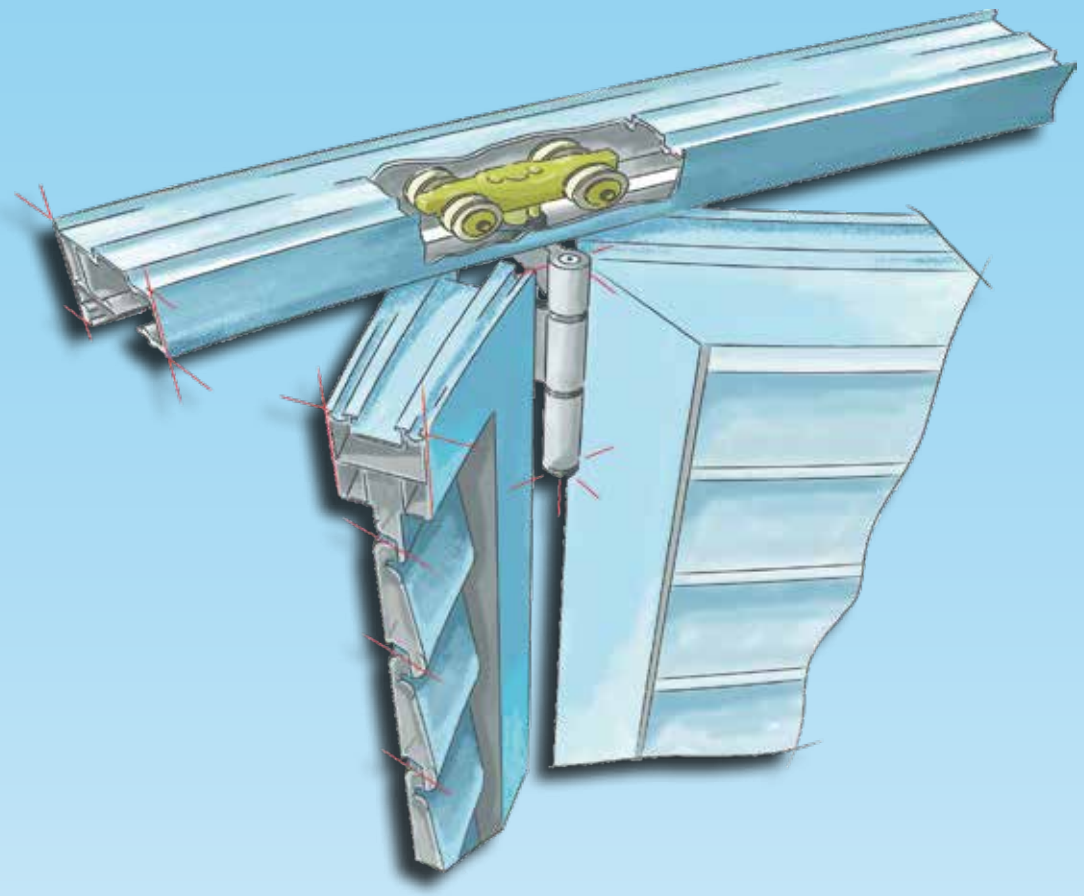
ITESAL SISTEMA UMBRA





SISTEMA UMBRA
PLEGABLE Y CORREDERA

ÍNDICE

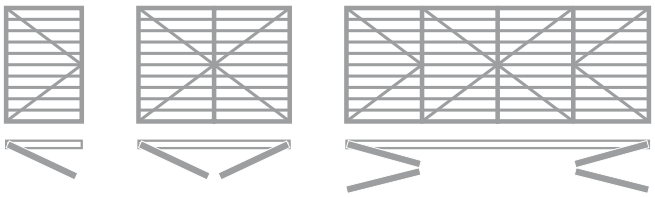
OPCIONES DE APERTURA Y LÍMITE DE EMPLEO	4
FICHA TÉCNICA, CARACTERÍSTICAS	5
PERFILES ITESAL SERIE UMBRA	6
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OPCIONES DE APERTURA Y LÍMITE DE EMPLEO

FIJO

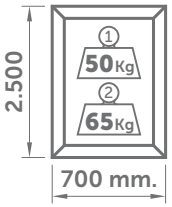


PRACTICABLE



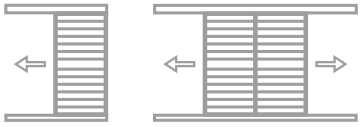
Para anchuras de hoja inferiores a 250 mm., consultar su posible realización.

Dimensiones y pesos máximos por hoja

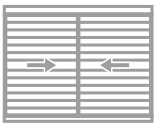


(1) Con bisagra de 2 palas
(2) Con bisagra de 3 palas

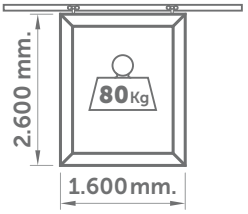
CORREDERA



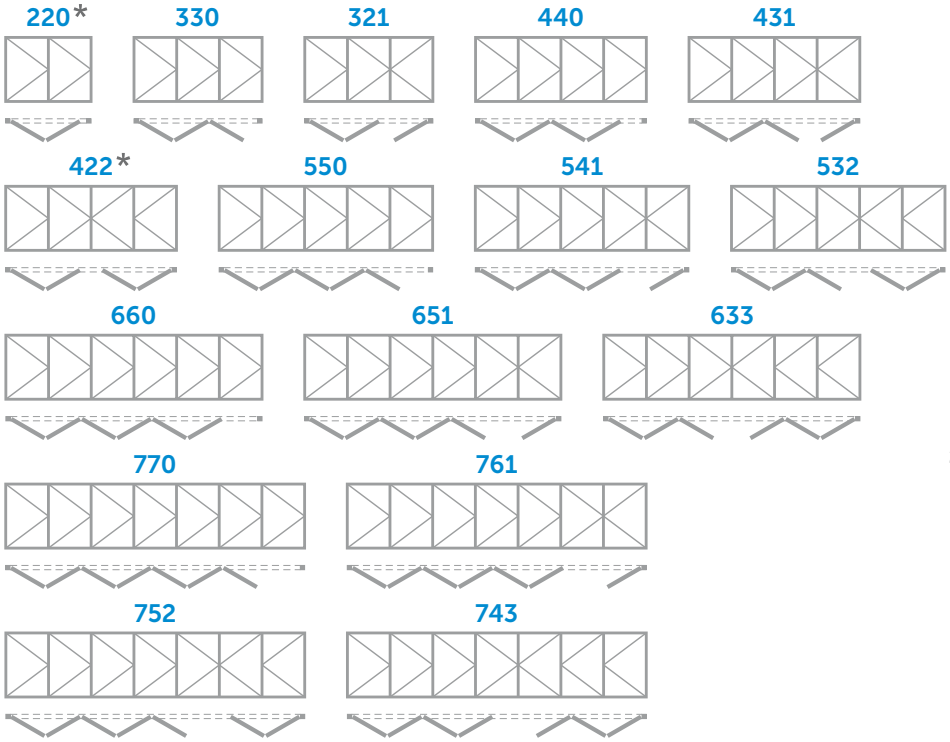
CORREDERA ENTRE MUROS



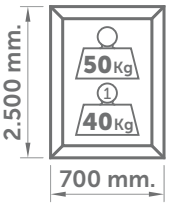
Dimensiones y pesos máximos por hoja



PLEGABLE

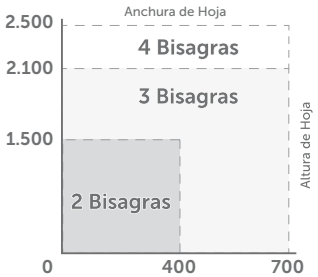


Dimensiones y pesos máximos por hoja



(1) Para Hojas pares

Número de bisagras por hoja



** La anchura mínima de hoja, para una ventana de hojas pares, es de 500 mm.*

Para anchuras de hoja inferiores a 250 mm., consultar su posible realización.

LÍMITE DE EMPLEO (Por anchura y número de lamas)

ANCHO DE LAMA	**1.000 mm.** Máximo aconsejable	Si se necesita sobrepasar estas dimensiones, tanto en altura como en anchura, es necesario partir el hueco en dos o más elementos.
ALTURA DE PORTALAMAS	**1.600 mm.** Máximo aconsejable	

FICHA TÉCNICA

MALLORQUINA SISTEMA UMBRA

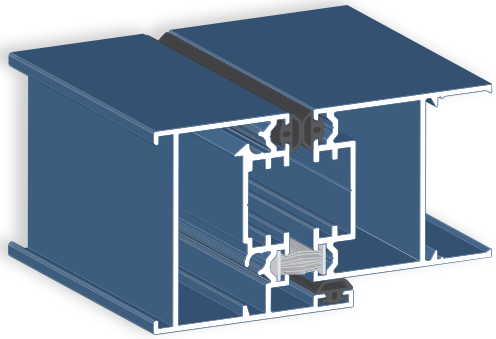
CARACTERÍSTICAS

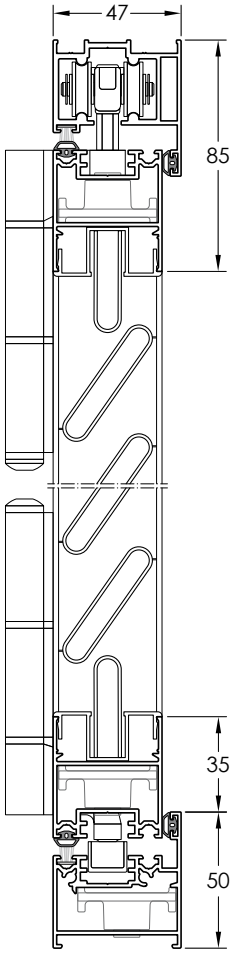
Sistema de carpintería tipo mallorquina, para puertas y ventanas, que proporciona gran número de posibilidades de apertura: fijos, practicables, plegables y corredera. Es posible fabricar aperturas interiores o exteriores; la cantidad de soluciones constructivas la hace una carpintería muy práctica, a la vez que fácil de trabajar.

- Cerramiento con opción de Lamas Fijas o móviles, Acristalado u Opaco con Panel.
- Posibilidad de perfil de suelo: guía empotrada, superpuesta, o con marco.
- Sistema de cierre con manilla.
- Compatible con otras Series ITESAL.
- Perfiles de aluminio extruido en aleación 6063 y tratamiento T-5.
- Sello de calidad QUALICOAT SEASIDE Class para el aluminio lacado y EURAS-EWAA para el aluminio anodizado.
- Ingletes de marco y hoja a 45°, uniones con escuadra de aluminio fundido de bulones con muelle.
- Acristalamiento máximo de 24 mm.
- Dimensiones base del sistema:

  Marco Fijo: 47 mm – Hoja: anchura 40 mm

Sección Nudo Lateral



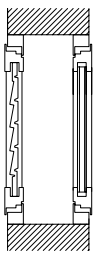


VENTANA 1200x1200 mm. / 2 Hojas

RESISTENCIA A LA CARGA DE VIENTO

CLASE 6

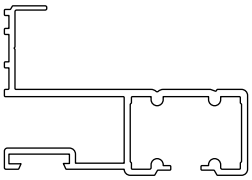
Ensayo de ***RESISTENCIA A LAS CARGAS DE VIENTO Y REQUISITOS DE PRESTACIONES INCLUIDA LA SEGURIDAD***, realizado por Ensatec con nº 219.109, según normas UNE-EN 13659:2004 y UNE-EN 1932:2001.

TRANSMITANCIA *Resistencia térmica suplementaria de la contraventana exterior.*			
TRANSMITANCIA DE LA VENTANA	**TRANSMITANCIA DEL CONJUNTO VENTANA + CONTRAVENTANA**		**ESQUEMA**
	Contraventana con muy alta permeabilidad al aire ΔR=0,08	Contraventana con baja permeabilidad al aire ΔR=0,14	
Uw (w/m²°K)	Uws (w/m²°K)	Uws (w/m²°K)	
0,5	**0,48**	**0,47**	
1	**0,93**	**0,88**	
1,5	**1,34**	**1,24**	
2	**1,72**	**1,56**	
2,5	**2,08**	**1,85**	
3	**2,42**	**2,11**	
3,5	**2,73**	**2,35**	

SEGÚN: ***UNE-EN ISO 10077-1: 2000***

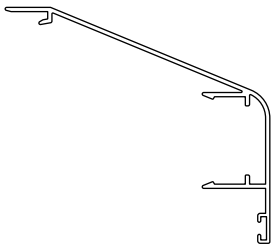


PERFILES SERIE UMBRA CORREDERA



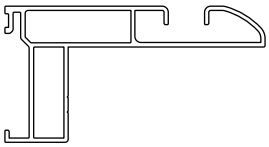
65003

Guía superior 80 x 54 mm.



65006

Tapa superior 88 x 78 mm.



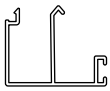
65004

Guía inferior de pared 86 x 45 mm.



65007

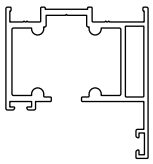
Tapa lateral 71 x 15 mm.



34020

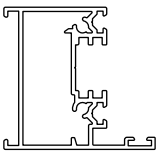
Junquillo recto de 33,4 mm.

MARCOS SERIE UMBRA



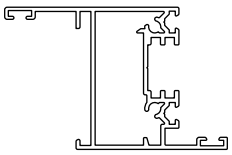
65008

Marco guía superior 47 x 50 mm.



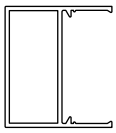
65009

Marco lateral e inferior 50 x 47 mm.



65036

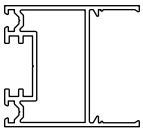
Marco lateral e inferior con solape de 23,6 mm.



32203

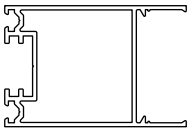
Marco fijo liso 35 x 40 mm.

