



**EN** Assembly and installation manual of telescopic doorset system (Original instructions)

**IT** Manuale di installazione e assemblaggio per sistema serramento telescopico (Istruzioni originali)

**DE** Installations- und Montageanleitung für Teleskopprofilssysteme (Originalsprachlichen Anweisungen)

**FR** Manuel d'installation et d'assemblage pour système d'huissierie télescopiques (Instructions originales)

**ES** Manual de instalación y montaje para sistema de cierre telescópico (Instrucciones originales)

**PT** Manual de instalação e montagem para sistema de ferragem telescópico (Instruções originais)

# Ditec ALU48TEL

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This symbol indicates instructions or notes regarding safety, to which special attention must be paid.



This symbol indicates useful information for the correct functioning of the product.

## 1. General safety precautions



This installation manual is intended for qualified personnel only.

Read the instructions carefully before installing the product.

Bad installation could be dangerous.

Before installing the product, make sure it is in perfect condition.

Use original spare parts only for repairs or replacements of products.

These instruction must be kept and forwarded to all possible future users of the system.



The packaging materials (plastic, polystyrene, etc.) should not be discarded in the environment or left within reach of children, as these are a potential source of danger.

The ALU48 door frame system complies with the essential requirements of the following standards:

EN 16005 European Standard - Safety in use of power operated pedestrian door sets

Standard DIN 18650-1 - Standard DIN 18650-2

Drawings of all standard typologies are available in graphic format for CAD environments (dwg or dxf) and image format (pdf) at <http://www.ditecentrematic.com/download>.

## 2. Operating instructions

The tests carried out in the laboratory and onsite indicate a maximum load of the door wing of 150 kg.

In the sections below, the used formulas take into account the following standard criteria:

- the PLmax maximum door width is considered to be between the uprights of the fixed doors and/or the frame. The effective passage opening has a tolerance of  $\pm 20$  mm.
- for every type of door, the reference dimension of the automation is indicated (LT).

## 3. Entrance/exit door frame – Ditec ALU48 Series

Sliding door made with EN AW 6060 T5 (UNI 9006/1) aluminium alloy extruded profiles

- 48 mm size

- suitable for DITEC automated installations, with special devices that guarantee accident prevention

- surface finish with powder coating (polyester powder in RAL colours- Qualicoat) or anodising (EURAS finishes - Qualanod).

The profile series is equipped with snap-on glazing retainers to house 8, 10, 22, 40 mm thick glass provided for safe anchoring of the glass and correct adjustment during installation. The system also allows maintenance to be carried out easily if glasses are accidentally damaged or broken.

The door frame is equipped with special EPDM gaskets for the hermetic central stop with brush-type seals in the openable horizontal and vertical perimeters which give the system optimal temperature and sound proofing performances.

The door frames are designed in a wide range of coded typologies to allow customers to select a solution that suits the type of installation according to the specifications in the Technical Manuals.

The ALU48 series consists of profiles (uprights and crosspieces) with sturdy visible sections which can be used to create all the typologies telescopic and with Overlight.

Profiles are designed to house locks with European cylinder for moving wing closure (night-time closure), available with an additional floor lock too.





Questo simbolo indica istruzioni o note relative alla sicurezza a cui prestare particolare attenzione.



Questo simbolo indica informazioni utili al corretto funzionamento del prodotto.

## 1. Avvertenze generali per la sicurezza



Il presente manuale di installazione è rivolto esclusivamente a personale qualificato.

Leggere attentamente le istruzioni prima di iniziare l'installazione del prodotto.

Una errata installazione può essere fonte di pericolo.

Prima di iniziare l'installazione verificare l'integrità del prodotto.

Per l'eventuale riparazione o sostituzione dei prodotti dovranno essere utilizzati esclusivamente ricambi originali.

E' necessario conservare queste istruzioni e trasmetterle ad eventuali subentranti nell'uso dell'impianto.



I materiali dell'imballaggio (plastica, polistirolo, ecc.) non vanno dispersi nell'ambiente e non devono essere lasciati alla portata dei bambini in quanto potenziali fonti di pericolo.

Il sistema di serramenti ALU48 è conforme ai requisiti essenziali delle seguenti Norme:

Norma Europea EN 16005 - La sicurezza in uso delle porte pedonali

Norma DIN 18650-1 - Norma DIN 18650-2

I disegni di tutte le tipologie standard sono disponibili in formato grafico per ambienti CAD (dwg o dxf) e in formato immagine (pdf) all'indirizzo <http://www.ditecentrematic.com/download>.

## 2. Indicazioni di utilizzo

Le prove effettuate in laboratorio ed in sede d'opera conducono ad una portata massima dell'anta di 150 Kg.

Nelle sezioni che seguono le formule adottate tengono conto dei seguenti criteri standard:

- il vano passaggio max PLmax viene considerato tra i montanti verticali delle ante fisse e/o della cornice. Il vano passaggio utile ha una tolleranza di  $\pm 20$  mm.
- per ogni tipologia di porta viene indicata la dimensione di riferimento dell'automazione (LT).

## 3. Serramento di ingresso/uscita – Serie Ditec ALU48

Porta scorrevole realizzata con profilati estrusi in lega di alluminio EN AW 6060 (UNI 9006/1) T5

- sezione da mm 48

- adatta ad installazioni automatizzate DITEC, con specifici accorgimenti atti a garantire ogni sicurezza antinfortunistica

- finitura superficiale realizzata con trattamento di verniciatura a forno (polveri in poliestere nei colori RAL- marchio Qualicoat) o di colorazione anodica (finiture EURAS - marchio Qualanod).

La serie di profilati è equipaggiata con fermavetri a scatto per alloggiare volumi vetrari di spessore da 8, 10, 22, 40 mm, predisposti per un sicuro ancoraggio delle lastre di vetro e per una corretta regolazione in fase di posa in opera. Il sistema consente inoltre un facile successivo intervento di manutenzione per eventuali sostituzioni di lastre deteriorate o rotte per cause accidentali.

Il serramento è corredato di speciali guarnizioni in EPDM per la battuta centrale ermetica, dotato di guarnizioni a spazzola nei perimetri orizzontali e verticali apribili, così da garantire una ottimale prestazione di tenuta termo-acustica del sistema.

Serramenti realizzabili nelle più svariate tipologie codificate onde consentire la scelta idonea al tipo di installazione, attenendosi alle specifiche indicate nei Manuali Tecnici.

La serie ALU48 è composta da profili (montanti e traversi) di robuste sezioni a vista, per realizzazione di tutte le tipologie Telescopico e con Sopraluce.

I profili montanti sono predisposti per alloggiamento di serrature con cilindro Europeo per chiusura delle ante mobili (chiusura notturna); disponibile anche con serratura addizionale a pavimento.



Dieses Symbol verweist auf Anweisungen oder Hinweise zur Sicherheit, auf die besonders geachtet werden muss.



Dieses Symbol verweist auf nützliche Informationen für den Betrieb des Produkts.

## 1. Allgemeine Sicherheitshinweise



Das vorliegende Installationshandbuch ist ausschließlich für das Fachpersonal bestimmt.

Lesen Sie die Anleitungen vor der Montage des Produktes aufmerksam durch.

Eine fehlerhafte Montage kann zu Verletzungen und Sachschäden führen.

Vor Beginn der Montage ist der einwandfreie Zustand des Produkts zu überprüfen.

Bei Reparaturen oder Austausch der Produkte dürfen ausschließlich Original-Ersatzteile verwendet werden.



Bewahren Sie diese Anleitungen auf und geben Sie sie an mögliche Mitbenutzer der Anlage weiter.

Die Verpackungsmaterialien (Kunststoff, Polystyrol usw.) müssen sachgemäß entsorgt werden und dürfen nicht in Kinderhände gelangen, da sie eine Gefahrenquelle darstellen können.

Das Profilsystem ALU48 entspricht den wesentlichen Anforderungen der folgenden Normen:

Europäische Norm EN 16005 - Nutzungssicherheit kraftbetätigte Türen

Norm DIN 18650-1 - Norm DIN 18650-2

Die Zeichnungen aller Standardtypen sind im Grafikformat für CAD-Umgebungen (dwg oder dxf) und im Bildformat (pdf) unter der Internetadresse <http://www.ditecentrematic.com/download> erhältlich.

## 2. Hinweise zum Gebrauch

Die im Labor und vor Ort durchgeführten Tests ergeben eine maximale Tragfähigkeit des Flügels von 150 kg.

Die in den folgenden Abschnitten angewandten Formeln beziehen sich auf die folgenden Standardkriterien:

- die maximale lichte Öffnung PL<sub>max</sub> wird zwischen den Seitenpfosten der Seitenteile und/oder des Rahmens berücksichtigt. Die nutzbare lichte Öffnung hat eine Toleranz von ±20 mm.
- für jeden Tortyp wird die Bezugsgröße des Antriebs (LT) angegeben.

## 3. Eingangs-/Ausgangsprofil – Baureihe Ditec ALU48

Schiebetor aus stranggepressten Profilen aus Aluminiumlegierung EN AW 6060 (UNI 9006/1) T5

- Querschnitt 48 mm

- geeignet für Antriebsanlagen der Firma DITEC, mit spezifischen Vorkehrungen, um jede Art von Sicherheit und Unfallverhütung zu gewährleisten

- Oberflächenbehandlung durch Einbrennlackierung (Polyesterpulver in den RAL-Farben - Marke Qualicoat) oder durch anodische Färbung (EURAS - Marke Qualanod).

Die Profilbaureihe ist mit Glashaltern mit Schnappverschluss ausgestattet, um Glasvolumen mit einer Stärke von 8, 10, 22, 40 mm unterzubringen, die für eine sichere Befestigung der Glasplatten und eine korrekte Einstellung in der Montagephase vorgerüstet sind. Das System ermöglicht zudem einen bequemen späteren Wartungseingriff, um ggf. abgenutzte oder durch äußere Einflüsse gebrochene Glasplatten auszutauschen.

Das Profil ist mit speziellen Dichtungen aus EPDM für den hermetischen mittleren Anschlag und mit Bürstendichtungen an den horizontalen und vertikalen zu öffnenden Begrenzungen ausgestattet, damit eine optimale Leistung in Bezug auf Wärme- und Schallschutzdichtung gewährleistet ist.

Die Profile können unter Beachtung der Spezifikationen in den technischen Handbüchern in den unterschiedlichsten kodierten Arten hergestellt werden, um die für die Installationsart am besten geeignete Auswahl treffen zu können.

Die Baureihe ALU48 besteht aus Profilen (Seitenpfosten und Querträger) mit robusten Sichtquerschnitten für die Erstellung aller Teleskoptypen un mit Oberlicht.

Die Seitenpfostenprofile sind für die Aufnahme Schlosstypen mit Europrofil-Zylinder zum Schließen der Fahrflügel (Nachtschließung) ausgestattet. Sind auch mit Zusatzschloss am Boden lieferbar.



Ce symbole indique les instructions ou les notes concernant la sécurité pour laquelle il faut être particulièrement attentif.



Ce symbole indique les informations utiles pour le bon fonctionnement du produit.

## 1. Consignes générales de sécurité



Le présent manuel d'installation s'adresse uniquement à un personnel qualifié.

Lire les instructions avec beaucoup d'attention avant d'installer le produit.

Une mauvaise installation peut être source de danger.

Avant de commencer l'installation, contrôler l'état du produit.

Pour toute réparation et tout remplacement des produits, seules des pièces de rechange d'origine devront être utilisées.

Il est nécessaire de conserver ces instructions et de les transmettre aux personnes qui prendront en mains l'équipement par la suite.



Les matériaux qui composent l'emballage (plastique, polystyrène, etc.) ne doivent pas être abandonnés dans la nature ni laissés à la portée des enfants car ils représentent des risques de danger.

Le système d'huissieries ALU48 est conforme aux exigences essentielles des normes suivantes :

Norme européenne EN 16005 - Blocs portes motorisés pour piétons – Sécurité d'utilisation

Norme DIN 18650-1 - Norme DIN 18650-2

Les dessins de tous les types standard sont disponibles en format graphique pour environnements CAO (dwg ou dxf) et en format image (pdf) à l'adresse <http://www.ditecentrematic.com/download>.

## 2. Indications d'utilisation

Les essais effectués en laboratoire et sur place conduisent à une portée maximale du vantail de 150 kg.

Les formules adoptées dans les sections suivantes tiennent compte des critères standard :

- la baie de passage maxi PLmax est considérée entre les montants verticaux des vantaux fixes et/ou du cadre. La baie de passage utile a une tolérance de  $\pm 20$  mm.

- la dimension de référence de l'automatisme est indiquée (LT) pour chaque type de porte.

## 3. Huisserie d'entrée/sortie – Série Ditec ALU48

Porte coulissante réalisée avec des profilés extrudés en alliage d'aluminium EN AW 6060 (UNI 9006/1) T5

- section de 48 mm

- indiquée pour installations automatisées DITEC, avec des solutions spécifiques visant à garantir la sécurité contre les accidents

- finition superficielle réalisée par traitement de peinture au four (poudres en polyester dans les couleurs RAL- marque Qualicoat) ou de coloration anodique (finitions EURAS - marque Qualanod).

La série de profilés est équipée de fixation des vitres à loquet pour loger des volumes de verre d'une épaisseur de 8 , 10 , 22 , 40 mm, prévus pour une fixation sûre des plaques de verre et pour un réglage correct en phase de mise en œuvre. Ce système permet également d'effectuer par la suite une intervention d'entretien pour d'éventuels remplacements de plaques détériorées ou cassées pour des causes accidentelles.

L'huissierie est fournie avec des joints spéciaux en EPDM pour la butée centrale hermétique, munie de joints à brosse sur les périmètres horizontaux et verticaux ouvrants, de manière à garantir une prestation optimale d'étanchéité thermo-acoustique du système.

Les huissieries peuvent être réalisées dans les types codés les plus divers afin de garantir un choix apte au type d'installation, en se conformant aux spécifications indiquées dans les Manuels Techniques.

La série ALU48 est composée de profilés (montants et traverses) de sections à vue robustes, pour la réalisation de tous les types Télescopiques et avec Imposte.

Les profilés des montants sont prévus pour le logement de serrures avec Cylindre Européen pour la fermeture des vantaux mobiles (fermeture nocturne); également avec une serrure supplémentaire au sol.



Este símbolo indica instrucciones o notas relativas a la seguridad a las que prestar una atención especial.



Este símbolo indica informaciones útiles para el funcionamiento correcto del producto.

## 1. Advertencias generales de seguridad



Este manual de instalación está exclusivamente dirigido a personal cualificado.  
Lea detenidamente las instrucciones antes de comenzar la instalación del producto.

Una instalación incorrecta puede ser causa de peligro.

Antes de proceder con la instalación, compruebe que el producto se encuentra en perfectas condiciones.

Utilice sólo recambios originales para la reparación o la sustitución de los productos.

Conserve estas instrucciones y cédaselas a posibles nuevos usuarios de la instalación.



Los materiales de embalaje (plástico, poliestireno, etc.) no deben arrojarse en el medio ambiente y deben mantenerse fuera del alcance de los niños al ser una posible fuente de peligro.

El sistema de cierres ALU48 es conforme a los requisitos esenciales de las siguientes Normas:

Norma Europea EN 16005 - La seguridad en el uso de las puertas peatonales

Norma DIN 18650-1 - Norma DIN 18650-2

Los planos de todos los tipos estándar están disponibles en formato gráfico para entornos CAD (dwg o dxf) y en formato de imagen (pdf) en la dirección <http://www.ditecentrematic.com/download>.

## 2. Instrucciones de uso

Las pruebas efectuadas en el laboratorio y en el lugar de funcionamiento indican una capacidad máxima de la hoja de 150 kg.

En las secciones siguientes, las fórmulas adoptadas tienen en cuenta los siguientes criterios estándar:

- el hueco de paso máx. PL<sub>máx</sub> se considera entre los montantes verticales de las hojas fijas y/o del marco. El hueco de paso útil tiene una tolerancia de  $\pm 20$  mm.
- para cada tipo de puerta, se indica la dimensión de referencia del automatismo (LT).

## 3. Cierre de entrada/salida – Serie Ditec ALU48

Puerta corredera realizada con perfiles extruidos de aleación de aluminio EN AW 6060 (UNI 9006/1) T5

- sección de 48 mm

- adecuada para instalaciones automatizadas DITEC, con soluciones específicas capaces de garantizar cualquier dispositivo de seguridad de prevención de accidentes

- acabado superficial realizado con tratamiento de pintura en horno (povos de poliéster en los colores RAL- marca Qualicoat) o de coloración anódica (acabados EURAS - marca Qualanod).

La serie de perfiles está equipada con sujeciones de cristal a presión para alojar volúmenes de cristal con un espesor de 8, 10, 22, 40 mm, preparados para una fijación segura de las placas de cristal y para una regulación correcta durante la instalación. El sistema permite además una intervención de mantenimiento posterior sencilla para eventuales sustituciones de cristales deteriorados o rotos por causas accidentales.

El cierre está equipado con juntas especiales de EPDM para el tope central hermético, dotado de juntas de cepillo en los perímetros horizontales y verticales abribles, de modo que garantiza unas óptimas prestaciones de estanqueidad termoacústica del sistema.

Cierres realizables en los más diversos tipos codificados para permitir la elección idónea para el tipo de instalación, ateniéndose a las especificaciones indicadas en los Manuales Técnicos.

La serie ALU48 se compone de perfiles (montantes y traveseros) de robustas secciones a la vista, para la realización de todos los tipos telescópico y con montante.

Los perfiles de montantes están preparados para el alojamiento de cerraduras con cilindro europeo para el cierre de las hojas móviles (cierre nocturno); también está disponible con cerradura adicional en el suelo.



Êsse símbolo indica instruções ou notas relativas à segurança que requerem uma atenção particular.



Êsse símbolo indica informações úteis para o correcto funcionamento do produto.

## 1. Advertências gerais para a segurança



O presente manual de instalação é dirigido exclusivamente a profissionais especializados. Leia atentamente as instruções antes de iniciar a instalação do produto.

Uma instalação errada pode ser fonte de perigo.

Antes de iniciar a instalação, verifique a integridade do produto.

Para a eventual reparação ou a substituição dos produtos deverão ser utilizadas exclusivamente peças de reposição genuínas.

É necessário guardar estas instruções e entregá-las aos eventuais novos utilizadores do sistema.



Os materiais da embalagem (plástico, polistireno, etc.) não devem ser abandonados no ambiente e não devem ser deixados ao alcance de crianças, pois são potenciais fontes de perigo.

O sistema de ferragens ALU48 está em conformidade com os requisitos essenciais das seguintes Normas:

Norma Europeia EN 16005 - A segurança em uso das portas pedonais

Norma DIN 18650-1 - Norma DIN 18650-2

O projeto de todos os tipos padrão está disponível em formato gráfico para ambientes CAD (dwg ou dxf) e em formato de imagem (pdf) no endereço <http://www.ditecentrematic.com/download>.

## 2. Indicações de uso

Os testes realizados em laboratório e no local de trabalho levaram a uma capacidade máxima da portinhola de 150 kg.

Nas secções abaixo, as fórmulas tomam em conta os seguintes critérios padrão:

- o vão máximo de passagem PLmax deve ser considerado entre os montantes verticais das portinholas fixas e/ou do caixilho. O vão útil de passagem tem uma tolerância de  $\pm 20$  mm.
- para cada tipo de porta é indicada a dimensão de referência do automatismo (LT).

## 3. Ferragem de entrada/saída – Série Ditec ALU48

Porta de correr realizada com perfis extrudados em liga de alumínio EN AW 6060 (UNI 9006/1) T5

- secção de 48 mm

- adequada para instalações automatizadas DITEC, com medidas específicas que garantem a prevenção de acidentes

- acabamento superficial realizado com tratamento de pintura à forno (pó de poliéster nas cores RAL- marca Qualicoat) ou de coloração anódica (acabamentos EURAS - marca Qualanod).

A série de perfis está equipada com prende-vidros de pressão para alojar volumes de vidros com uma espessura de 8, 10, 22, 40 mm, predispostos para uma fixação segura das placas de vidro e para uma regulação correcta em fase de instalação. O sistema permite, além disso, uma fácil intervenção posterior de manutenção para eventuais substituições de placas deterioradas ou danificadas por causas acidentais.

A ferragem é equipada com vedações especiais em EPDM para o batente central hermético, equipado com vedações de escova nos perímetros horizontais e verticais abríveis, para garantir um desempenho ideal de vedação termoacústica do sistema.

Ferragens realizáveis nos mais variados tipos e codificadas para permitir a escolha apropriada ao tipo de instalação, atendo-se às especificações indicadas nos Manuais Técnicos.

A série ALU48 é composta de perfis (montantes e transversais) de fortes secções à vista, para a realização de todos os tipos telescópico e com bandeira.

Os perfis montantes estão predispostos para o alojamento de ferragem com cilindro europeu para fecho das portinholas móveis (fecho nocturno); também com fechadura adicional de chão.

## 4. Legend

	EN	IT	DE	FR	ES	PT
<b>M</b>	Moving door wing	Anta mobile	Fahrflügel	Vantail mobile	Hoja móvil	Portinhola móvel
<b>M1</b>	Slow moving door wing	Anta mobile lenta	Langsam Fahrflügel	Vantail mobile lento	Hoja móvil lenta	Portinhola móvel lenta
<b>F</b>	Fixed door wing	Anta fissa	Seitenteil	Vantail fixe	Hoja fija	Portinhola fixa
<b>T</b>	Beam	Trave	Kämpferprofil	Montant	Viga	Trave
<b>C</b>	Frame	Cornice	Rahmen	Cadre	Marco	Caixilho
<b>S</b>	Overlight	Sopraluce	Oberlicht	Imposte	Montante	Bandeira
<b>L</b>	Overall wall opening width	Larghezza utile vano muro	Nutzbare Breite der Wandöffnung	Largeur utile de la baie dans le mur	Anchura útil espacio pared	Largura útil do vão da parede
<b>LS</b>	Overall frame opening width	Larghezza serramento	Breite der Tür	Largeur de l'hubrisserie	Anchura del cierre	Largura da ferragem
<b>PL</b>	Passage opening width	Larghezza vano passaggio	Breite des Platzbedarfs für die Öffnung	Largeur de la baie de passage	Anchura hueco de paso	Largura do vão de passagem
<b>LT</b>	Automation length	Lunghezza automazione	Länge des Antriebs	Longueur de l'automatisme	Longitud automatismo	Comprimento do automatismo
<b>LF</b>	Fixed door wing width	Larghezza anta fissa	Breite des festen Flügels	Largeur du vantail fixe	Anchura hoja fija	Largura da portinhola fixa
<b>LVF</b>	Fixed door wing glass width	Larghezza vetro anta fissa	Breite der Scheibe des festen Flügels	Largeur de la vitre du vantail fixe	Anchura cristal hoja fija	Largura do vidro da portinhola fixa
<b>LM</b>	Moving door wing width	Larghezza anta mobile	Breite des beweglichen Flügels	Largeur du vantail mobile	Anchura hoja móvil	Largura da portinhola móvel
<b>LM1</b>	Slow moving door wing width	Larghezza anta mobile lenta	Breite des beweglichen langsam Flügels	Largeur du vantail mobile lento	Anchura hoja móvil lenta	Largura da portinhola móvel lenta
<b>LVM</b>	Moving door wing glass width	Larghezza vetro anta mobile	Breite der Scheibe des beweglichen Flügels	Largeur de la vitre du vantail mobile	Anchura cristal hoja móvil	Largura do vidro da portinhola móvel
<b>LVM1</b>	Slow moving door wing glass width	Larghezza vetro anta mobile lenta	Breite der Scheibe des beweglichen langsam Flügels	Largeur de la vitre du vantail mobile lento	Anchura cristal hoja móvil lenta	Largura do vidro da portinhola móvel lenta
<b>H</b>	Effective wall opening height	Altezza utile vano muro	Nutzbare Höhe der Wandöffnung	Hauteur utile de la baie dans le mur	Altura útil hueco pared	Altura útil do vão da parede
<b>HS</b>	Effective frame opening height	Altezza utile serramento	Nutzbare Profilhöhe	Hauteur utile de l'hubrisserie	Altura útil del cierre	Altura útil da ferragem
<b>PH</b>	Passage opening height	Altezza vano passaggio	Höhe des Platzbedarfs für die Öffnung	Hauteur de la baie de passage	Altura hueco de paso	Altura do vão de passagem
<b>H1</b>	Effective height under beam	Altezza utile sotto trave	Nutzbare Höhe unter dem Kämpferprofil	Hauteur utile sous montant	Altura útil bajo la viga	Altura útil sob a trave
<b>HF</b>	Fixed door wing height	Altezza anta fissa	Höhe des Seitenteils	Hauteur du vantail fixe	Altura hoja fija	Altura da portinhola fixa
<b>HVF</b>	Fixed door wing glass height	Altezza vetro anta fissa	Glashöhe des Seitenteils	Hauteur de la vitre du vantail fixe	Altura cristal hoja fija	Altura do vidro da portinhola fixa
<b>HM</b>	Moving door wing height	Altezza anta mobile	Höhe des Fahrflügels	Hauteur du vantail mobile	Altura hoja móvil	Altura da portinhola móvel
<b>HVM</b>	Moving door wing glass height	Altezza vetro anta mobile	Glashöhe des Fahrflügels	Hauteur de la vitre du vantail mobile	Altura cristal hoja móvil	Altura do vidro da portinhola móvel
<b>MH</b>	Crosspiece height	Altezza traverso	Höhe des Querbalkens	Hauteur de la traverse	Altura del travesero	Altura da trave
<b>OL</b>	Overlight width	Larghezza sopra luce	Breite des Oberlichts	Largeur de l'imposte	Anchura montante	Largura da bandeira
<b>OH</b>	Overlight height	Altezza sopra luce	Höhe des Oberlichts	Hauteur de l'imposte	Altura montante	Altura da bandeira
<b>LVO</b>	Overlight glass width	Larghezza vetro sopra luce	Breite der Scheibe des Oberlichts	Largeur de la vitre de l'imposte	Anchura cristal montante	Largura do vidro da bandeira
<b>HVO</b>	Overlight glass height	Altezza vetro sopra luce	Höhe der Scheibe des Oberlichts	Hauteur de la vitre de l'imposte	Altura cristal montante	Altura do vidro da bandeira

**NOTE 1:** in compliance with the EN 16005 Standard, transparent glass panels must be marked. The application of stickers complies with the provisions of the Standard regarding accident prevention.

