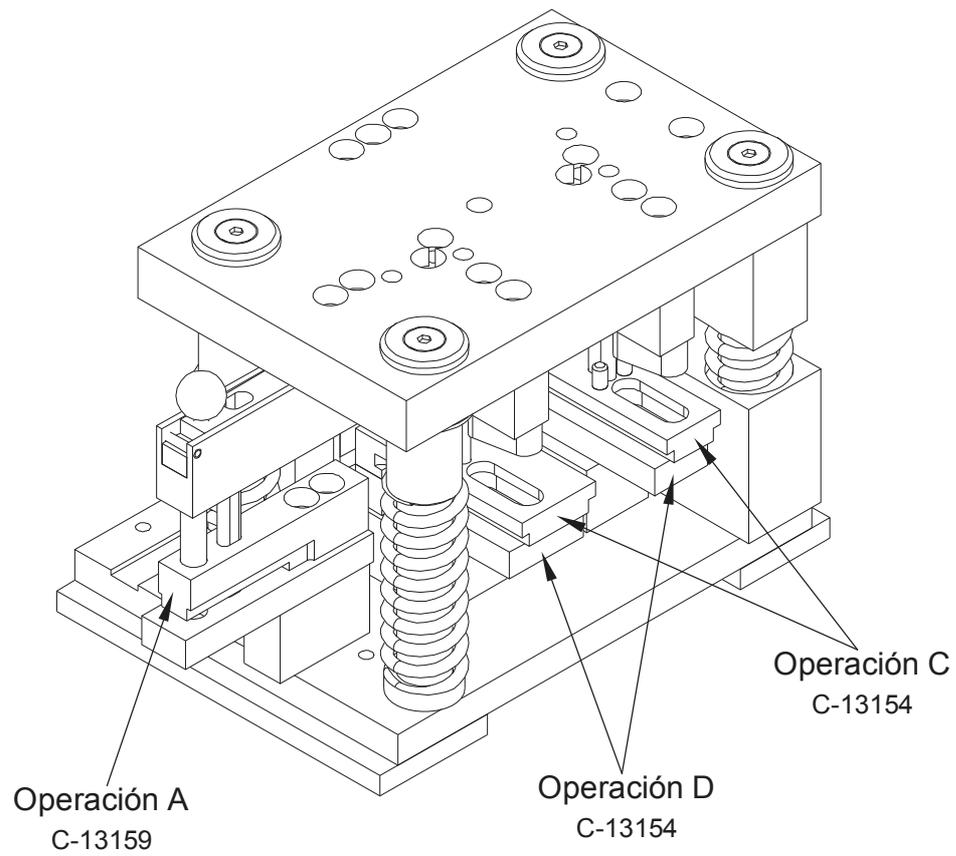


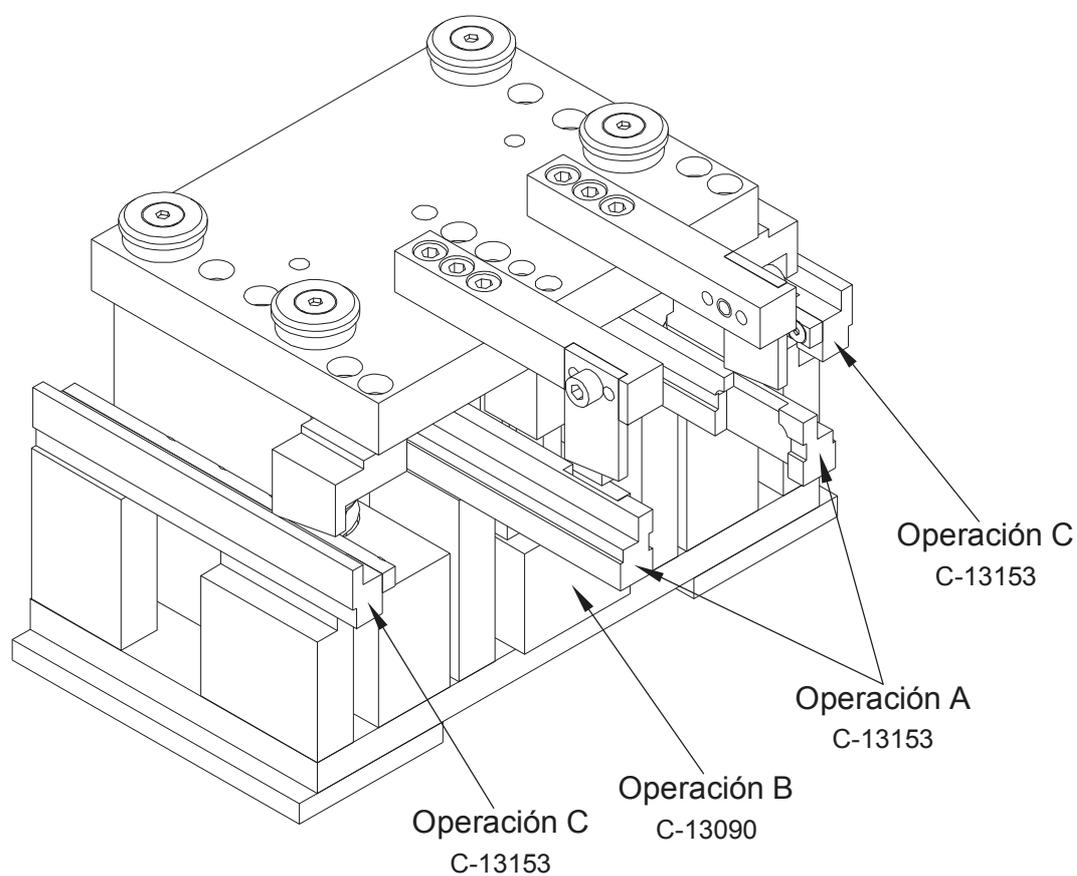
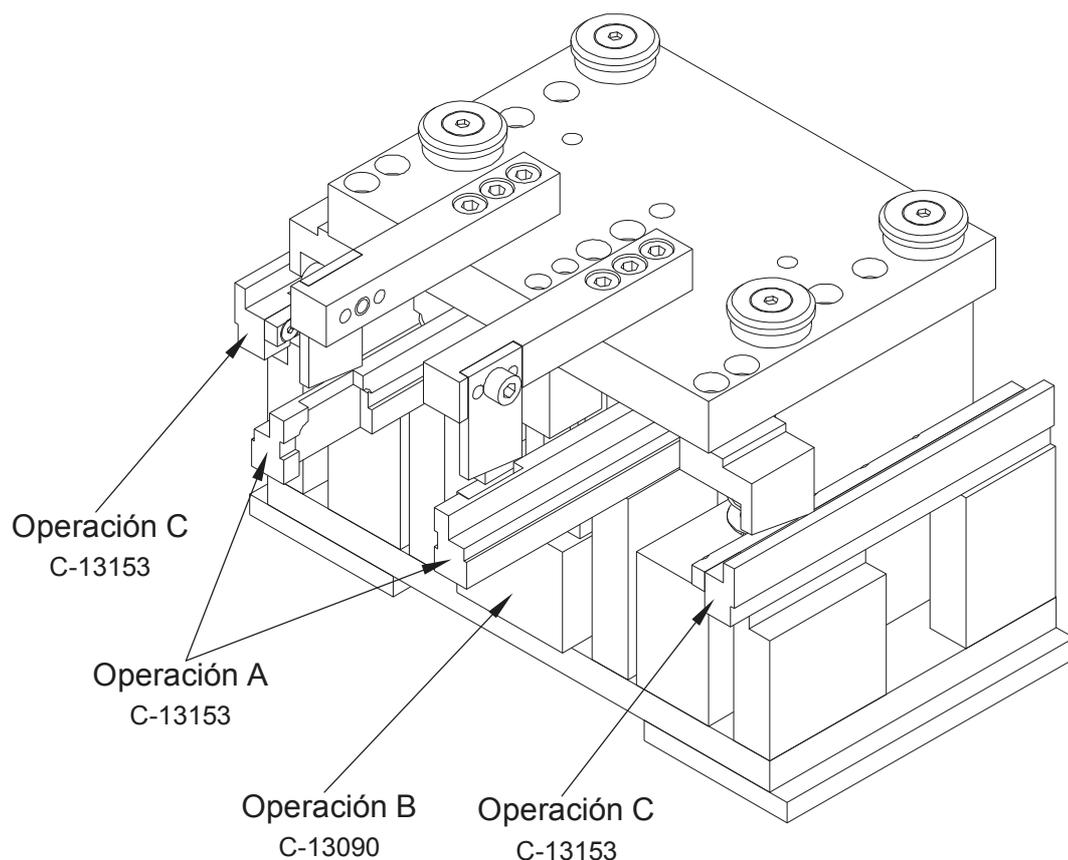
