

# HINGED THERMAL BRIDGE BREAK

*PRACTICABLE ROTURA*  
*PUENTE TÉRMICO*



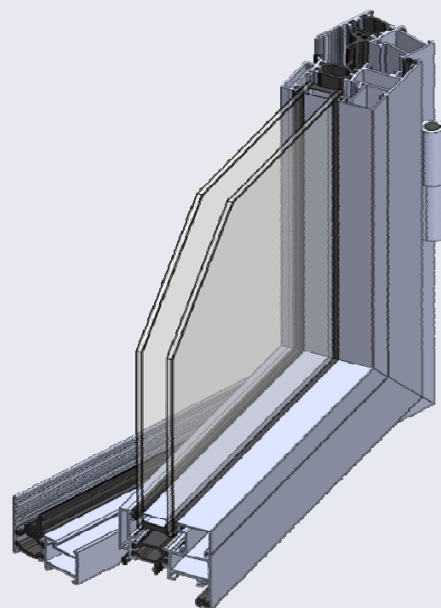
## FICHA TÉCNICA



### SERIE ROTURA DE PUENTE TERMICO

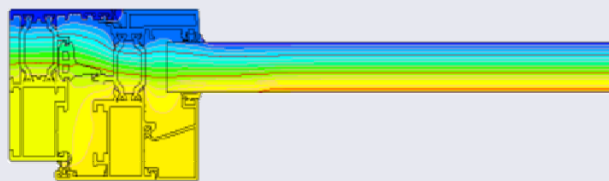
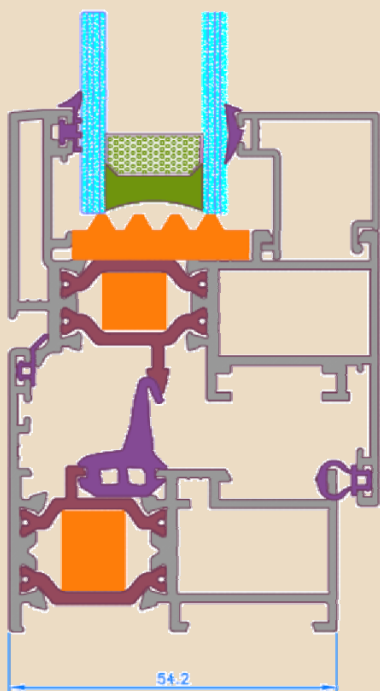
Sistema de carpintería de prestaciones medias-altas, preparado para obtener resultados óptimos dentro de los valores de Eficiencia Energética, por su concepto y diseño su objetivo es obtener una eficiencia energética media estando el coeficiente marco-hoja en  $U_F=2,9 \text{ W/m}^2\text{K}$ .

El Sistema tiene la posibilidad de obtener valores térmicos inferiores en función de los elemento aislante que se inserta en el marco y hoja moviéndose entre  $U_F=2,9 \text{ W/m}^2\text{K}$  a  $U_F=2,4 \text{ W/m}^2\text{K}$



### CARACTERÍSTICAS

**SECCIONES:** Marco: 54 mm. Hoja: 61,2 mm.  
**ESPESOR MEDIO:** 1.4 mm.  
**POLIAMIDA:** 24 mm. en Marco y Hoja.  
**ALTURA GALCE VIDRIO:** 20 mm.  
**HUECO PARA VIDRIO:** Desde 6 mm. hasta 42 mm.  
 Posibilidad de junquillo recto y curvo  
**DIMENSIONES:** Máximo por hoja: 1200 mm. en ancho por 2500 mm. de altura y un peso máximo por hoja de 170 Kg.  
**ACABADOS:** RAL, BICOLOR, TEXTURADOS, MADERAS, ANODIZADOS  
**ENSAYOS:**  
 Ensayos realizados según la norma UNE- EN 14351-1:2006+A1 en laboratorios LGAI TECHNOLOGICAL CENTER Nr. 13/6699-3468.  
 Permeabilidad: Clase 4  
 Estanquidad al agua: Clase AE750  
 Resistencia a carga del viento: Clase C5  
 Permeabilidad al aire para micro ventilación: Clase 1  
**ACUSTICA:** Valor según UNE-EN 14351-1:2006+A1:2011 (Anexo B), es de  $R_w (C;Ctr) 34(-1,-4)dB$



**CALCULO TERMICO**  $U_w=2,2 \text{ W/m}^2\text{K}$  según norma EN.ISO 10077-2:2012 considerando doble acristalamiento (4-16-4 con bajo emisivo )  $U_g = 1,4 \text{ W/m}^2\text{K}$  y dimensiones de ventana 1230 mm de ancho por 1480 mm de altura con varetas aislantes. **Para otras dimensiones consultar transmitancia.**

**VALIDO EN ZONAS CLIMATICAS C.T.E. 2013: A, B, C, D, E**

### MAS INFORMACIÓN

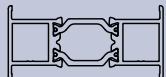
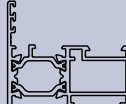
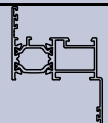
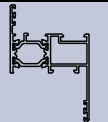
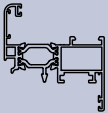
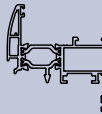
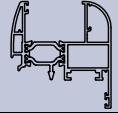
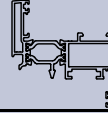
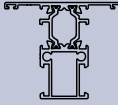
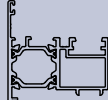
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## Technical Data - *Datos técnicos*

| Reference<br><i>Referencia</i> | Scheme<br><i>Esquema</i>                                                            | Description<br><i>Descripción</i>                               | Weight <i>Peso</i><br>Kg/Mts | Perimeter <i>Perimetro</i> |      |       | Faces<br><i>Caras</i> | Jx<br>cm <sup>4</sup> | Jy<br>cm <sup>4</sup> |
|--------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------|----------------------------|------|-------|-----------------------|-----------------------|-----------------------|
|                                |                                                                                     |                                                                 |                              | ext.                       | int. | total |                       |                       |                       |
| 5420410                        |    | UNIÓN DE MARCOS<br>FRAME UNION                                  | 0,720                        | 23,4                       | 11,2 | 34,6  | 2                     | 1,76                  | 11,78                 |
| 5421410                        |    | WINDOW FRAME<br><i>MARCO VENTANA</i>                            | 0,904                        | 32,5                       | 9,3  | 41,8  | 2                     | 4,33                  | 14,49                 |
| 5421411                        |    | FRAME WITH OVERLAP<br><i>MARCO CON SOLAPE</i>                   | 1,070                        | 41,9                       | 8,8  | 50,7  | 2                     | 6,45                  | 25,30                 |
| 5421412                        |    | STRAIGHT FRAME WITH<br>OVERLAP<br><i>MARCO CON SOLAPE RECTO</i> | 1,067                        | 42,1                       | 8,8  | 50,9  | 2                     | 6,79                  | 24,07                 |
| 5421420                        |   | WINDOW SASH<br><i>HOJA VENTANA</i>                              | 1,099                        | 42,1                       | 9,9  | 52,5  | 2                     | 5,34                  | 25,18                 |
| 5421421                        |  | WINDOW SASH<br><i>HOJA VENTANA</i>                              | 1,144                        | 38,2                       | 15,2 | 53,8  | 1                     | 5,41                  | 26,01                 |
| 5421422                        |  | MUNTIN WINDOW SASH<br><i>HOJA VENTANA AJUNQUILLADA</i>          | 1,342                        | 39,8                       | 22,6 | 62,4  | 3                     | 11,24                 | 27,94                 |
| 5421423                        |  | WINDOW SASH<br><i>HOJA VENTANA</i>                              | 1,183                        | 39,8                       | 14,8 | 54,7  | 2                     | 5,65                  | 27,89                 |
| 5421430                        |  | WINDOW TRANSOM<br><i>TRAVESAÑO VENTANA</i>                      | 1,045                        | 37,7                       | 9,9  | 47,6  | 2                     | 7,42                  | 15,78                 |
| 5421440                        |  | INVERTER PROFILE<br><i>PERFIL INVERSOR</i>                      | 1,043                        | 37,3                       | 9,0  | 46,3  | 2                     | 7,06                  | 16,16                 |