HOJAS SERIE UMBRA



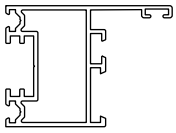
65001

Hoja mallorquina de 44,5 x 40 mm.



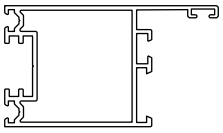
65016

Hoja mallorquina puerta de 60 x 40 mm..



65010

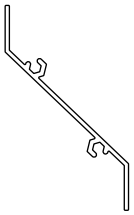
Hoja ajunquillada de 55 x 40 mm.



65017

Hoja ajunquillada puerta de 70,6 x 40 mm..

LAMAS



60334

Lama fija de 40 x 68 mm.



61991

Lama móvil de 19 x 71 mm.



62011

Lama fija de 12 x 57,5 mm.



62001

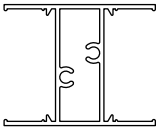
Lama fija de 12 x 41 mm.



60770

Lama ovalina de 10 x 50 mm.

TRAVESAÑOS / ZÓCALOS



93303

Travesaño de 50 x 40 mm.



32245

Zócalo mallorquina de 97 x 40 mm.



64634

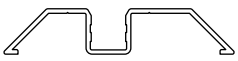
Travesaño mallorquina de 120 x 36 mm.

OTROS PERFILES SERIE UMBRA



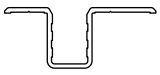
65002

Perfil unión 2 hojas.



65018

Guía inferior de suelo de 76 x 15 mm.



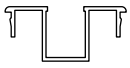
65013

Guía de empotrar de 50 x 20 mm.



65011

Tapa de 40 mm.



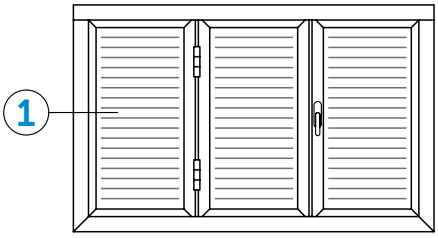
62022

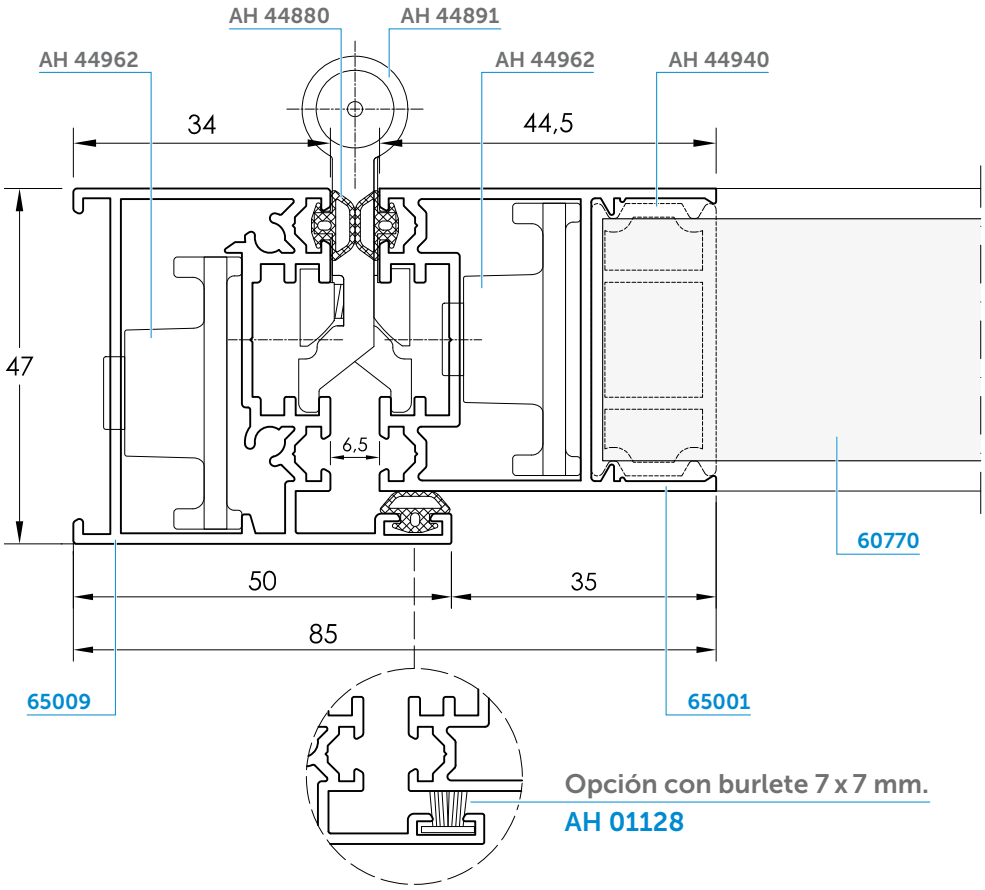
Guía de compensación.

NUDOS SISTEMA UMBRA CON LAMA

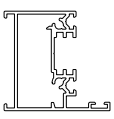
SECCIÓN 1: Nudo lateral bisagra Lama Fija Ovalina.

Escala 1/1

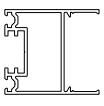




Opción con burlete 7 x 7 mm.
AH 01128



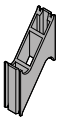
65009



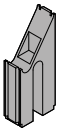
65001



60770



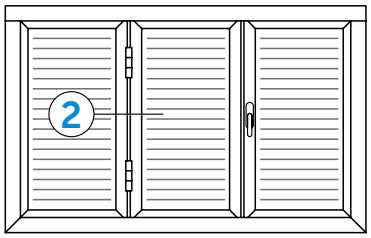
AH 44940

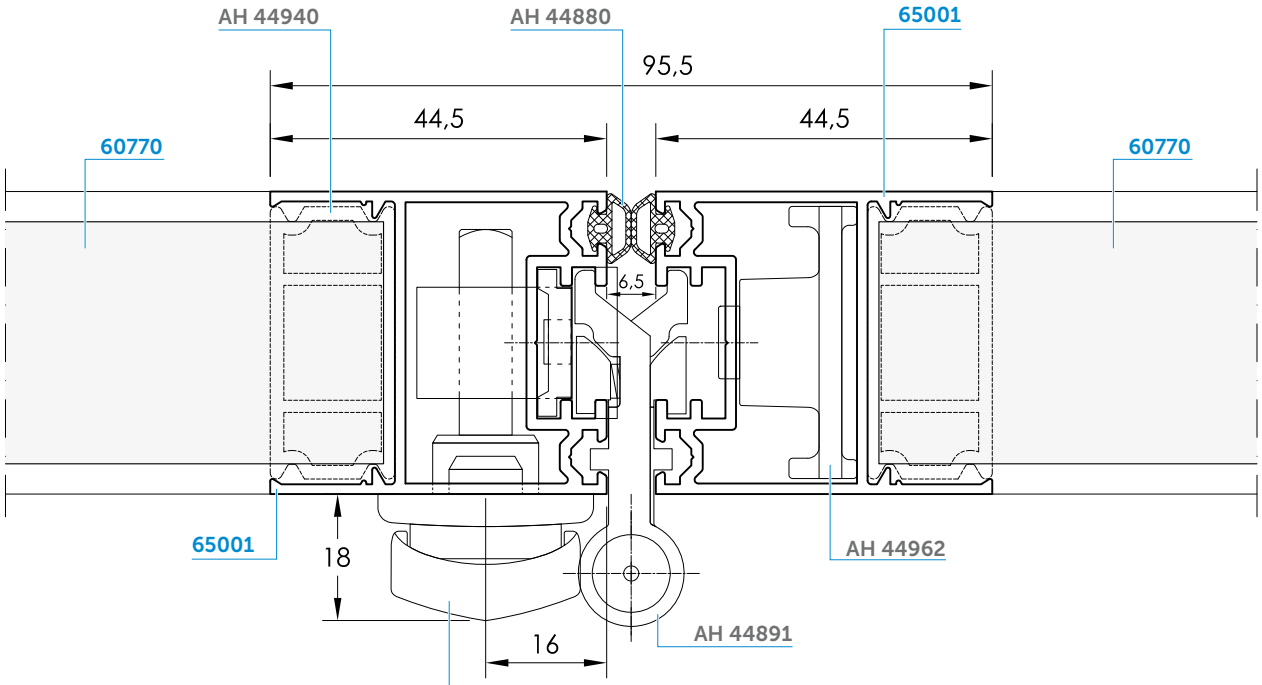


AH 44941

SECCIÓN 2: Nudo intermedio bisagra Lama Fija Ovalina.

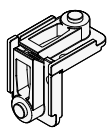
Escala 1/1



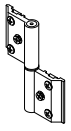


Maneta plana **ACG 2492**
+ Mecanismo **AH 44878**

Ver apartado de mecanizados



AH 44962



AH 44891



ACG 2492



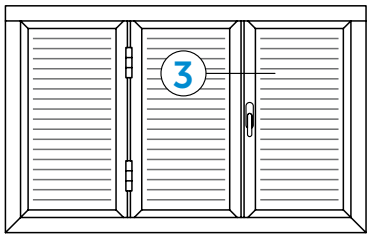
AH 44880

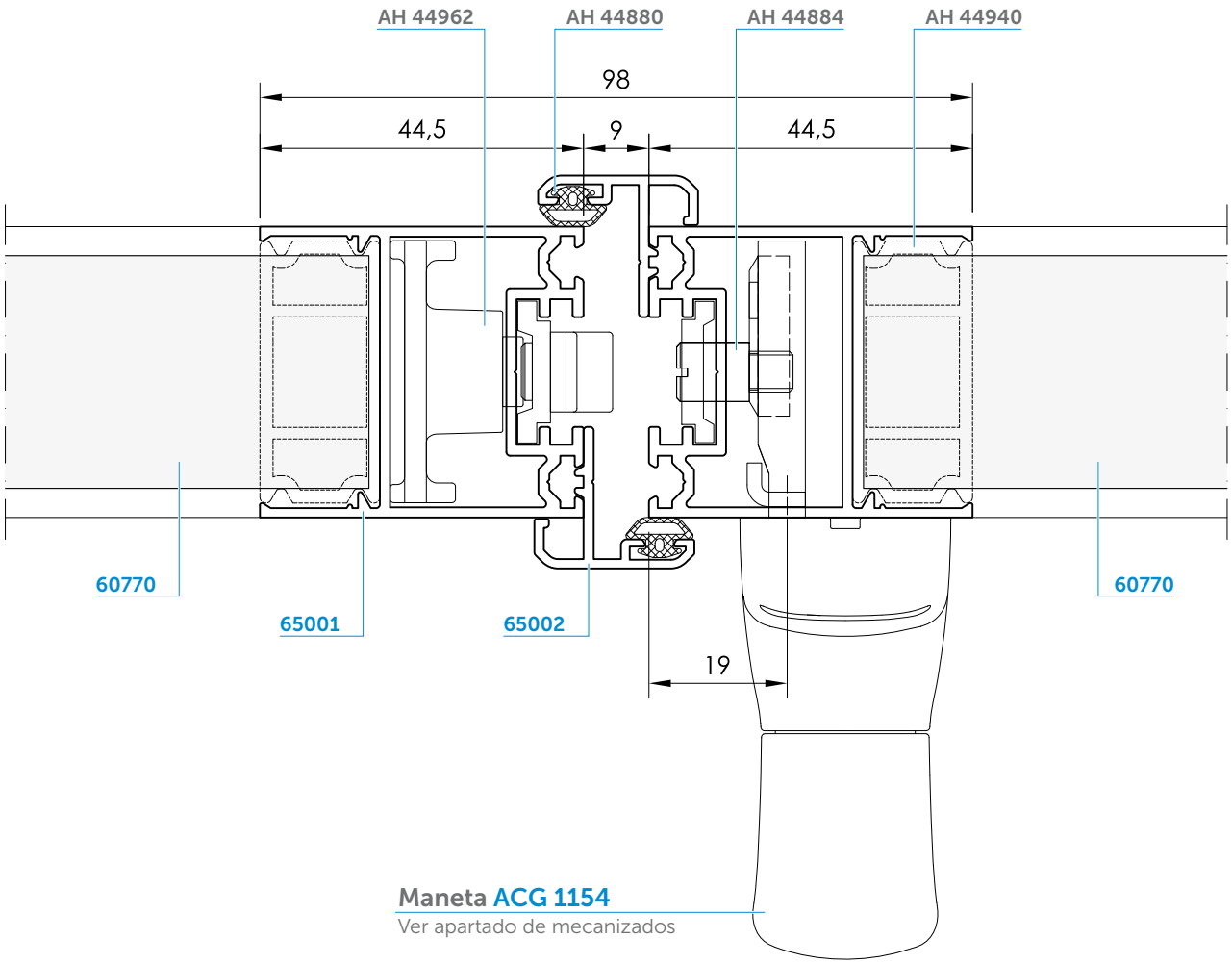


AH 01128

SECCIÓN 3: Nudo encuentro de hojas Lama Fija Ovalina.