MARCO SUPERIOR



Unión Marcos 3 Carriles

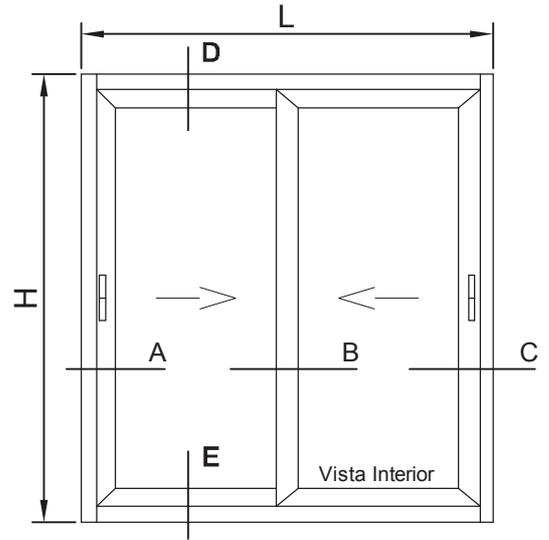
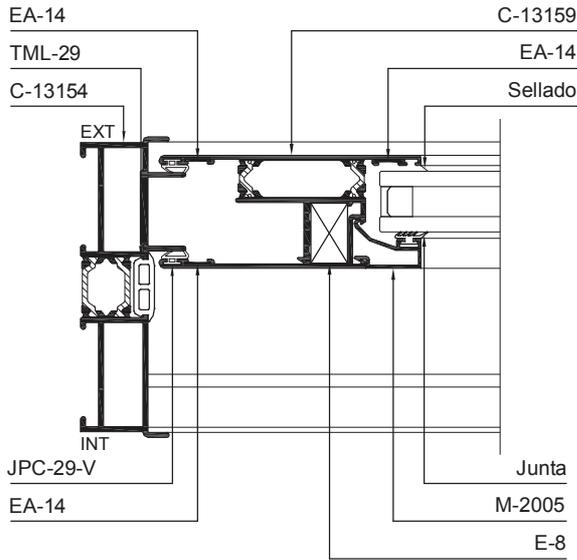