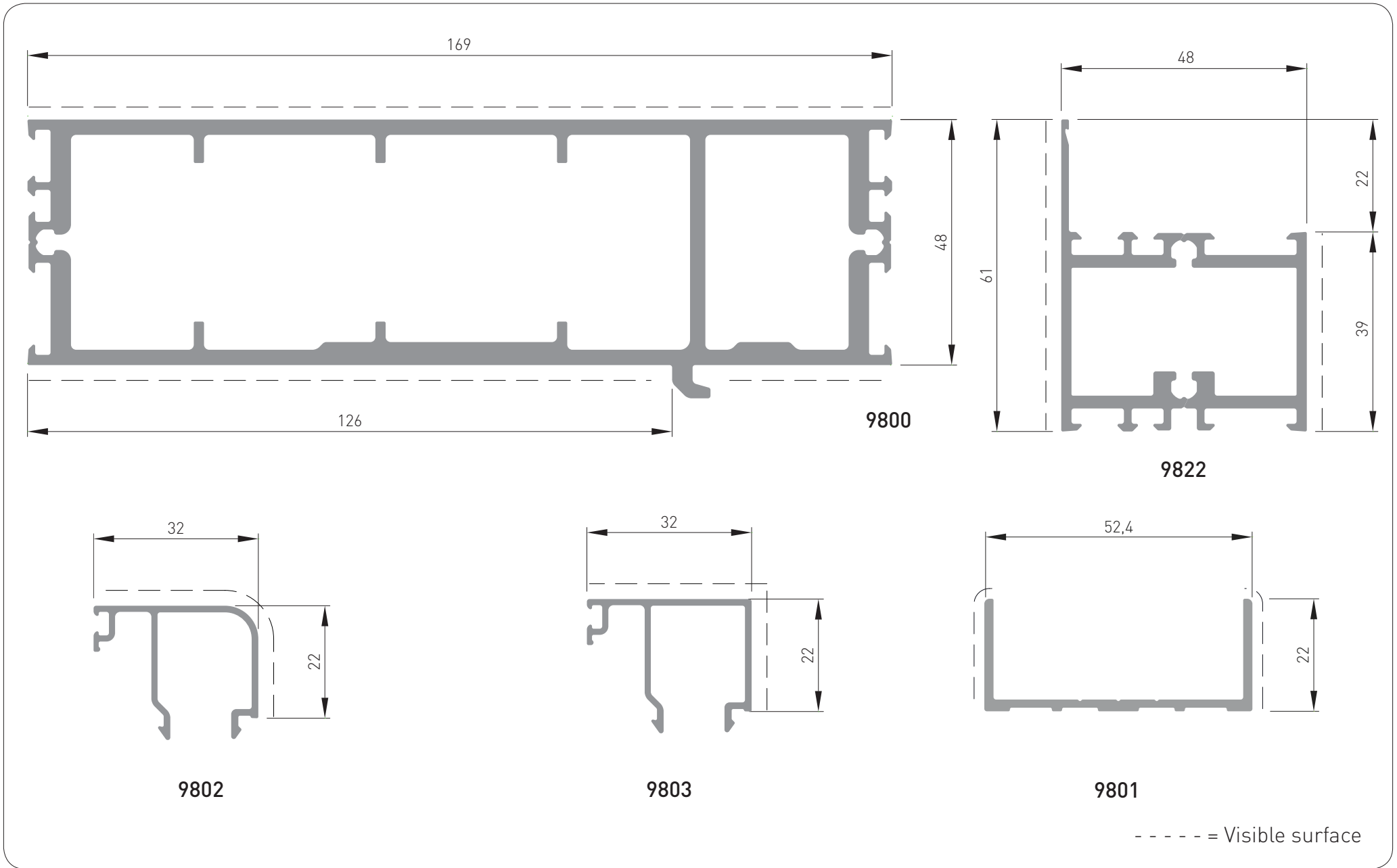
**NOTE 2:** example of left-hand opening. For right-hand opening mirror the working operation.



# 5. Technical drawings

T01

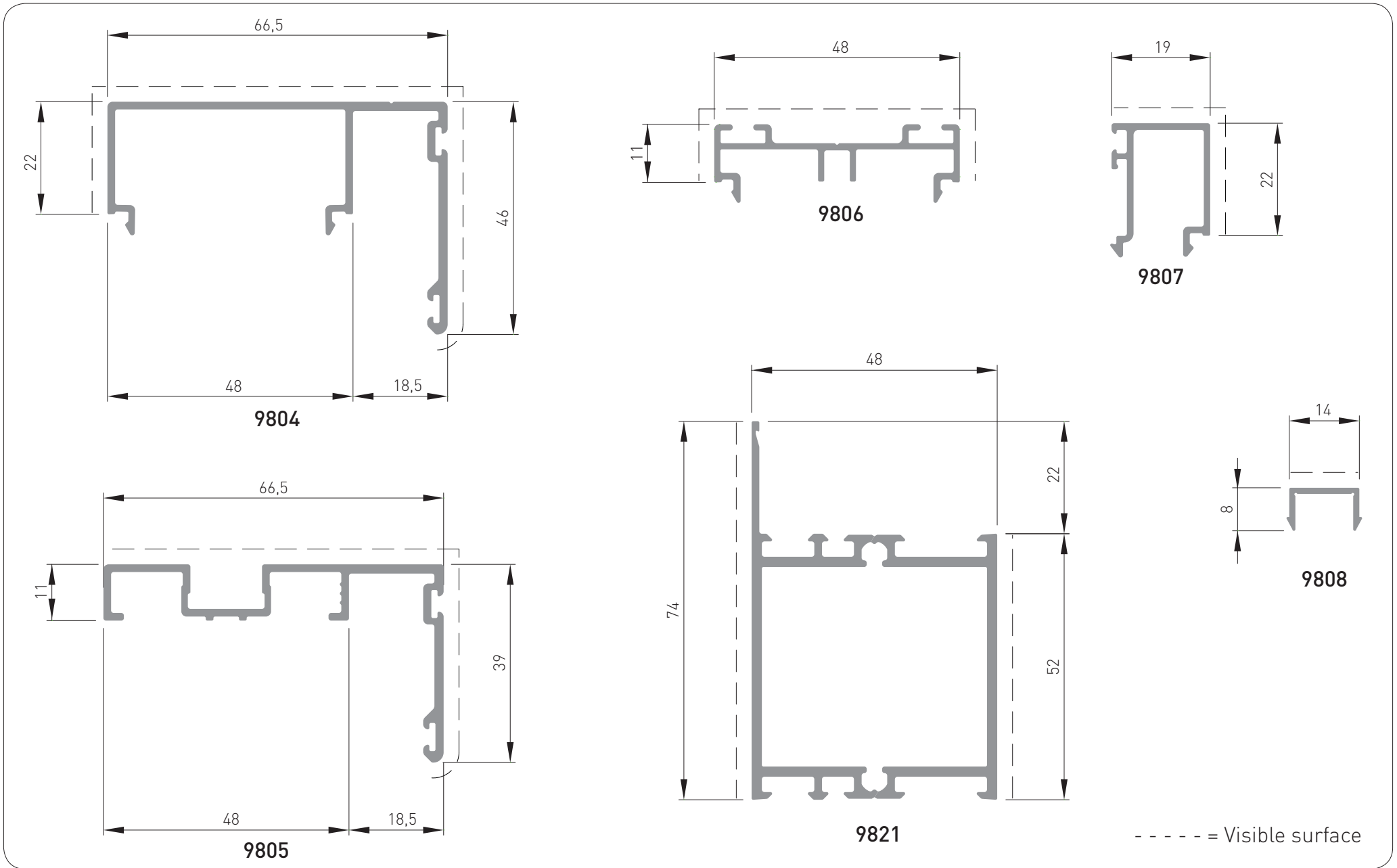
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# 5. Technical drawings

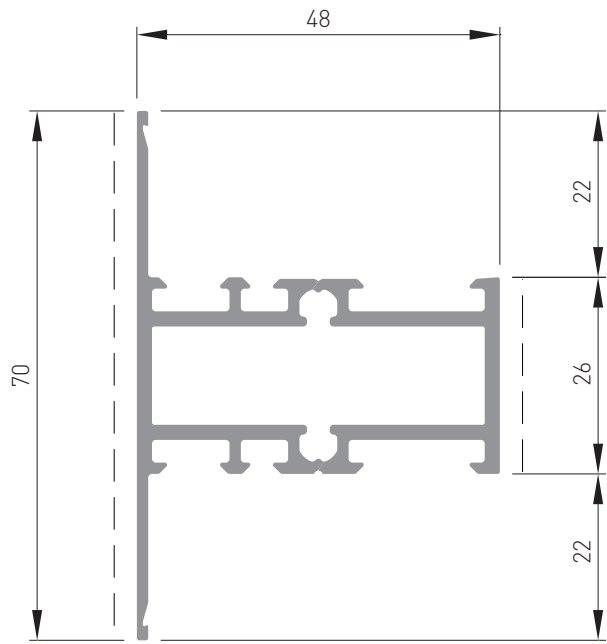
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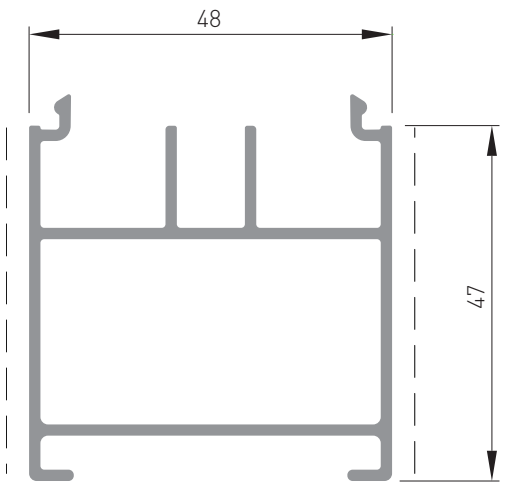


# 5. Technical drawings

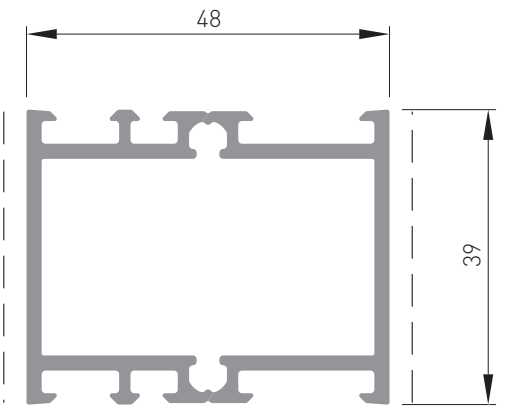
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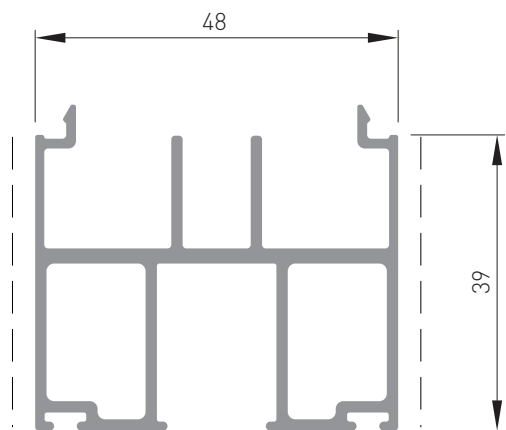
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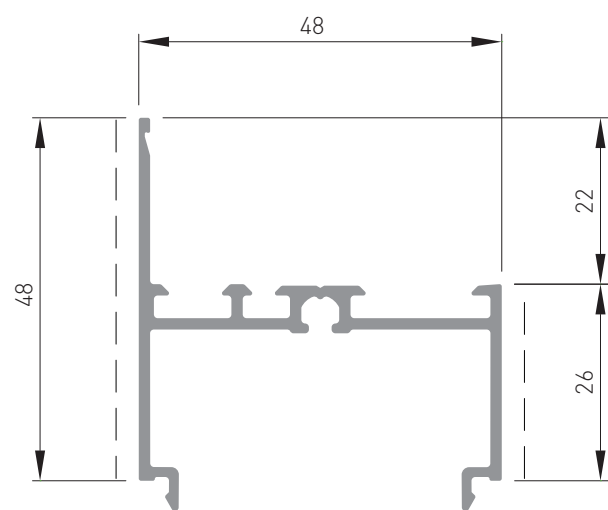
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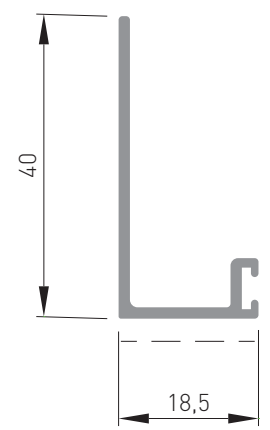
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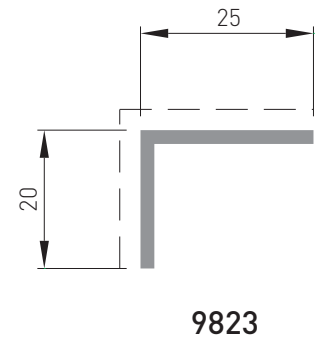
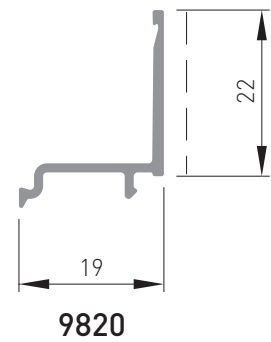
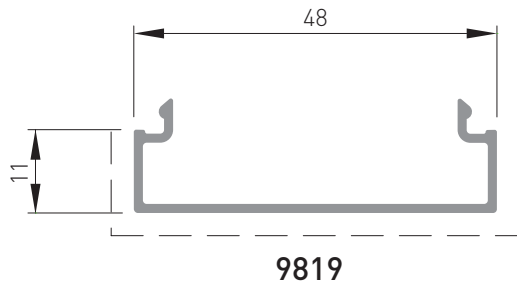
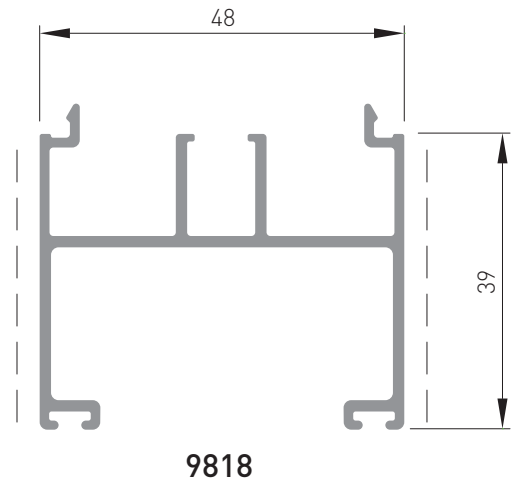
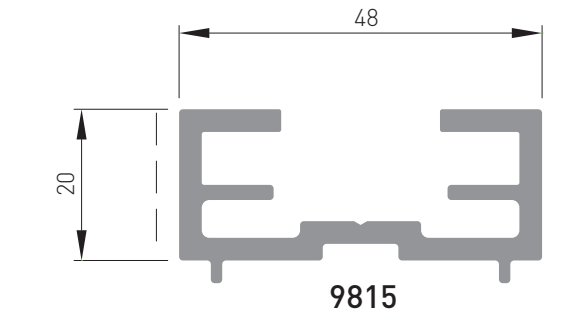
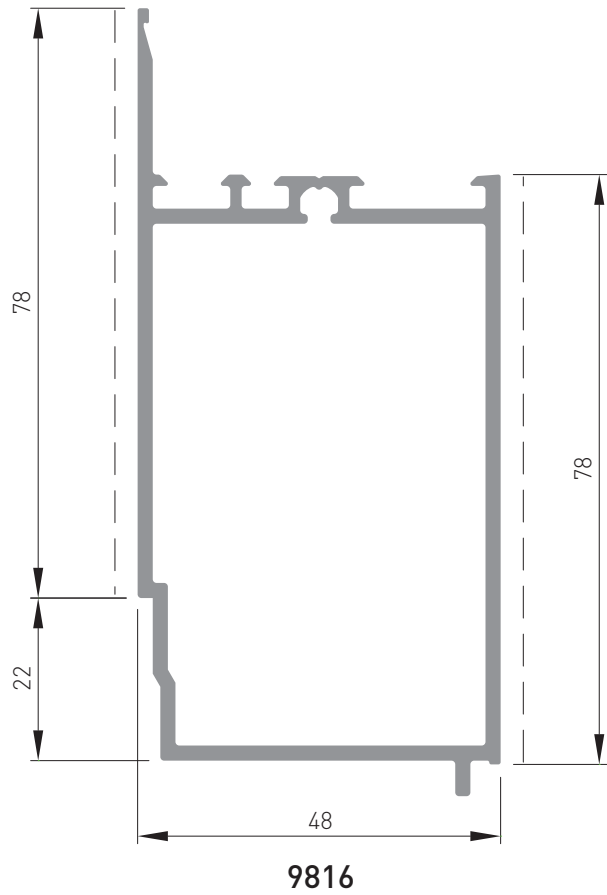


9814

----- = Visible surface

# 5. Technical drawings

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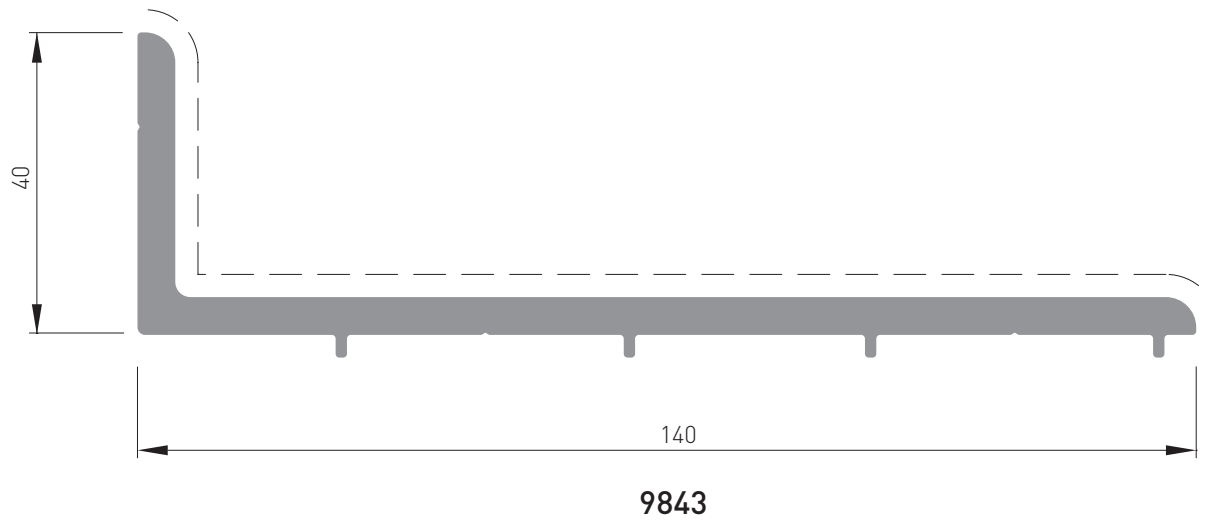
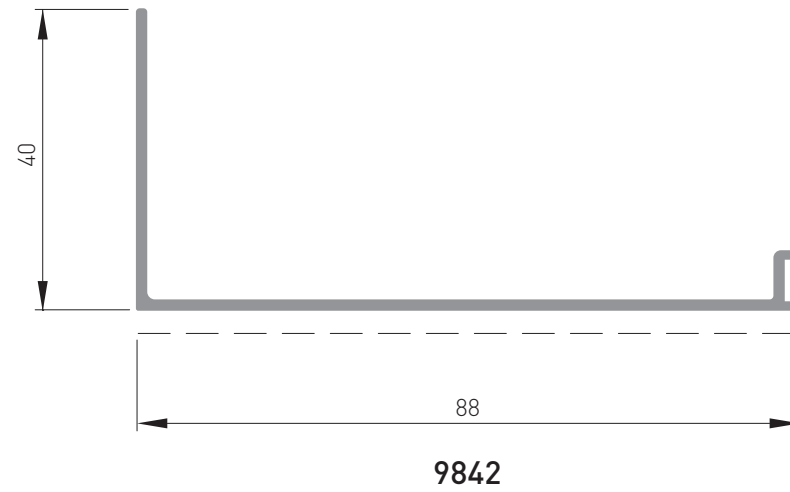


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## 5. Technical drawings

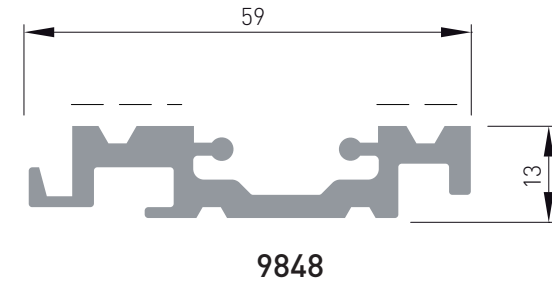
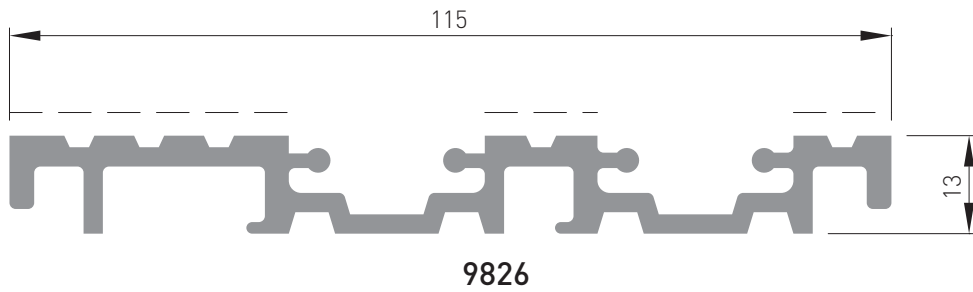
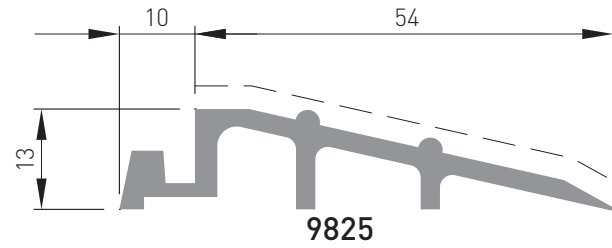
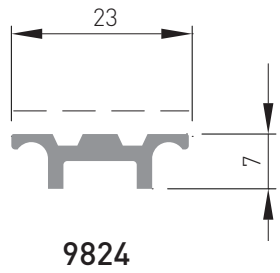
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Scale 1:1

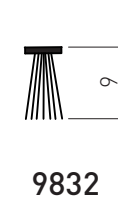
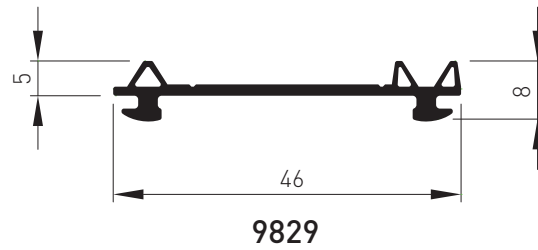
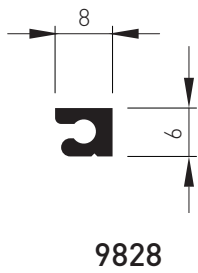
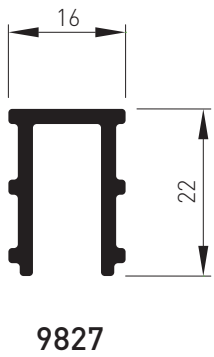


- - - - = Visible surface

# 5. Technical drawings



----- = Visible surface

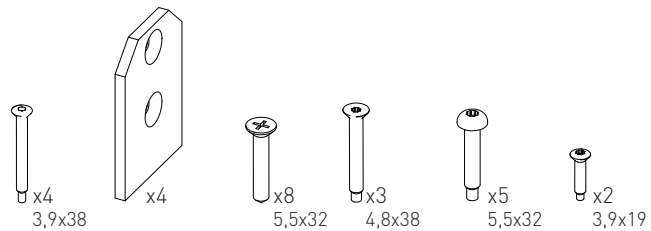




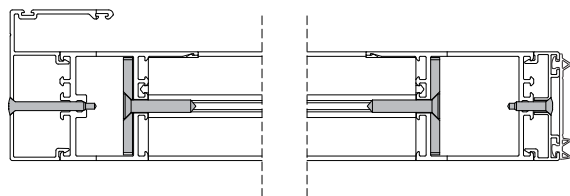
# 6. Accessories

T07

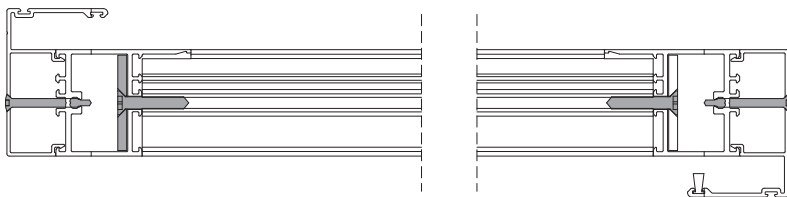
## KAM48 (see page 77)



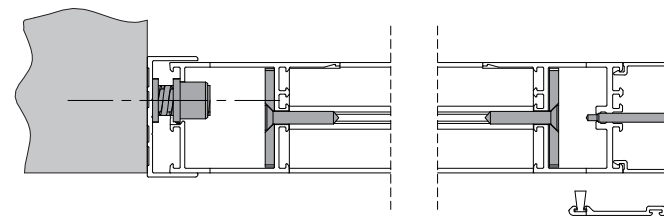
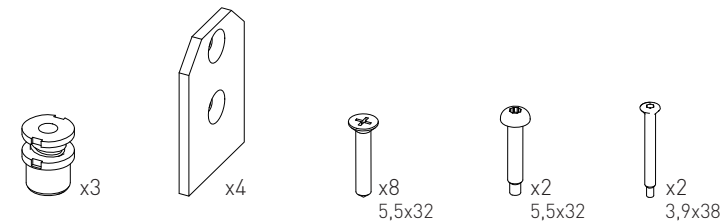
M



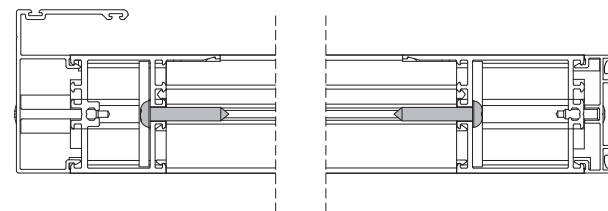
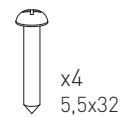
M1



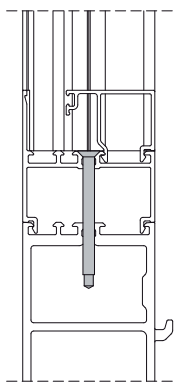
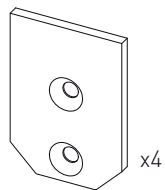
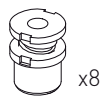
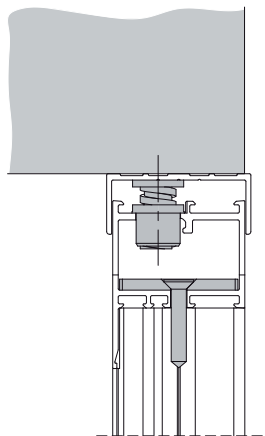
## KAF48 (see page 79-80)



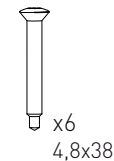
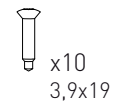
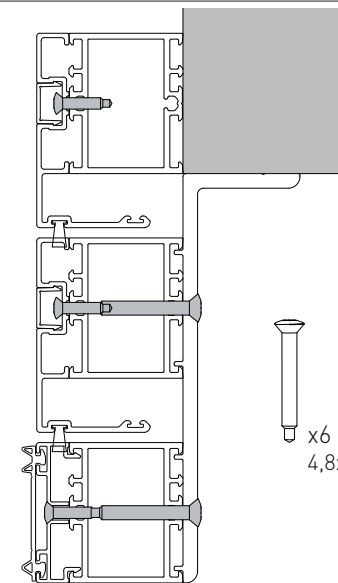
## KT48 (see page 90-91-92-93)



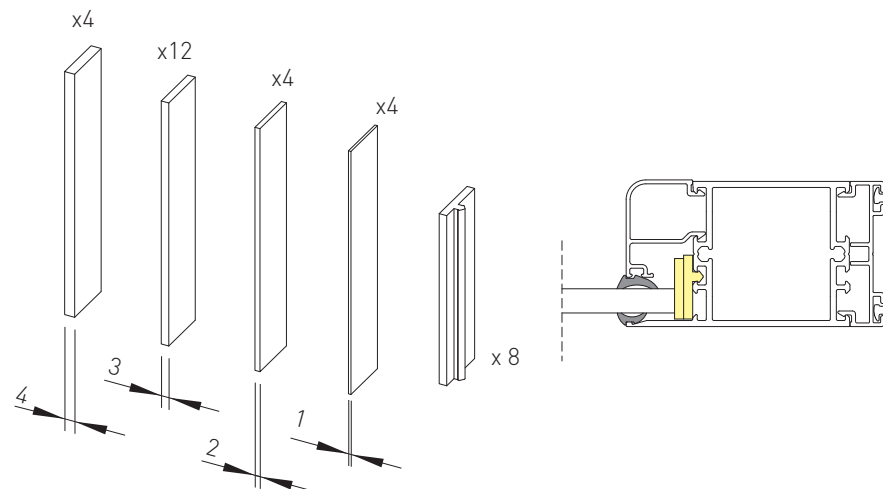
## KS48 (see page 89-90)