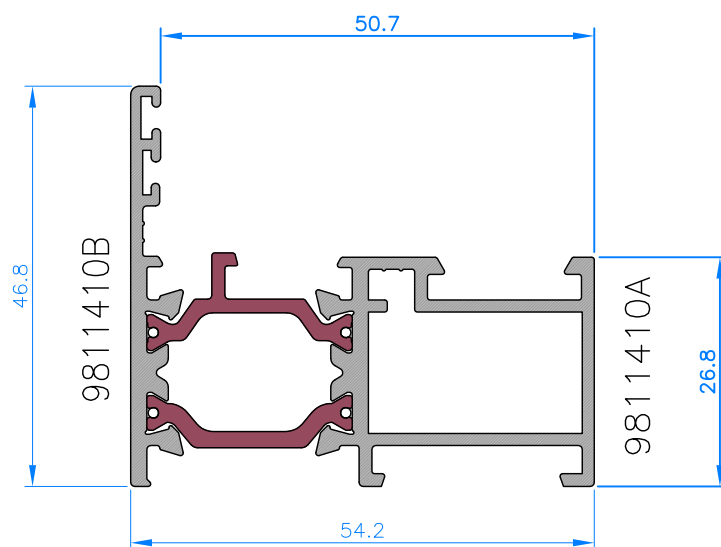


## Technical Data - *Datos técnicos*

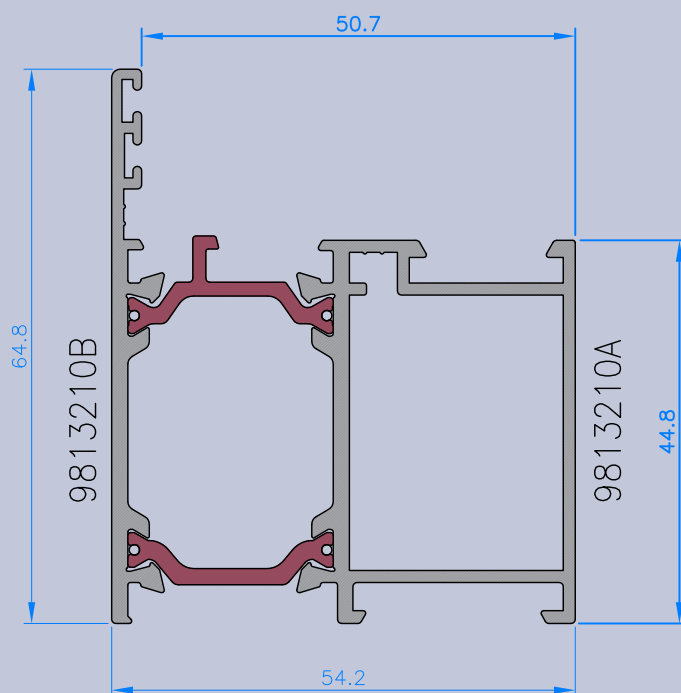
| Reference<br><i>Referencia</i> | Scheme<br><i>Esquema</i> | Description<br><i>Descripción</i>                                          | Weight <i>Peso</i><br>Kg/Mts | Perimeter <i>Perimetro</i><br>ext. int. total |      |      | Faces<br><i>Caras</i> | Jx<br>cm⁴ | Jy<br>cm⁴ |
|--------------------------------|--------------------------|----------------------------------------------------------------------------|------------------------------|-----------------------------------------------|------|------|-----------------------|-----------|-----------|
| 5423210                        |                          | DOOR FRAME<br><i>MARCO PUERTA</i>                                          | 1,150                        | 40,9                                          | 12,5 | 52,4 | 2                     | 14,05     | 19,89     |
| 5423220                        |                          | DOOR FRAME<br><i>MARCO PUERTA</i>                                          | 1,466                        | 50,1                                          | 17,1 | 67,2 | 3                     | 15,16     | 35,98     |
| 5423230                        |                          | DOOR TRANSOM<br><i>TRAVESAÑO PUERTA</i>                                    | 1,299                        | 45,0                                          | 13,5 | 58,5 | 2                     | 19,86     | 21,14     |
| 5423233                        |                          | SKIRTING BOARD<br><i>ZOCALO</i>                                            | 2,245                        | 67,0                                          | 28,4 | 95,4 | 2                     | 34,97     | 139,99    |
| 5424020                        |                          | DOOR SASH<br><i>HOJA PUERTA</i>                                            | 1,666                        | 52,4                                          | 20,7 | 73,2 | 3                     | 21,34     | 45,30     |
| 5424028                        |                          | DOOR SASH<br><i>HOJA PUERTA</i>                                            | 1,645                        | 52,9                                          | 20,8 | 73,7 | 2                     | 21,00     | 45,56     |
| 5424029                        |                          | EXT. OPENING SASH<br><i>HOJA APERTURA EXTERIOR</i>                         | 1,868                        | 57,4                                          | 28,2 | 85,5 | 2                     | 34,31     | 50,59     |
| 940423                         |                          | RAINPROOFING PROFILE<br><i>VIERTAGUAS</i>                                  | 0,142                        | 7,3                                           |      | 7,3  | 1                     | 0,05      | 0,25      |
| 9820415                        |                          | SKIRTING BOARD INF.<br>COMPLEMENT<br><i>SUPLEMENTO INFERIOR<br/>ZOCALO</i> | 0,394                        | 21,9                                          |      | 21,9 | 1                     | 0,69      | 2,11      |