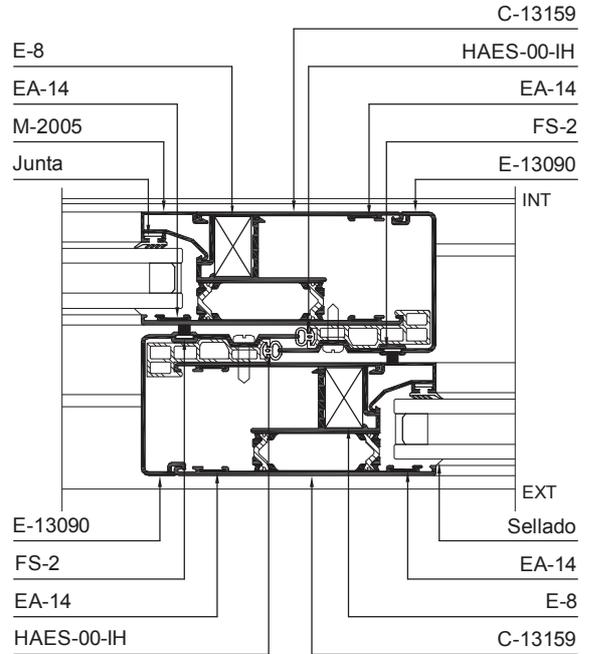
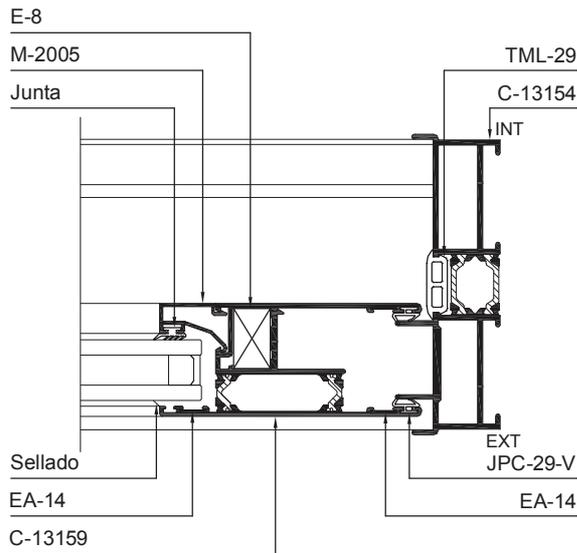


Ventana de 2 hojas

SECCIÓN A

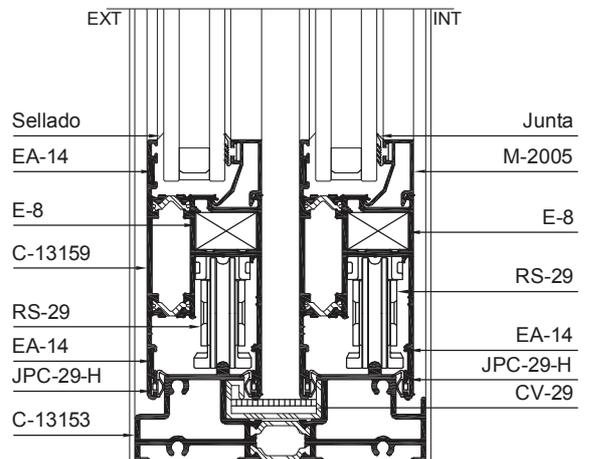
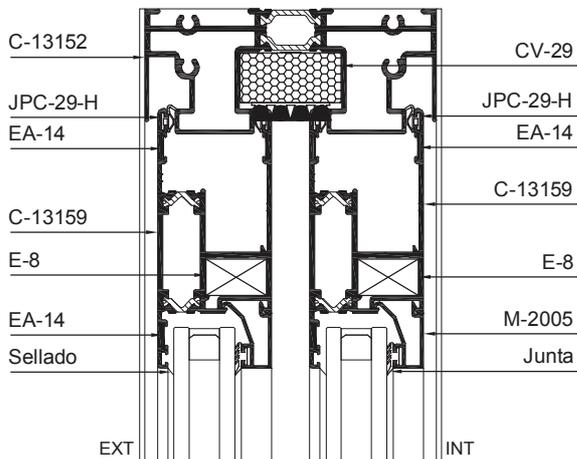


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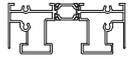
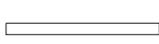
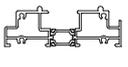
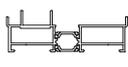
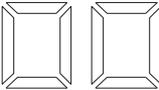
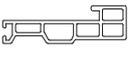
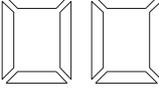
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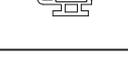
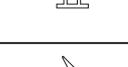
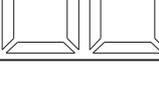
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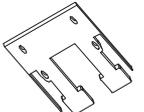
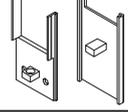
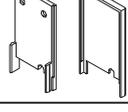
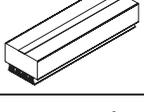
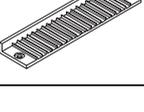
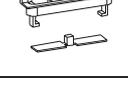
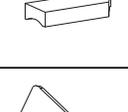
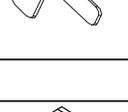
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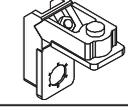
Ventana de 2 hojas