## KC48 (see page 82-84-86)



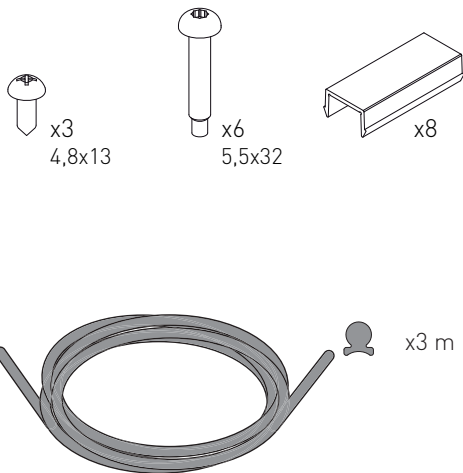
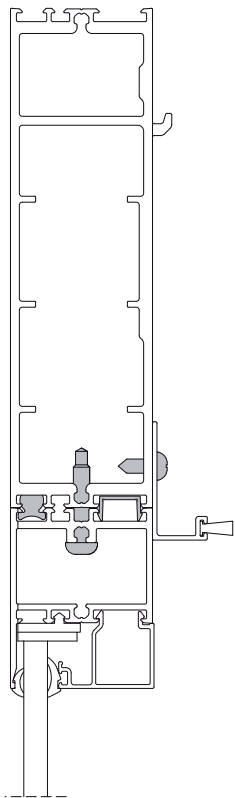
## KSV48 (see page 77-78-79-80-89-90-91-92)



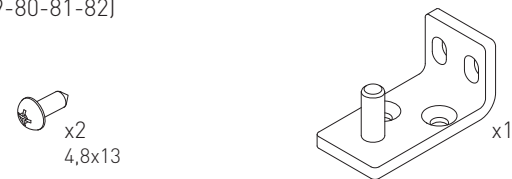
# 6. Accessories

T09

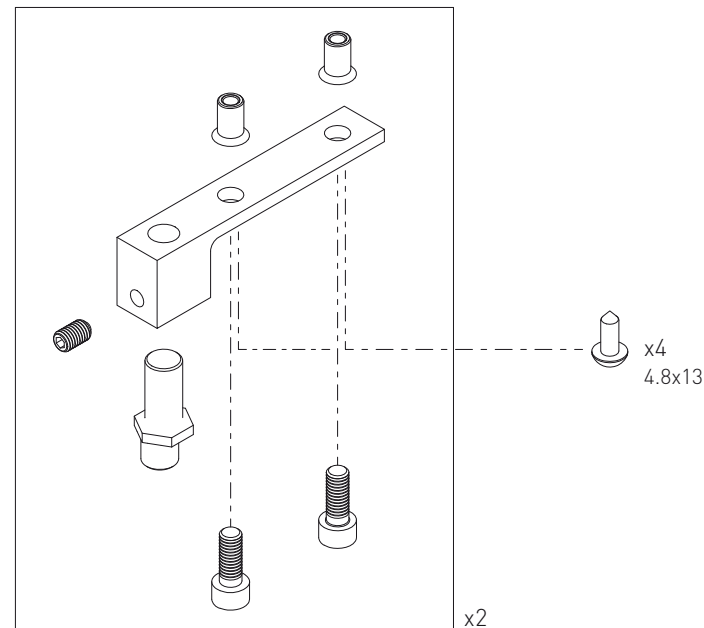
**KB48** (see page 80-85-86)



**KP48** (see page 78-79-80-81-82)



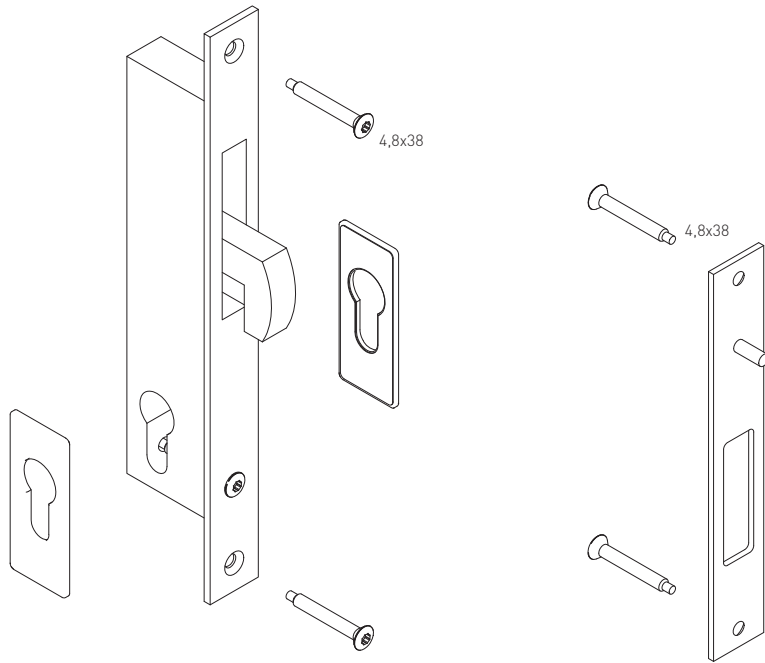
**KPI48** (see page 94)



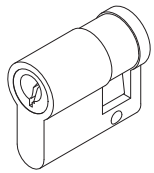
**KCP48**



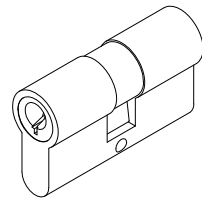
**KSER48** (see page 95)



**KSER481**  
(see page 95)

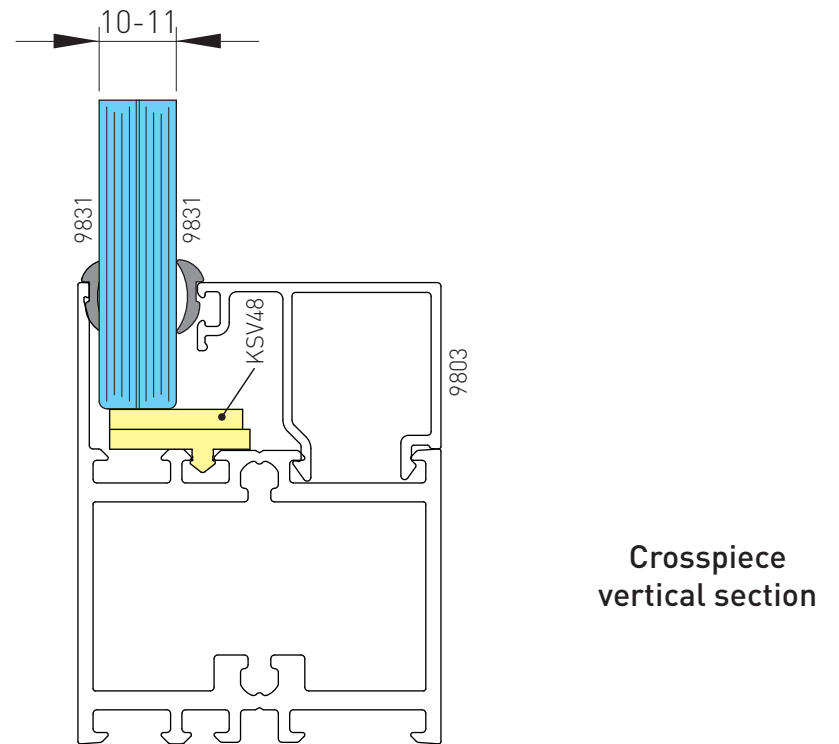
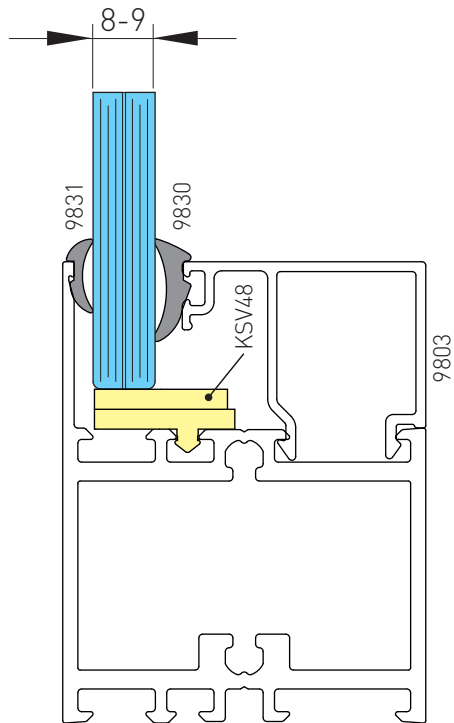
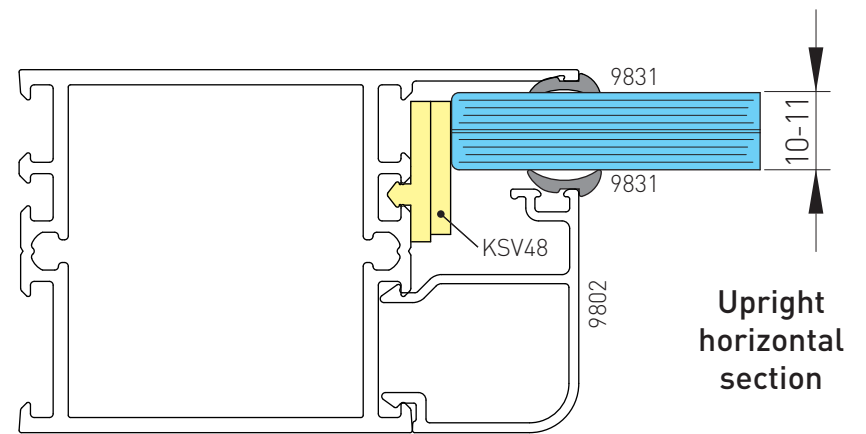
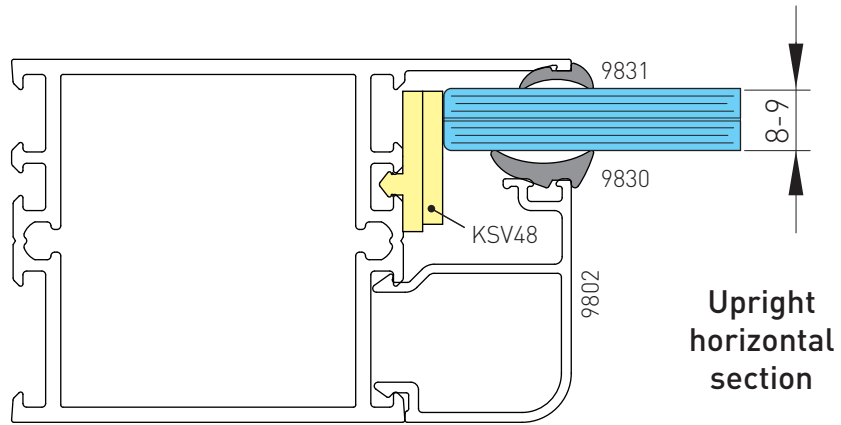


**KSER482**  
(see page 95)



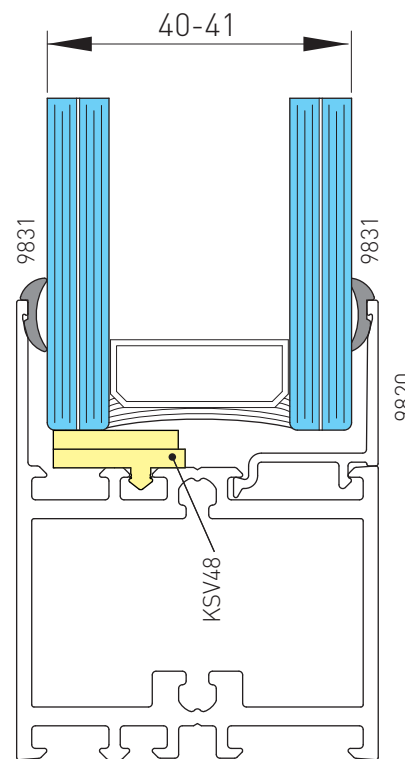
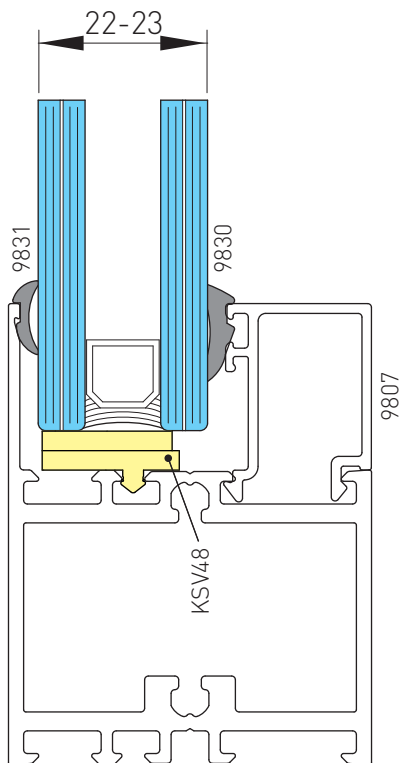
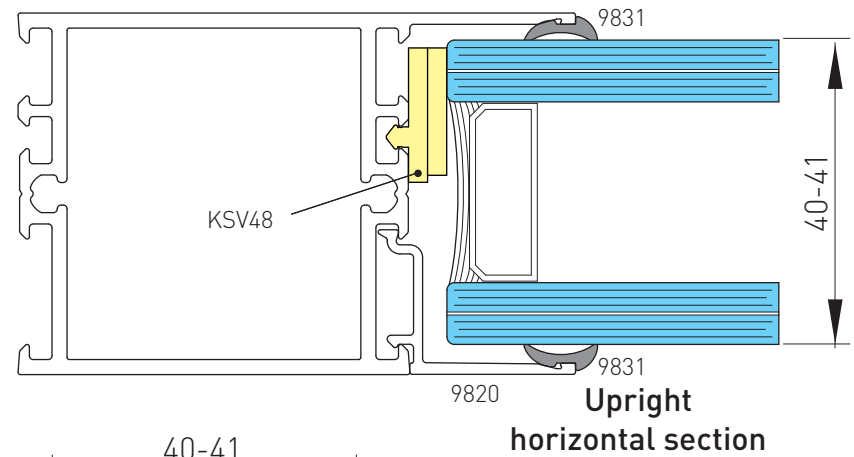
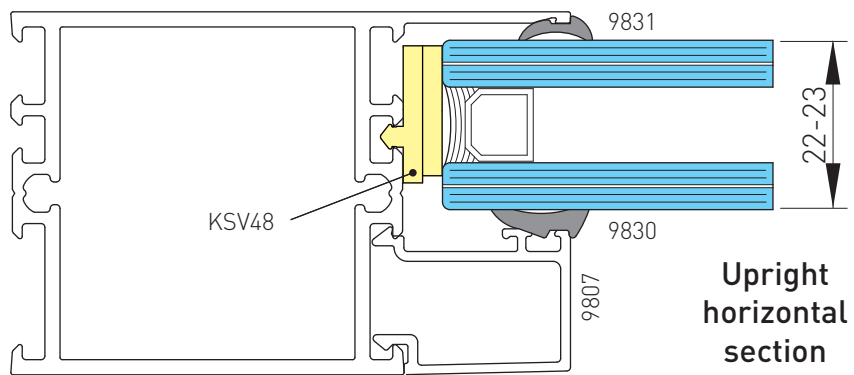
# 7. Glass thickness

T11  
Scale 1:1



# 7. Glass thickness

T12  
Scale 1:1





## 8. Applications

T13

Scale 1:2

**EN** The ALU48TEL door frames allow frames to be motorised with Ditec VALOR T automations.

**i** VALOR T automations are not included in the configuration.

**IT** I serramenti ALU48TEL consentono la motorizzazione degli infissi con automazioni tipo Ditec VALOR T.

**i** Le automazioni VALOR T sono escluse dalla configurazione.

**DE** Die Profile ALU48TEL ermöglichen die Motorisierung der Torprofile mit Antrieben des Typs Ditec VALOR T.

**i** Die Antriebe VALOR T sind nicht in der Konfiguration enthalten.

**FR** Les huisseries ALU48TEL permettent la motorisation des portails à automatismes de type Ditec VALOR T.

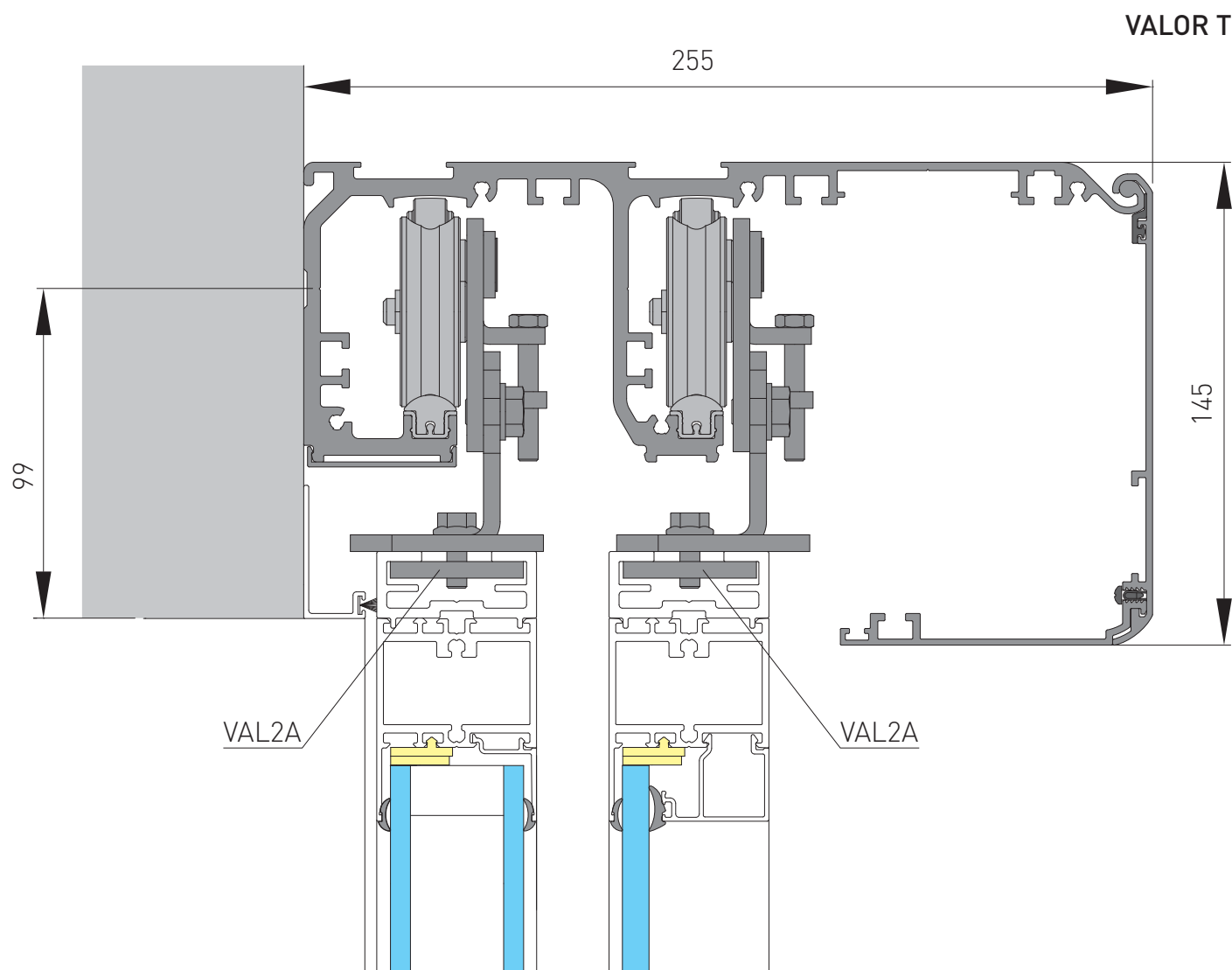
**i** Les automatismes VALOR T sont exclus de la configuration.

**ES** Los cierres ALU48TEL permiten la motorización de marcos con automatismos tipo Ditec VALOR T.

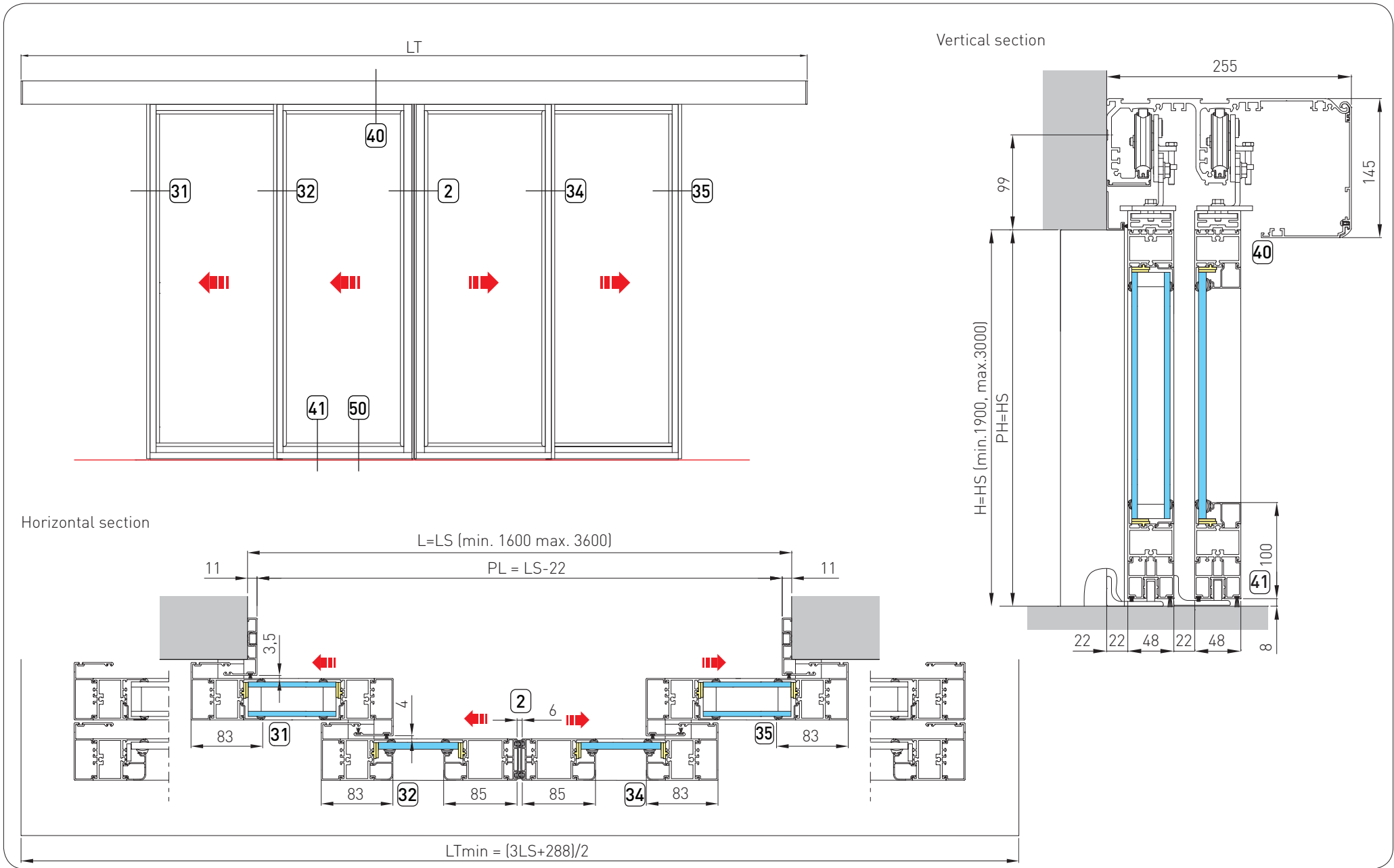
**i** Los automatismos VALOR T no se incluyen en la configuración.

**PT** As ferragens ALU48TEL permitem a motorização dos infixos com automatismos do tipo Ditec VALOR T.

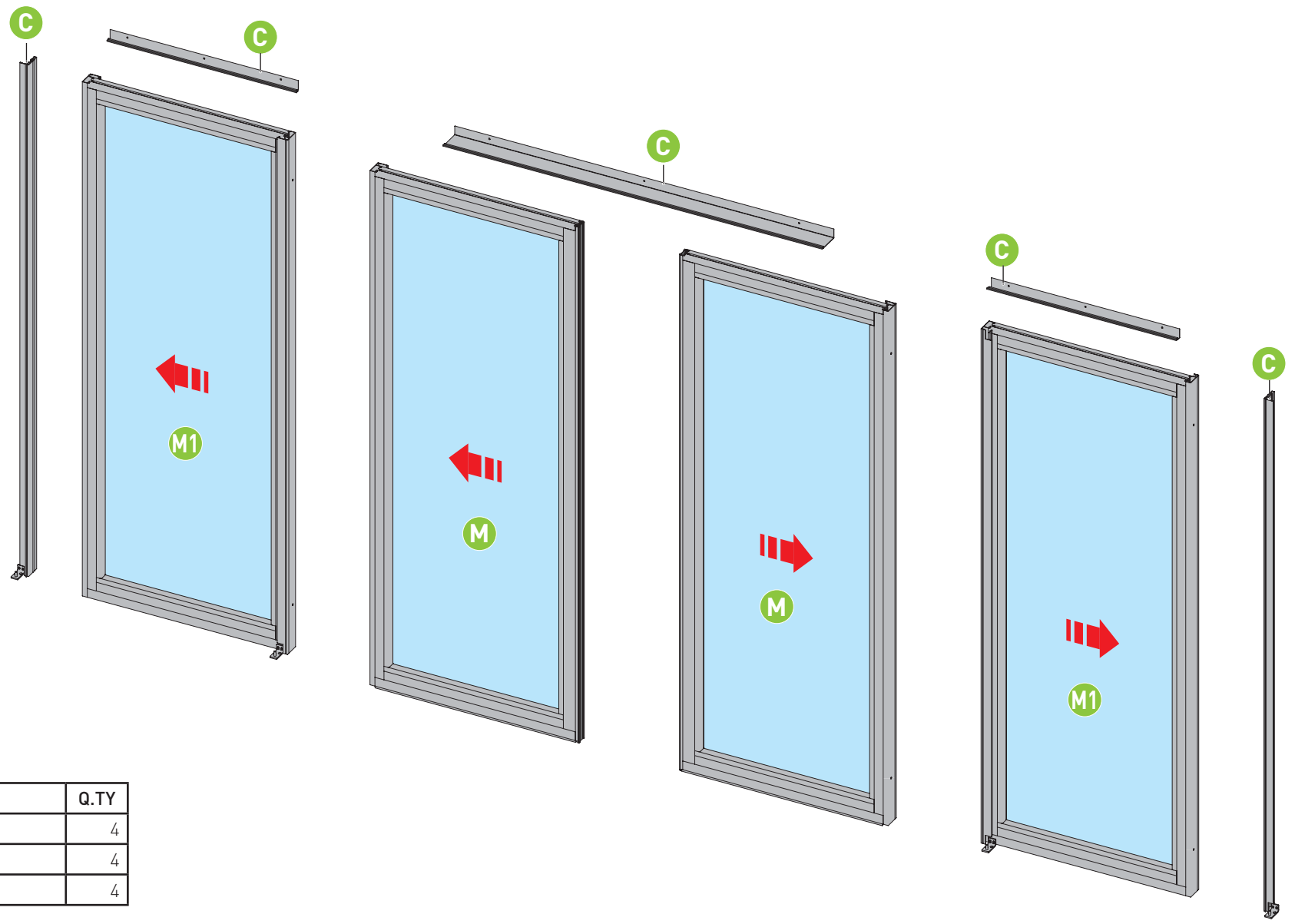
**i** Os automatismos VALOR T estão excluídos da configuração.