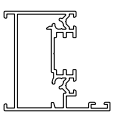
Escala 1/1



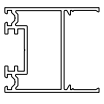


Maneta **ACG 1154**

Ver apartado de mecanizados



65009



65001



60770



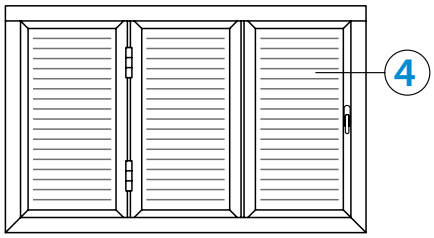
65002

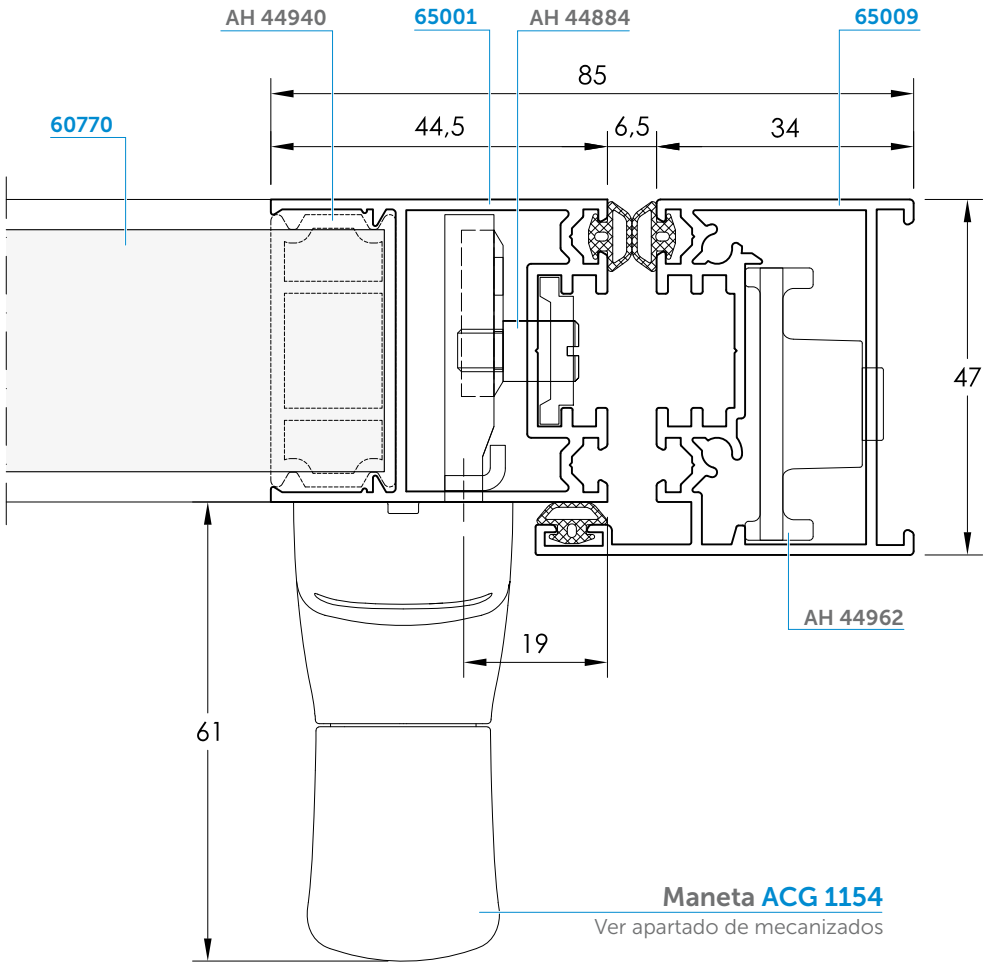


AH 44884

SECCIÓN 4: Nudo lateral cierre Lama Fija Ovalina.

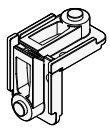
Escala 1/1



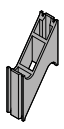


Maneta ACG 1154

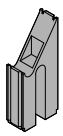
Ver apartado de mecanizados



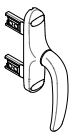
AH 44962



AH 44940



AH 44941



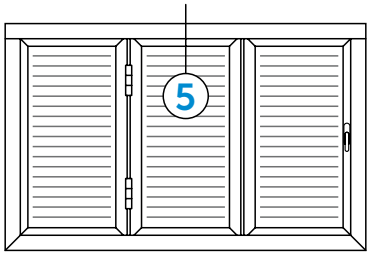
ACG 1154

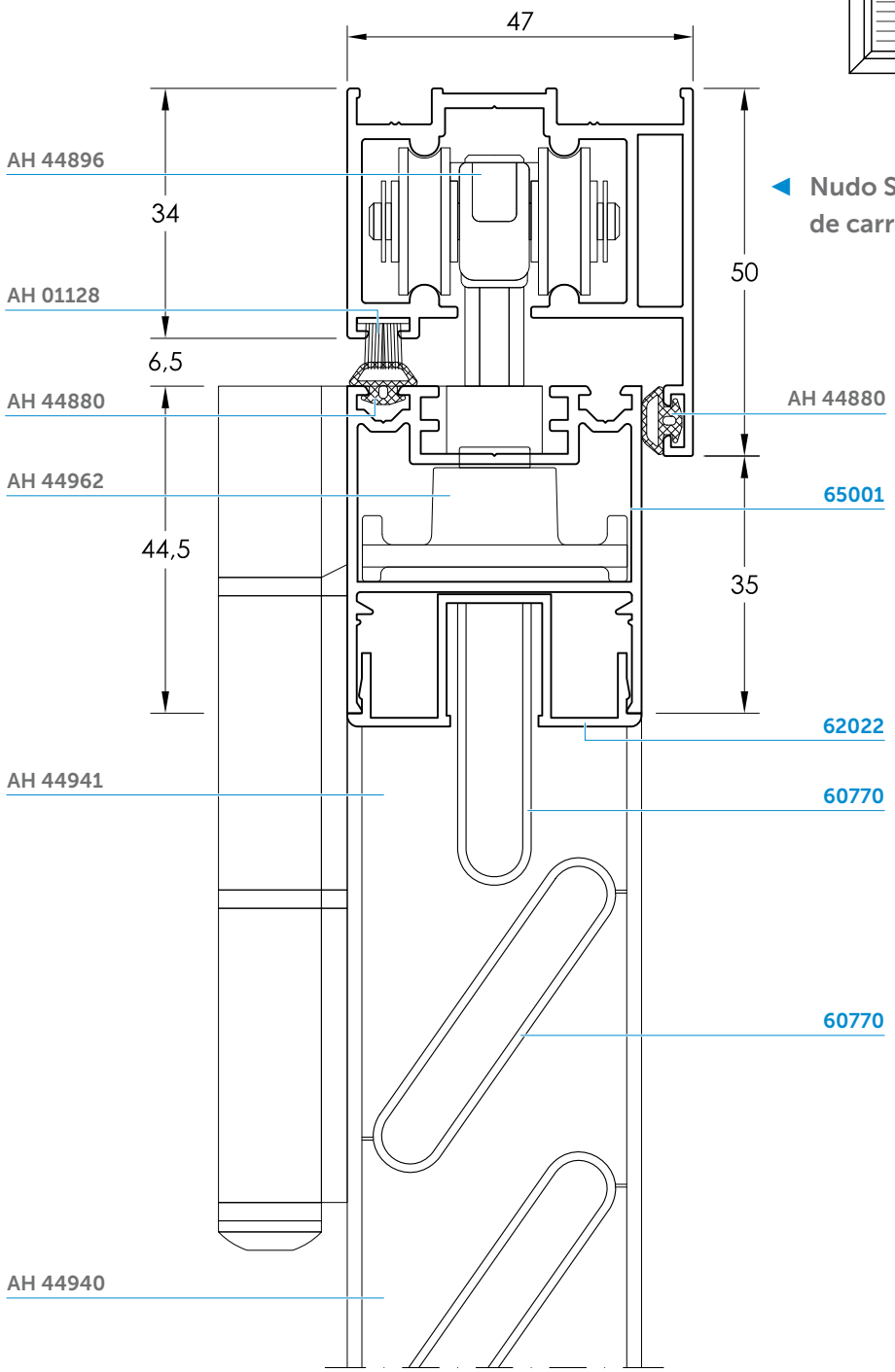


AH 44880

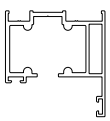
SECCIÓN 5: Nudo superior Lama Fija Ovalina.

Escala 1/1

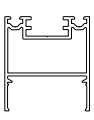




◀ Nudo Superior con guía de carros **65008**



65008



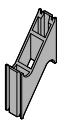
65001



60770



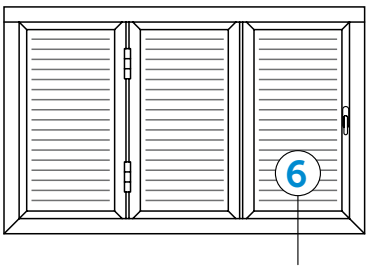
62022

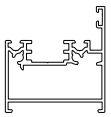


AH 44940

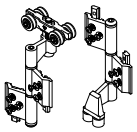
SECCIÓN 6: Nudo inferior.