## Profiles - *Perfiles*



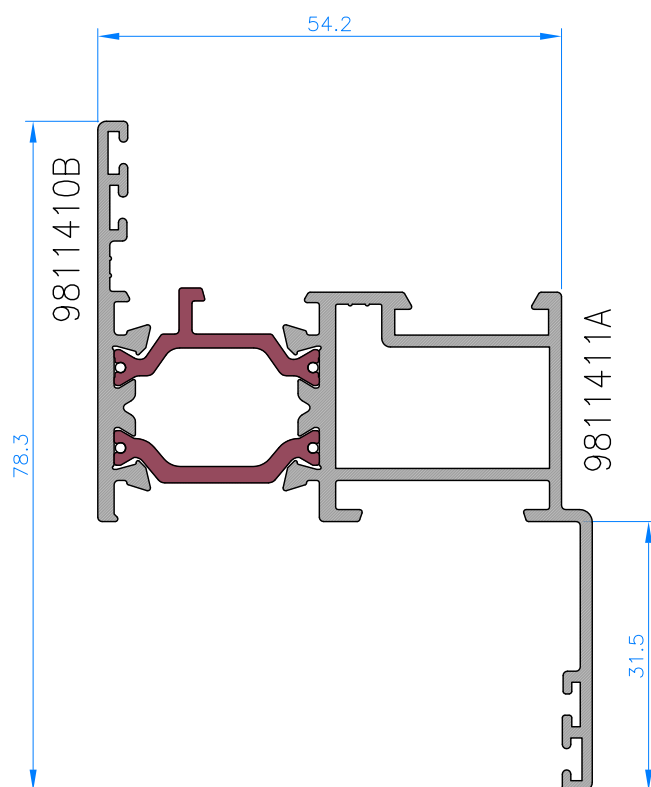
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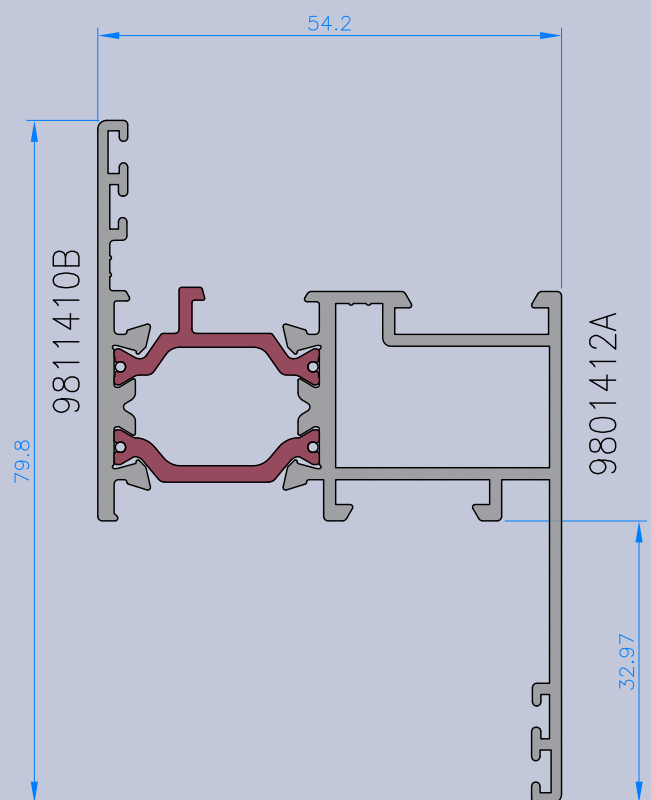
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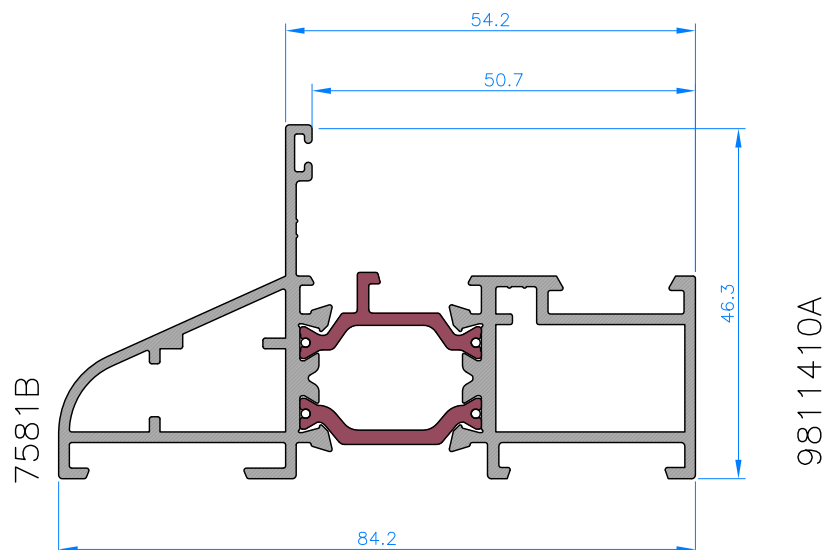
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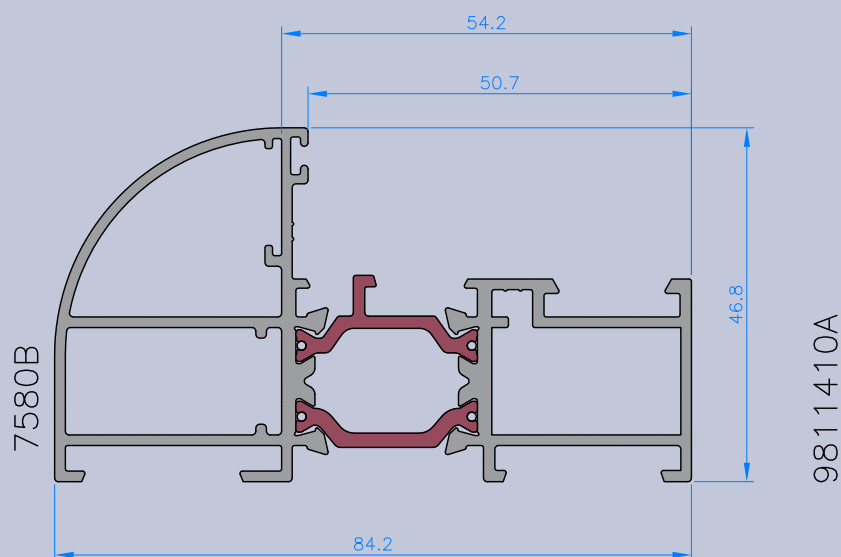
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## Profiles - *Perfiles*