# 9. Vertical and horizontal section of 2+2 moving door wings

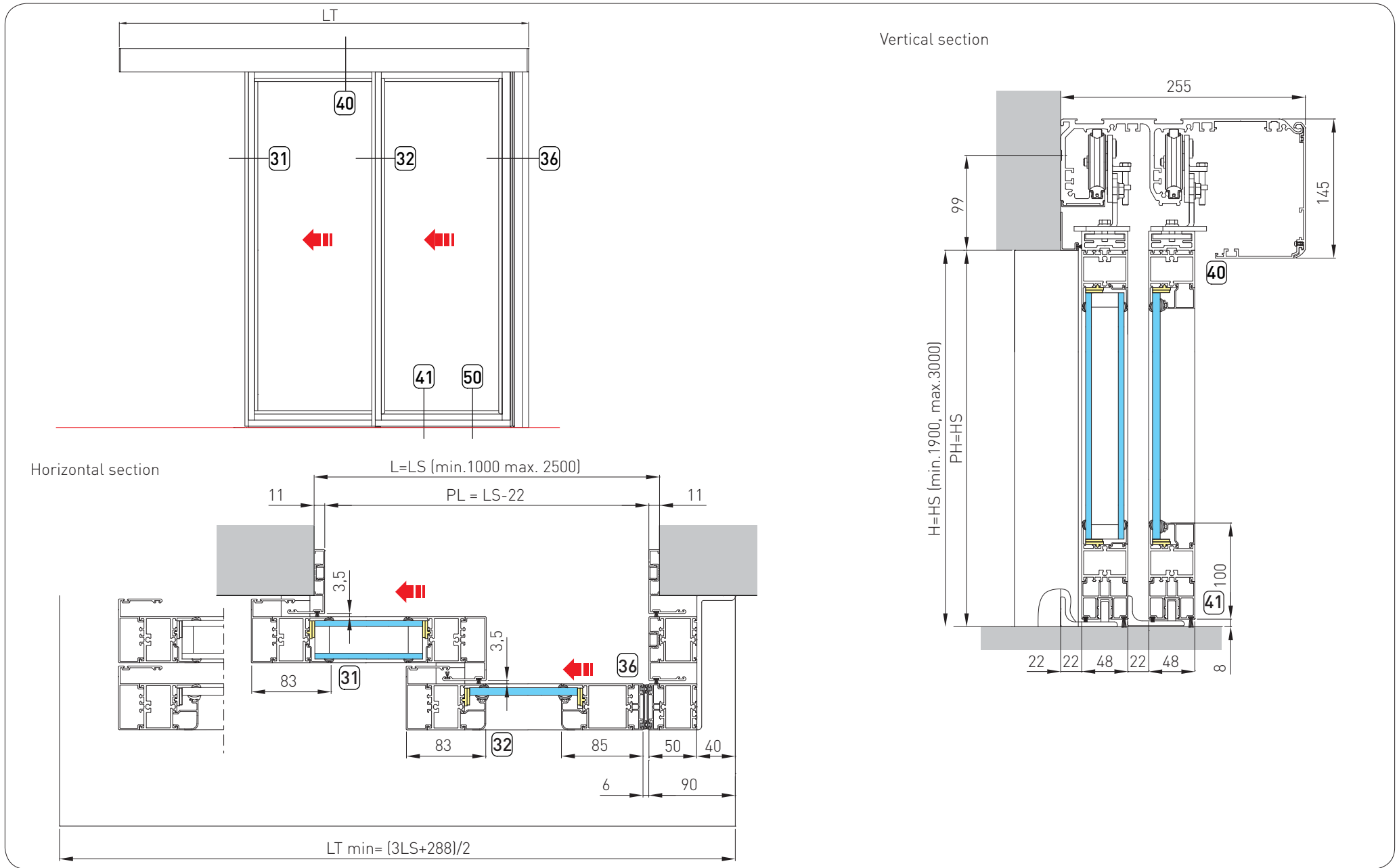


# 9.1 Exploded diagram of 2+2 moving door wings



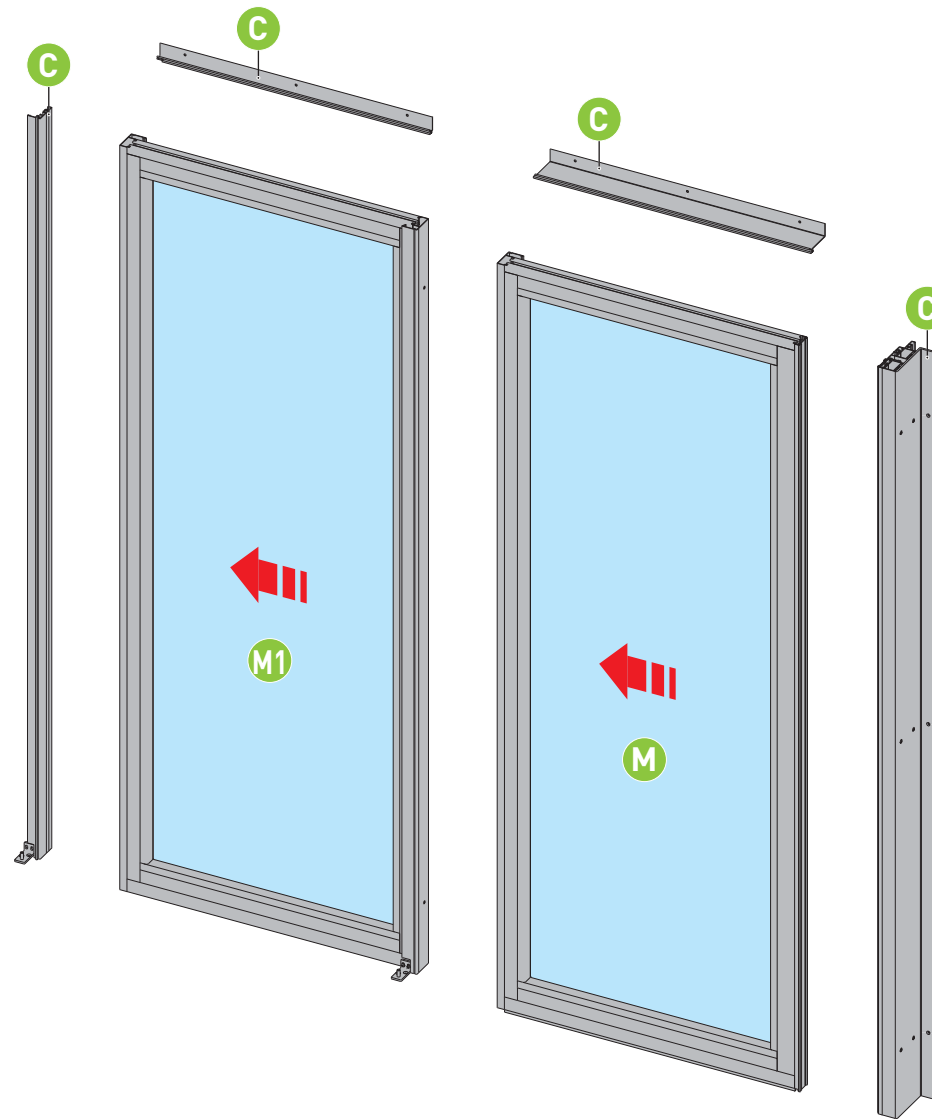
KIT	Q.TY
KP48	4
KAM48	4
KSV48	4

# 10. Vertical and horizontal section of 1+1 moving door wing with left-hand opening



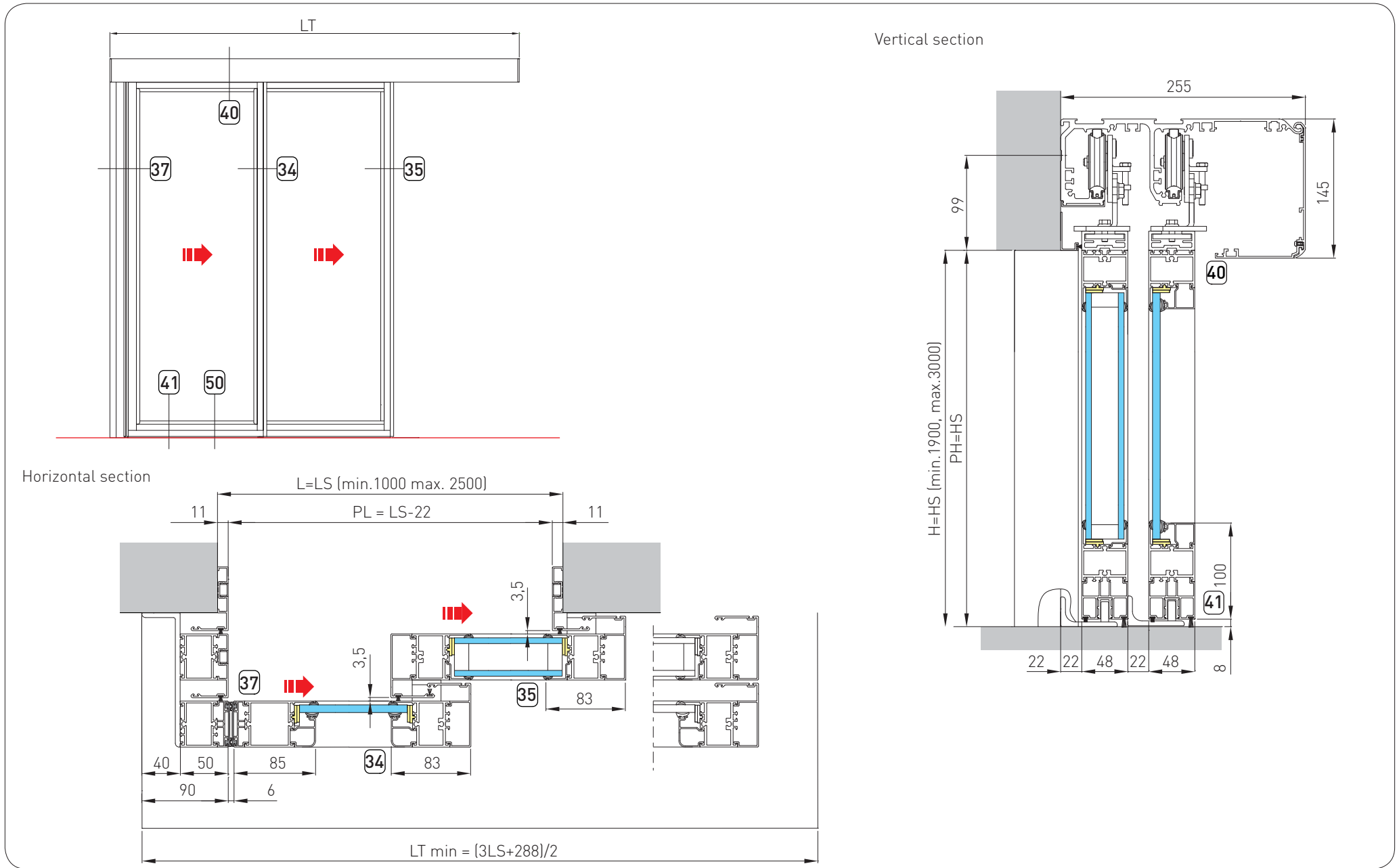
# 10.1 Exploded diagram of 1+1 moving door wing with left-hand opening

T17



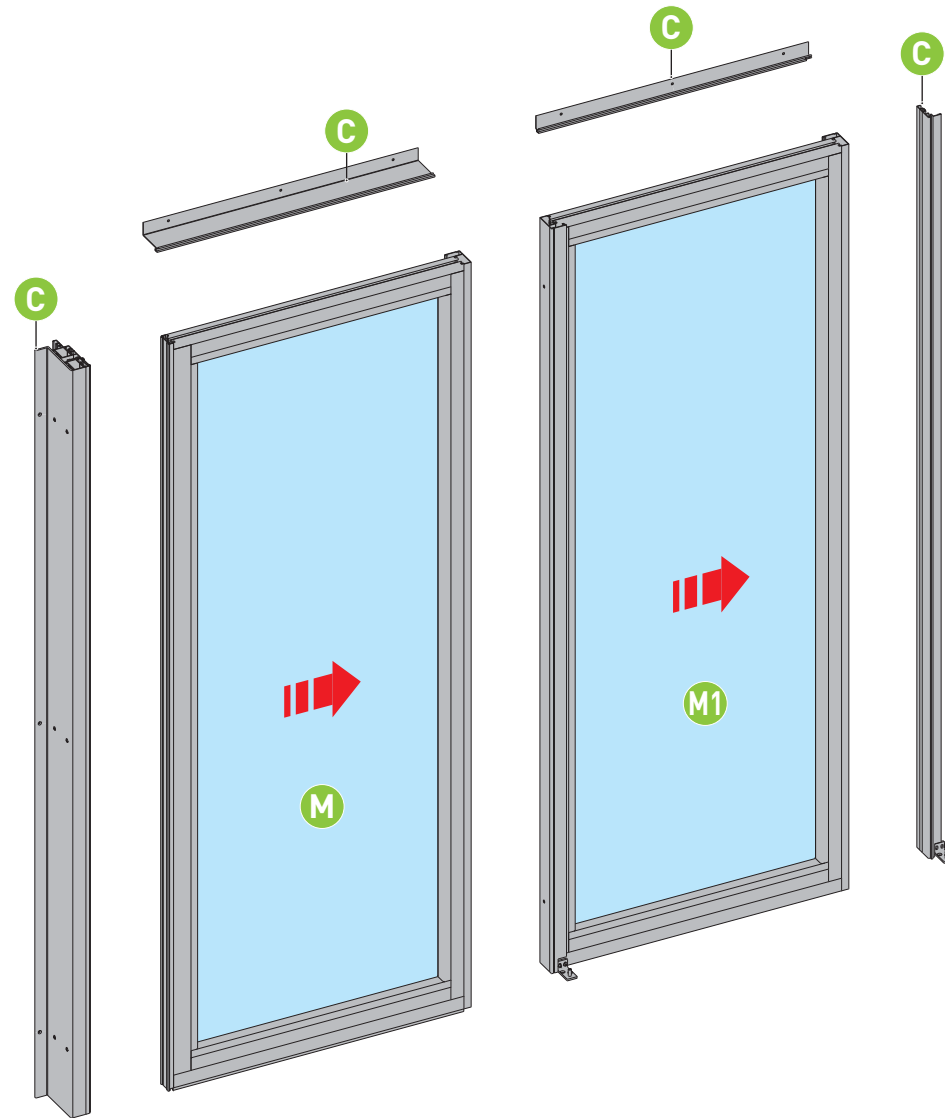
KIT	Q.TY
KC48	1
KP48	2
KAM48	2
KSV48	2

# 11. Vertical and horizontal section of 1+1 moving door wing with right-hand opening



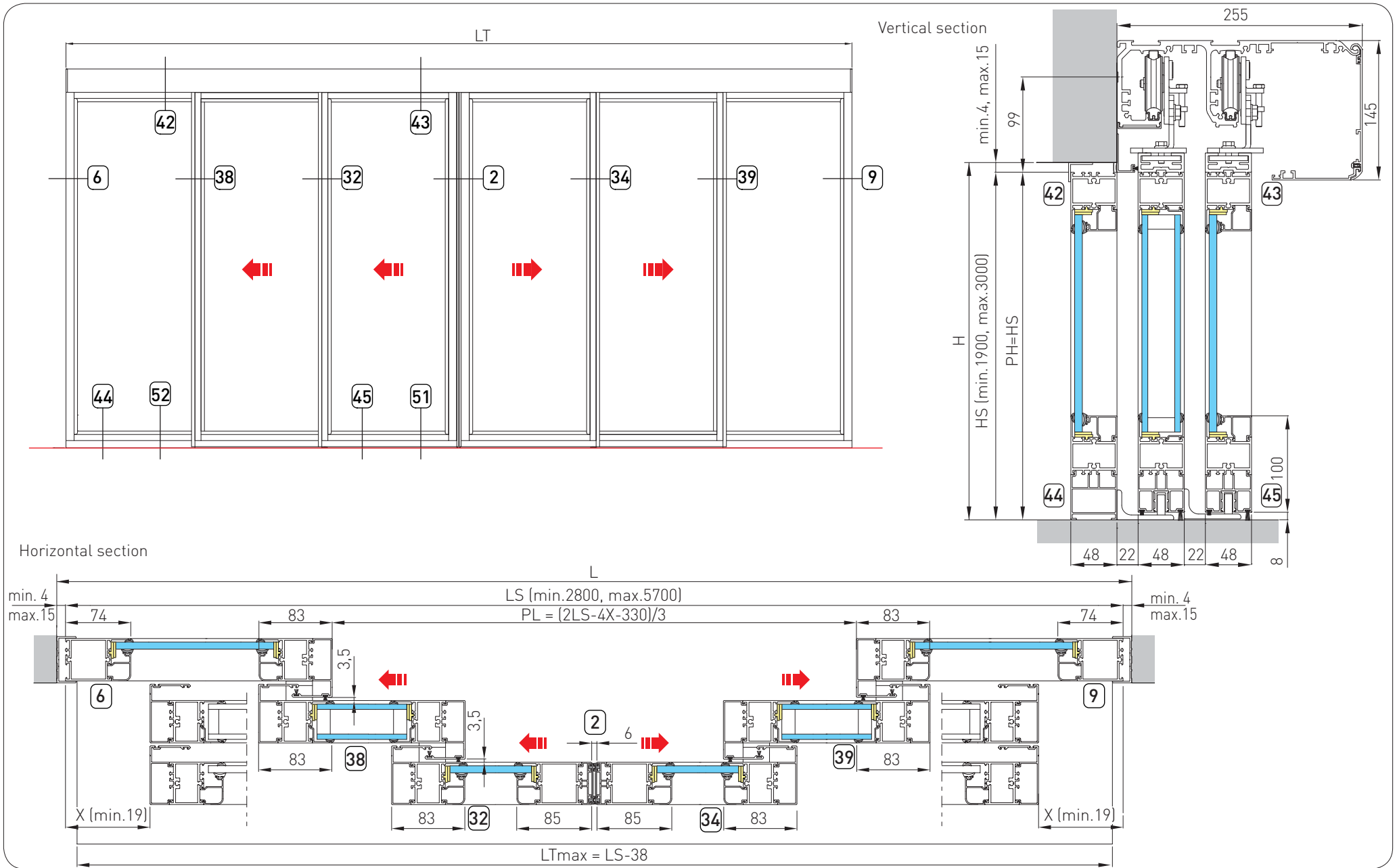


# 11.1 Exploded diagram of 1+1 moving door wing with right-hand opening

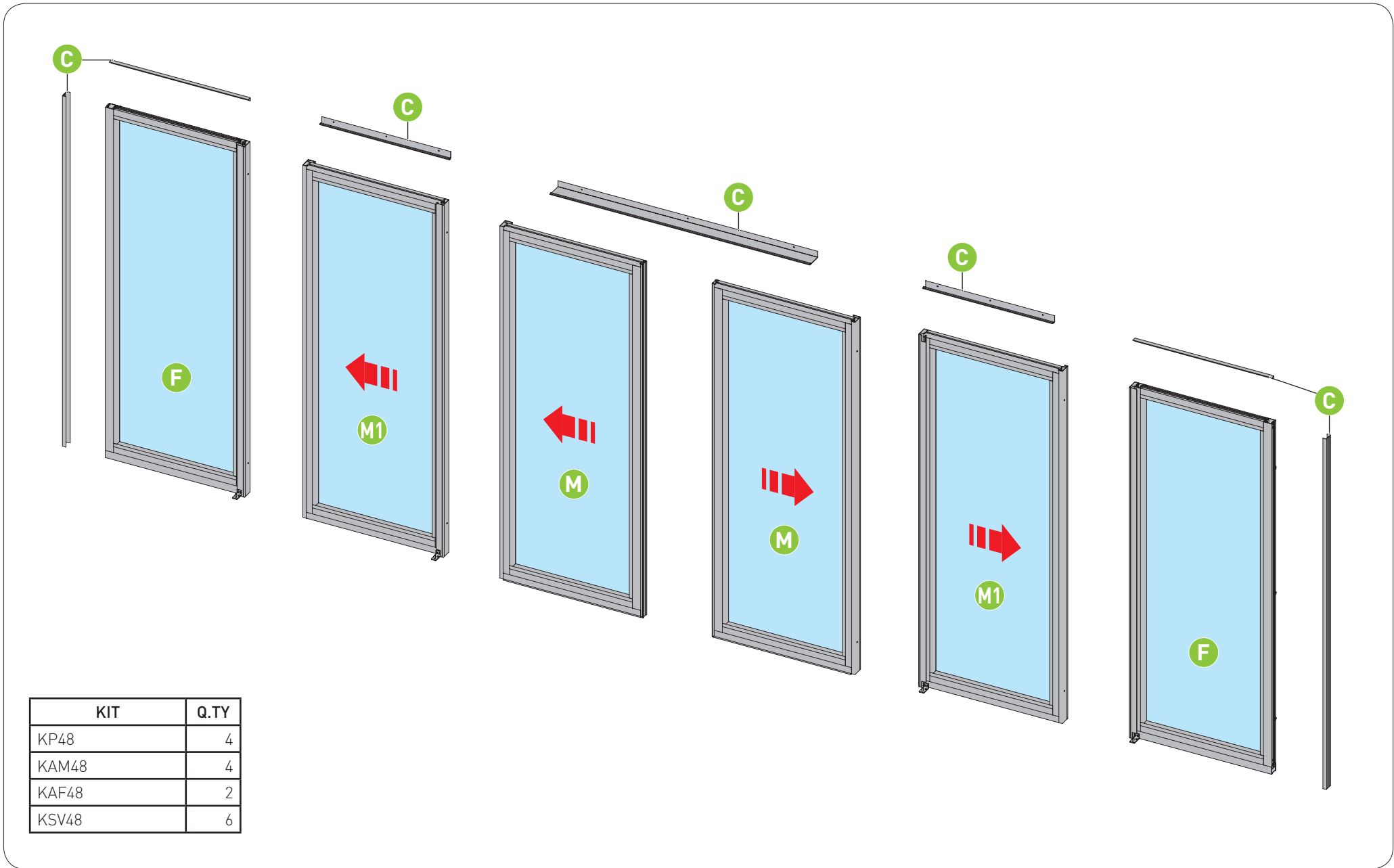


KIT	Q.TY
KC48	1
KP48	2
KAM48	2
KSV48	2

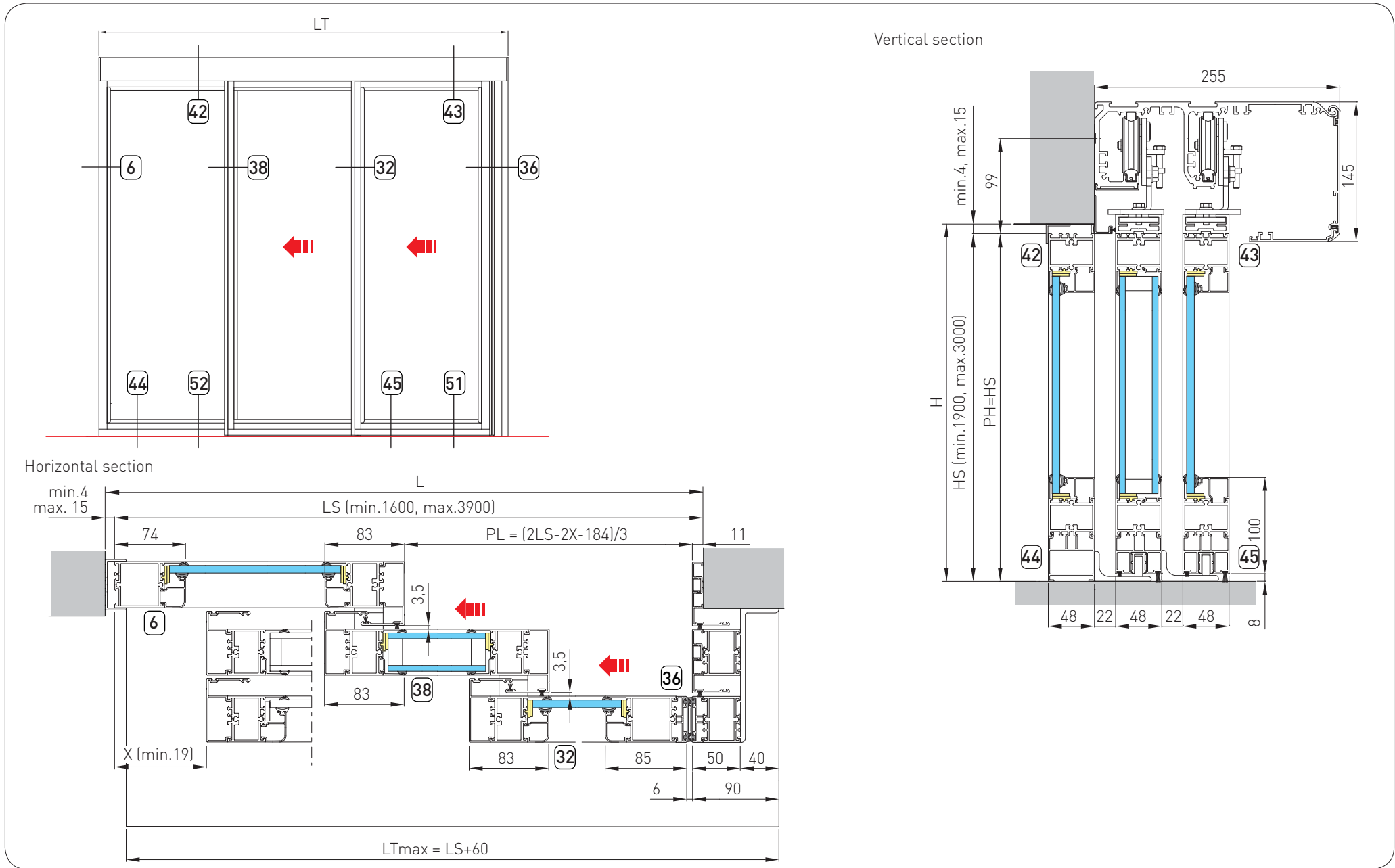
# 12. Vertical and horizontal section of 2+2 moving door wings and 2 fixed door wings