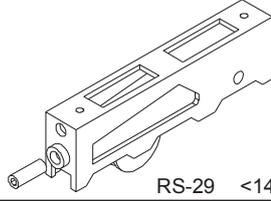
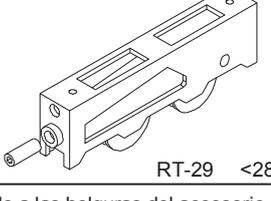
PERFILES					
REFª / DENOMINACIÓN		UNIDADES / CORTE			
	C-13152 Marco superior	1	L - 53		
	C-13153 Marco inferior	1	L - 53		
	C-13154 Marco lateral	2	H		
	C-13159 Hoja perimetral	4	L/2 + 14		
	UE-29 Vaso inferior asimétrico	1	L - 53		
	UC-29 Suplemento hoja central	2	H - 65		
	E-13090 Supleme. cruce hoja central	2	H - 65		
	M-2005 Junquillo hoja	4	L/2 - 148		

JUNTAS Y BURLETES DE ESTANQUEIDAD					
REFª / DENOMINACIÓN		UNIDADES / CORTE			
	TML-29 Junta tapa marco lateral	2	H - 37		
	FS-2 Felpudo Junta central	2	H - 65		
	HAES 00-IH Junta cierre hoja central	2	H - 65		
	JPC-29-H Junta cierre perimetral	8	L/2 + 11		
	JPC-29-V Junta cierre perimetral	4	H - 62		
	Según Cristal Junta de acristalar Interior	4	Ajustar una vez montada		

El Exterior deberá de ir sellado con silicona neutra

Accesorios		
REFERENCIA	UDS	
	Juntas de Estanqueidad JE-29	1
	Tapeta superior THC-29	2
	Tapeta inferior THC-29	2
	Cortavientos Superior CV-29	1
	Cortavientos Inferior CV-29	1
	Desagüe a Cámara DC-1	1
	Tapa para salida de agua DF-1	1
	Escuadra Alineación EA-14	24

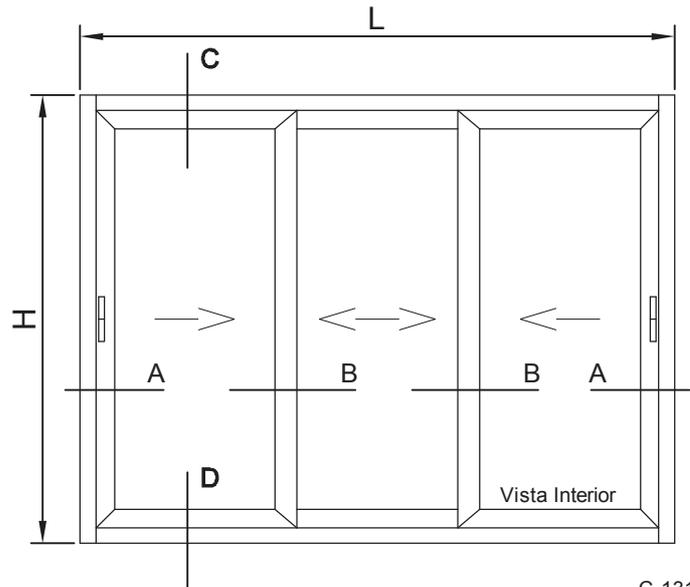
	Escuadra de Hoja E - 8 HAES	8
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RUEDAS CORREDERA		
	RS-29 <140 kg por hoja	4 Uds
	RT-29 <280 kg por hoja	

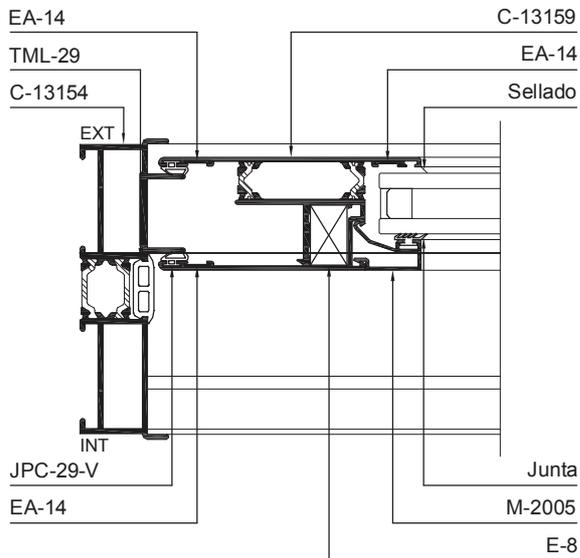
- Antes de proceder al corte del material, será obligatorio la comprobación de los descuentos debido a las holguras del accesorio.