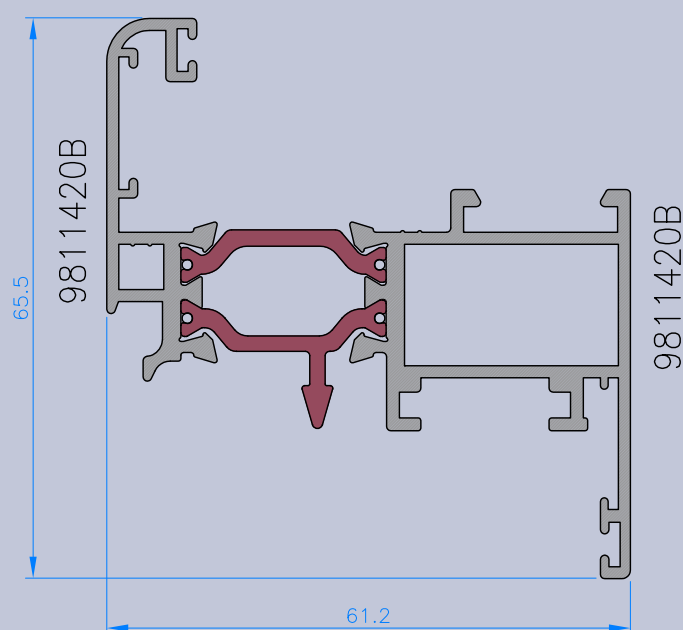
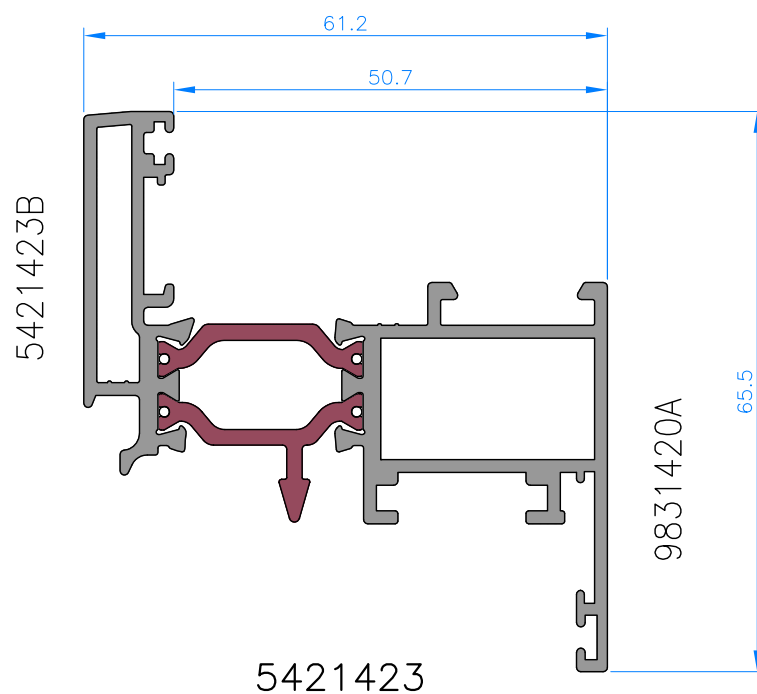
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5421416

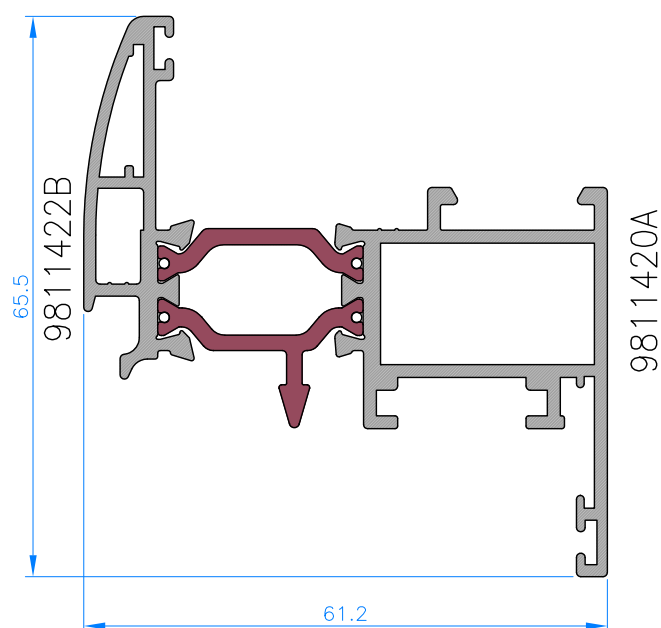


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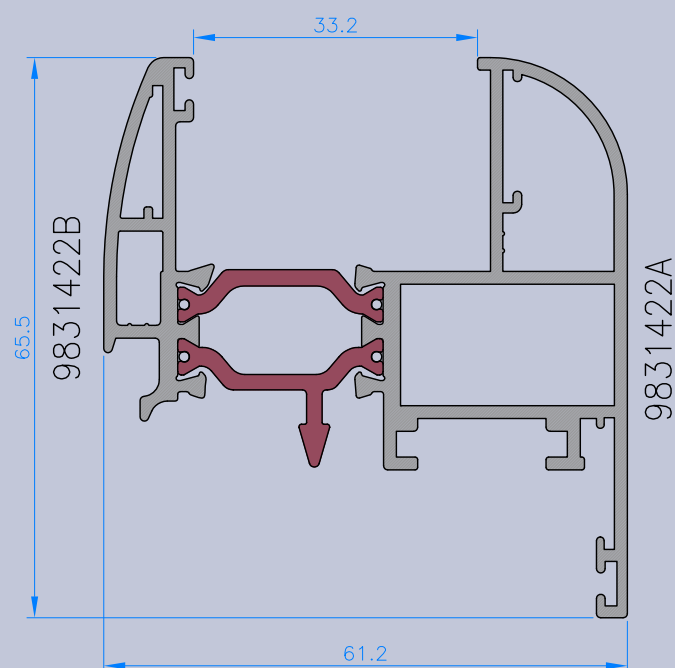