Escala 1/1

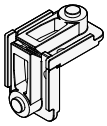




65009



AH 44896



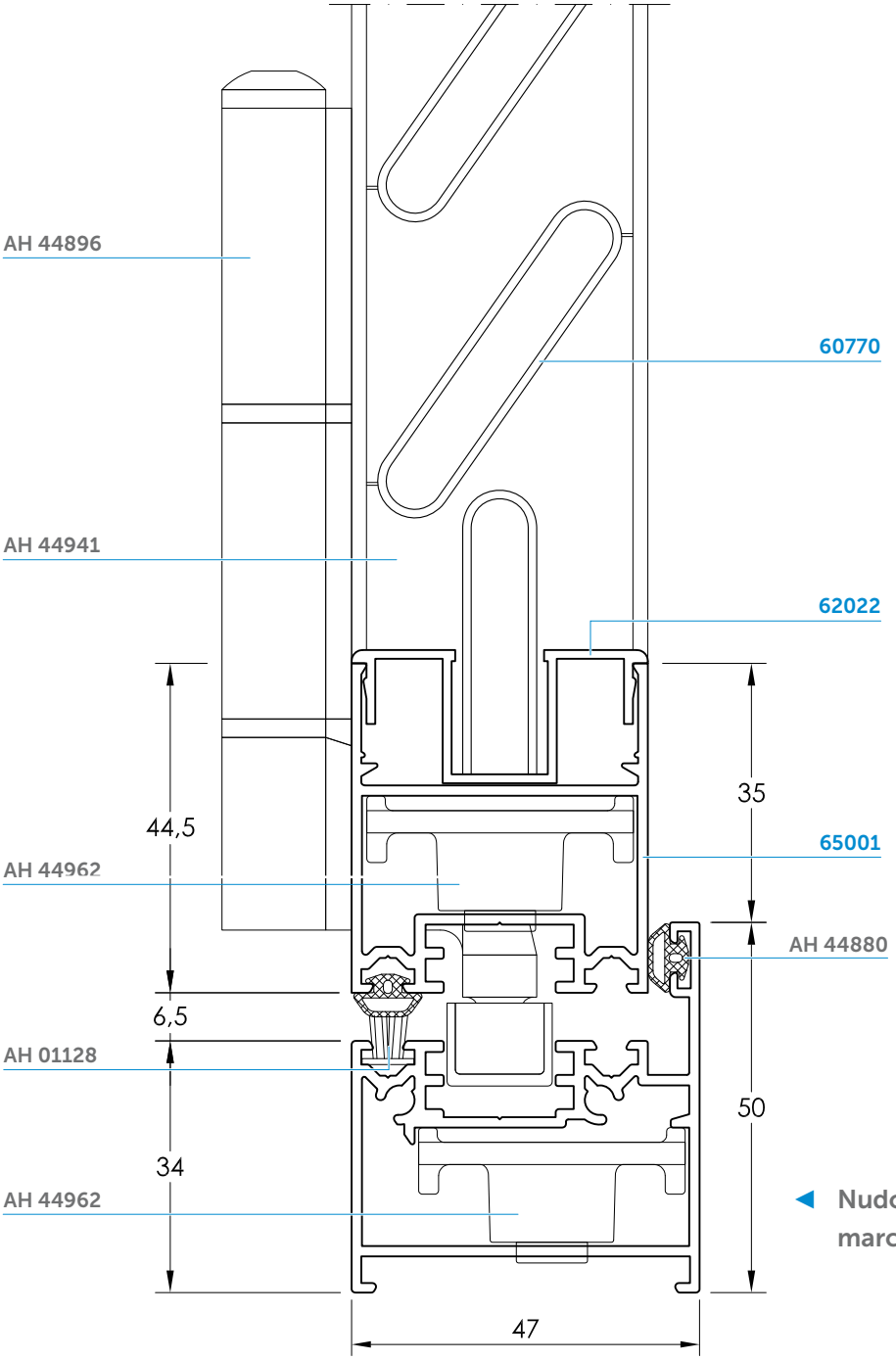
AH 44962



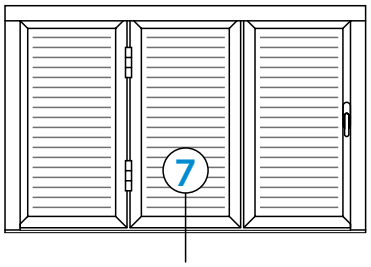
AH 01128



AH 44880

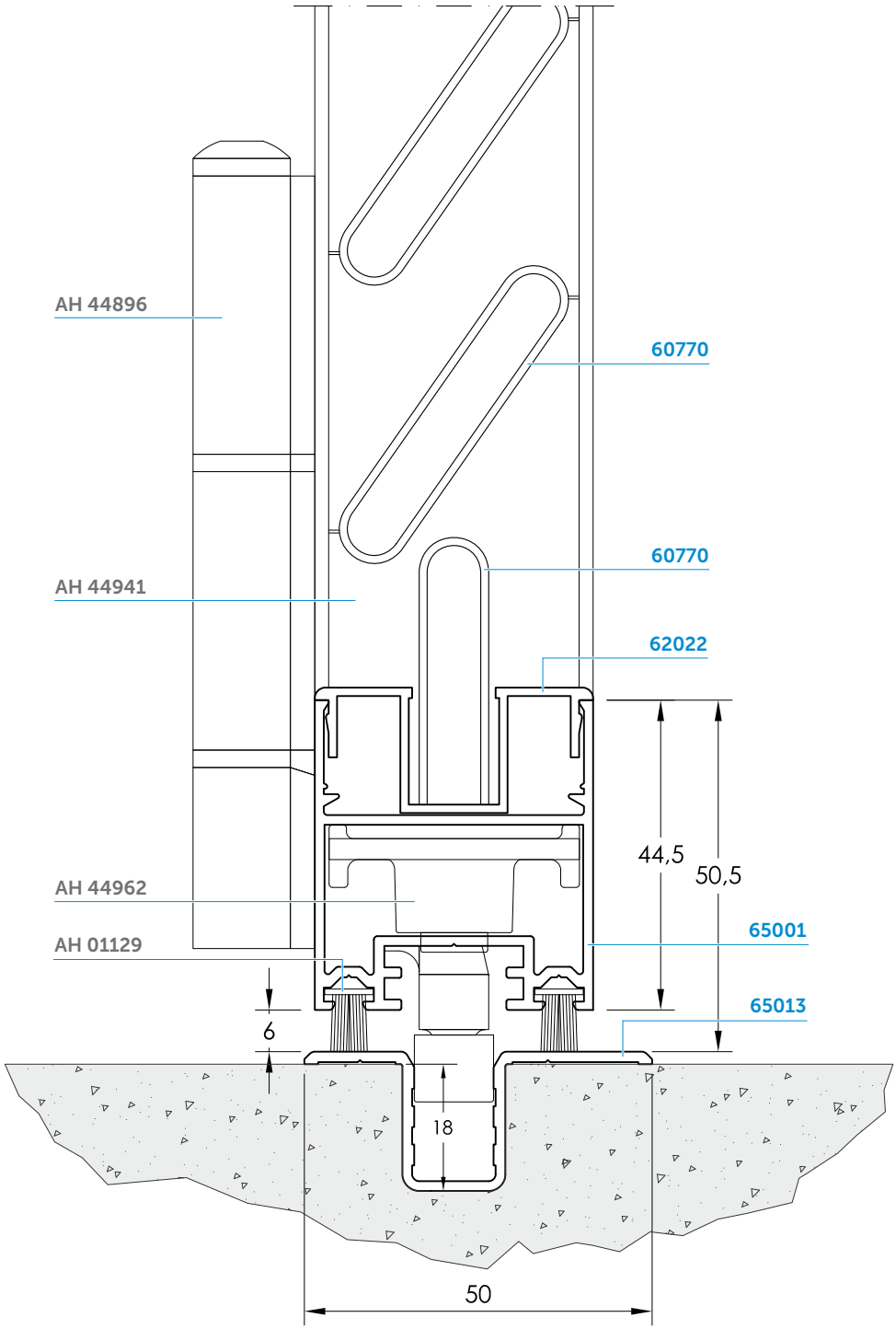


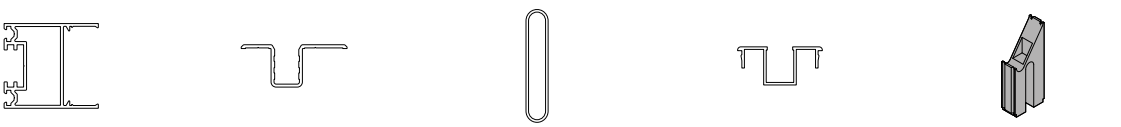
◀ Nudo Inferior con marco **65009**



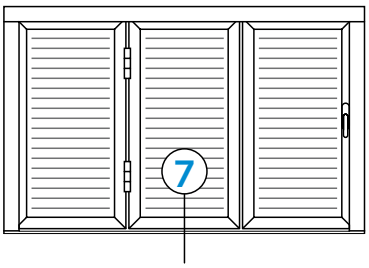
SECCIÓN 7: Nudo inferior con guía empotrada 65013.

Escala 1/1



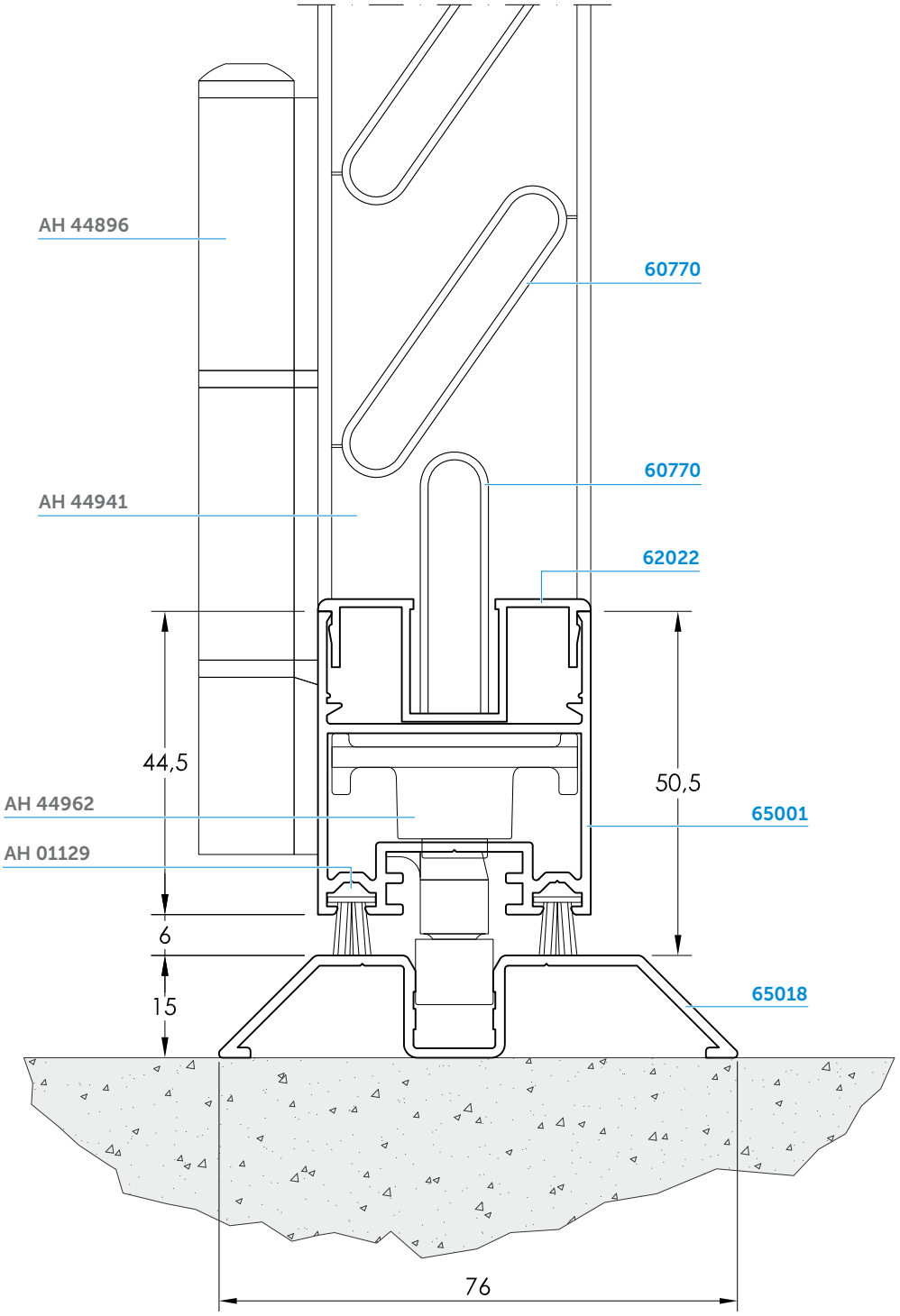


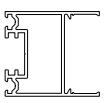
65001 | 65013 | 60770 | 62022 | AH 44941



SECCIÓN 7: Nudo inferior con guía superpuesta 65018.

Escala 1/1

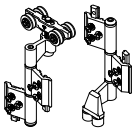




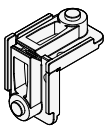
65001



65018



AH 44896



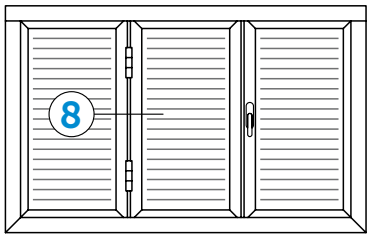
AH 44962

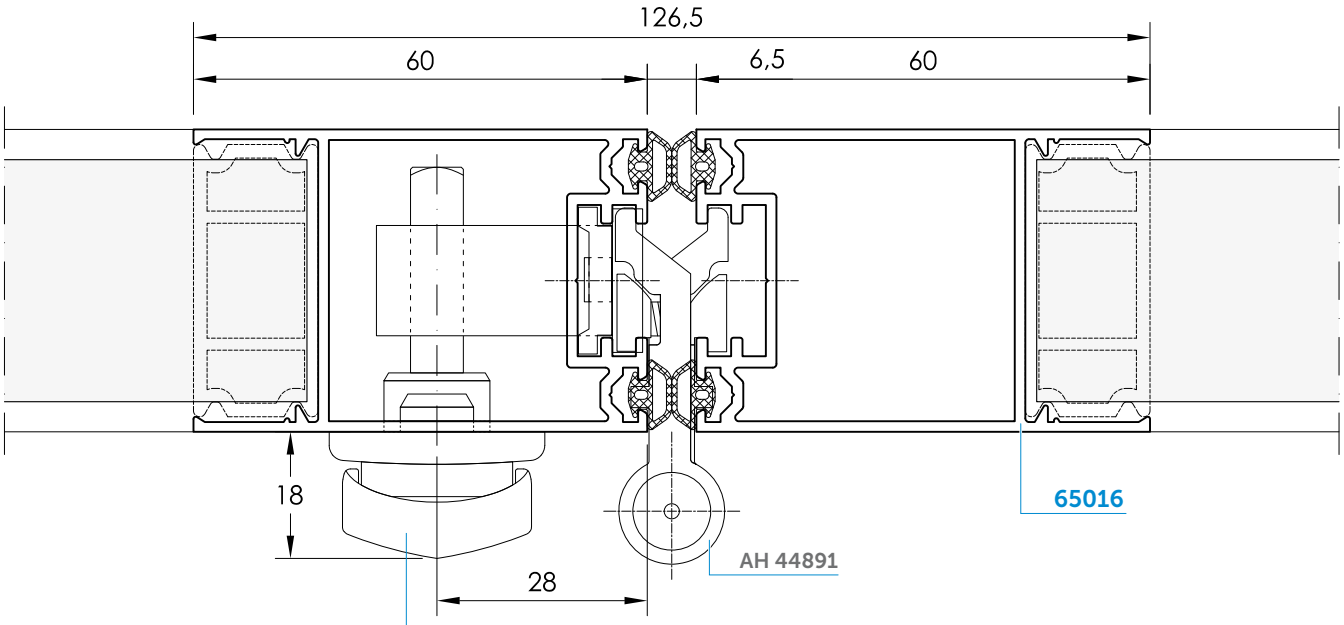


AH 01129

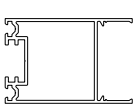
SECCIÓN 8: Nudo intermedio bisagra (hoja de puerta).

Escala 1/1

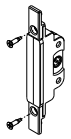




Maneta plana **ACG 2492**
+ Mecanismo **AH 44879**
Ver apartado de mecanizados



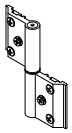
65016



AH 44879



ACG 2492



AH 44891

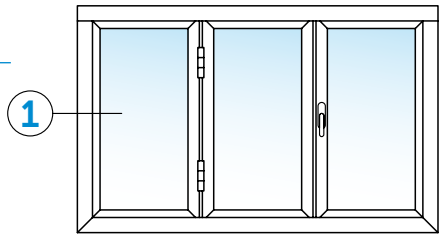


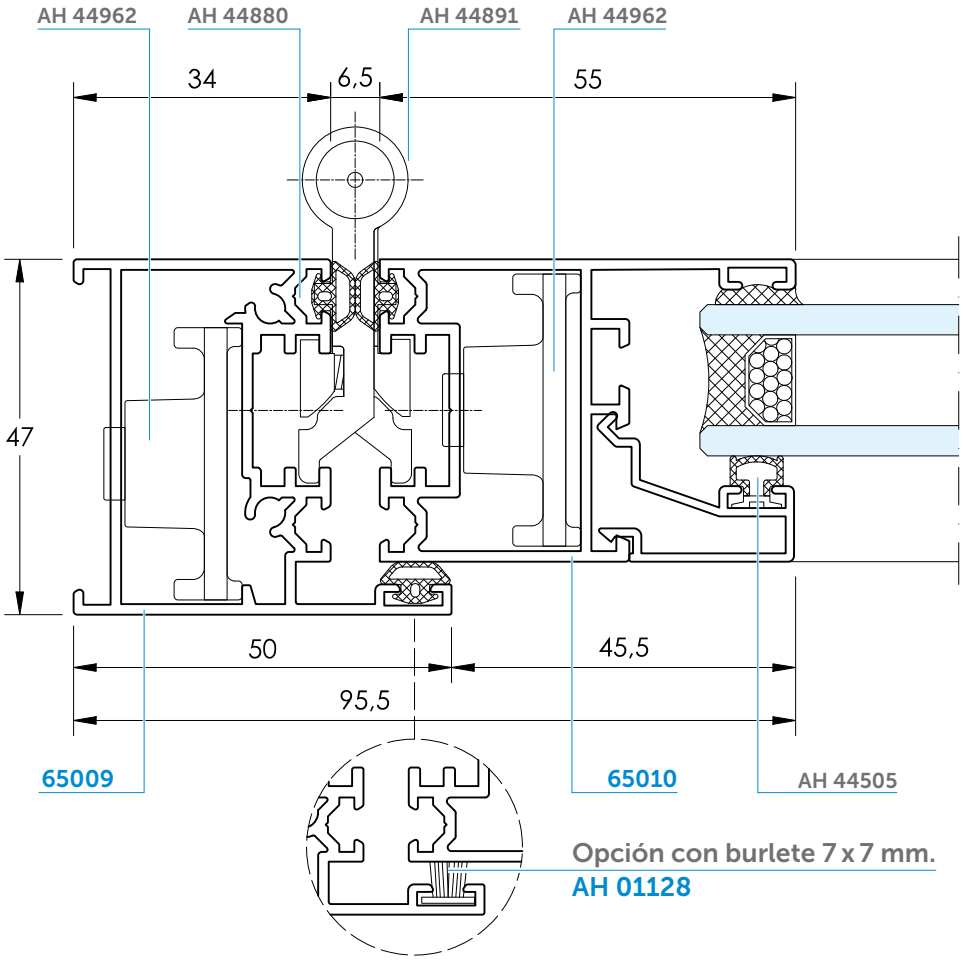
AH 44880

NUDOS SISTEMA UMBRA CON VIDRIO

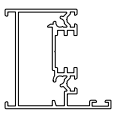
SECCIÓN 1: Nudo lateral bisagra.