Ventana de 3 hojas

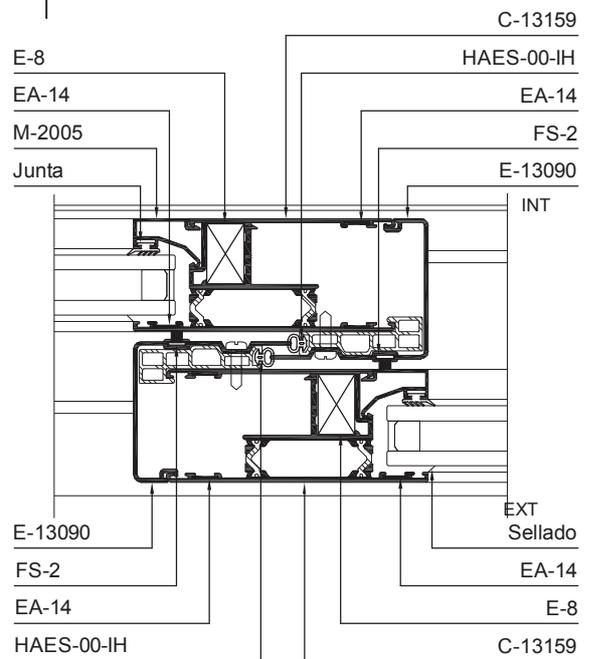
(2 carriles)



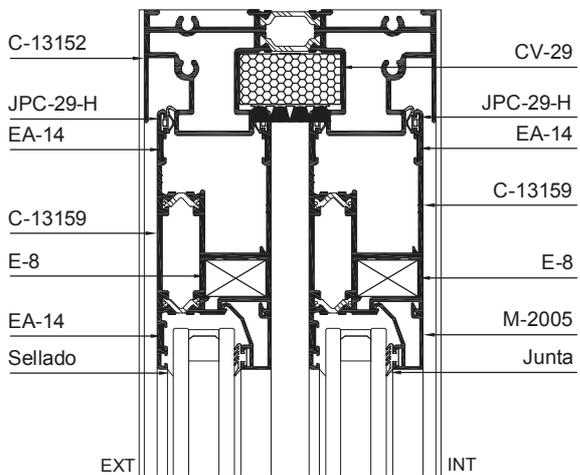
SECCIÓN A



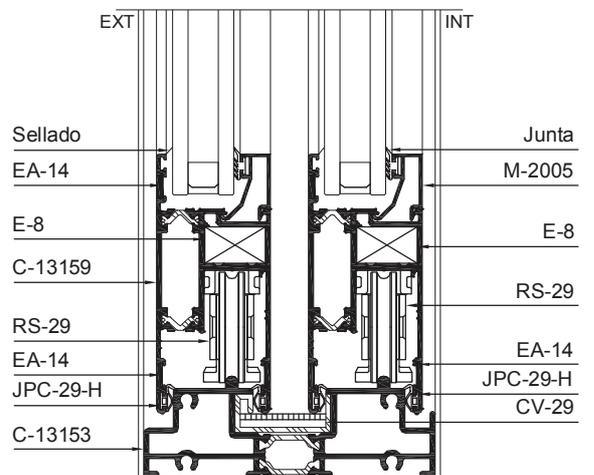
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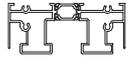
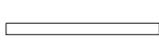
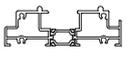
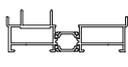
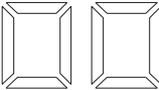
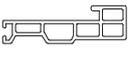
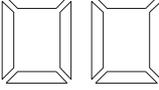
SECCIÓN C

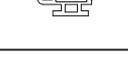
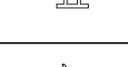
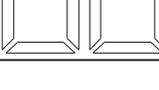


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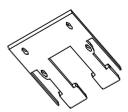
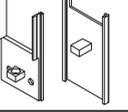
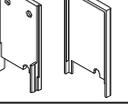
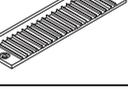
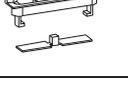
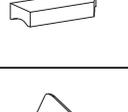
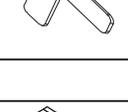


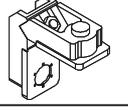
Ventana de 3 hojas

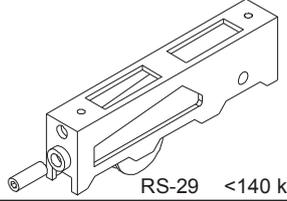
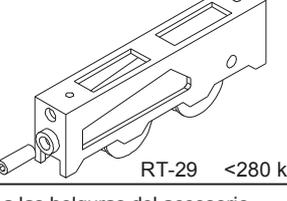
PERFILES					
REFª / DENOMINACIÓN		UNIDADES / CORTE			
	C-13152 Marco superior	1	L - 53		
	C-13153 Marco inferior	1	L - 53		
	C-13154 Marco lateral	2	H		
	C-13159 Hoja perimetral	6	L/3 + 40		
	UE-29 Vaso inferior asimétrico	1	L - 53		
	UC-29 Suplemento hoja central	4	H - 65		
	E-13090 Supleme. cruce hoja central	4	H - 65		
	M-2005 Junquillo hoja	6	L/3 - 123		

JUNTAS Y BURLETES DE ESTANQUEIDAD					
REFª / DENOMINACIÓN		UNIDADES / CORTE			
	TML-29 Junta tapa marco lateral	2	H - 37		
	FS-2 Felpudo Junta central	4	H - 65		
	HAES 00-IH Junta cierre hoja central	4	H - 65		
	JPC-29-H Junta cierre perimetral	8	L/2 + 87.4		
	JPC-29-V Junta cierre perimetral	4	H - 62		
	Según Cristal Junta de acristalar Interior	6	Ajustar una vez montada		