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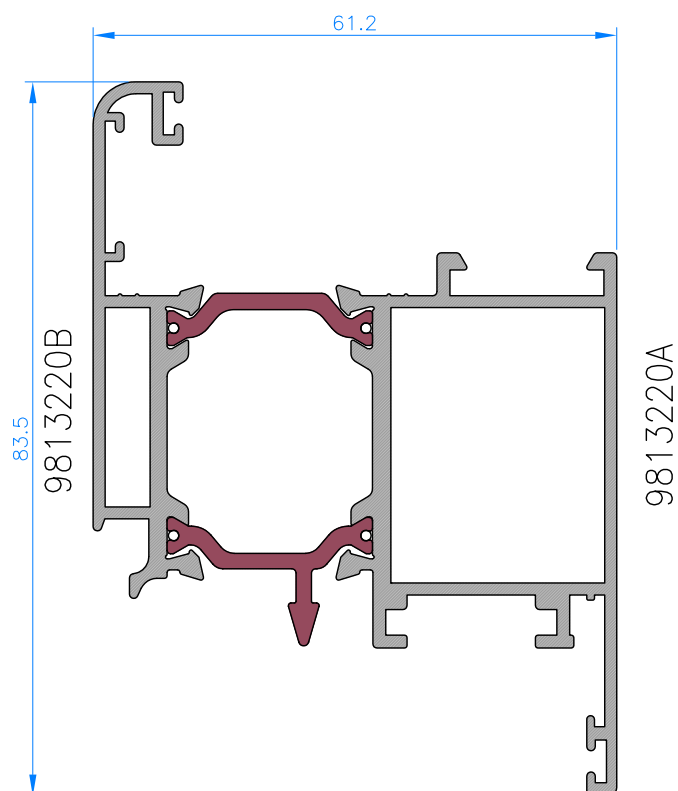
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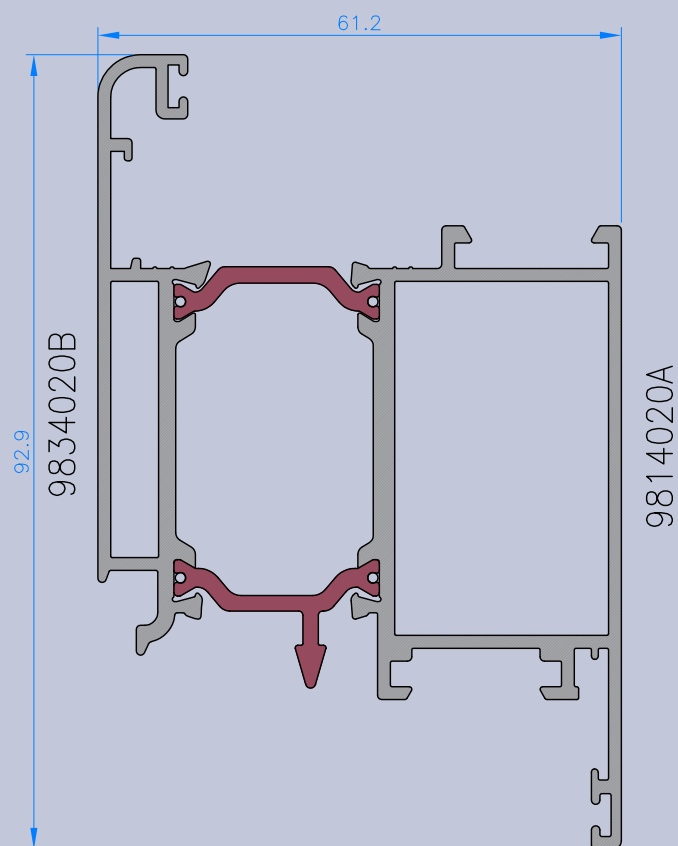
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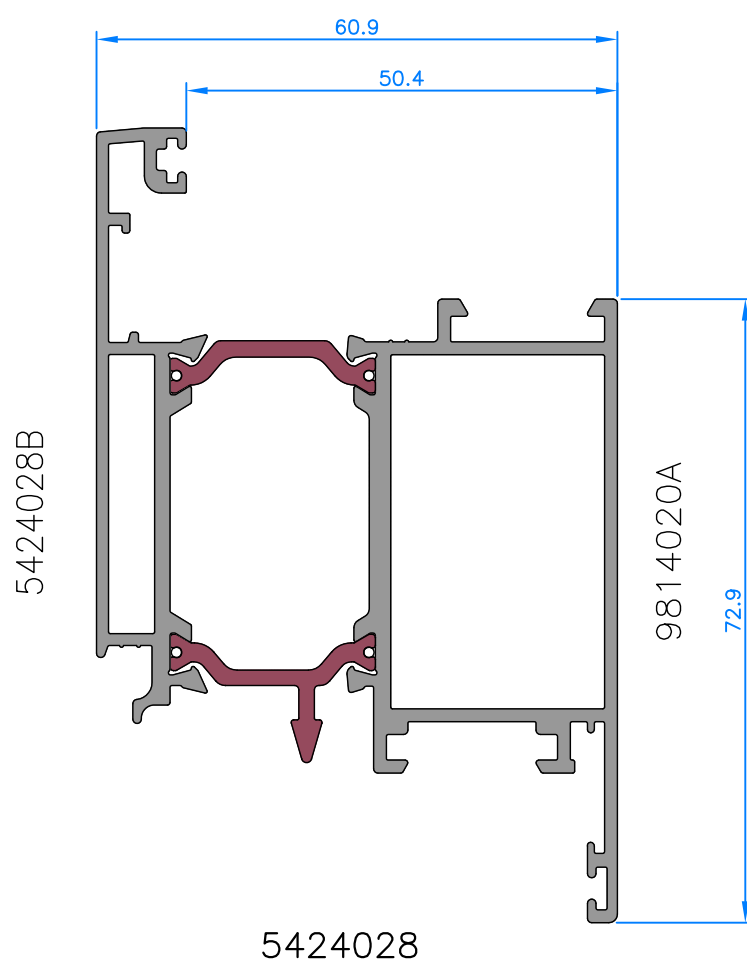
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5424020

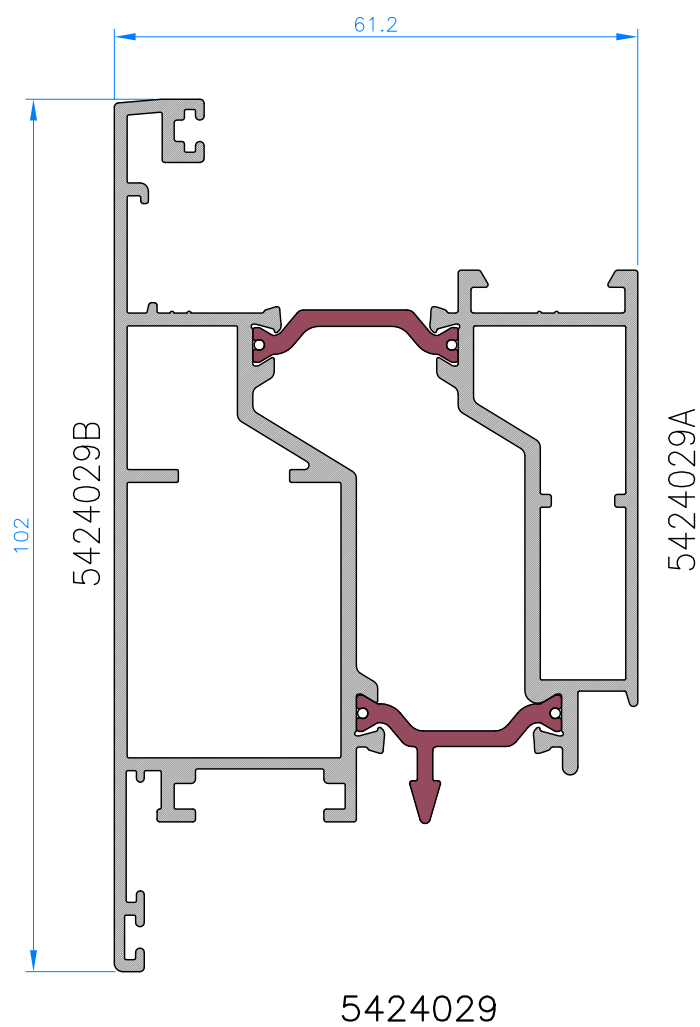


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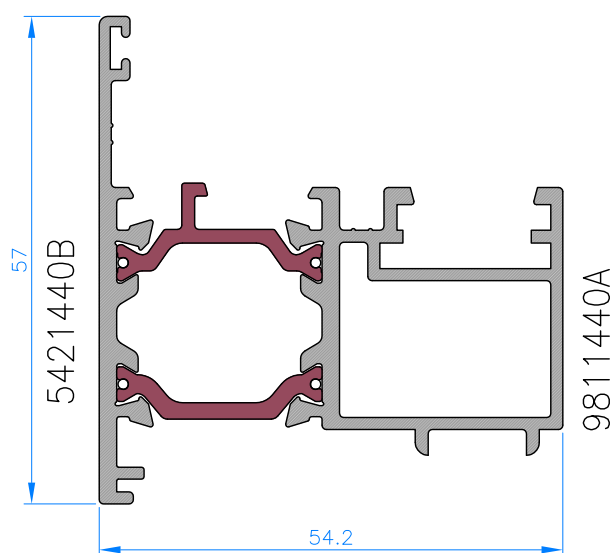