Escala 1/1

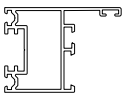




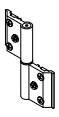
Opción con burlete 7 x 7 mm.
AH 01128



65009



65010



AH 44891



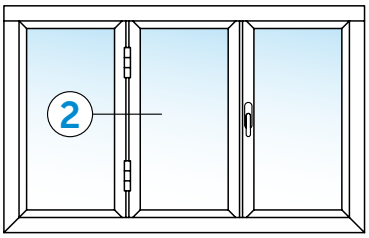
AH 44880

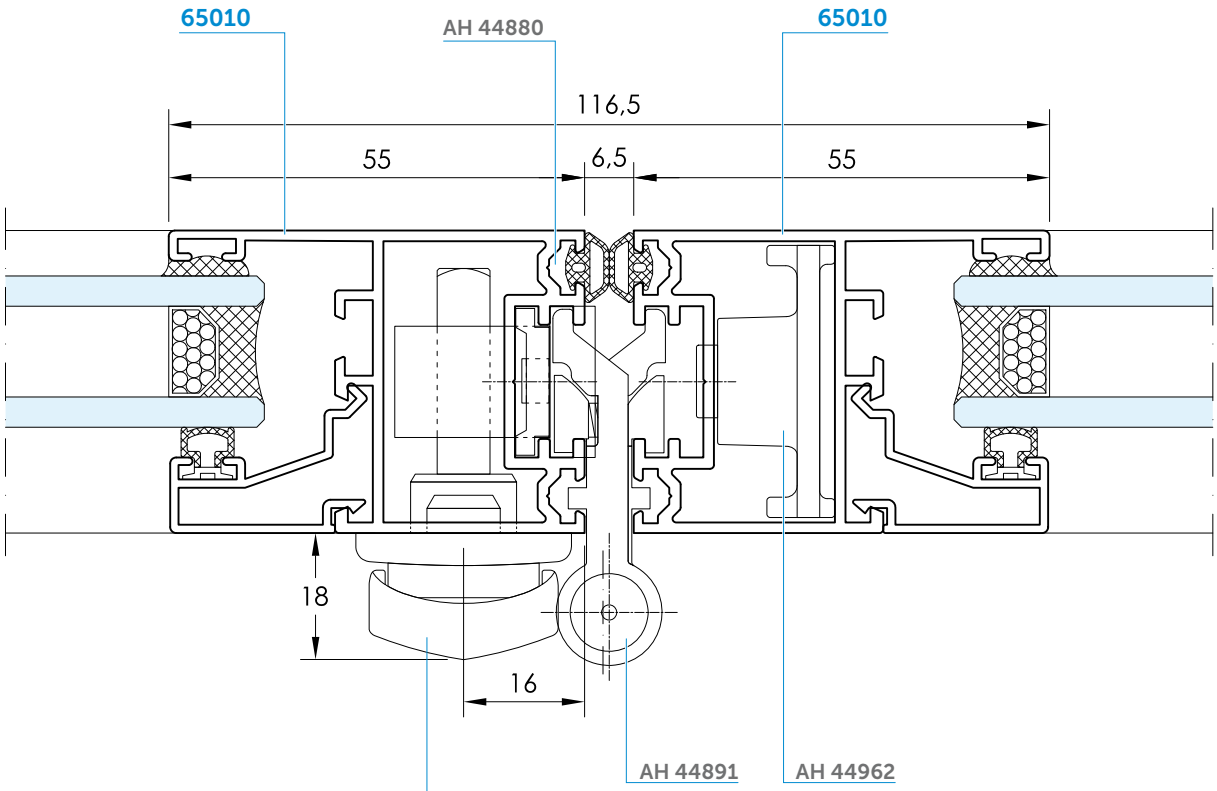


AH 44505

SECCIÓN 2: Nudo intermedio bisagra.

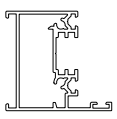
Escala 1/1



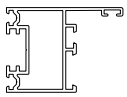


Maneta plana **ACG 2492**
+ Mecanismo **AH 44878**

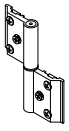
Ver apartado de mecanizados



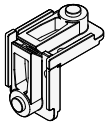
65009



65010



AH 44891



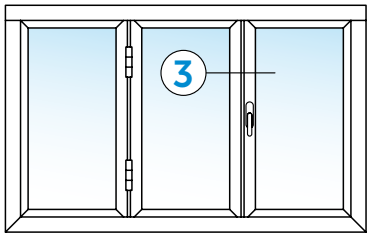
AH 44962

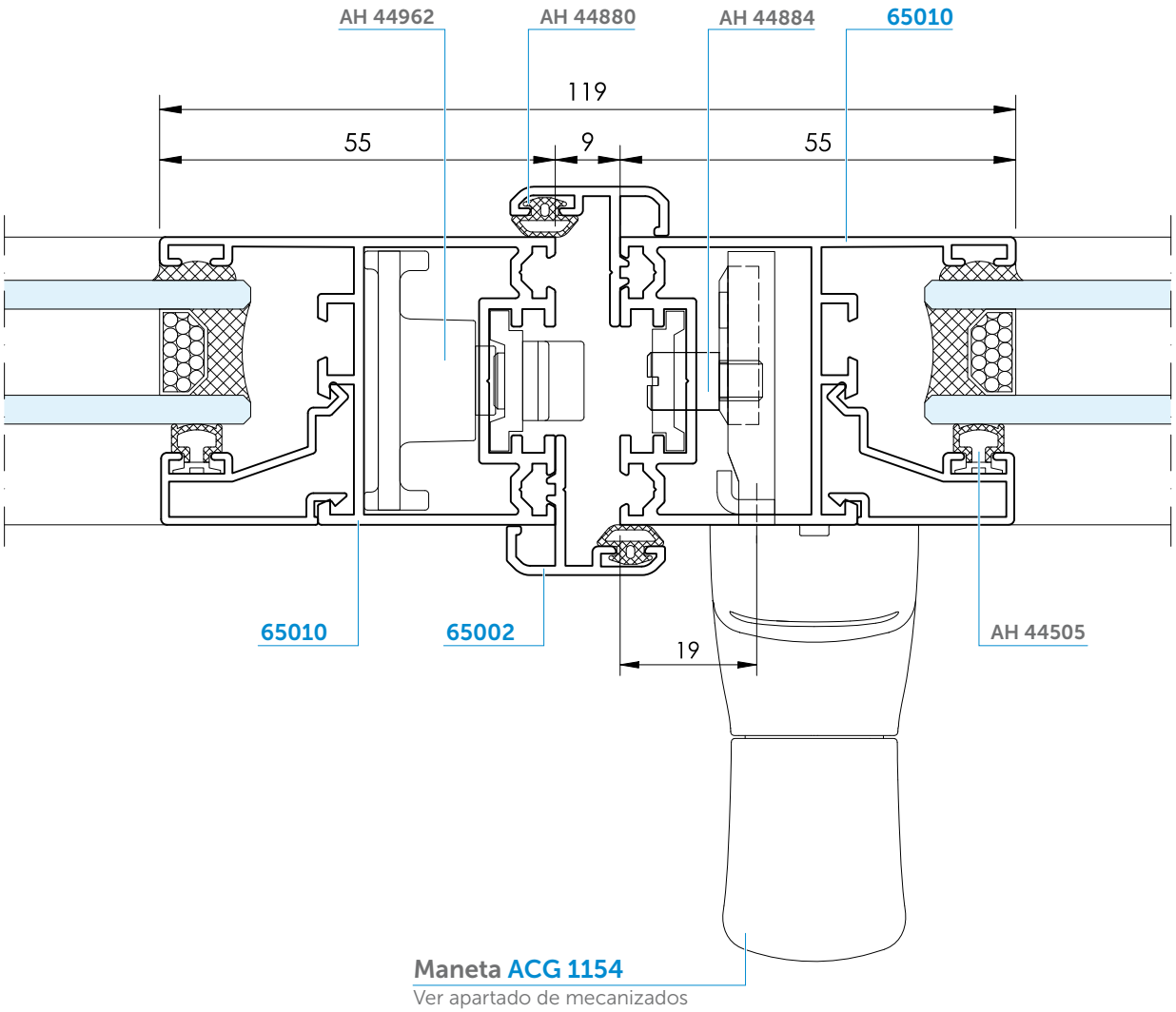


ACG 2492

SECCIÓN 3: Nudo encuentro de hojas.

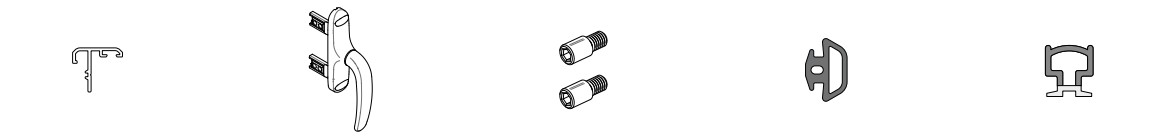
Escala 1/1





Maneta **ACG 1154**

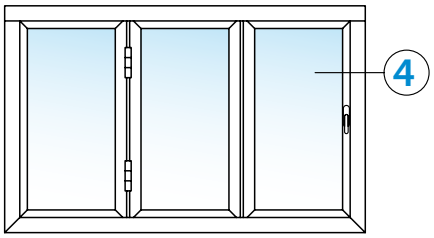
Ver apartado de mecanizados

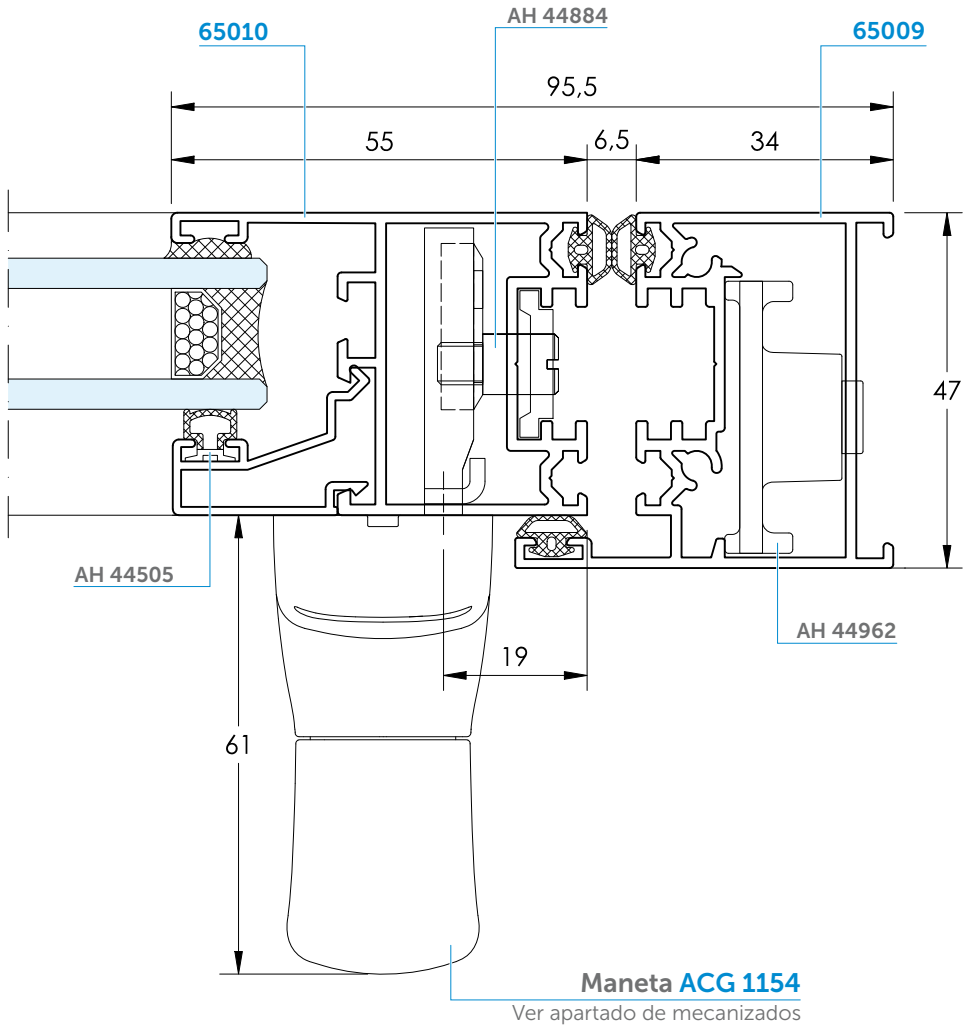


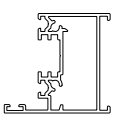
65002	ACG 1154	AH 44884	AH 44880	AH 44505

SECCIÓN 4: Nudo lateral cierre.