El Exterior deberá de ir sellado con silicona neutra

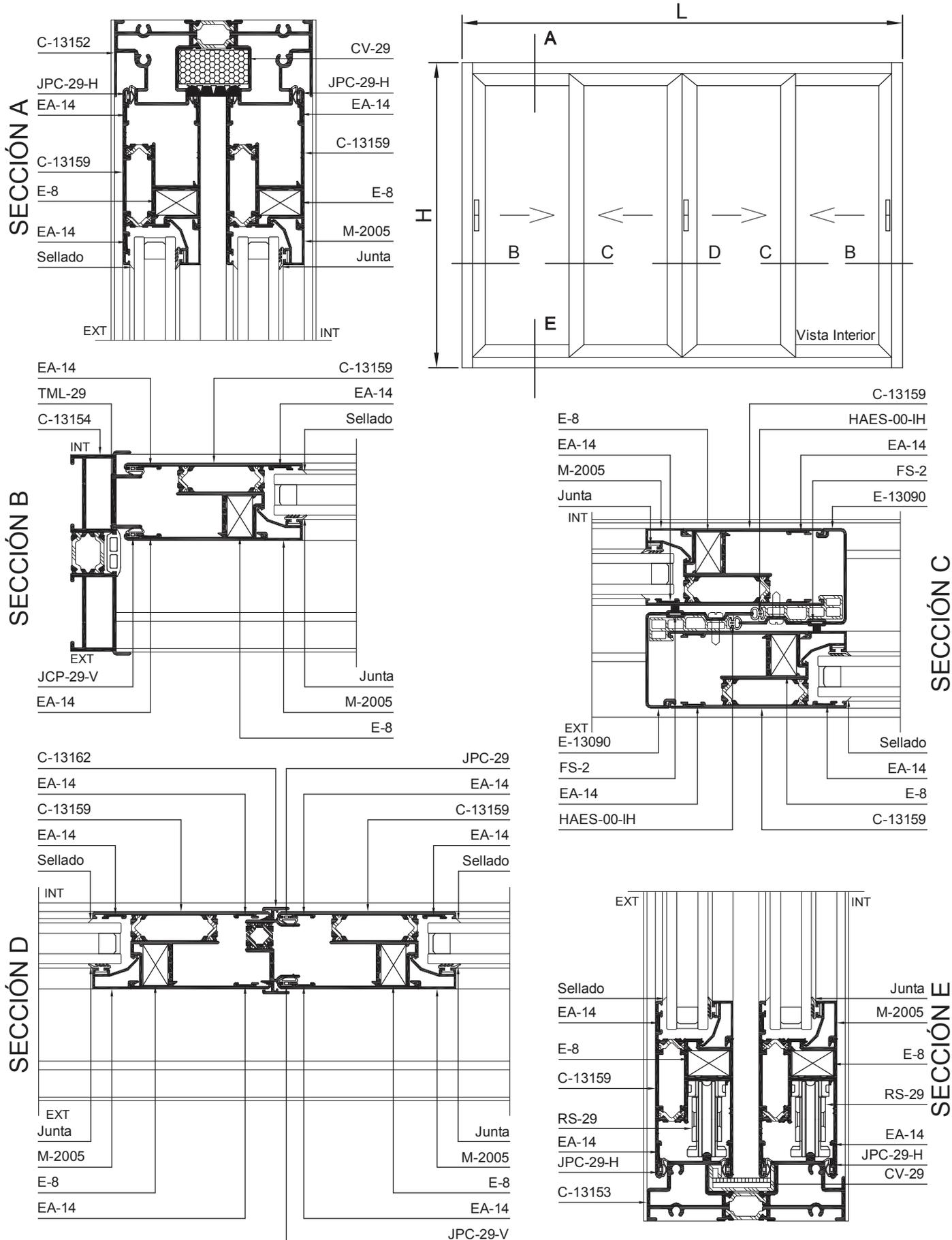
Accesorios		
REFERENCIA	UDS	
	Juntas de Estanqueidad JE-29	1
	Tapeta superior THC-29	4
	Tapeta inferior THC-29	4
	Cortavientos Superior CV-29	1
	Cortavientos Inferior CV-29	1
	Desagüe a Cámara DC-1	1
	Tapa para salida de agua DF-1	1
	Escuadra Alineación EA-14	36

	Escuadra de Hoja E - 8 HAES	12
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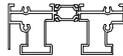
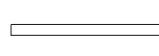
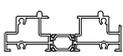
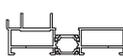
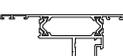
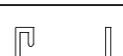
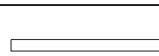
RUEDAS CORREDERA		UDS
	RS-29 <140 kg por hoja	6
	RT-29 <280 kg por hoja	6

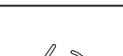
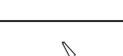
- Antes de proceder al corte del material, será obligatorio la comprobación de los descuentos debido a las holguras del accesorio.