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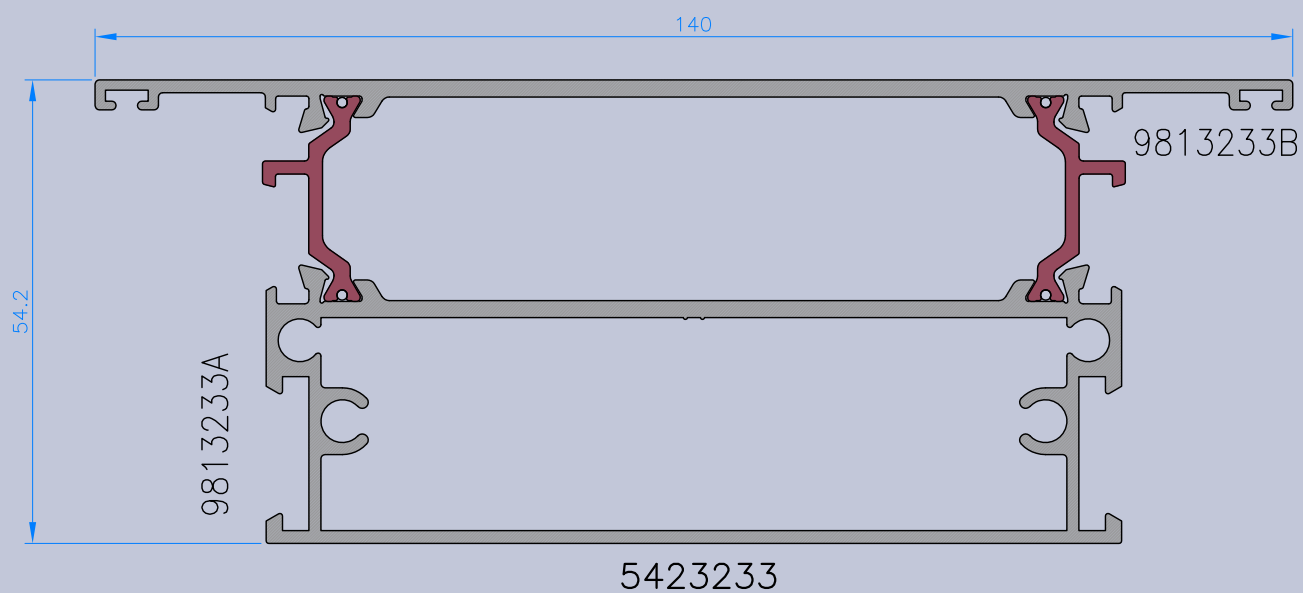
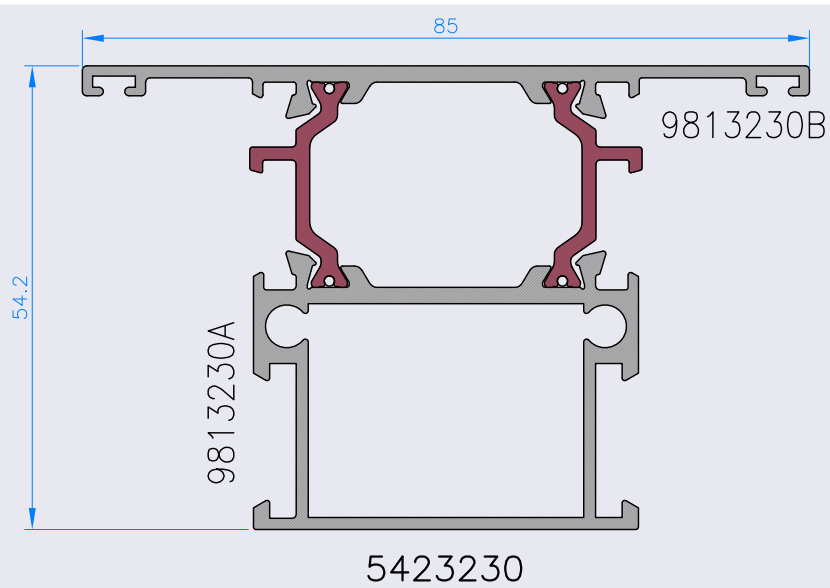
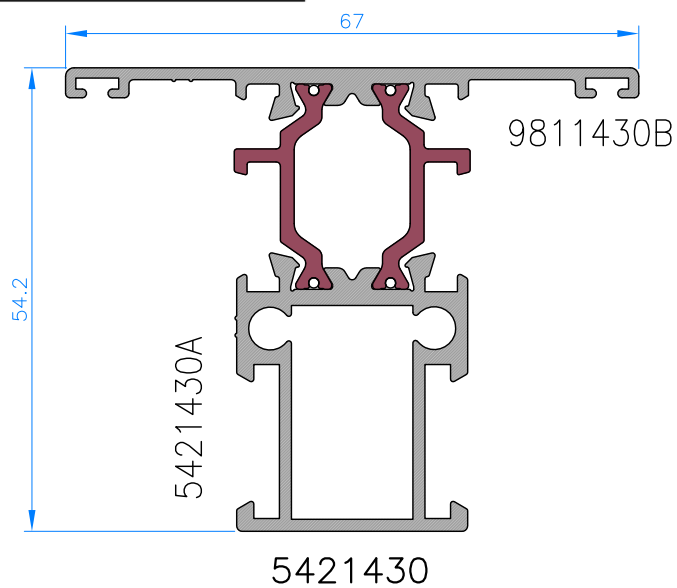
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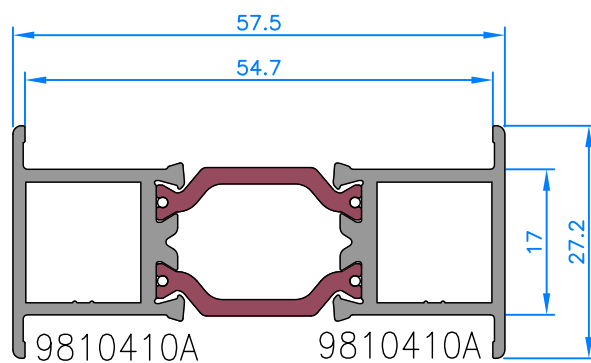


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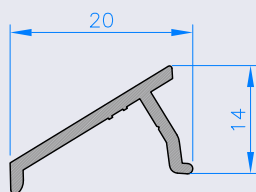