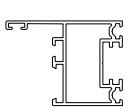
Escala 1/1



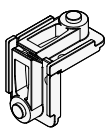




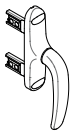
65009



65010



AH 44962



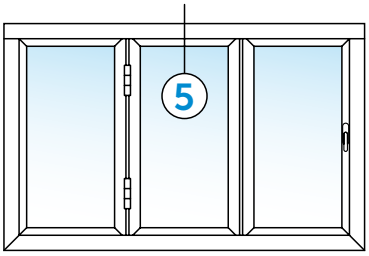
ACG 1154

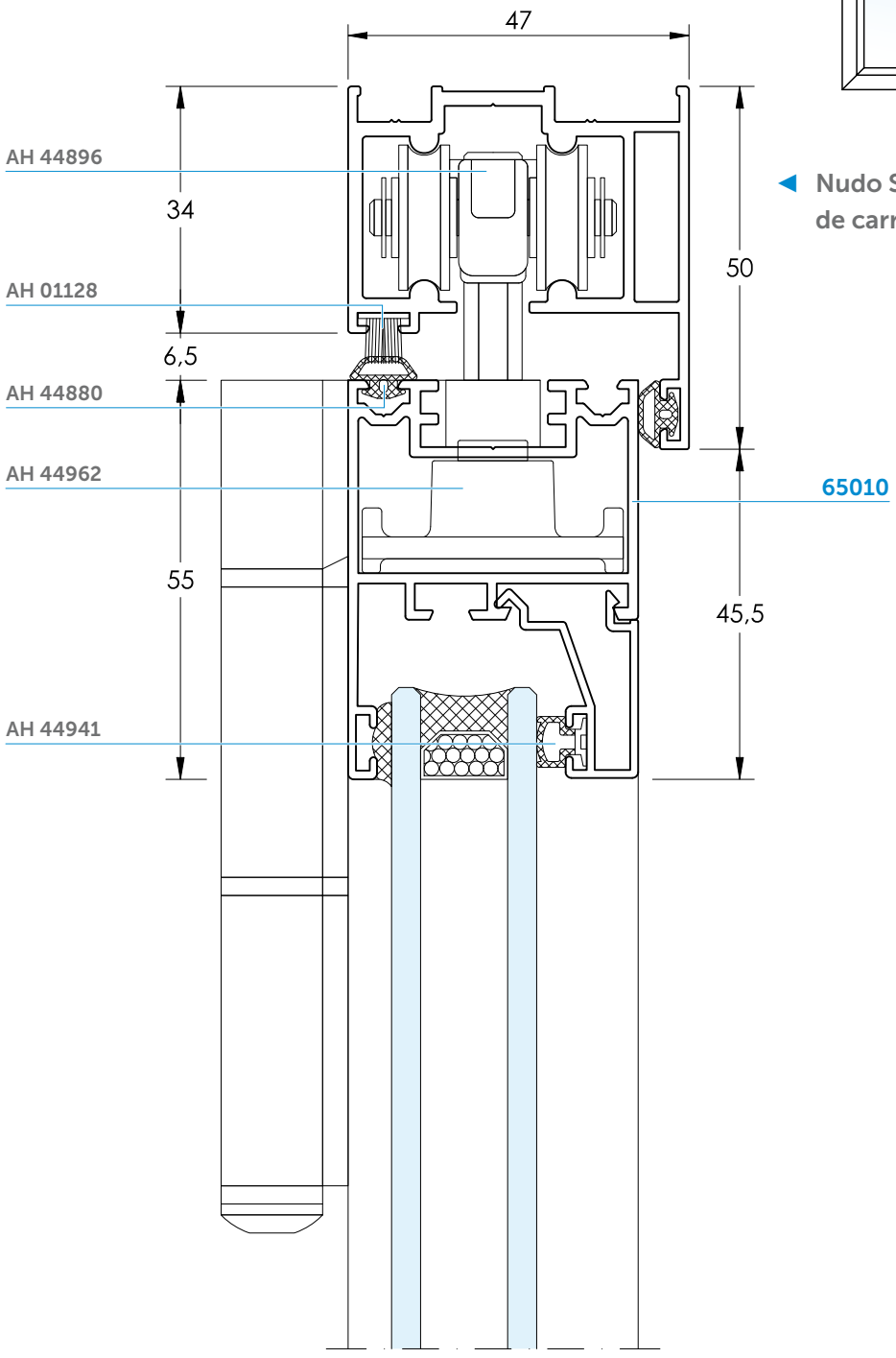


AH 44884

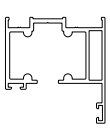
SECCIÓN 5: Nudo superior.

Escala 1/1

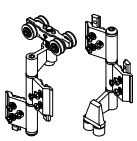




◀ Nudo Superior con guía de carros **65008**



65008



AH 44896



AH 01128



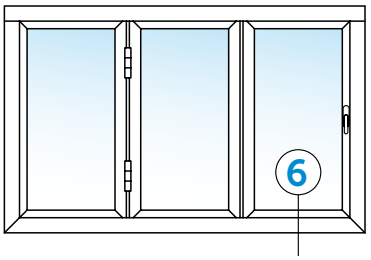
AH 44880

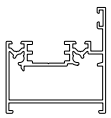


AH 44505

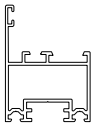
SECCIÓN 6: Nudo inferior.

Escala 1/1

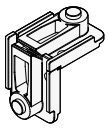




65009



65010



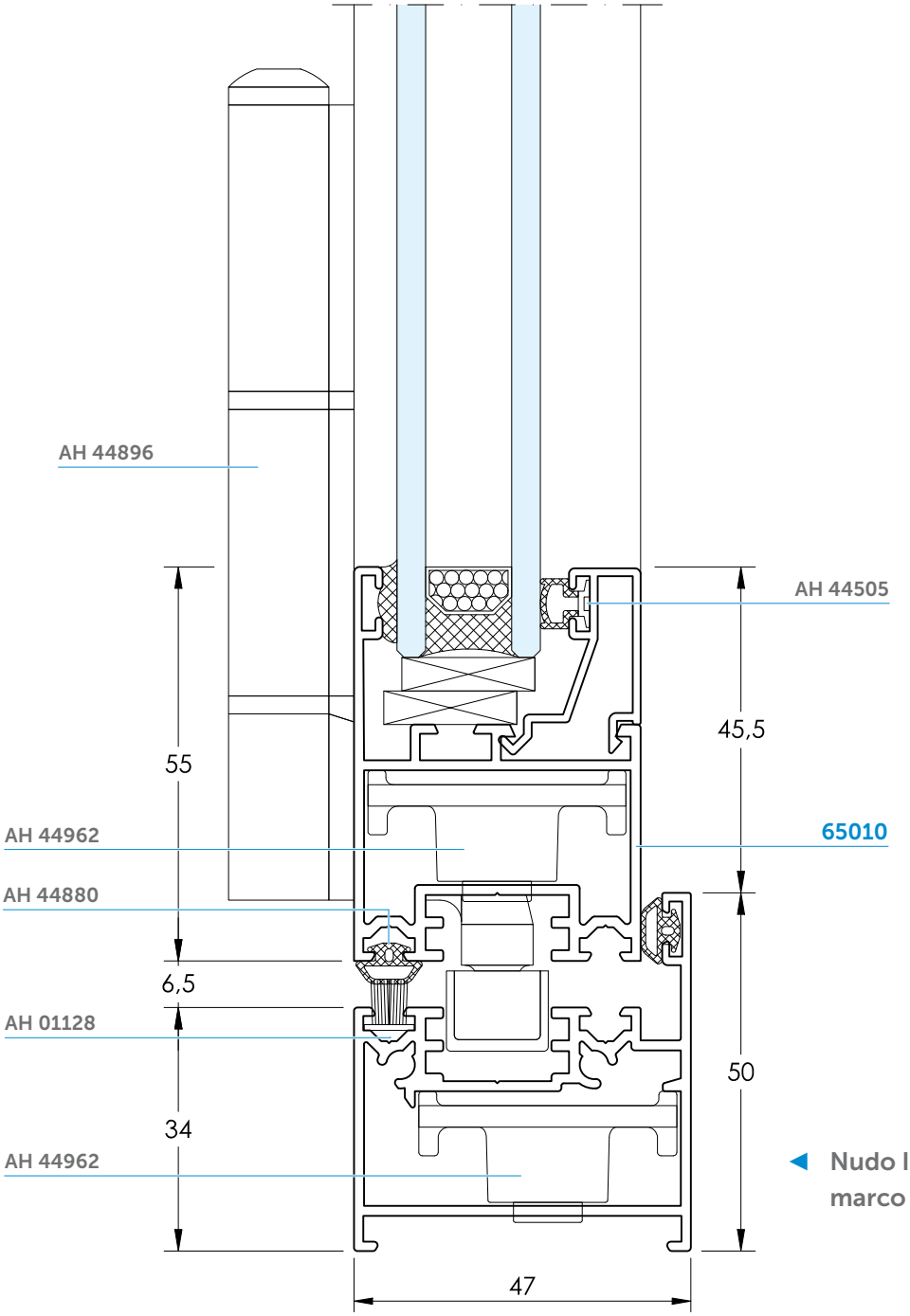
AH 44962



AH 01128



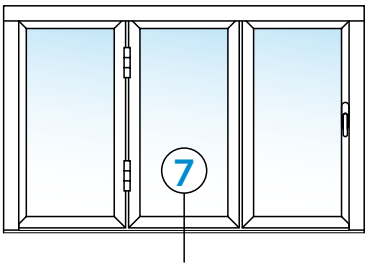
AH 44880



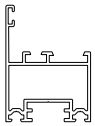
◀ Nudo Inferior con marco **65009**

SECCIÓN 7: Nudo inferior con guía.

Escala 1/1



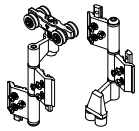
CON GUÍA EMPOTRADA 65013



65010



65013



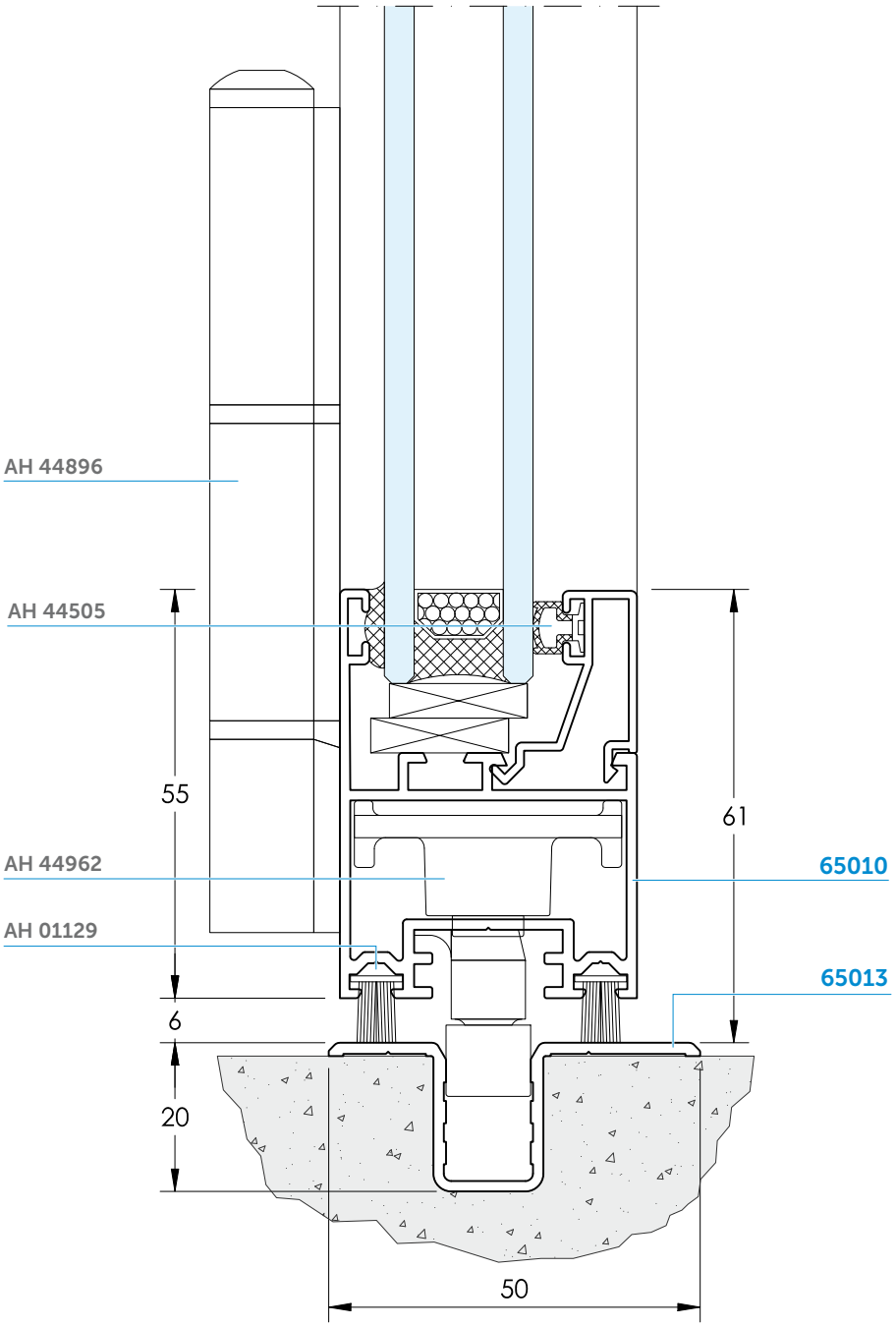
AH 44896



AH 01129

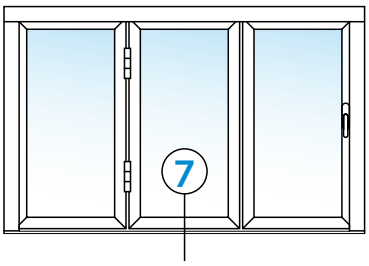


AH 44505

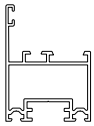


SECCIÓN 7: Nudo inferior con guía.