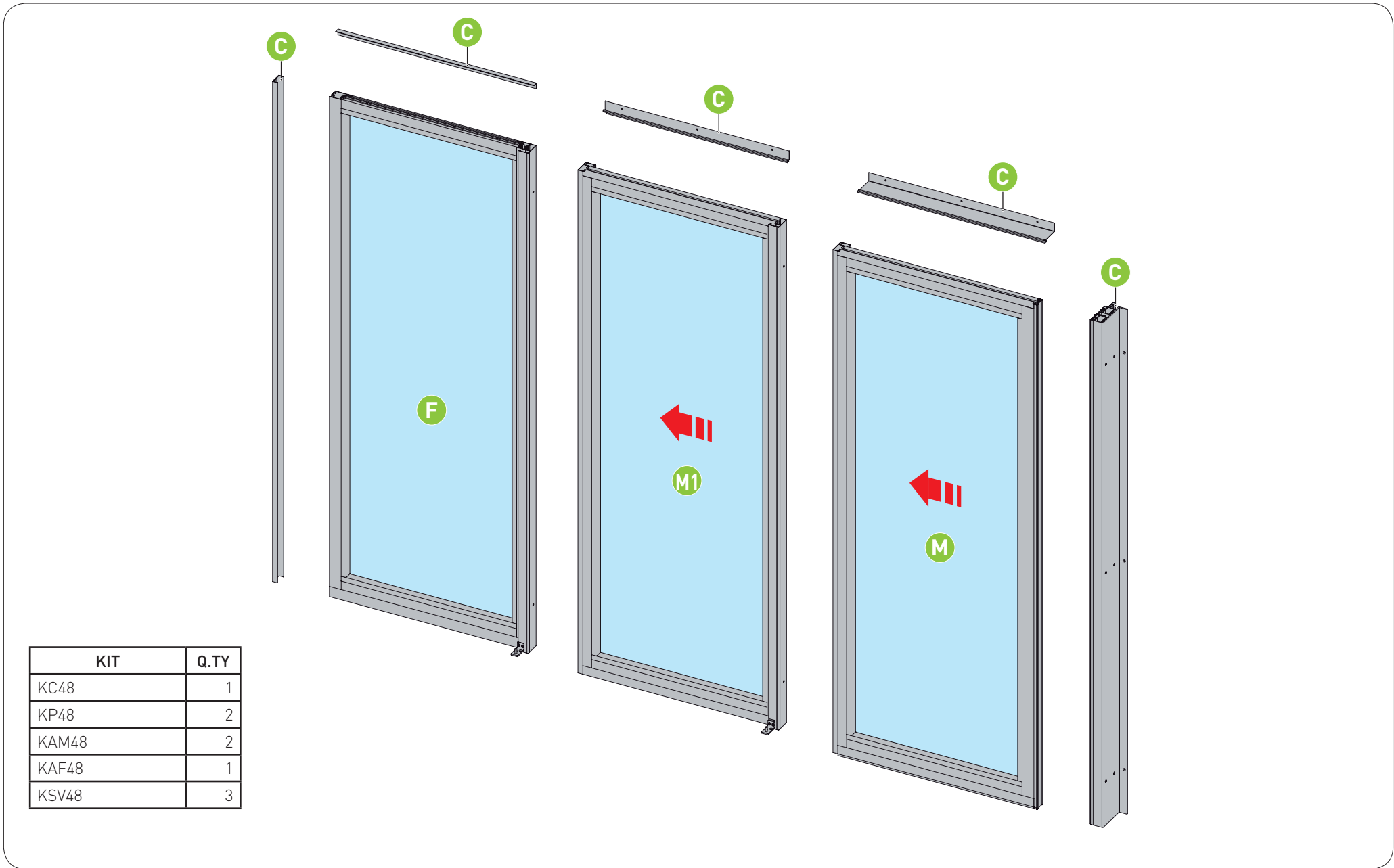
# 12.1 Exploded diagram of 2+2 moving door wings and 2 fixed door wings



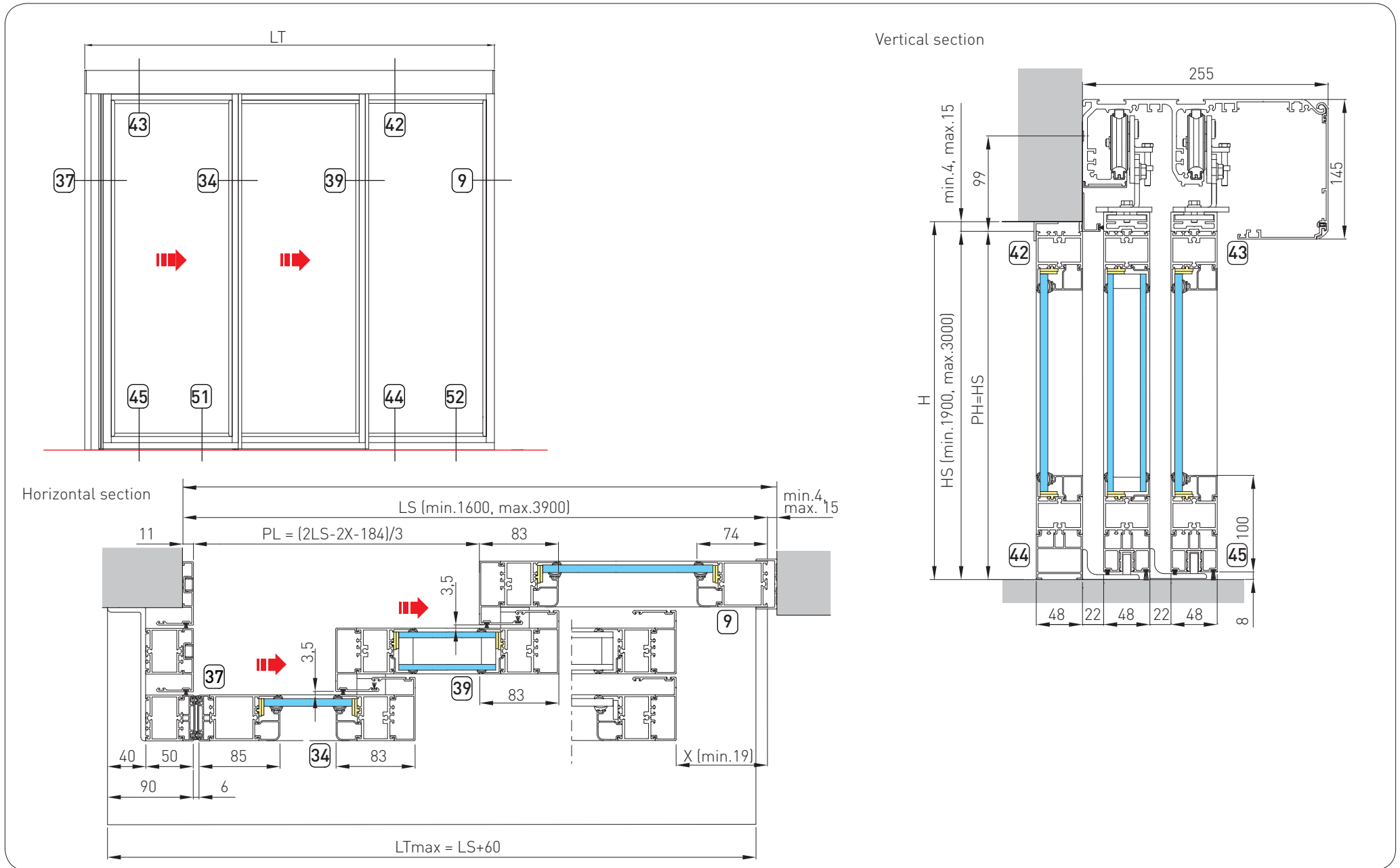
# 13. Vertical and horizontal section of 1+1 moving door wing and 1 fixed door wing with left-hand opening



### 13.1 Exploded diagram of 1+1 moving door wing and 1 fixed door wing with left-hand opening

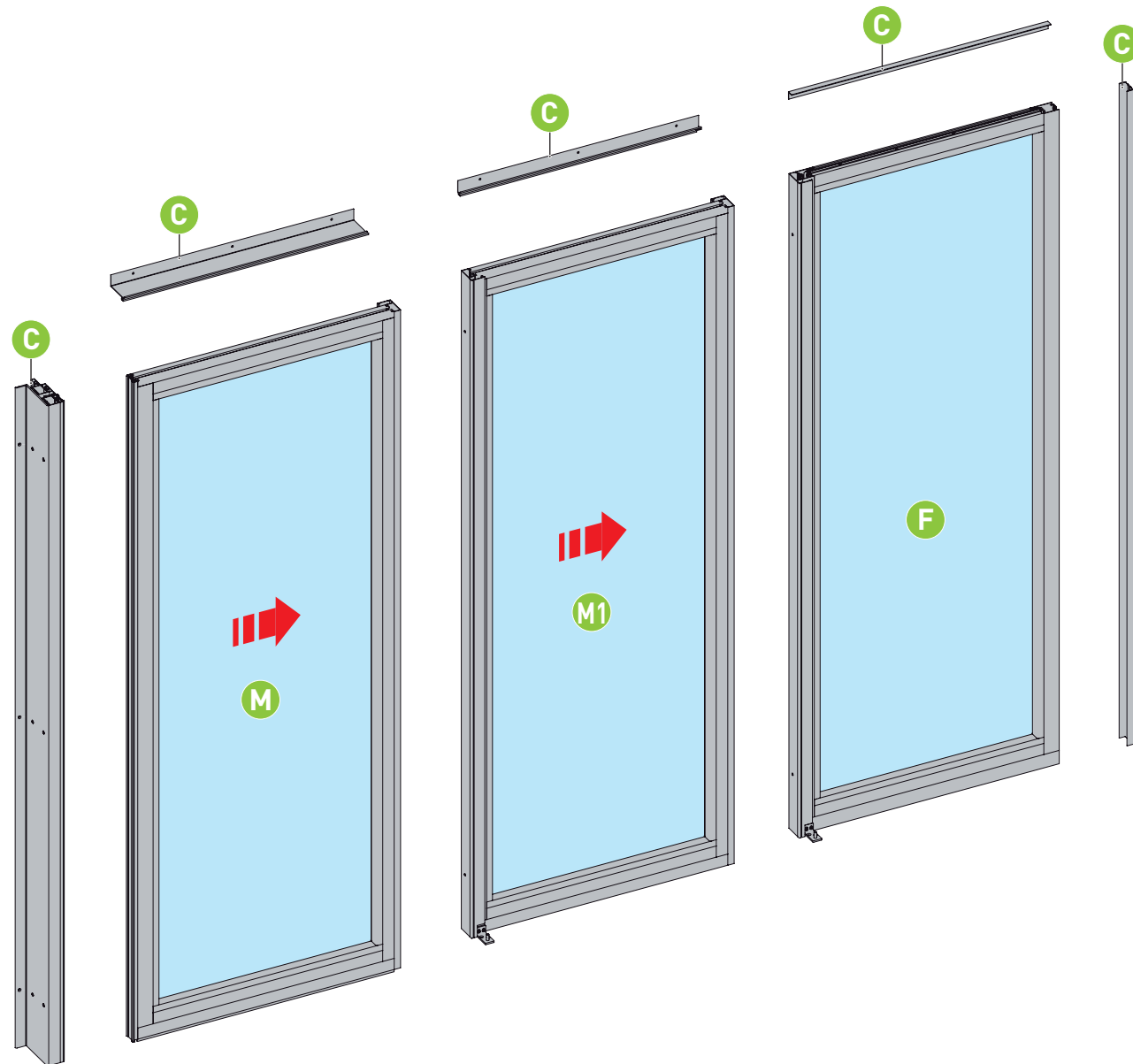


# 14. Vertical and horizontal section of 1+1 moving door wing and 1 fixed door wing with right-hand opening



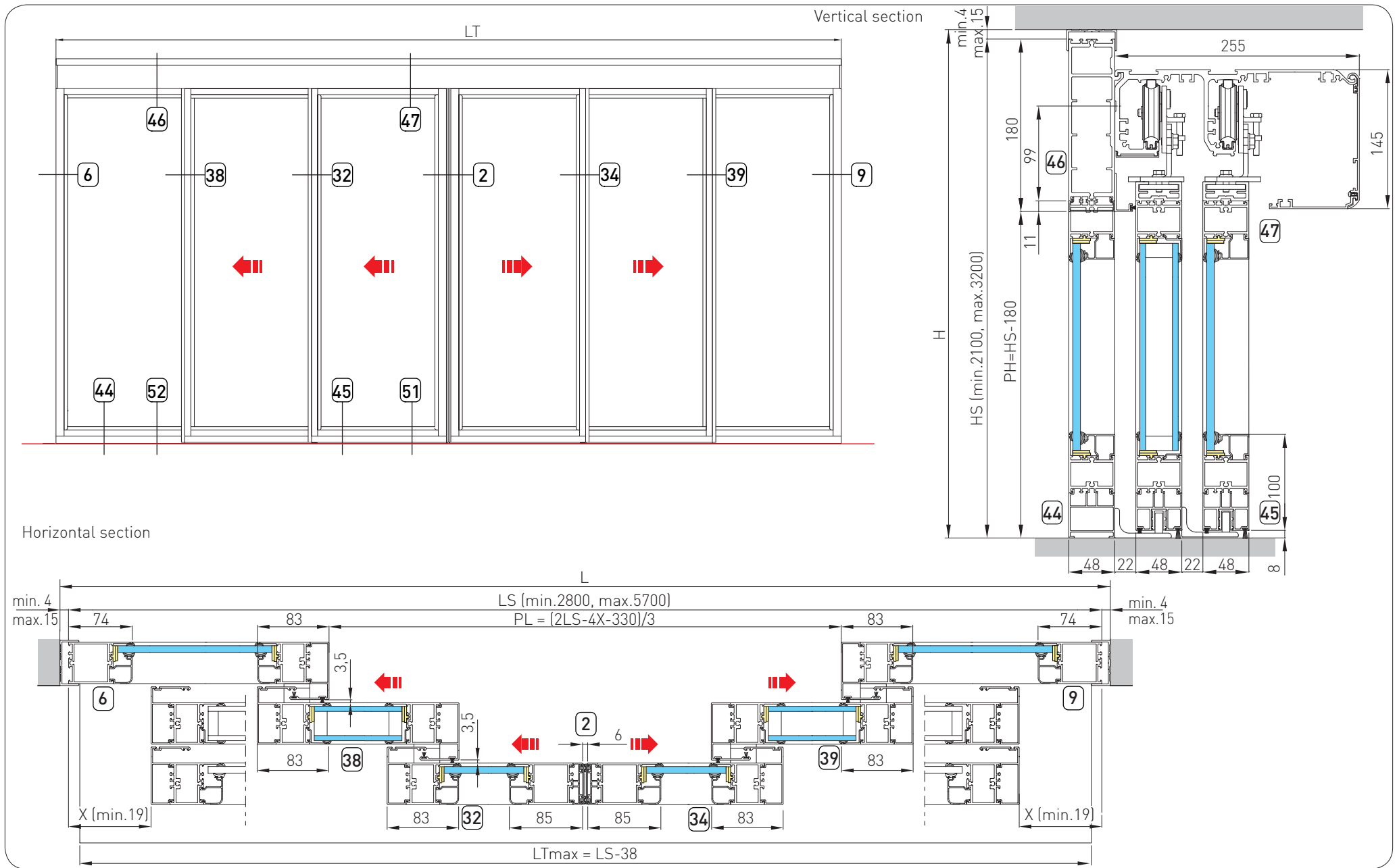
# 14.1 Vertical and horizontal section of 1+1 moving door wing and 1 fixed door wing with right-hand opening

T25



KIT	Q.TY
KC48	1
KP48	2
KAM48	2
KAF48	1
KSV48	3

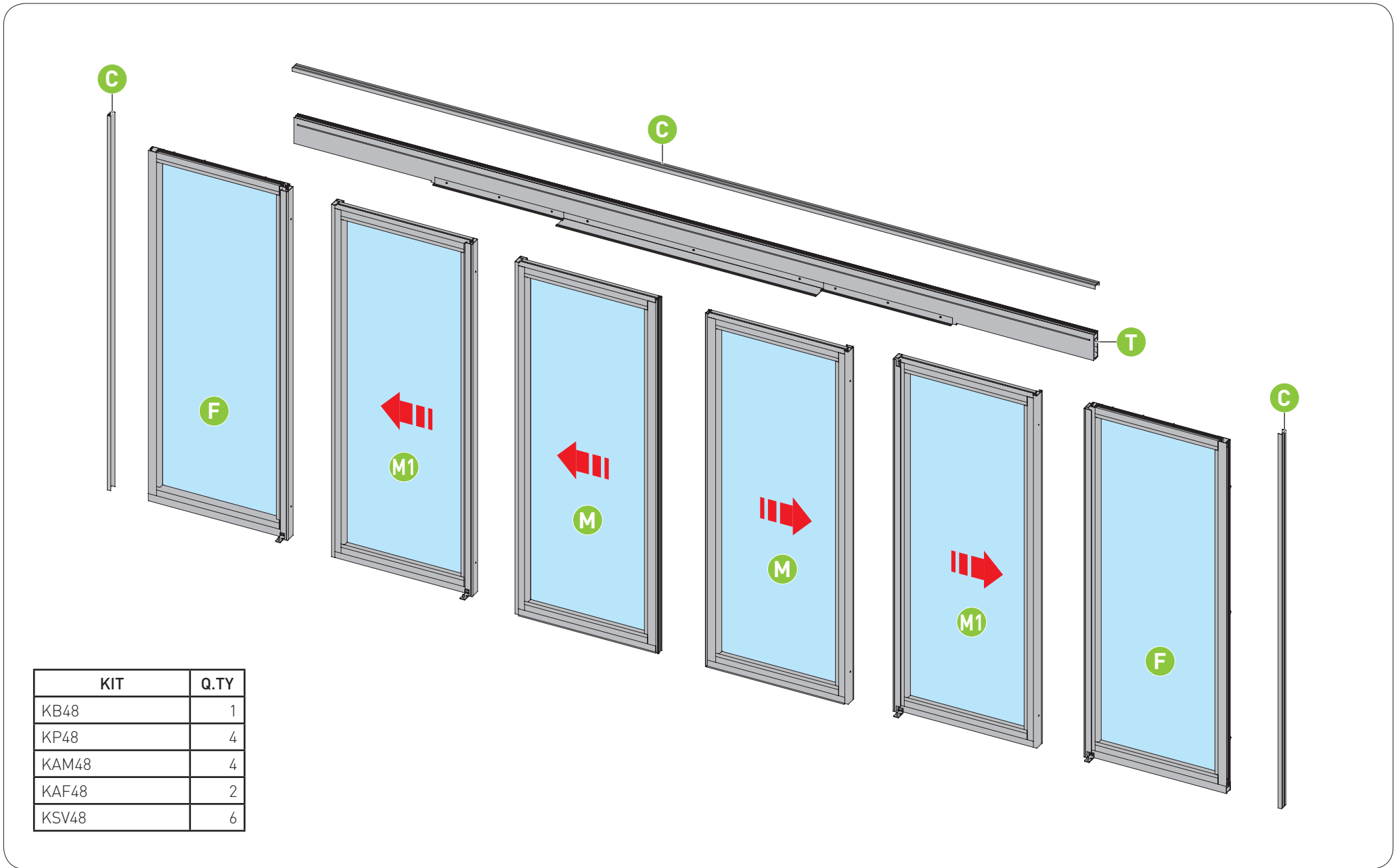
# 15. Vertical and horizontal section of 2+2 moving door wings and 2 fixed door wings with beam





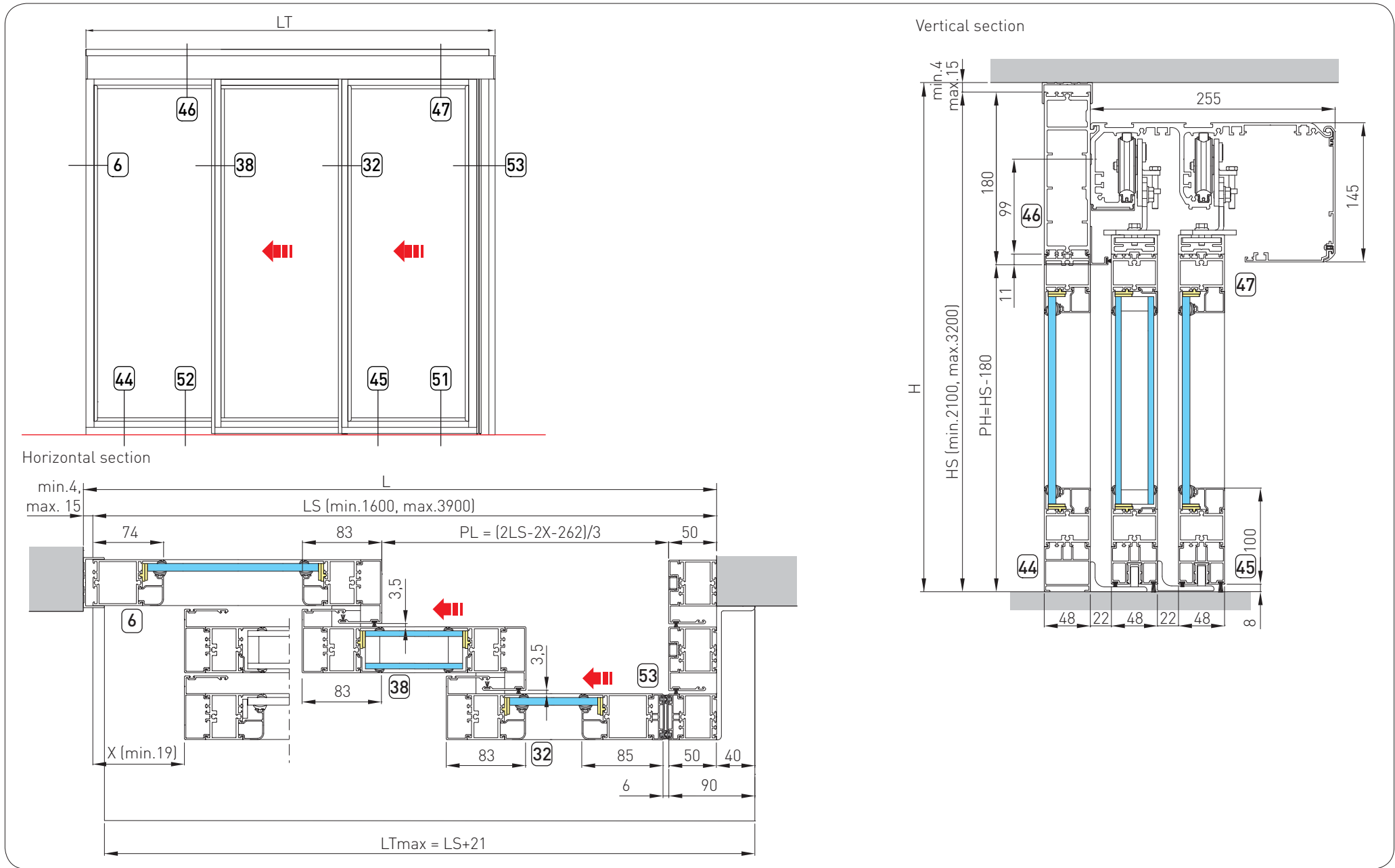
15.1 Exploded diagram of two moving door wings and two fixed door wings with beam