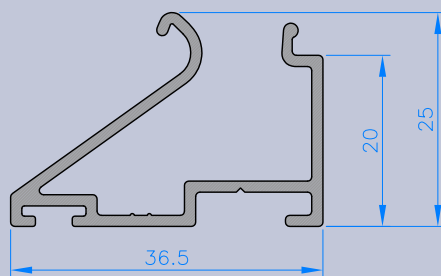
## Profiles - *Perfiles*



5420410



940423



9820415

## Accessories - Accesorios

| ACCESSORIES - ACCESORIOS |                   |                                                                                                                    |
|--------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------|
| CODE<br>CODIGO           | DRAWING<br>FIGURA | DESCRIPTION<br>DESCRIPCIÓN                                                                                         |
| 0540091                  |                   | POLIAMIDE WINDOW SASH BRACKETS<br><i>ESCUADRA HOJA VENTANA POLIAMIDAS</i>                                          |
| 0540101                  |                   | 21X10 BRACKETS OPENING SASH EXT. BALCONY<br><i>ESCUADRA DE 21X10 HOJA APERTURA EXTERIOR BALCONERA</i>              |
| 0940103                  |                   | CENTRAL JOINT BRACKETS<br><i>ESC.JUNTA CENT.VULCAN V-94 / V-98 /v-98RT55</i>                                       |
| 0540141                  |                   | POLIAMIDE WINDOW FRAME BRACKETS<br><i>ESCUADRA MARCO VENTANA POLIAMIDAS</i>                                        |
| 0670141                  |                   | WINDOW EUROPEAN BRACKET 25X14 T-8 V-98 RT SERIES<br><i>ESCUADRA EUROPEA VENTANA 25X14 T-8 SERIE V-98 RT</i>        |
| 0670321                  |                   | BALCONY EUROPEAN BRACKET 32X25 T-8 V-98 RT SERIES<br><i>ESCUADRA EUROPEA BALCONERA 32X25 T-8 SERIE V-98 RT</i>     |
| 0670401                  |                   | EUROPEAN BRACKET C-40 T-8 V-98RT<br><i>ESCUADRA EUROPEA C-40 T-8 V-98 RT</i>                                       |
| 0670611                  |                   | WINDOW EUROPEAN BRACKETS 25X14 T-6 V-98 RT 67 SERIES<br><i>ESCUADRA EUROPEA VENTANA 25X14 T-6 SERIE V-98 RT 67</i> |
| 0670621                  |                   | WINDOW EUROPEAN BRACKETS 25X32 T-6 V-98 RT 67 SERIES<br><i>ESCUADRA EUROPEA VENTANA 25X32 T-6 SERIE V-98 RT 67</i> |

## Accessories - Accesorios

| ACCESSORIES - ACCESORIOS |                                                                                     |                                                                                                                        |
|--------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| CODE<br>CODIGO           | DRAWING<br>FIGURA                                                                   | DESCRIPTION<br>DESCRIPCIÓN                                                                                             |
| 0940705                  |    | STAINLESS ALIGNMENT BRACKETS<br><i>ESCUADRA ALINEAMIENTO INOX.</i>                                                     |
| 0980705                  |    | STAINLESS ALIGN. BRACKETS<br><i>ESCUADRA ALINEAM. HOJA INOX</i>                                                        |
| 0540715                  |    | STRAIGHT SASH WING ALIGN. BRACKETS<br><i>ESCUADRA DE ALINEAMIENTO ALA HOJA RECTA</i>                                   |
| 1350702                  |  | ALIGN. BRACKETS ELEVABLE SASH AND HIDDEN SASH FRAME<br><i>ESCUADRA ALINEAMIENTO HOJA ELEVABLES Y MARCO HOJA OCULTA</i> |
| 0982141                  |  | EUROPEAN JOINT 14X18<br><i>UNION EUROPEA 14X18</i>                                                                     |
| 0982321                  |  | EUROPEAN JOINT 32X18 mm<br><i>UNION EUROPEA 32X18 MM</i>                                                               |
| 0942401D                 |  | EUROPEAN OVERLAPPING HINGE RIGHT-LEFT<br><i>BISAGRA SOBREPUESTA EUROPEA DCHA. -IZDA.</i>                               |
| 0942421                  |  | HINGE 2nd SAHS BALANCE PRISMA<br><i>JUEGO BISAGRA 2ª HOJA O. B. PRISMA</i>                                             |

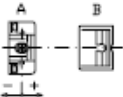
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| ACCESSORIES - ACCESORIOS |                   |                                                                            |
|--------------------------|-------------------|----------------------------------------------------------------------------|
| CODE<br>CODIGO           | DRAWING<br>FIGURA | DESCRIPTION<br>DESCRIPCIÓN                                                 |
| 0942601                  |                   | 3rd SASH HINGE<br>EUROPEAN CHANNEL<br><i>BISAGRA 3ª HOJA C.E.</i>          |
| 0942651                  |                   | 4 SASH HINGE<br>EUROPEAN CHANNEL<br><i>BISAGRA 4 HOJAS C.E.</i>            |
| 0942721                  |                   | DOOR HINGE<br>EUROPEAN CHANNEL<br><i>BISAGRA DE PUERTA C.E.</i>            |
| 0942731                  |                   | THREE BODIES HINGE<br>EUROPEAN CHANNEL<br><i>BISAGRA TRES CUERPOS C.E.</i> |
| 0943113                  |                   | WATER EXIT<br><i>SALIDA DE AGUA</i>                                        |
| 0543133                  |                   | INVERTER PROFILE CAPS<br><i>TAPAS PERFIL INVERSOR</i>                      |
| 0943203                  |                   | CURVED MUNTIN STAPLE<br><i>GRAPA JUNQUILLO CURVO</i>                       |

## Accessories - Accesorios

| ACCESSORIES - ACCESORIOS |                   |                                                                                                                                            |
|--------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| CODE<br>CODIGO           | DRAWING<br>FIGURA | DESCRIPTION<br>DESCRIPCIÓN                                                                                                                 |
| 0943431                  |                   | REMOVABLE ABATIBLE COMPAS<br><i>JUEGO COMPAS ABATIBLE DESMONTABLE</i>                                                                      |
| 0943441                  |                   | SUPPLEMENTARY BALANCE COMPAS<br><i>COMPAS SUPLEMENTARIO O.B.</i>                                                                           |
| 0943450                  |                   | SUPER REDUCED BALANCE COMPAS<br><i>COMPAS SUPER REDUCIDO O.B.</i>                                                                          |
| 0943460                  |                   | SHORT BALANCE COMPAS<br><i>COMPAS CORTO O.B.</i>                                                                                           |
| 0943470                  |                   | NORMAL BALANCE COMPAS<br><i>COMPAS NORMAL O.B.</i>                                                                                         |
| 0943500                  |                   | BALANCE PRISMA DUE EUROPEAN CHANNEL KIT<br><i>KIT OSCIOBATIENTE PRISMA DUE C.E.</i>                                                        |
| 0944012                  |                   | 2 BLADES HANDLE EUROPEAN CHANNEL<br><i>CREMONA 2 PALAS PRACTICABLE C.E.</i>                                                                |
| 0944032                  |                   | EXT. OPENNING HANDLE CREMONA APERTURA EXTERIOR                                                                                             |
| 0944062                  |                   | EXT. OPENNING HANDLE FLEXIFIN SQUARE NUT<br>7mm X 70mm LONG<br><i>MANETA APERTURA EXTERIOR FLEXIFIN CUADRADILLO DE 7 MM. X 70 DE LARGO</i> |
| 0944412                  |                   | FLEXIPOR HANDLE<br><i>MANILLA FLEXIPOR</i>                                                                                                 |
|                          |                   | DAI SYSTEM                                                                                                                                 |
|                          | V-94              |                                                                                                                                            |
|                          | V-98              |                                                                                                                                            |
|                          | V-98RT45          |                                                                                                                                            |
|                          | SM-54RT           |                                                                                                                                            |
|                          | V-98RT67          |                                                                                                                                            |
|                          | SM65 OCULTA       |                                                                                                                                            |
|                          | SM-85RT           |                                                                                                                                            |
|                          | SM-95 RF+AB       |                                                                                                                                            |
|                          | 42200             |                                                                                                                                            |
|                          | MALLORQUINA       |                                                                                                                                            |
|                          | MALL-COR          |                                                                                                                                            |
|                          | P50               |                                                                                                                                            |
|                          | IMURO             |                                                                                                                                            |
|                          | CONTRAVENTANA     |                                                                                                                                            |
|                          | I2300             |                                                                                                                                            |
|                          | I640              |                                                                                                                                            |
|                          | I700              |                                                                                                                                            |
|                          | I800              |                                                                                                                                            |
|                          | IGV909            |                                                                                                                                            |
|                          | IC60              |                                                                                                                                            |
|                          | IC70              |                                                                                                                                            |
|                          | IC75RT            |                                                                                                                                            |
|                          | IELV100           |                                                                                                                                            |
|                          | ISM-100RT         |                                                                                                                                            |
|                          | ISM-135RT         |                                                                                                                                            |
|                          | IUSTICA           |                                                                                                                                            |
|                          | IS35              |                                                                                                                                            |
|                          | IBARANA           |                                                                                                                                            |
|                          | IBARANDIA         |                                                                                                                                            |