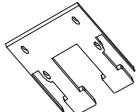
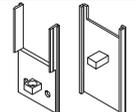
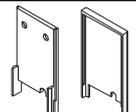
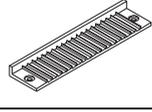
Ventana de 4 hojas

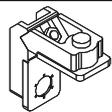


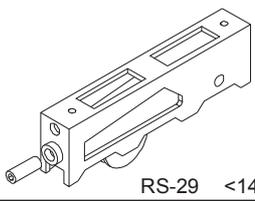
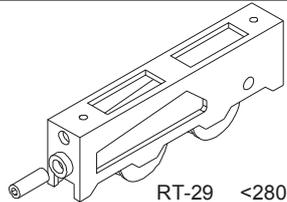
Ventana de 4 hojas

PERFILES					
REFª / DENOMINACIÓN		UNIDADES / CORTE			
	C-13152 Marco superior	1	L - 53		
	C-13153 Marco inferior	1	L - 53		
	C-13154 Marco lateral	2	H		
	C-13159 Hoja perimetral	8 8	L/4 + 29 H - 65		
	UE-29 Vaso inferior asimétrico	1	L - 65		
	UC-29 Suplemento hoja central	4	H - 65		
	E-13090 Supleme. cruce hoja central	4	H - 65		
	M-2005 Junquillo hoja	8 8	L/4 - 132 H - 271		
	C-13162 Cierre 4 hojas	1	H - 65		

JUNTAS Y BURLETES DE ESTANQUEIDAD					
REFª / DENOMINACIÓN		UNIDADES / CORTE			
	TML-29 Junta tapa marco lateral	2	H - 37		
	FS-2 7x6 Felpudo Junta central	4	H - 65		
	HAES 00-IH Junta cierre hoja central	4	H - 65		
	JPC-29-H Junta cierre perimetral	8	L/2 + 11		
	JPC-29-V Junta cierre perimetral	6	H - 62		
	Según Cristal Junta de acristalar Interior	8 8	Ajustar una vez montada		
El Exterior deberá de ir sellado con silicona neutra					

Accesorios		
REFERENCIA	UDS	
	Juntas de Estanqueidad JE-29	1
	Tapeta superior THC-29	2
	Tapeta inferior THC-29	2
	Cortavientos Superior CV-29	1
	Cortavientos Inferior CV-29	1
	Desagüe a Cámara DC-1	1
	Tapa para salida de agua DF-1	1
	Escuadra Alineación EA-14	24

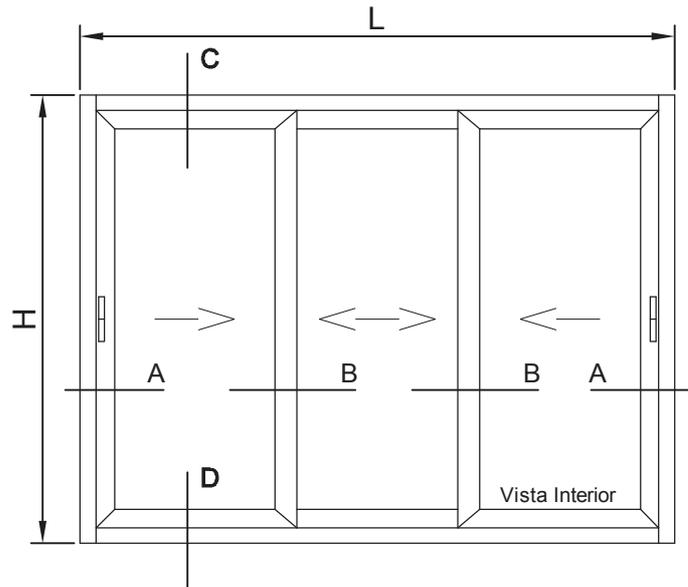
	Escuadra de Hoja E - 8 HAES	16
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RUEDAS CORREDERA		
	RS-29 <140 kg por hoja	4 Uds
	RT-29 <280 kg por hoja	

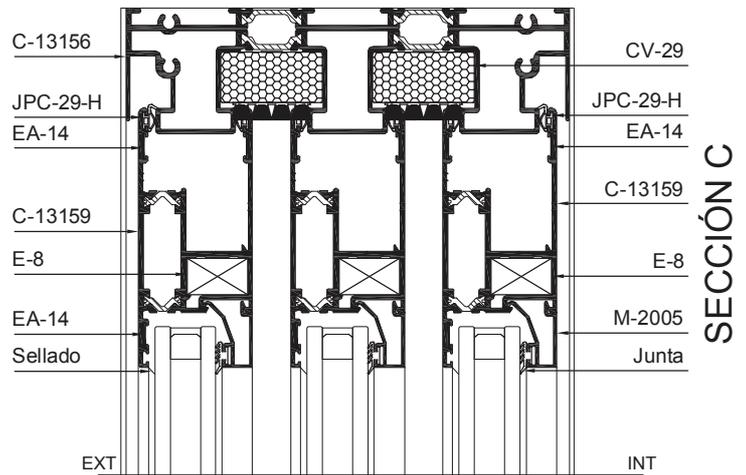
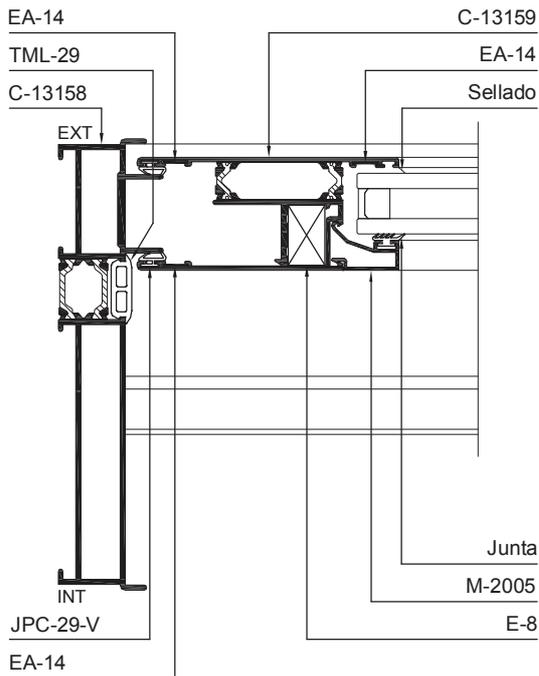
- Antes de proceder al corte del material, será obligatorio la comprobación de los descuentos debido a las holguras del accesorio.