T27

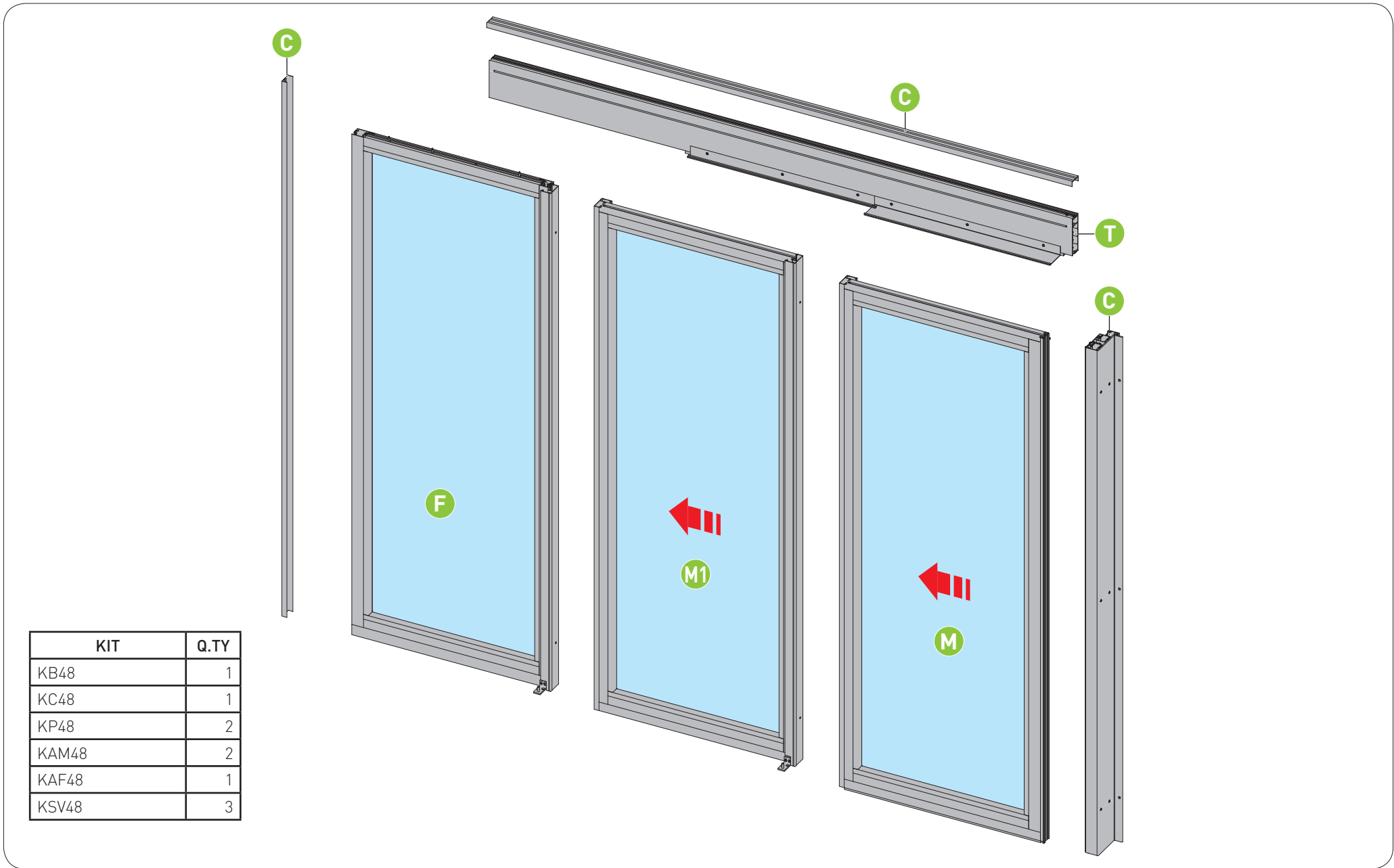


KIT	Q.TY
KB48	1
KP48	4
KAM48	4
KAF48	2
KSV48	6

# 16. Vertical and horizontal section of 1+1 moving door wing and 1 fixed door wing with left-hand opening

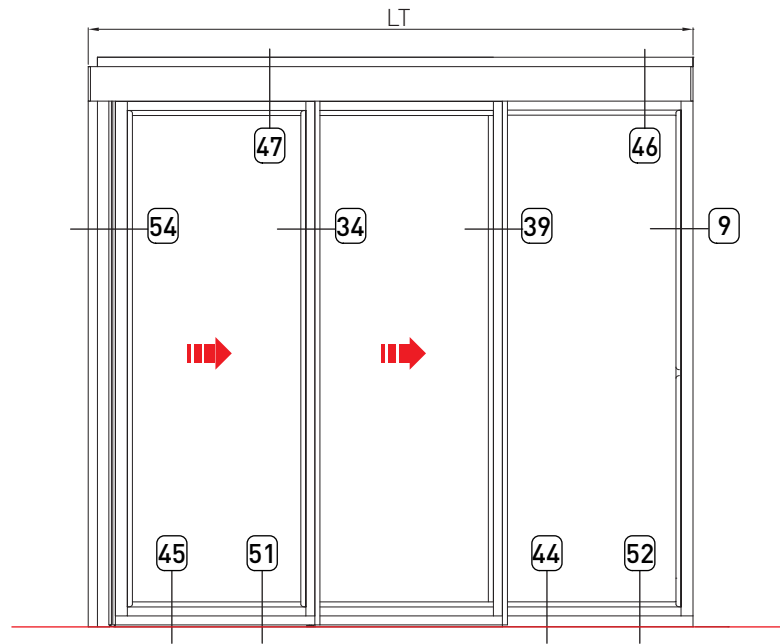


16.1 Exploded diagram of 1+1 moving door wing and 1 fixed door wing with beam with left-hand opening

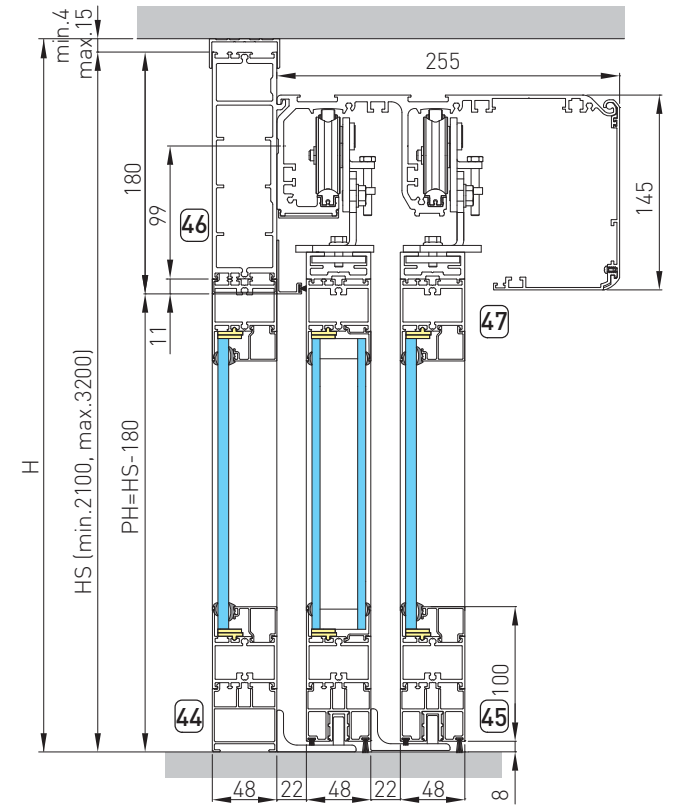


# 17. Vertical and horizontal section of 1+1 moving door wing and 1 fixed door wing with beam with right-hand opening

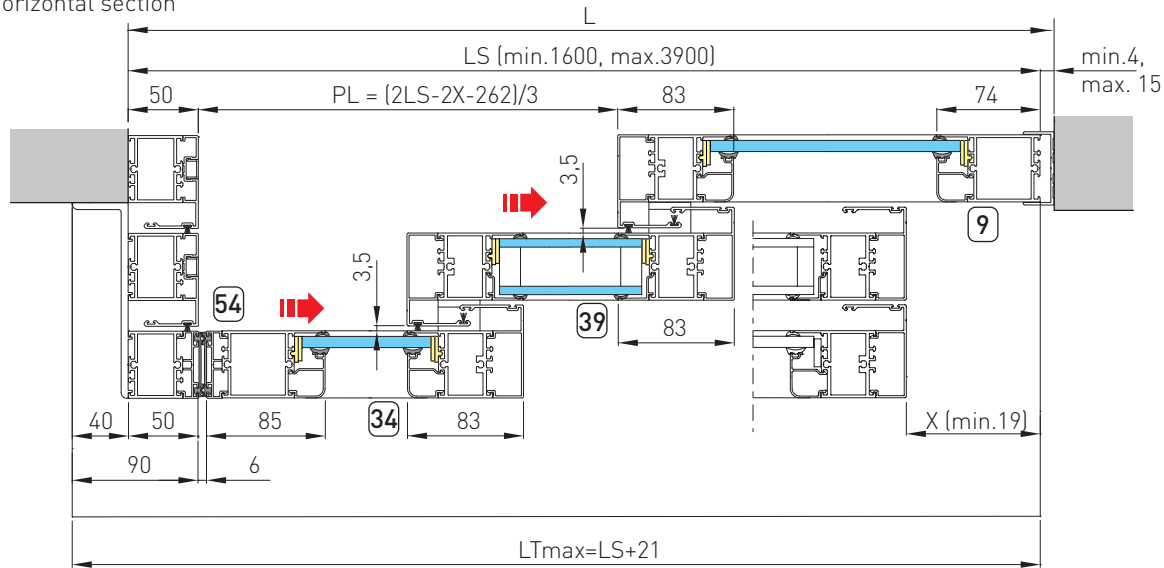
T30



Vertical section

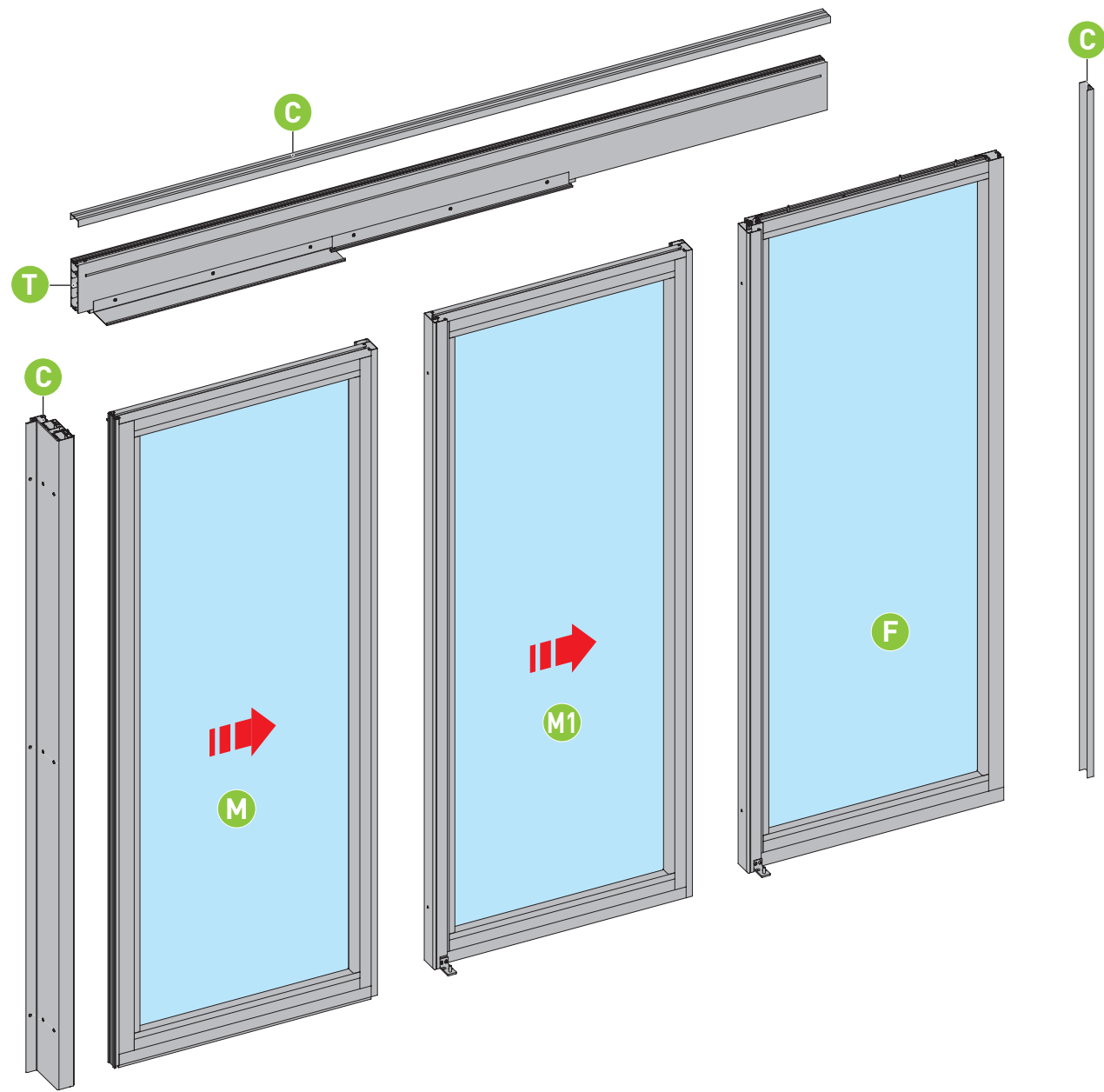


Horizontal section



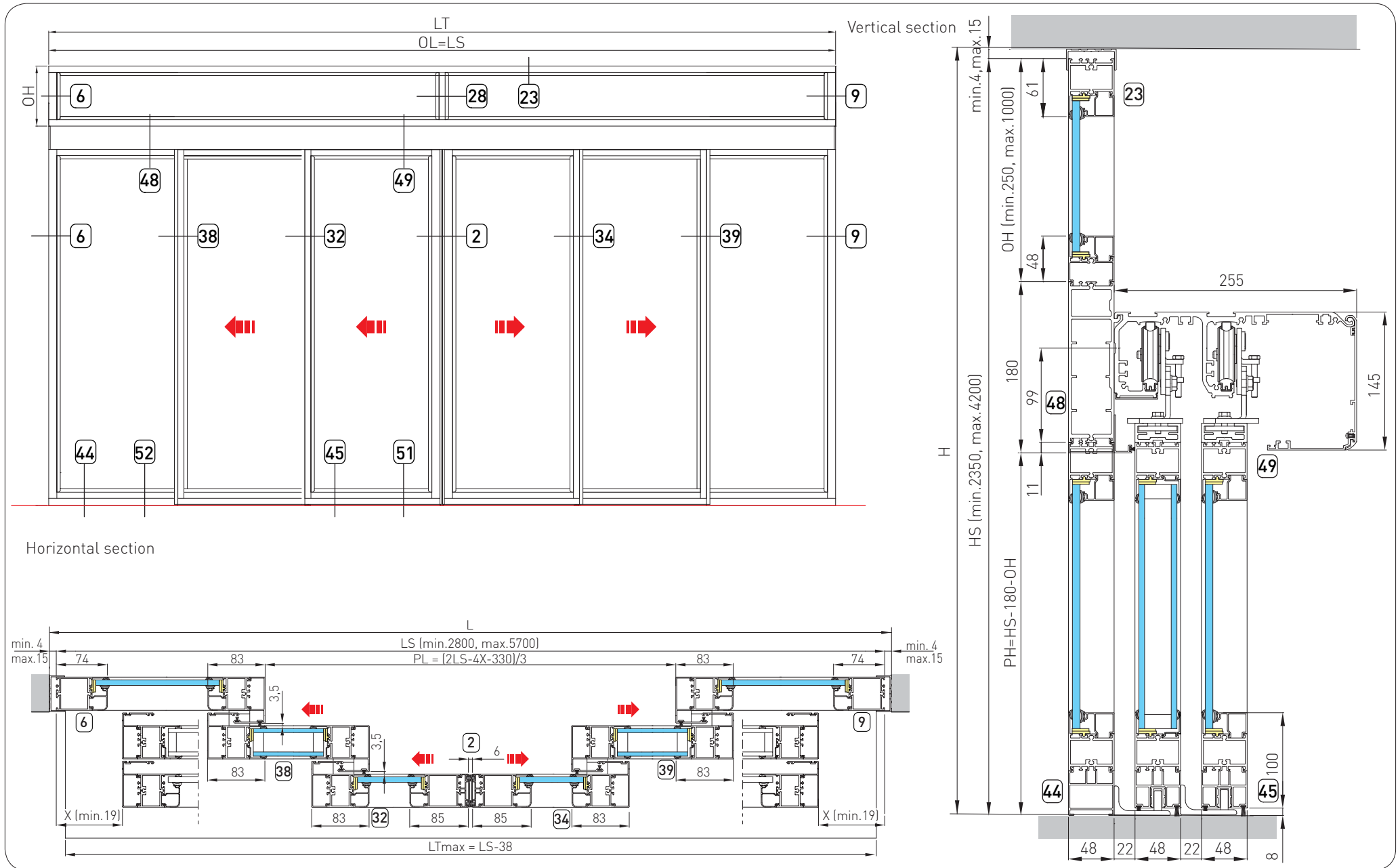
17.1 Exploded diagram of 1+1 moving door wing and 1 fixed door wing with beam with right-hand opening

T31

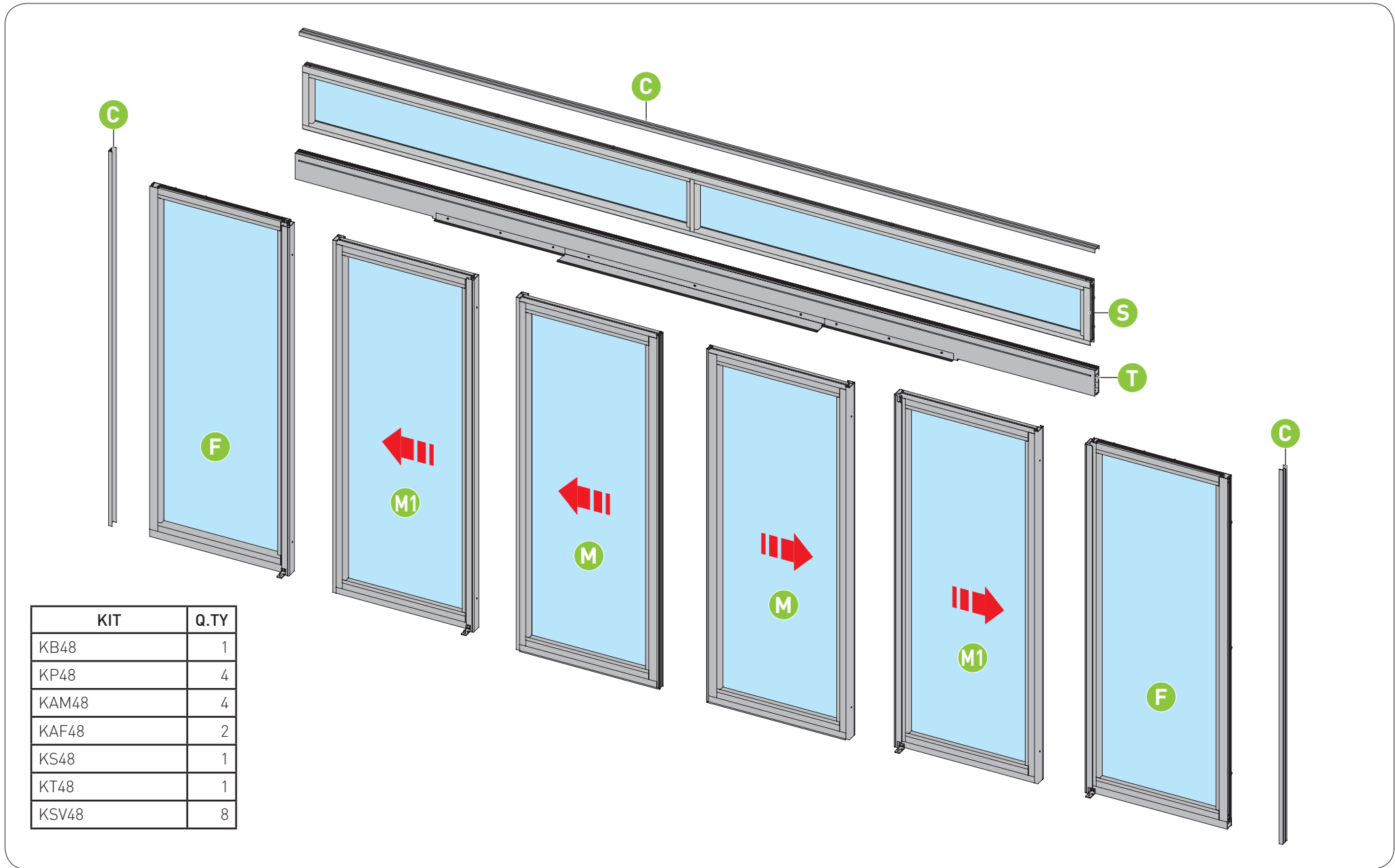


KIT	Q.TY
KB48	1
KC48	1
KP48	2
KAM48	2
KAF48	1
KSV48	3

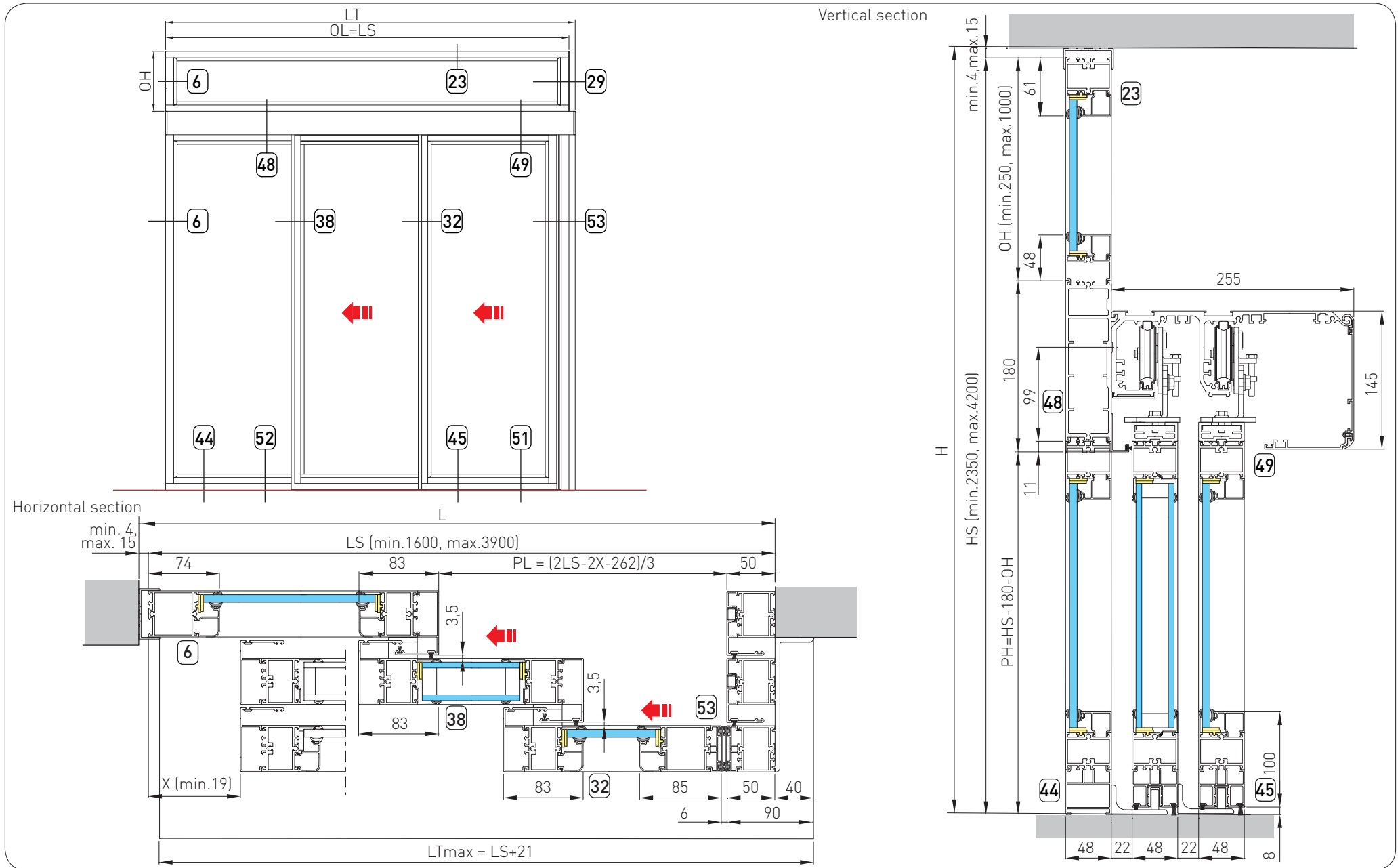
# 18. Vertical and horizontal section of 2+2 moving door wings and 2 fixed door wings with overlight



18.1 Exploded diagram of 2+2 moving door wings and 2 fixed door wings with overlight

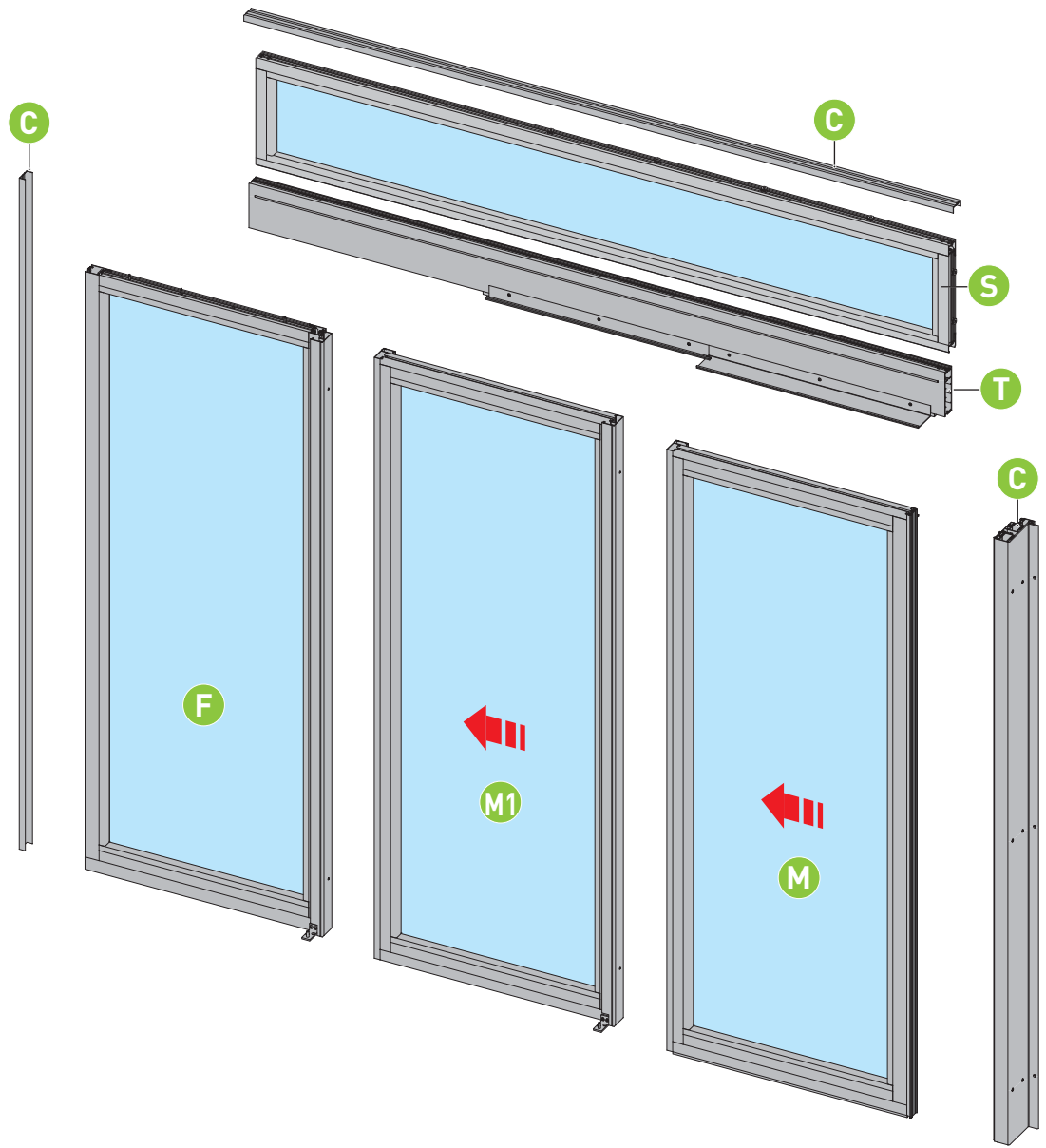


# 19. Vertical and horizontal section of 1+1 moving door wing and 1 fixed door wing with left-hand opening with overhead



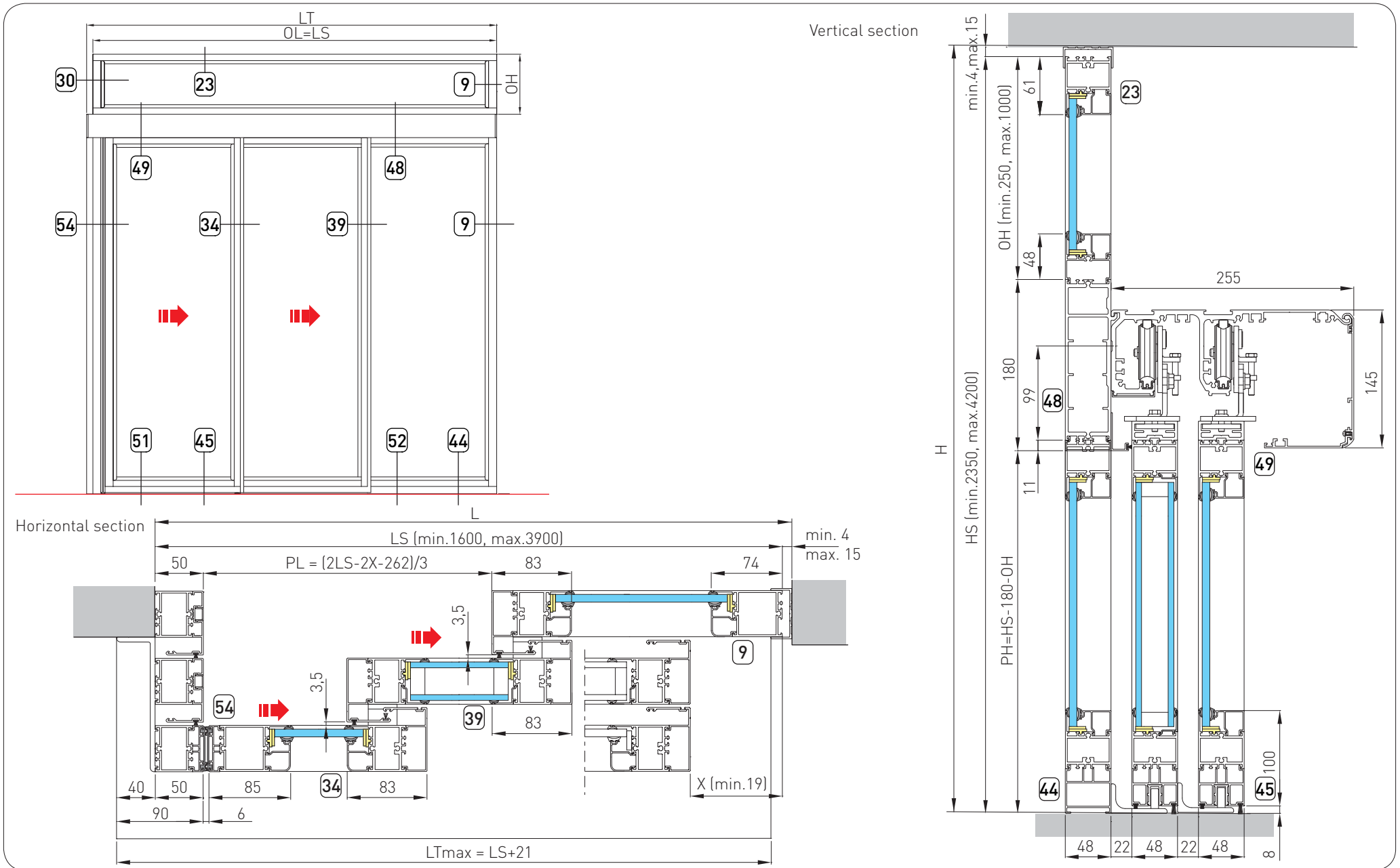


19.1 Exploded diagram of 1+1 moving door wing and 1 fixed door wing with left-hand opening with overlight



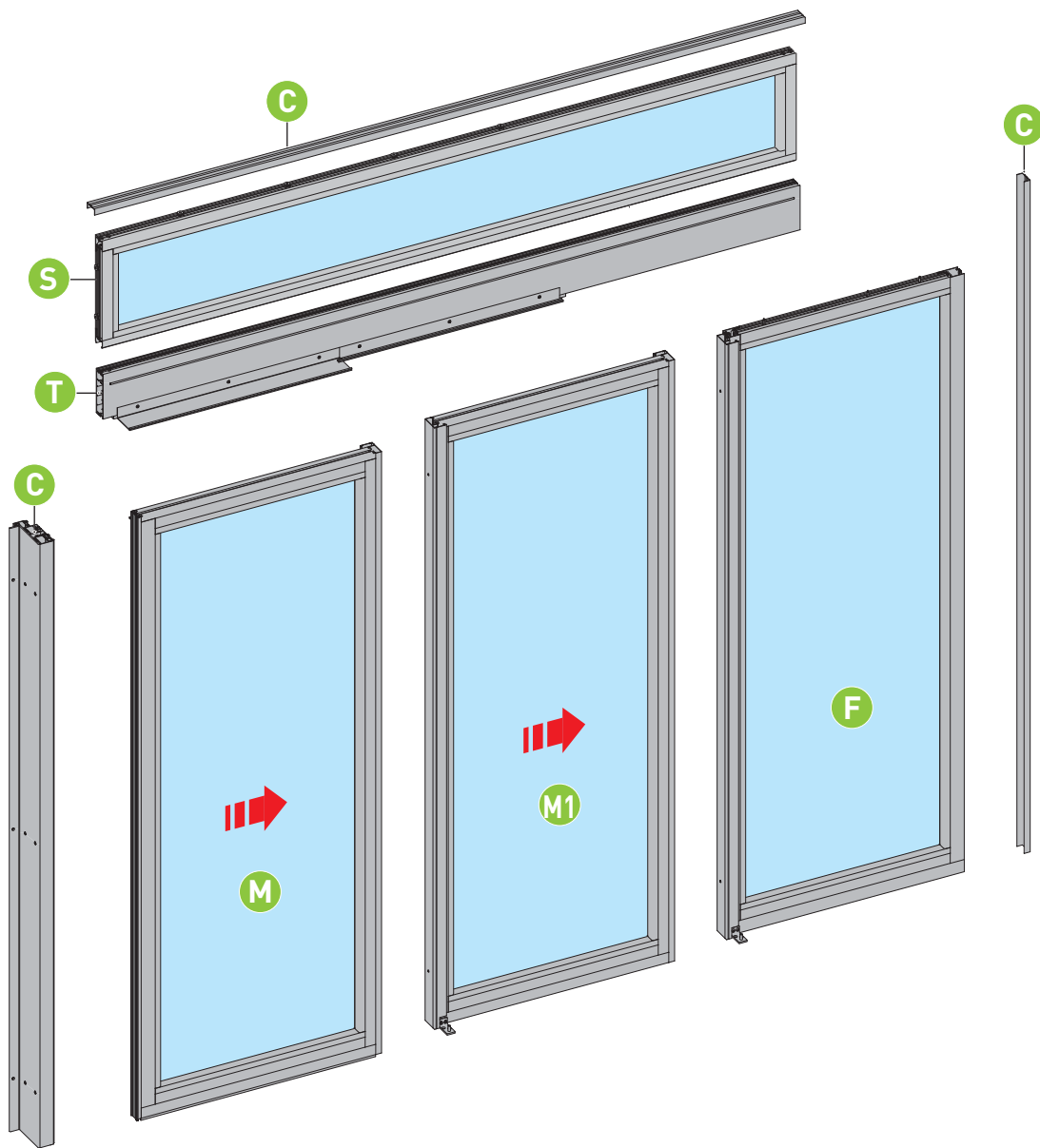
KIT	Q.TY
KB48	1
KC48	1
KP48	2
KAM48	2
KAF48	1
KS48	1
KSV48	4