## Accessories - Accesorios

| ACCESSORIES - ACCESORIOS |                                                                                     |                                                                                                    |
|--------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| CODE<br>CODIGO           | DRAWING<br>FIGURA                                                                   | DESCRIPTION<br>DESCRIPCIÓN                                                                         |
| 0946513                  |    | 1 SASH KIT PRACTICAL<br><i>KIT 1 HOJA PRACTICABLE</i>                                              |
| 0946533                  |    | 2nd SASH KIT PASSIVE<br><i>KIT 2ª HOJA PASIVA</i>                                                  |
| 0946542                  |    | 2nd SASH KIT BALANCE PIN<br><i>KIT 2ª HOJA PASADOR O. B.C/EXCENT. REGULABLE</i>                    |
| 0946564                  |  | BIDIRECTIONAL MECHANISM FOR EXT. OPENNING<br><i>MECANISMO BIDIRECCIONAL PARA APERTURA EXTERIOR</i> |
| 0946570                  |  | MICROVENTILATION MECHANISM<br><i>MECANISMO MICROVENTILACION</i>                                    |
| 0946712                  |  | SUPPLEMENTARY VERTICAL LOCKING<br><i>CIERRE SUPLEMENTARIO VERTICAL</i>                             |
| 0946722                  |  | SUPPLEMENTARY HORIZONTAL LOCKING ANTILEVER<br><i>CIERRE SUPLEMENTARIO HORIZONTAL ANTIPALANCA</i>   |
| 0946742                  |  | ADJUSTABLE LOCKING 3 POINTS HINGE SIDE<br><i>CIERRE REGUL.3 PTO. LADO BISAGRAS V-94</i>            |



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| ACCESSORIES - ACCESORIOS |                   |                                                                                   | DAI SYSTEM | V-94 | V-98 | V-98RT45 | SM-54RT | V-98RT67 | SM65 OCULTA | SM-85RT | SM-95 RF+AB | 42200 | MALLORQUINA | MALL-COR | IP50 | MURO | CONTRAVENTANA | 2300 | 640 | 700 | 800 | GV909 | C60 | C70 | C75RT | ELV100 | SM-100RT | SM-135RT | RUSTICA | IS35 | BARANA | BARANDILLA |
|--------------------------|-------------------|-----------------------------------------------------------------------------------|------------|------|------|----------|---------|----------|-------------|---------|-------------|-------|-------------|----------|------|------|---------------|------|-----|-----|-----|-------|-----|-----|-------|--------|----------|----------|---------|------|--------|------------|
| CODE<br>CODIGO           | DRAWING<br>FIGURA | DESCRIPTION<br>DESCRIPCIÓN                                                        |            |      |      |          |         |          |             |         |             |       |             |          |      |      |               |      |     |     |     |       |     |     |       |        |          |          |         |      |        |            |
| 0858076                  |                   | CASEMENT JOINT<br>JUNTA BATIENTE                                                  |            | •    | •    | •        | •       | •        |             | •       |             |       |             |          |      |      |               |      |     |     |     |       |     |     |       |        |          |          |         |      |        |            |
| 0948076                  |                   | SASH CASEMENT JOINT<br>JUNTA BATIENTE HOJA                                        |            | •    | •    | •        | •       | •        |             |         |             |       |             |          |      |      |               |      |     |     |     |       |     |     |       |        |          |          |         |      |        |            |
| 0548106                  |                   | CENTRAL JOINT<br>JUNTA CENTRAL                                                    |            |      |      |          |         | •        |             |         |             |       |             |          |      |      |               |      |     |     |     |       |     |     |       | •      |          |          |         |      |        |            |
| 0678106                  |                   | RUBBER JOINT CENTRAL<br>FRAME V98RT45mm<br>JUNTA GOMA MARCO<br>CENTRAL V98RT45mm  |            |      |      |          | •       | •        |             |         |             |       |             |          |      |      |               |      |     |     |     |       |     |     |       |        |          |          |         |      |        |            |
| 0948126                  |                   | INF. RUBBER DOOR<br>SKIRTING BOARD<br>GOMA INFERIOR<br>ZOCALO PUERTA              |            | •    | •    | •        | •       | •        |             |         |             |       |             |          |      |      |               |      |     |     |     |       |     |     |       |        |          |          |         |      |        |            |
| 0858206                  |                   | 5 mm EXT. GLAZING<br>JOINT<br>JUNTA<br>ACRISTALAMIENTO<br>EXTERIOR DE 5 MM.       |            | •    | •    | •        | •       | •        |             | •       |             |       |             |          |      |      |               |      |     |     |     |       |     |     |       | •      |          | •        |         |      |        |            |
| 0948206                  |                   | FRAME EXT. JOINT<br>JUNTA EXTERIOR<br>MARCO SERIES V-94 Y<br>V-98 BASE 4.7        |            | •    | •    | •        | •       | •        |             |         |             |       |             |          |      |      |               |      |     |     |     |       |     |     |       |        |          |          |         |      |        |            |
| 1028206                  |                   | 3 mm FIN EXT. GLAZING<br>JOINT<br>JUNTA<br>ACRISTALAMIENTO EXT.<br>ALETA DE 3 MM. |            | •    | •    | •        | •       | •        |             | •       |             |       |             |          |      |      |               |      |     |     |     |       |     |     |       | •      |          | •        |         | •    |        |            |
| 0858216                  |                   | PRESSURE FRAME EXT.<br>JOINT<br>JUNTA EXTERIOR<br>MARCO DE PRESION                |            | •    | •    | •        | •       | •        |             | •       |             |       |             |          |      |      |               |      |     |     |     |       |     |     |       |        |          |          |         |      |        |            |
| 1028326                  |                   | 3 mm FIN INT. GLAZING<br>JOINT<br>JUNTA<br>ACRISTALAMIENTO INT.<br>ALETA DE 3 MM. |            | •    | •    | •        | •       | •        |             | •       |             |       |             |          |      |      |               |      |     |     |     |       |     |     |       | •      |          | •        |         | •    |        |            |