Ventana de 3 hojas

(3 carriles)

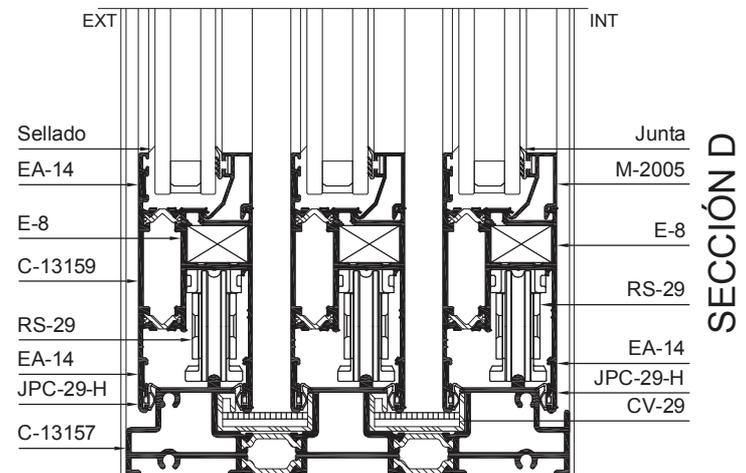
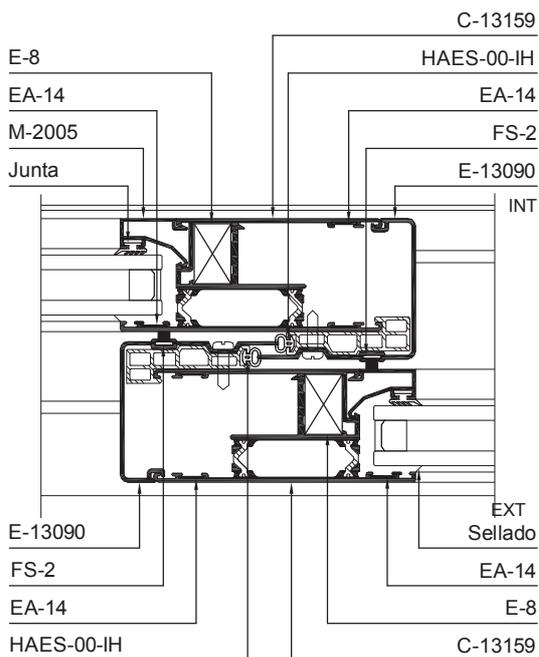


SECCIÓN A



SECCIÓN C

SECCIÓN B



SECCIÓN D

Ventana de 3 hojas

PERFILES					
REFª / DENOMINACIÓN		UNIDADES / CORTE			
	C-13156	Marco superior	1	L - 53	
	C-13157	Marco inferior	1	L - 53	
	C-13158	Marco lateral	2	H	
	C-13159	Hoja perimetral	6	L/3 + 40	
			6	H - 65	
	UE-29	Vaso inferior asimétrico	2	L - 53	
	UC-29	Suplemento hoja central	4	H - 65	
	E-13090	Supleme. cruce hoja central	4	H - 65	
	M-2005	Junquillo hoja	6	L/3 - 123	
			6	H - 271	

JUNTAS Y BURLETES DE ESTANQUEIDAD					
REFª / DENOMINACIÓN		UNIDADES / CORTE			
	TML-29	Junta tapa marco lateral	2	H - 37	
	FS-2	Felpudo Junta central	4	H - 65	
	HAES	Junta cierre hoja central	4	H - 65	
	JPC-29-H	Junta cierre perimetral	8	L/2 + 87.4	
	JPC-29-V	Junta cierre perimetral	4	H - 62	
	Según Cristal	Junta de acristalar Interior	6	Ajustar una vez montada	
El Exterior deberá de ir sellado con silicona neutra					

Accesorios		
REFERENCIA	UDS	
	Juntas de Estanqueidad JE-29	1
	Tapeta superior THC-29	4
	Tapeta inferior THC-29	4
	Cortavientos Superior CV-29	1
	Cortavientos Inferior CV-29	1
	Desagüe a Cámara DC-1	1
	Tapa para salida de agua DF-1	1
	Escuadra Alineación EA-14	36

	Escuadra de Hoja E - 8 HAES	12
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RUEDAS CORREDERA		
	RS-29 <140 kg por hoja	6 Uds
	RT-29 <280 kg por hoja	

- Antes de proceder al corte del material, será obligatorio la comprobación de los descuentos debido a las holguras del accesorio.