20. Vertical and horizontal section of 1+1 moving door wing and 1 fixed door wing with right-hand opening with overhead



20.1 Exploded diagram of 1+1 moving door wing and 1 fixed door wing with right-hand opening with overlight

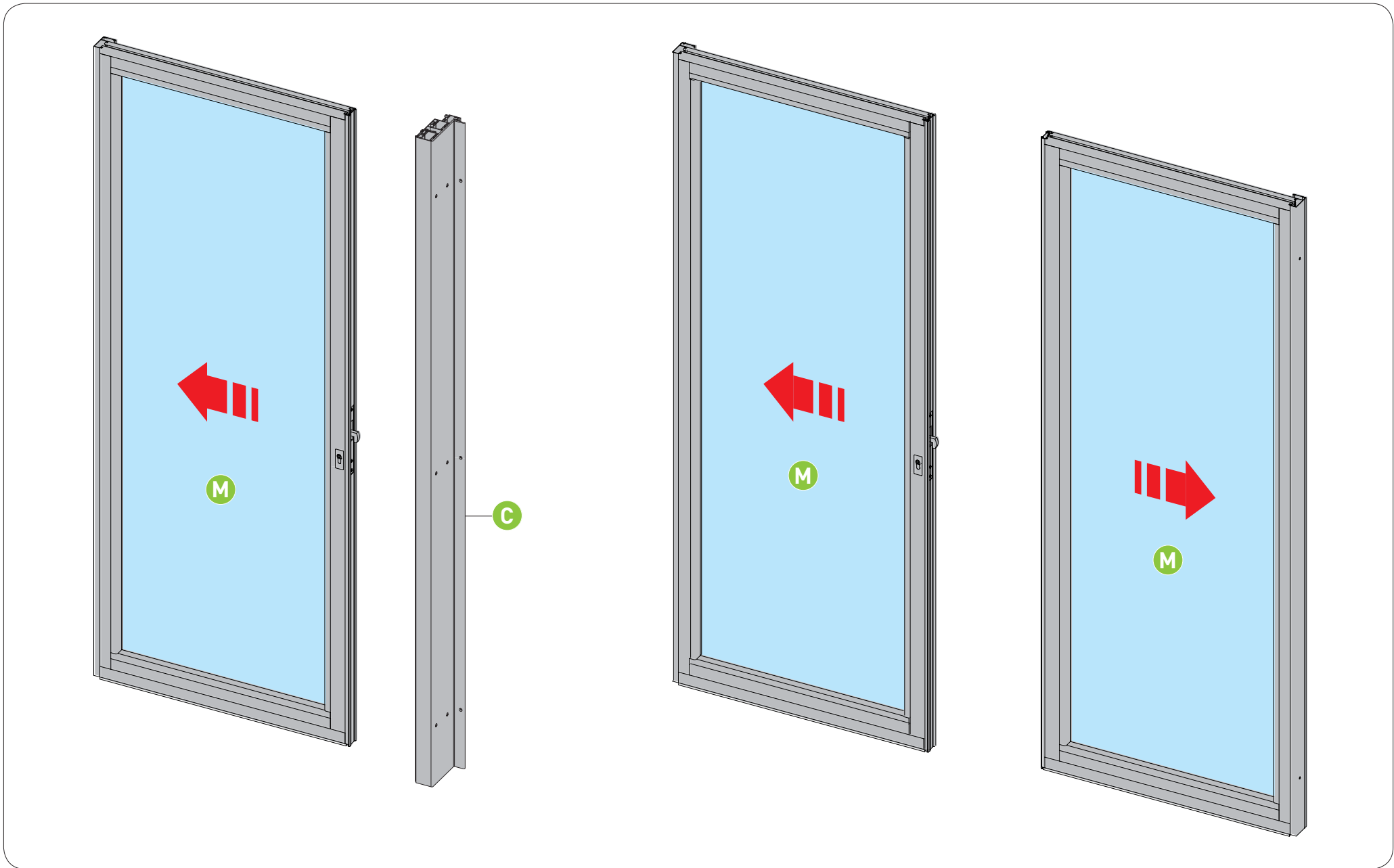
T37



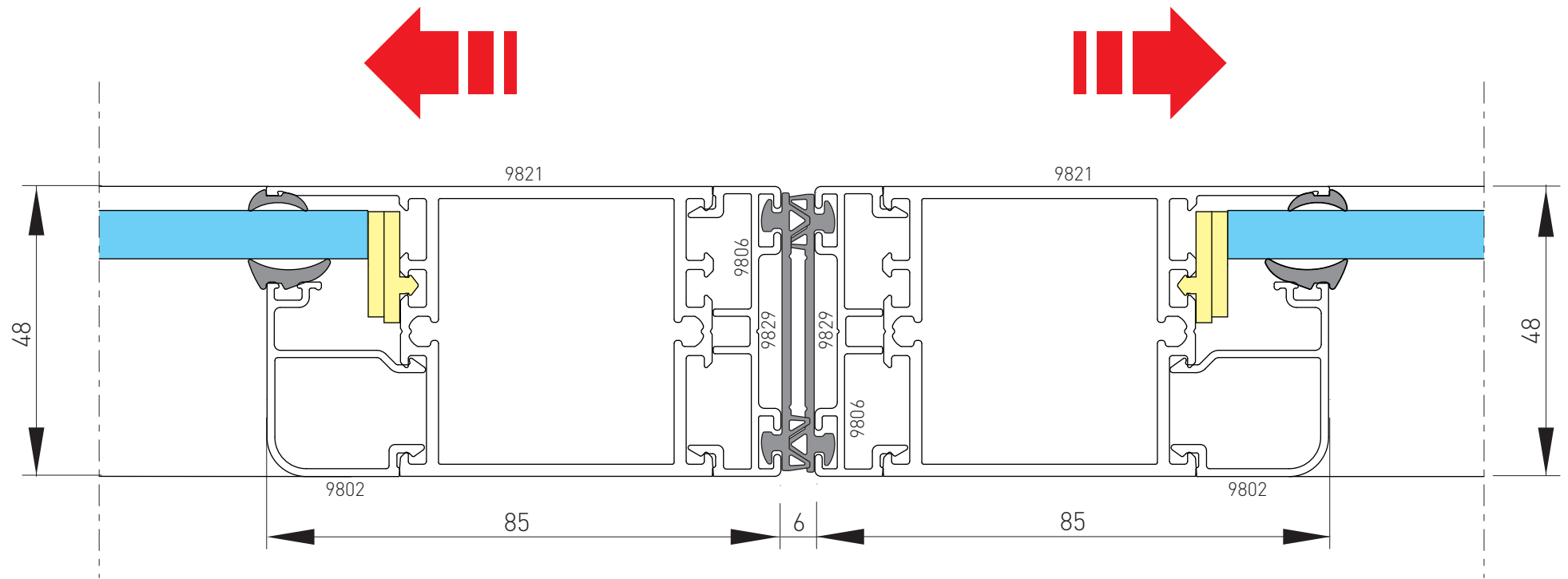
KIT	Q.TY
KB48	1
KC48	1
KP48	2
KAM48	2
KAF48	1
KS48	1
KSV48	4