Escala 1/1



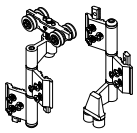
CON GUÍA SUPERPUESTA 65018



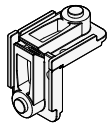
65010



65018



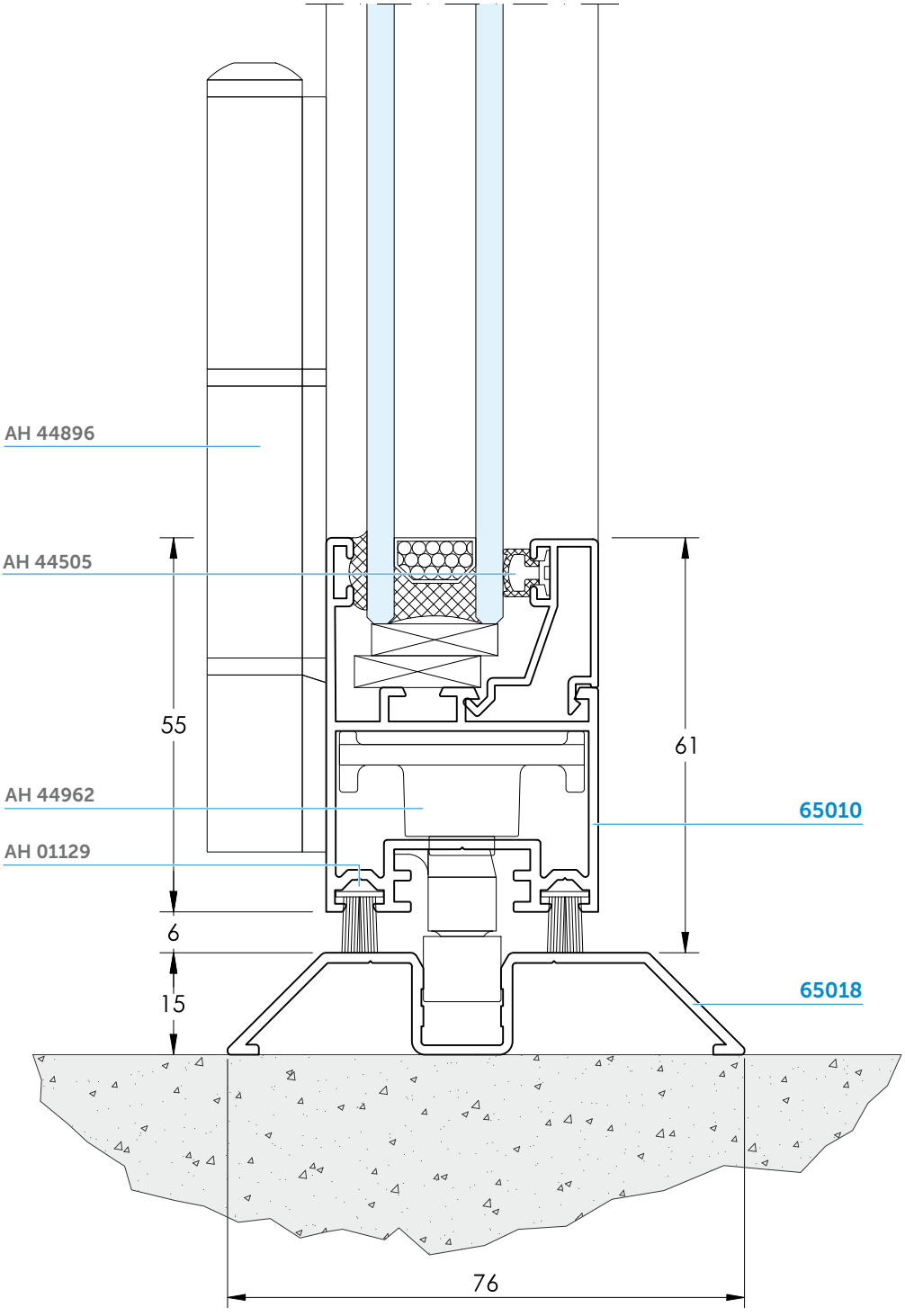
AH 44896



AH 44962

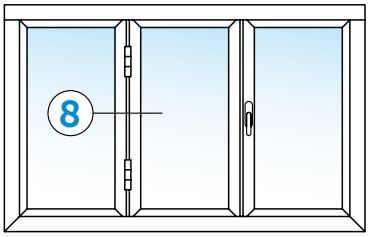


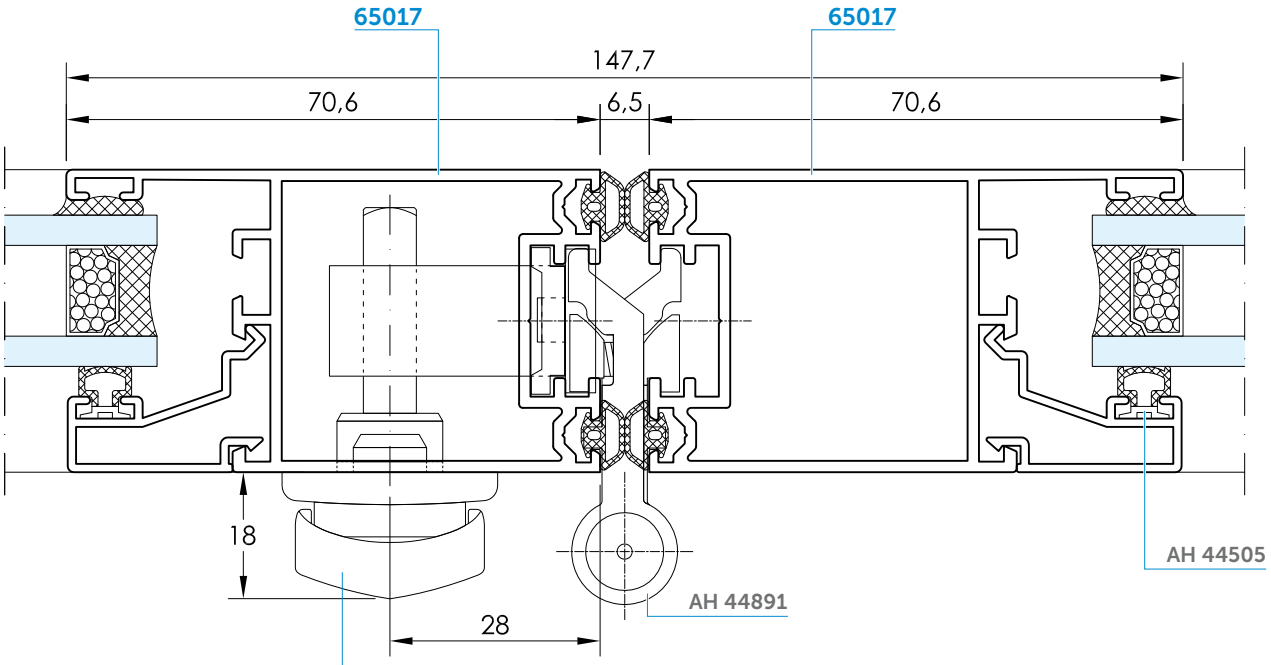
AH 01129



SECCIÓN 8: Nudo intermedio bisagra (hoja de puerta).

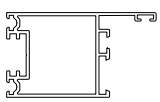
Escala 1/1





Maneta plana ACG 2492
+ Mecanismo AH 44879

Ver apartado de mecanizados



65017



ACG 2492



AH 44891



AH 44880

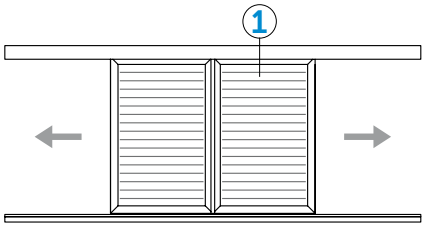


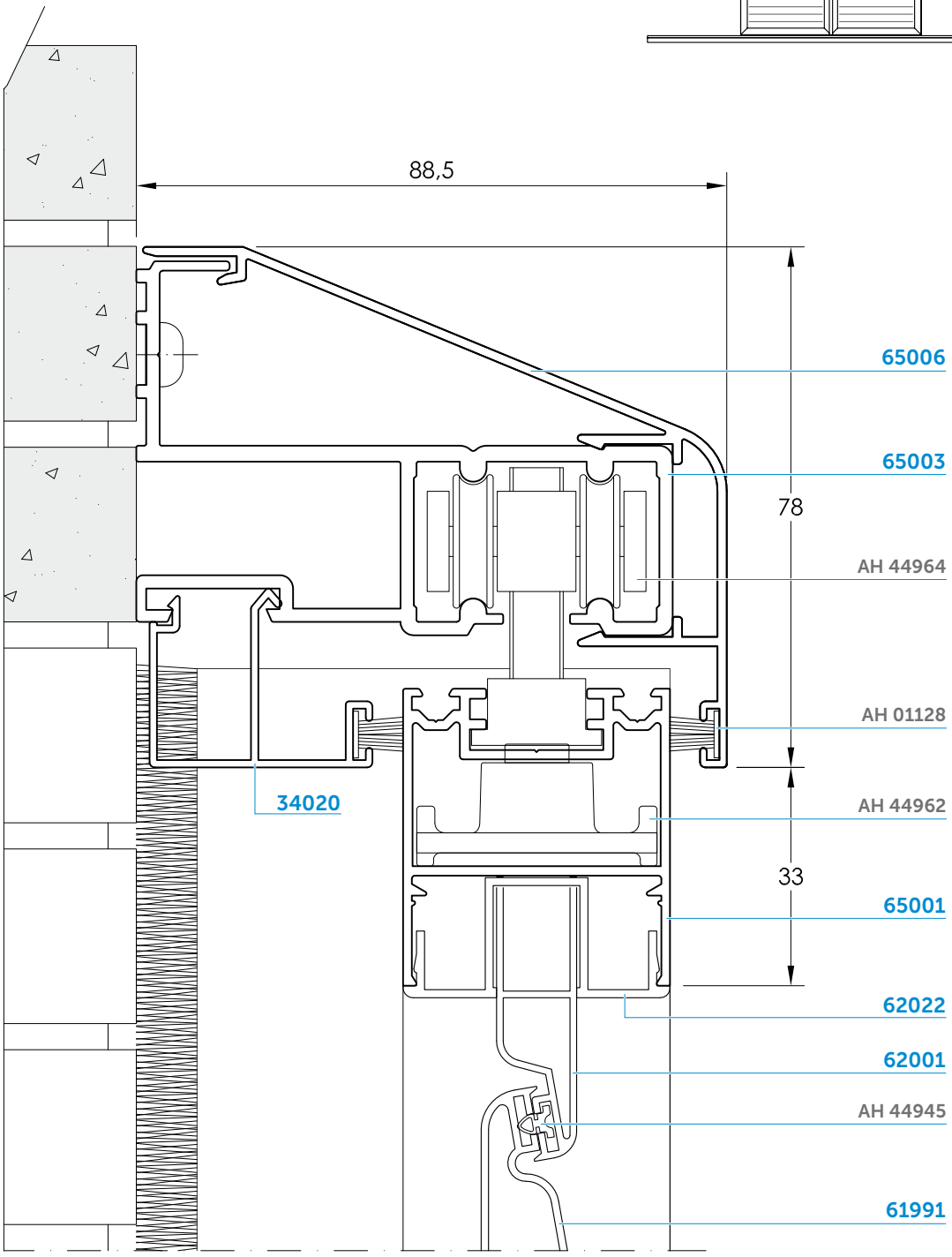
AH 44505

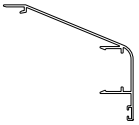
NUDOS
SISTEMA UMBRA
CORREDERA

SECCIÓN 1: NUDO SUPERIOR

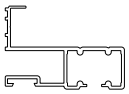
Escala 1/1



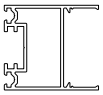




65006



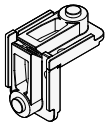
65003



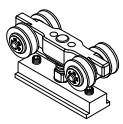
65001



62022



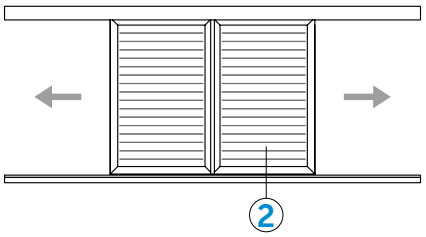
AH 44962



AH 44964

SECCIÓN 2: NUDO INFERIOR

Escala 1/1



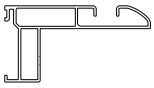
Nudo inferior con "Guía inferior sobre pared 65004"



62001



61991



65004



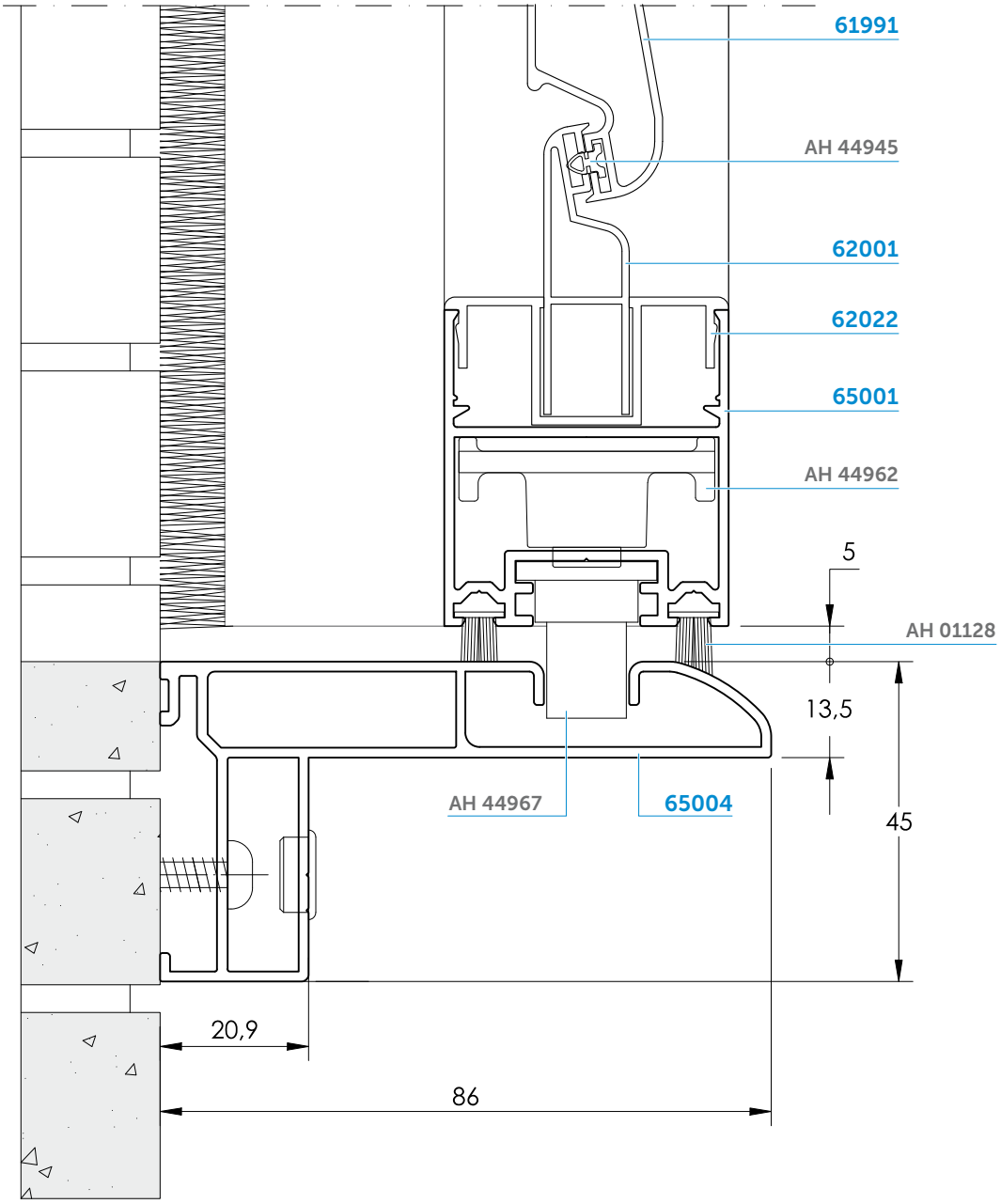
AH 44967



AH 44945

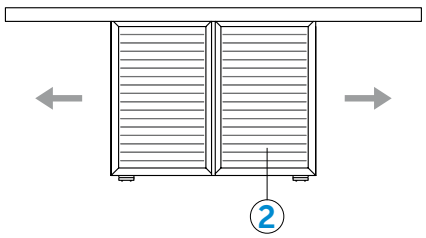


AH 01128

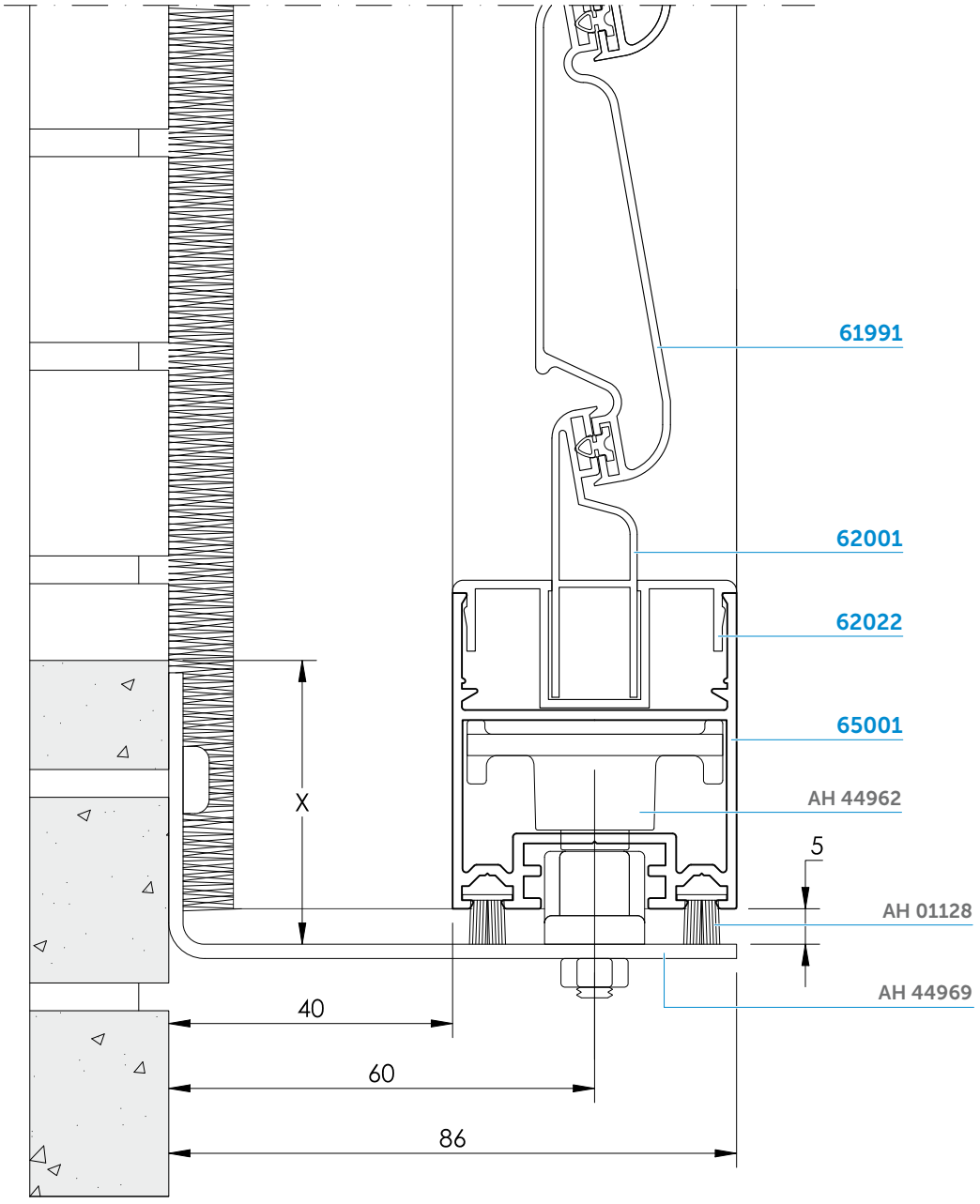


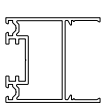
SECCIÓN 2: NUDO INFERIOR

Escala 1/1



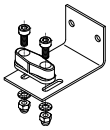
Nudo inferior con accesorio “Soporte Guía Inferior AH 44969”

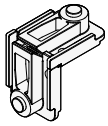



65001


62022


62001


AH 44969

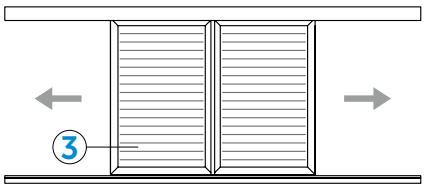

AH 44962

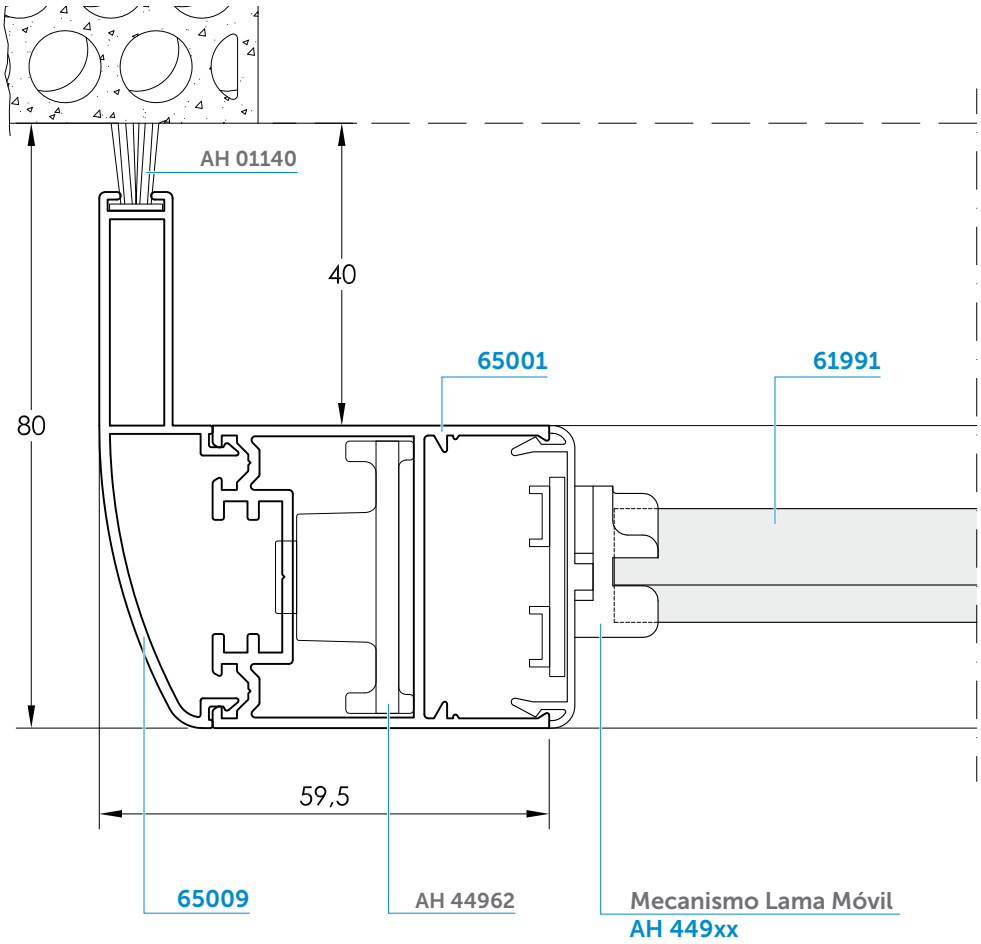


AH 01128

SECCIÓN 3: NUDO LATERAL

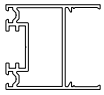
Escala 1/1







65007



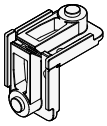
65001



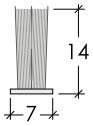
61991



AH 449xx



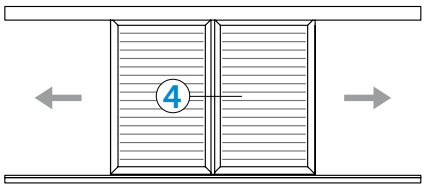
AH 44962

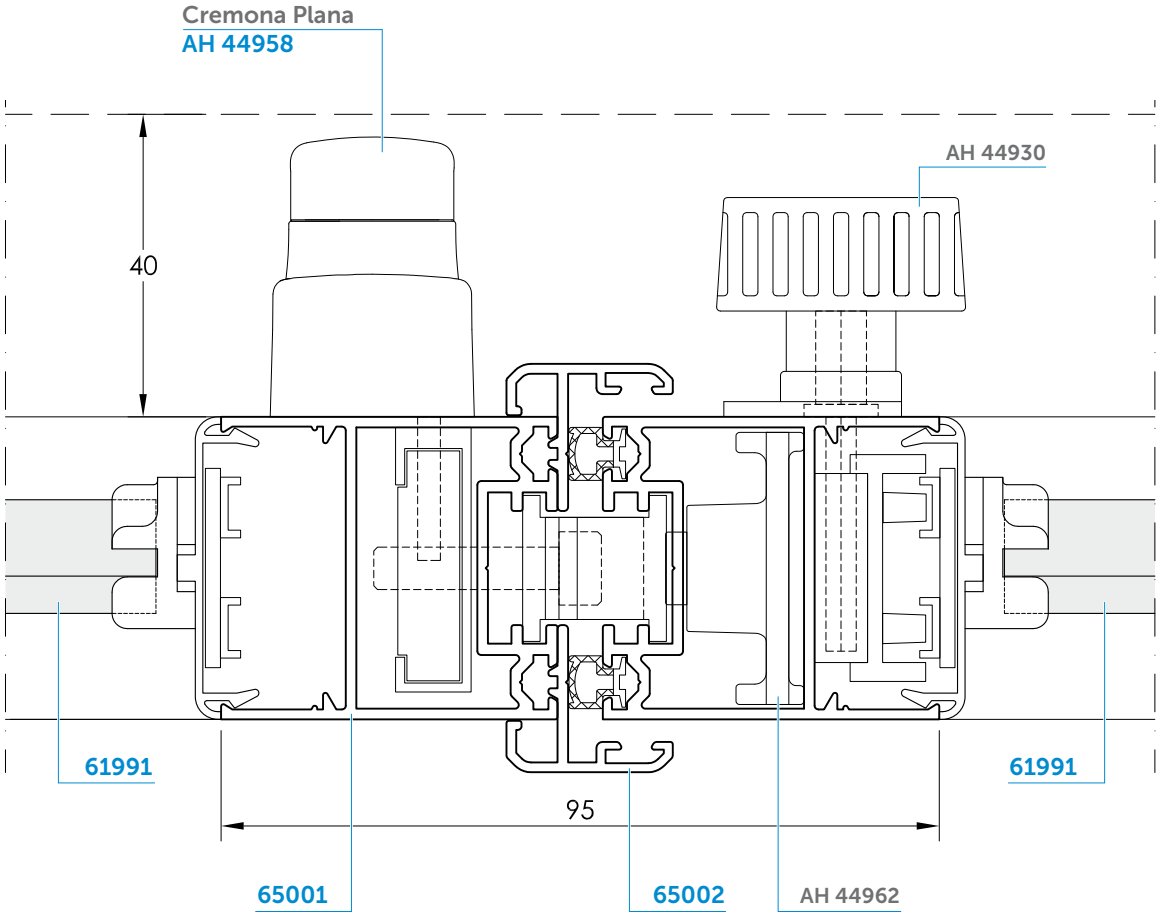


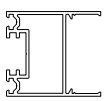
AH 01140

SECCIÓN 4: NUDO CENTRAL

Escala 1/1







65001



65002



AH 44958



AH 449xx



AH 44930



AH 44505



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