# 21. Exploded diagram of mechanical hook bolt lock for one or two moving wings

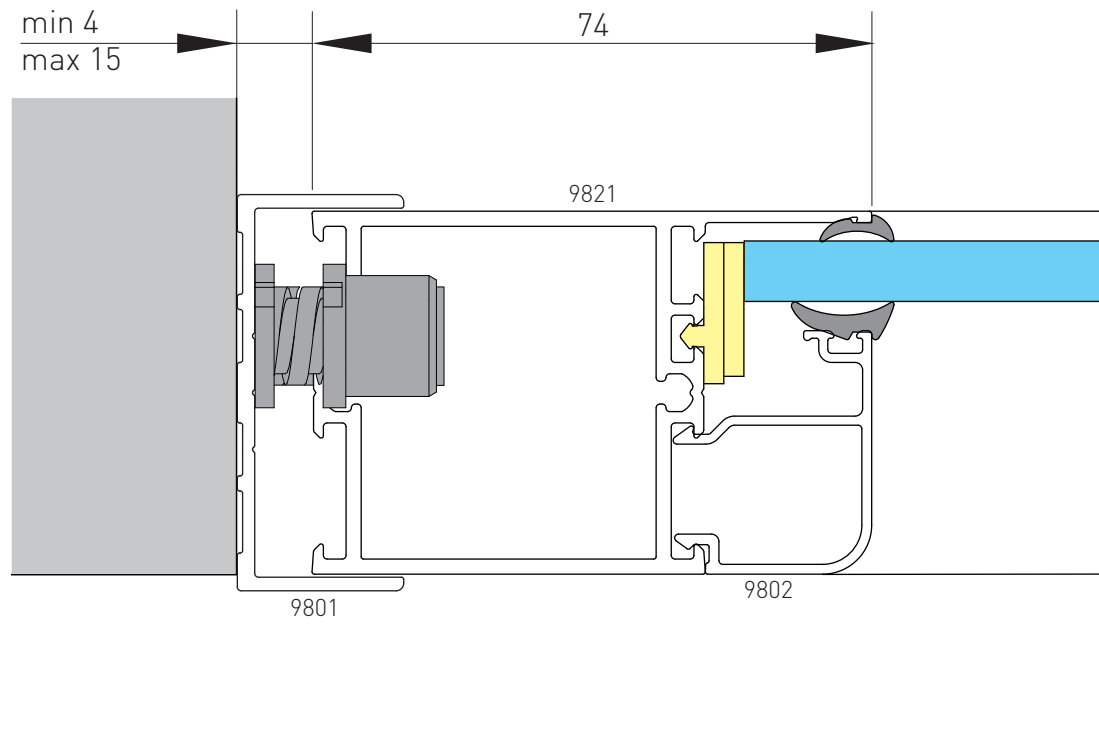
T38



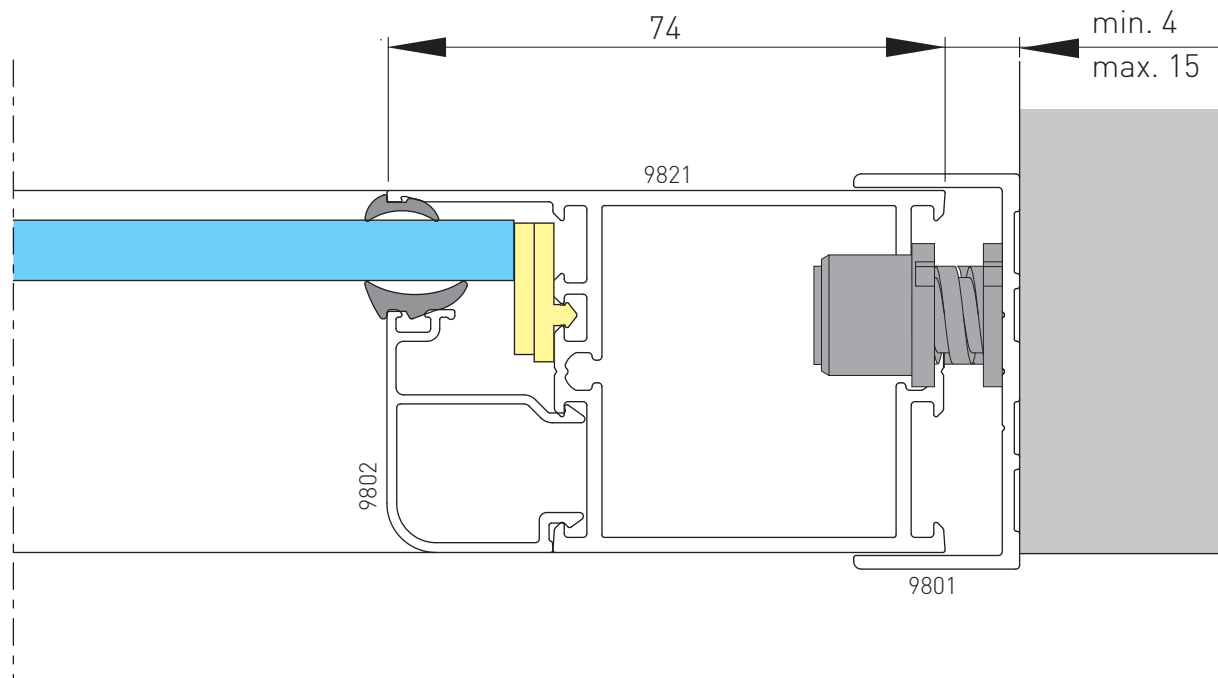
2

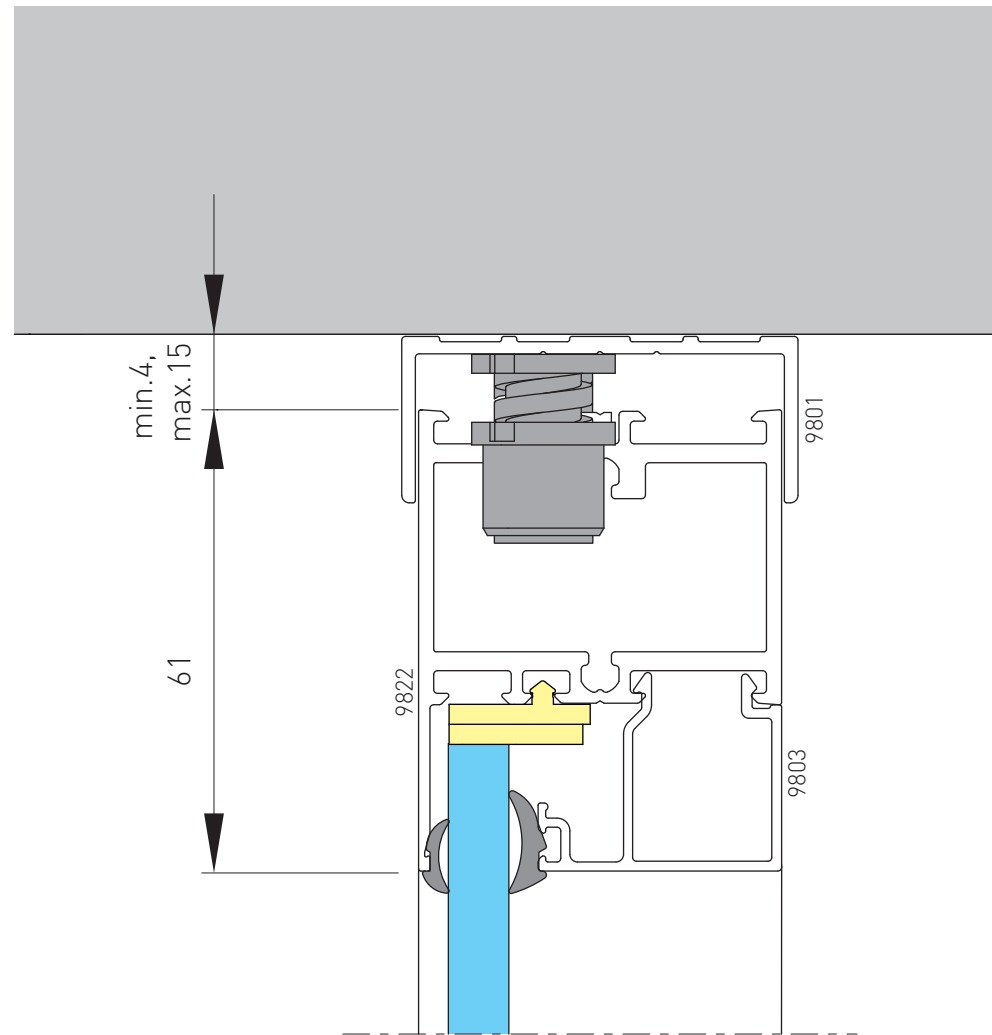


6

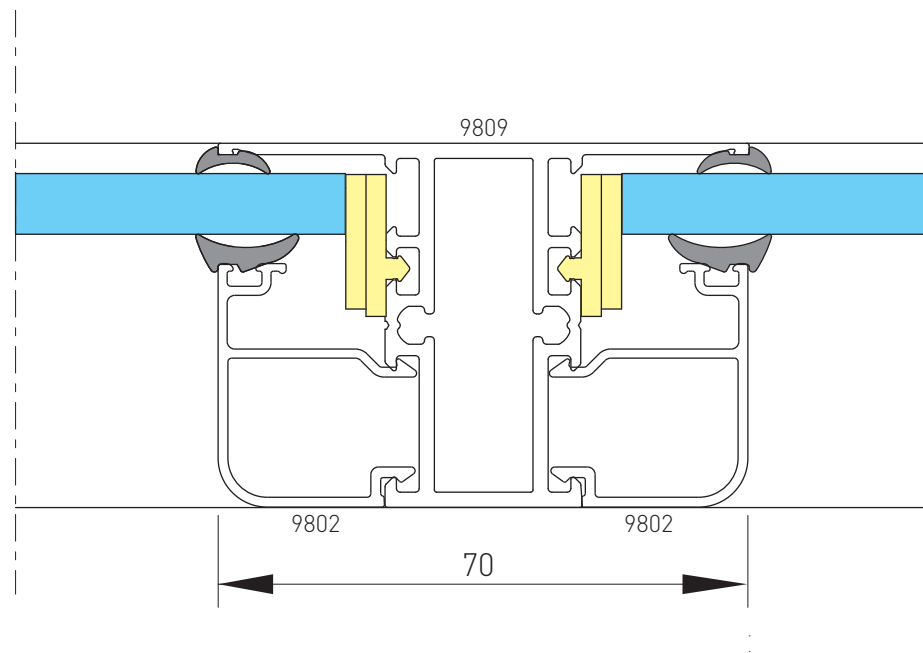


9

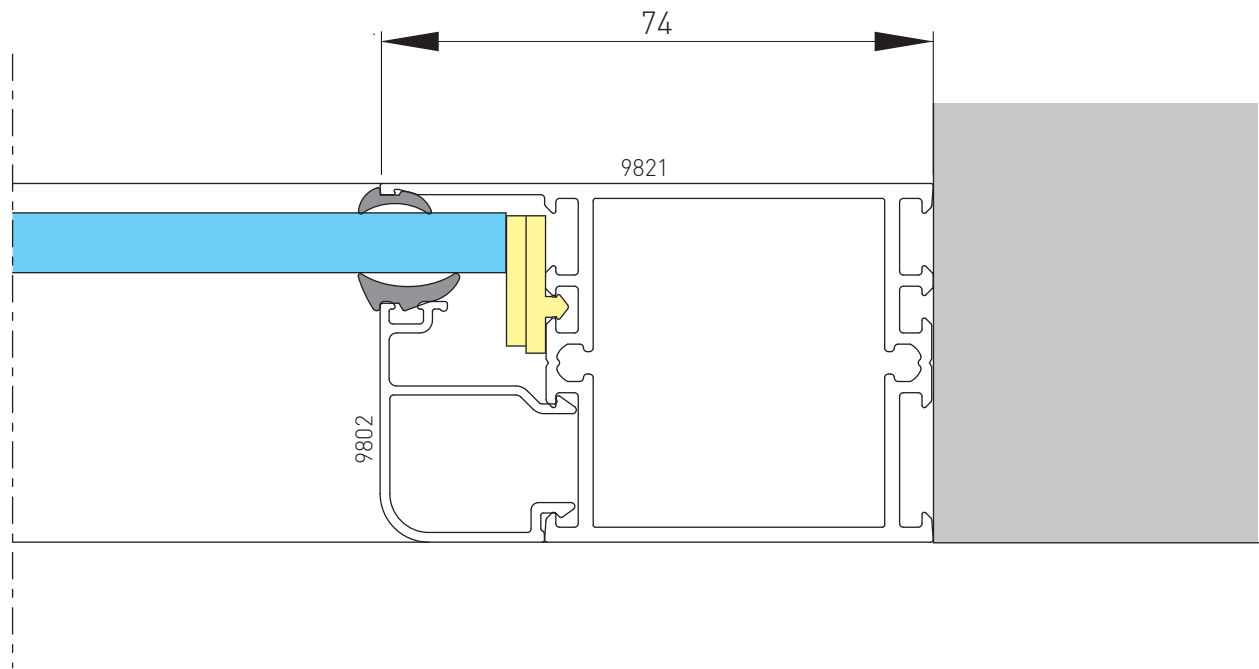




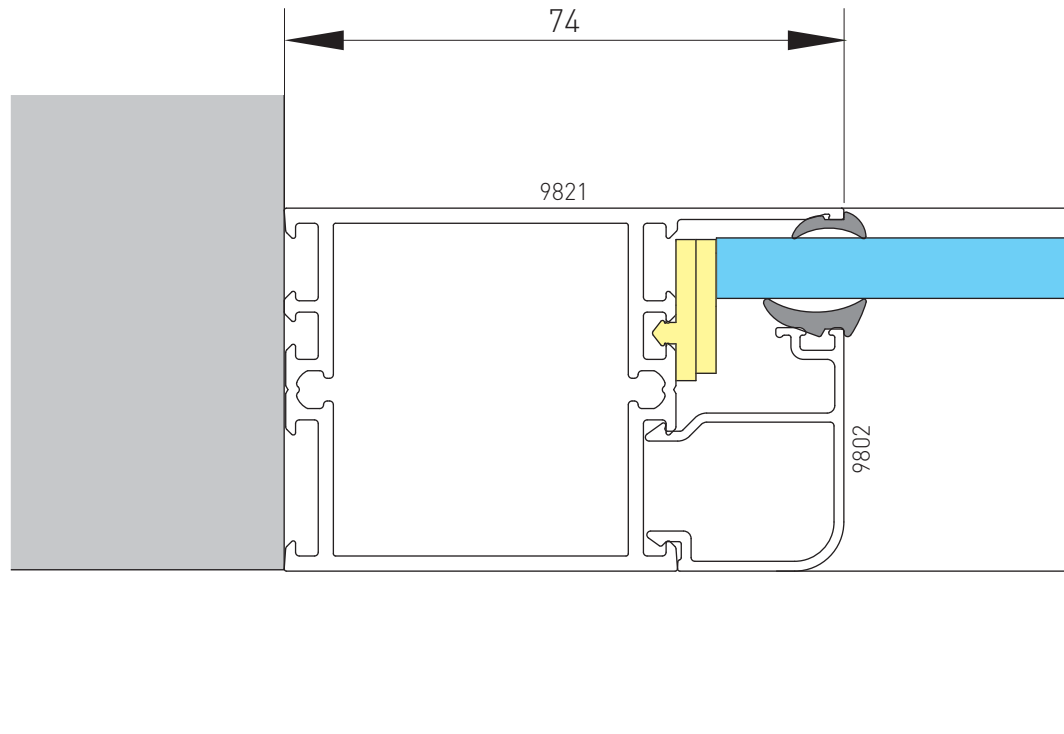




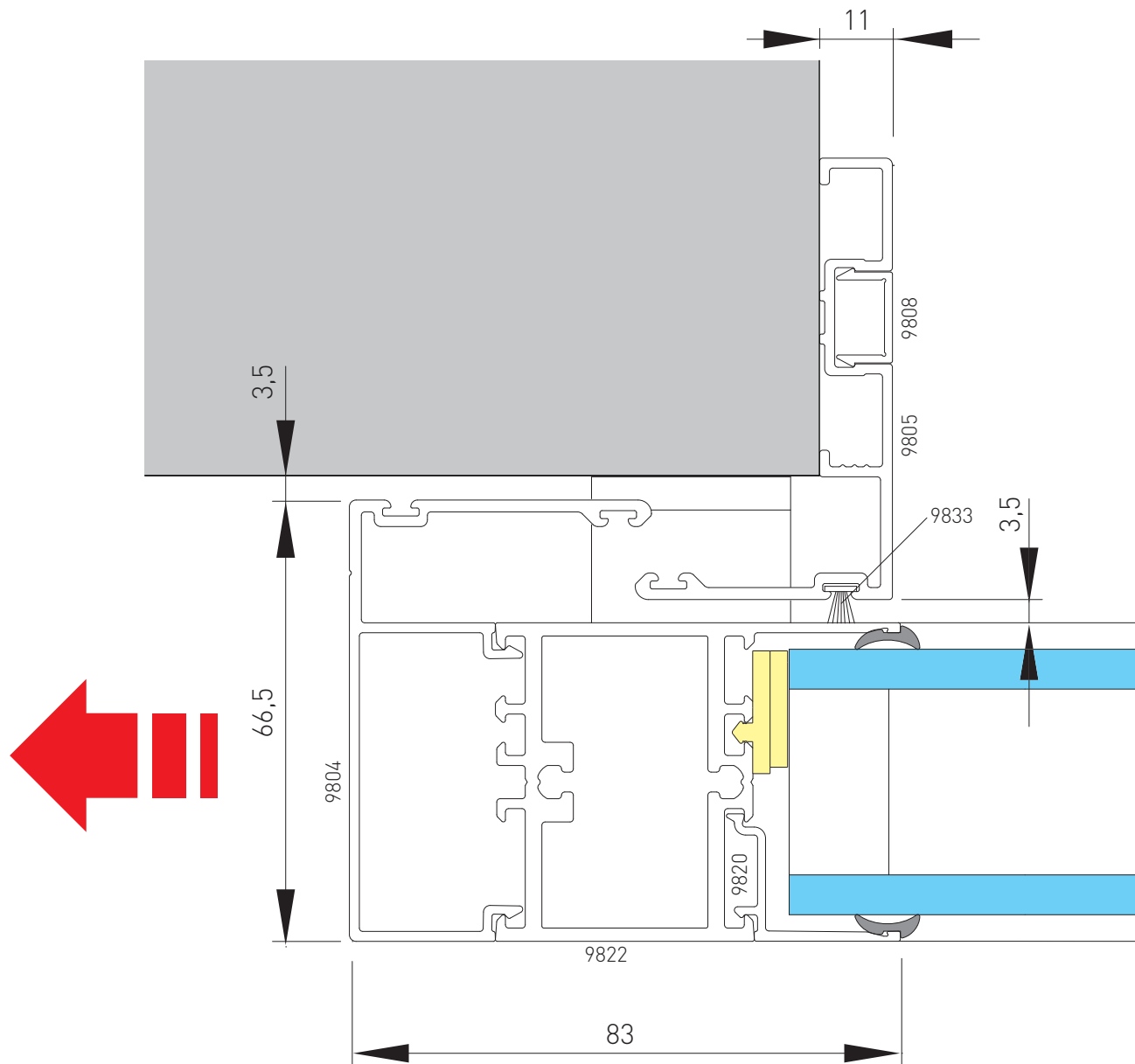
29



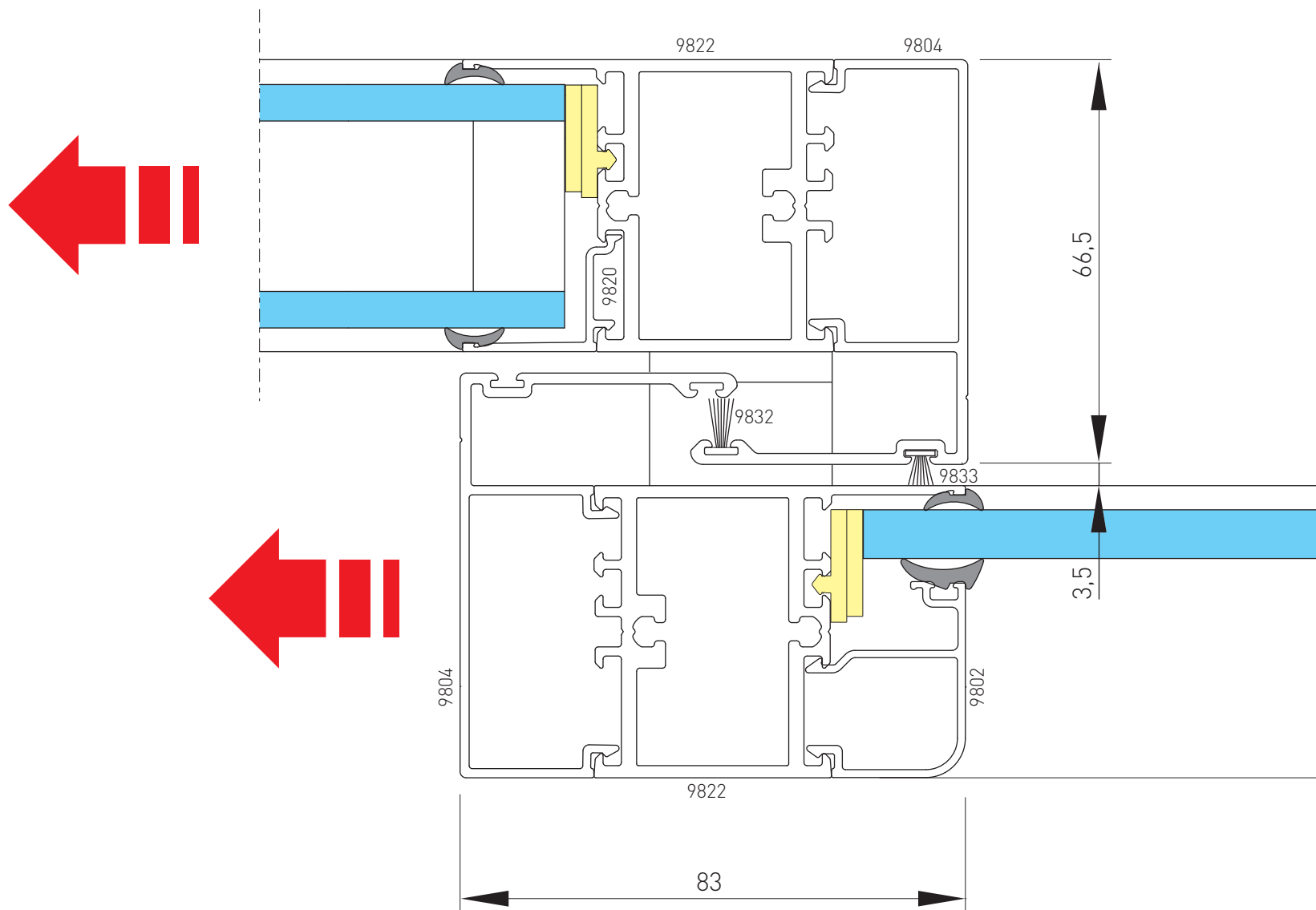
30



31



32

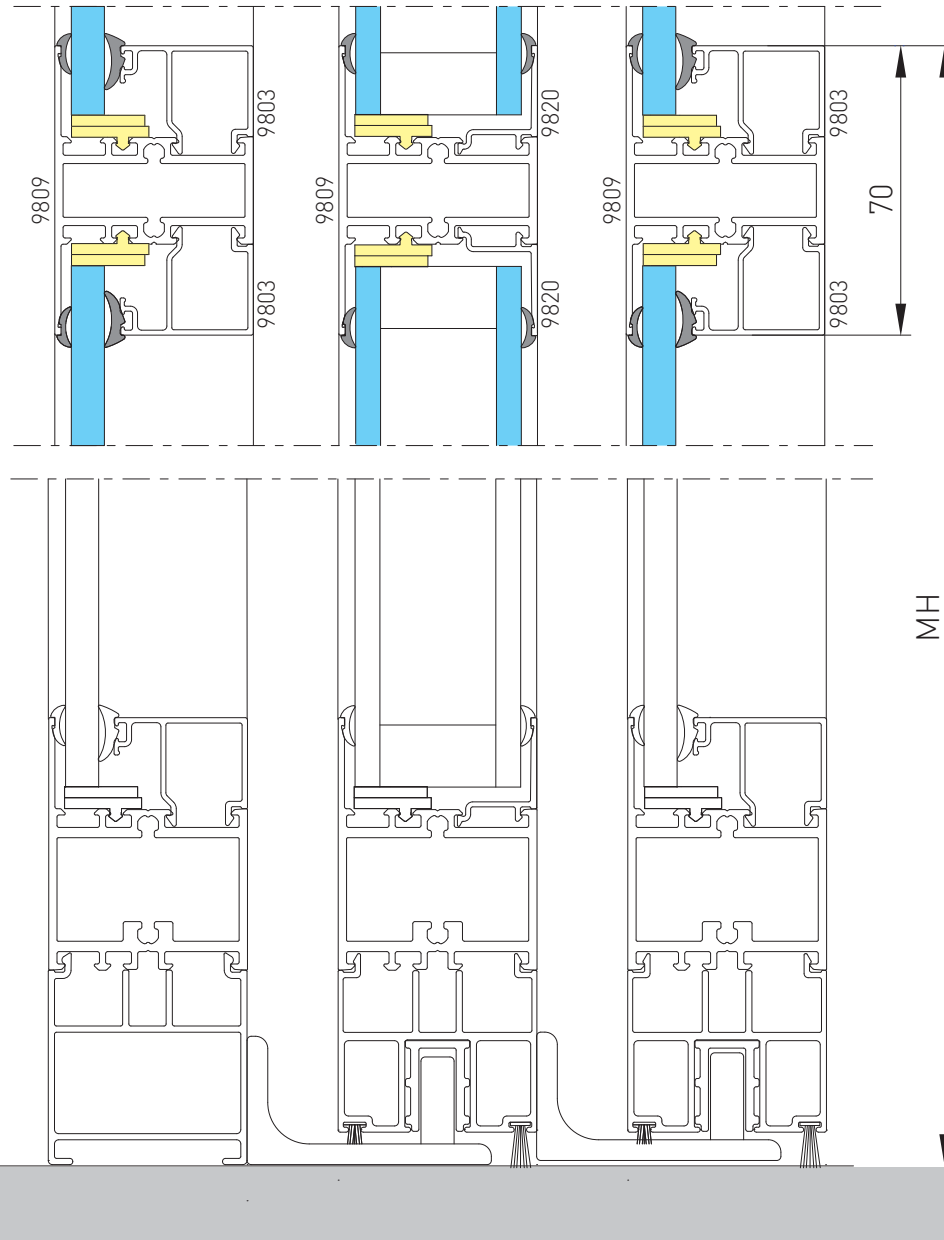


## 22. Technical sections

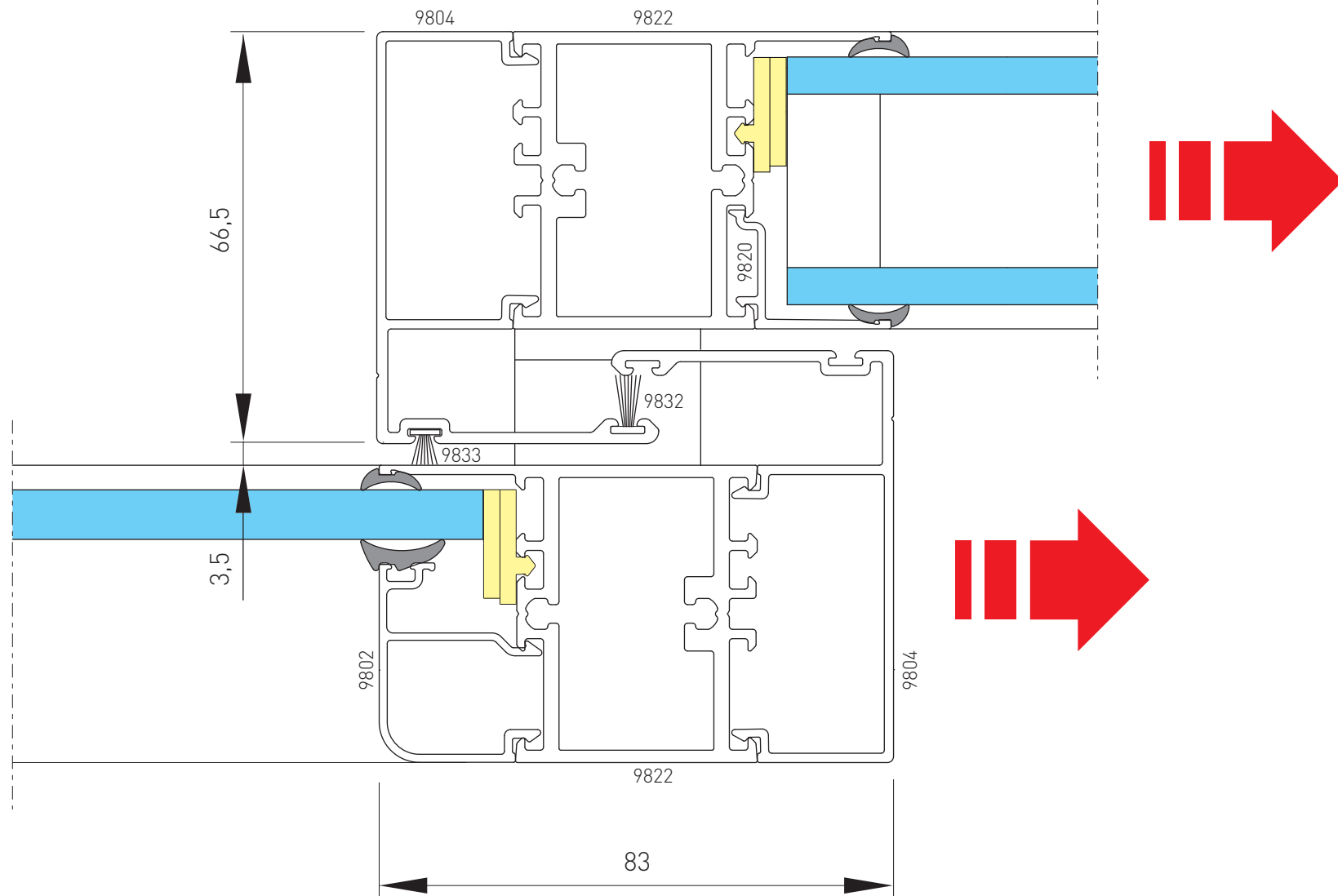
T48

Out of scale

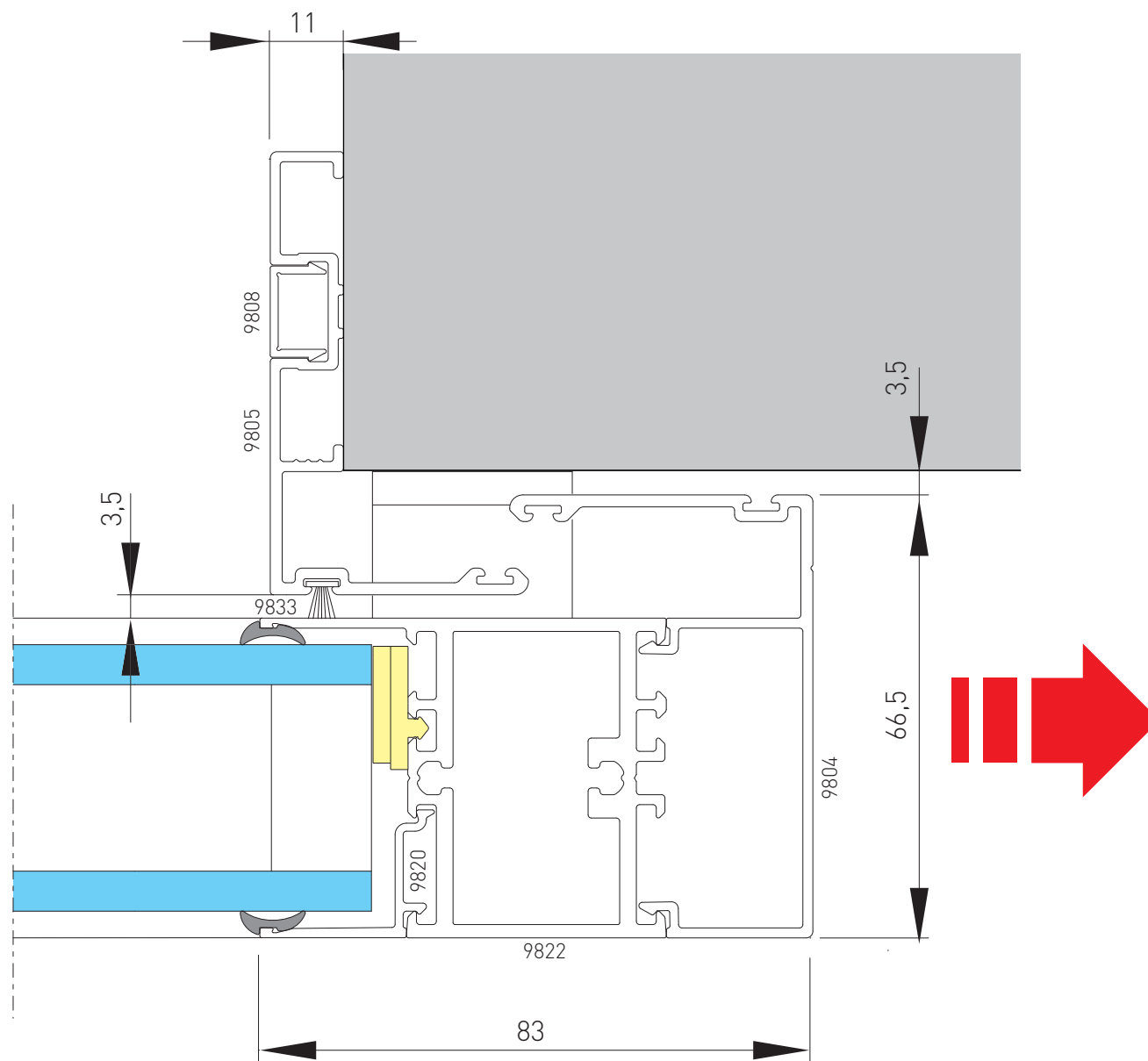
33



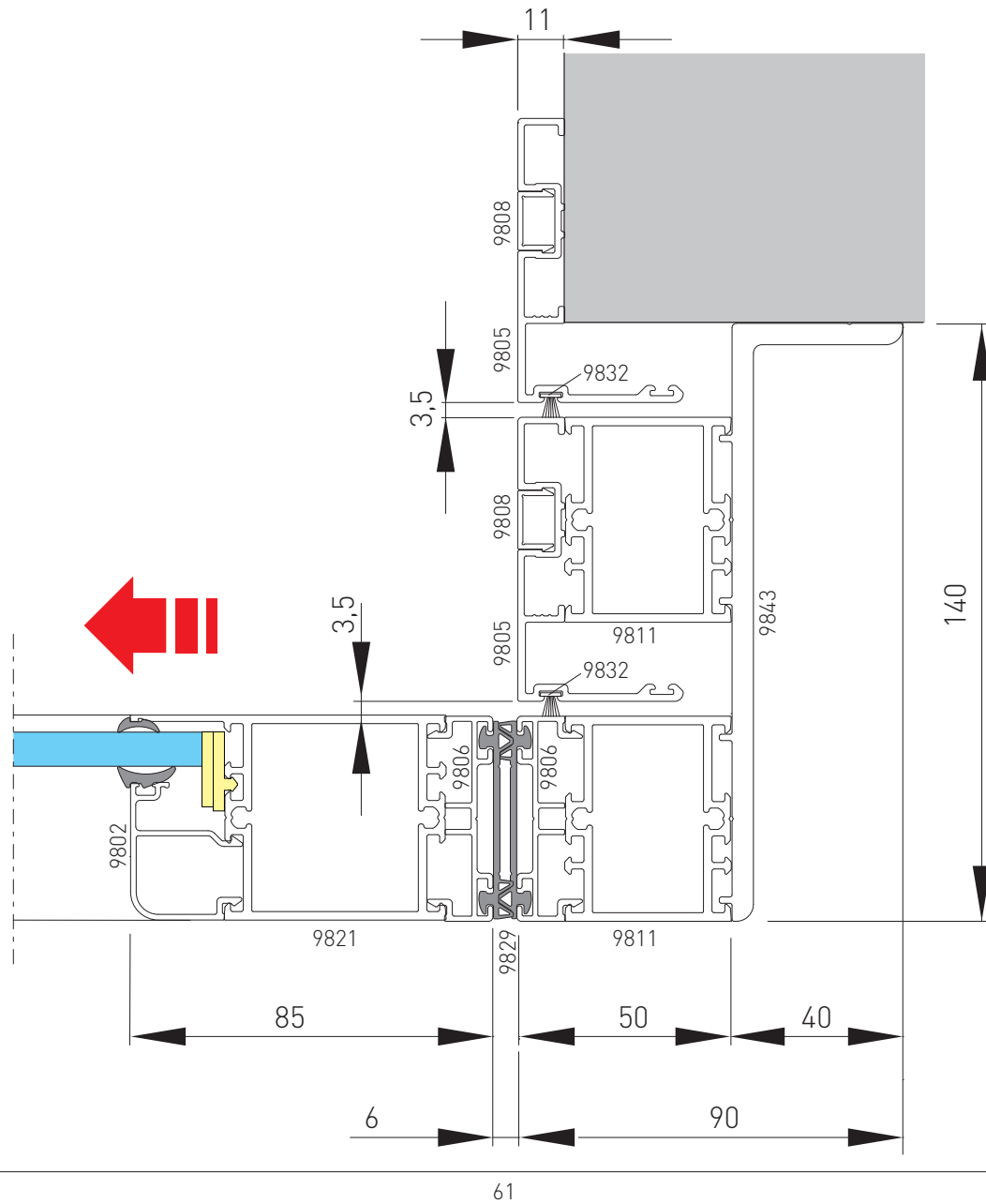
34

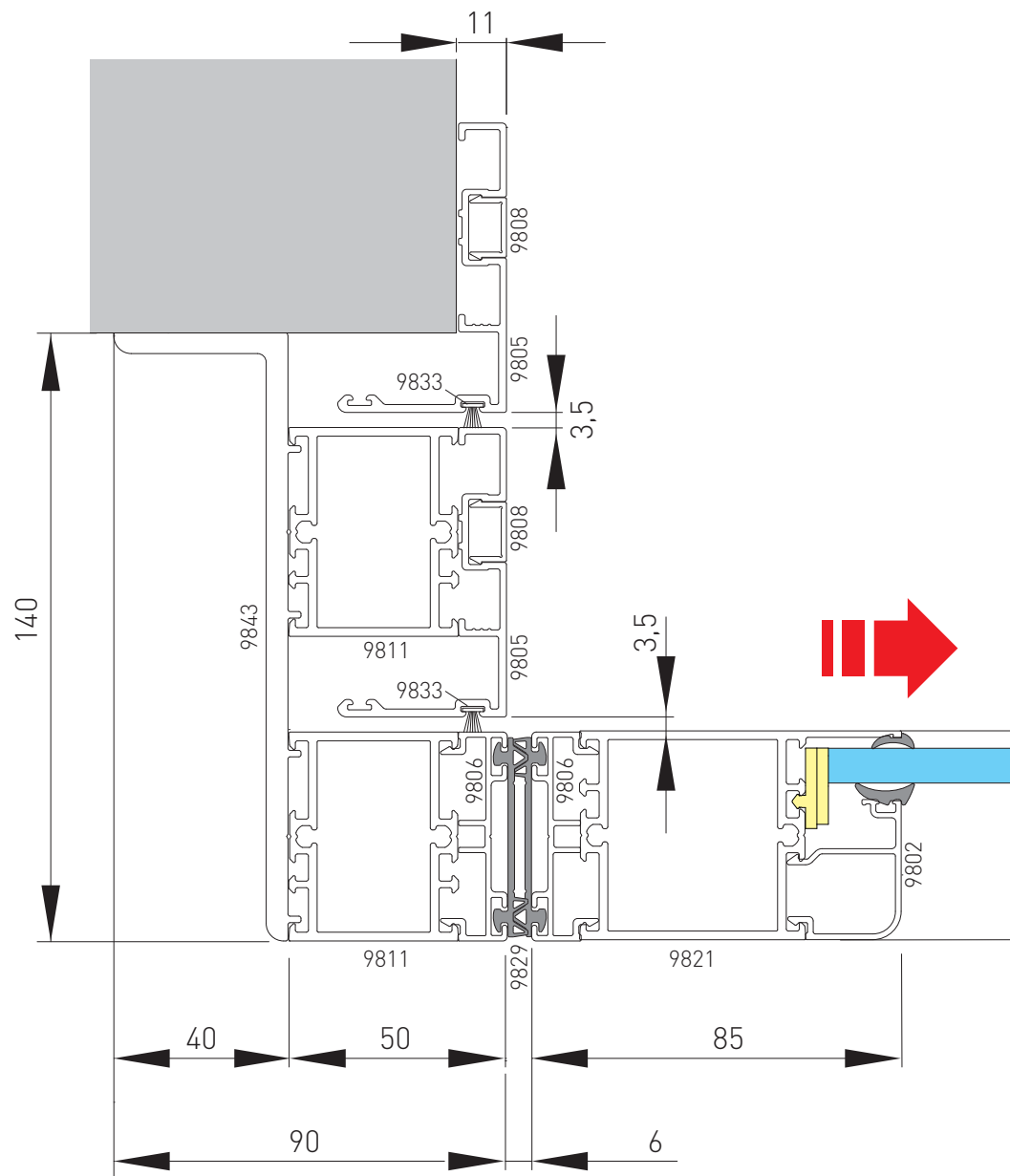


35

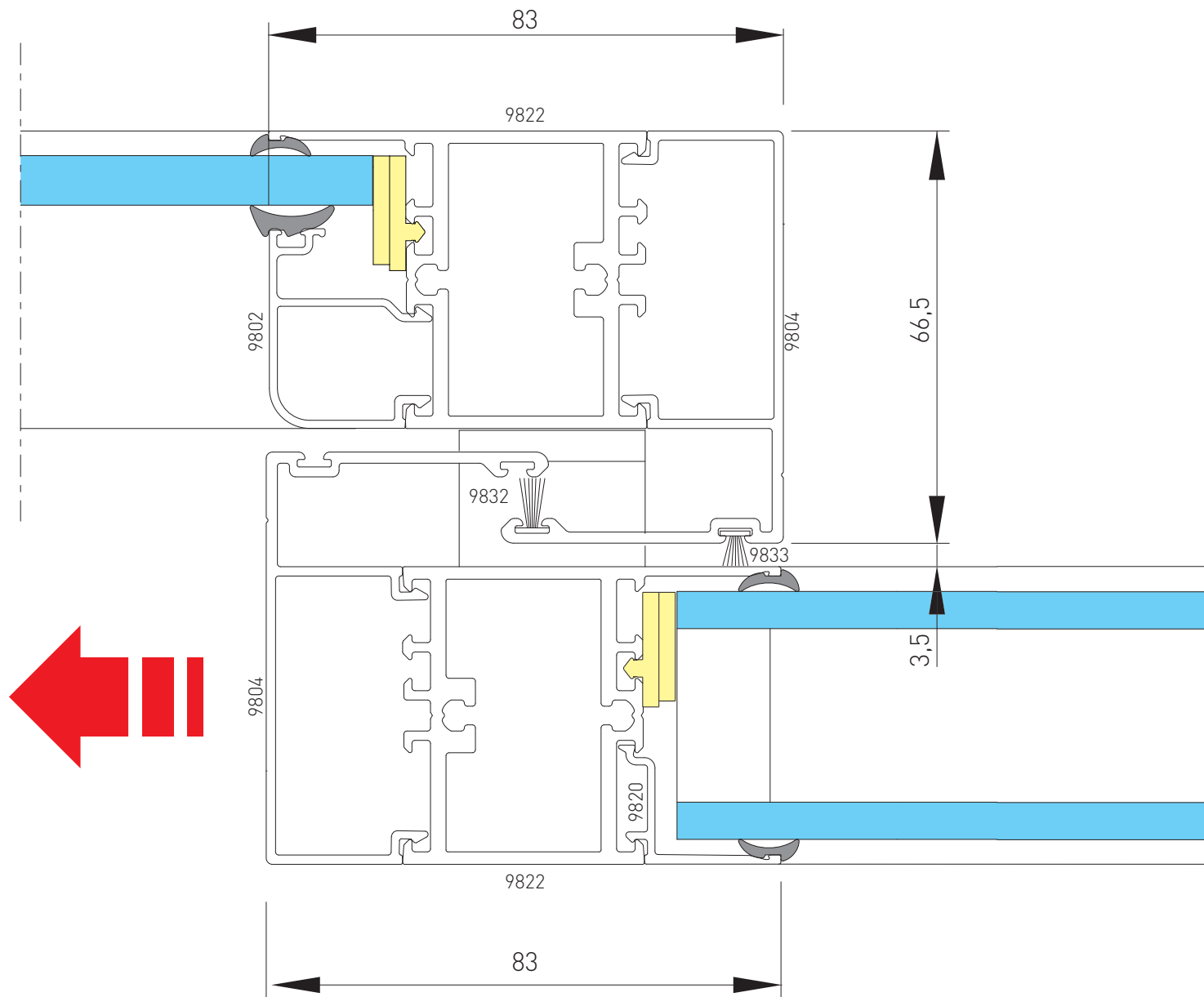




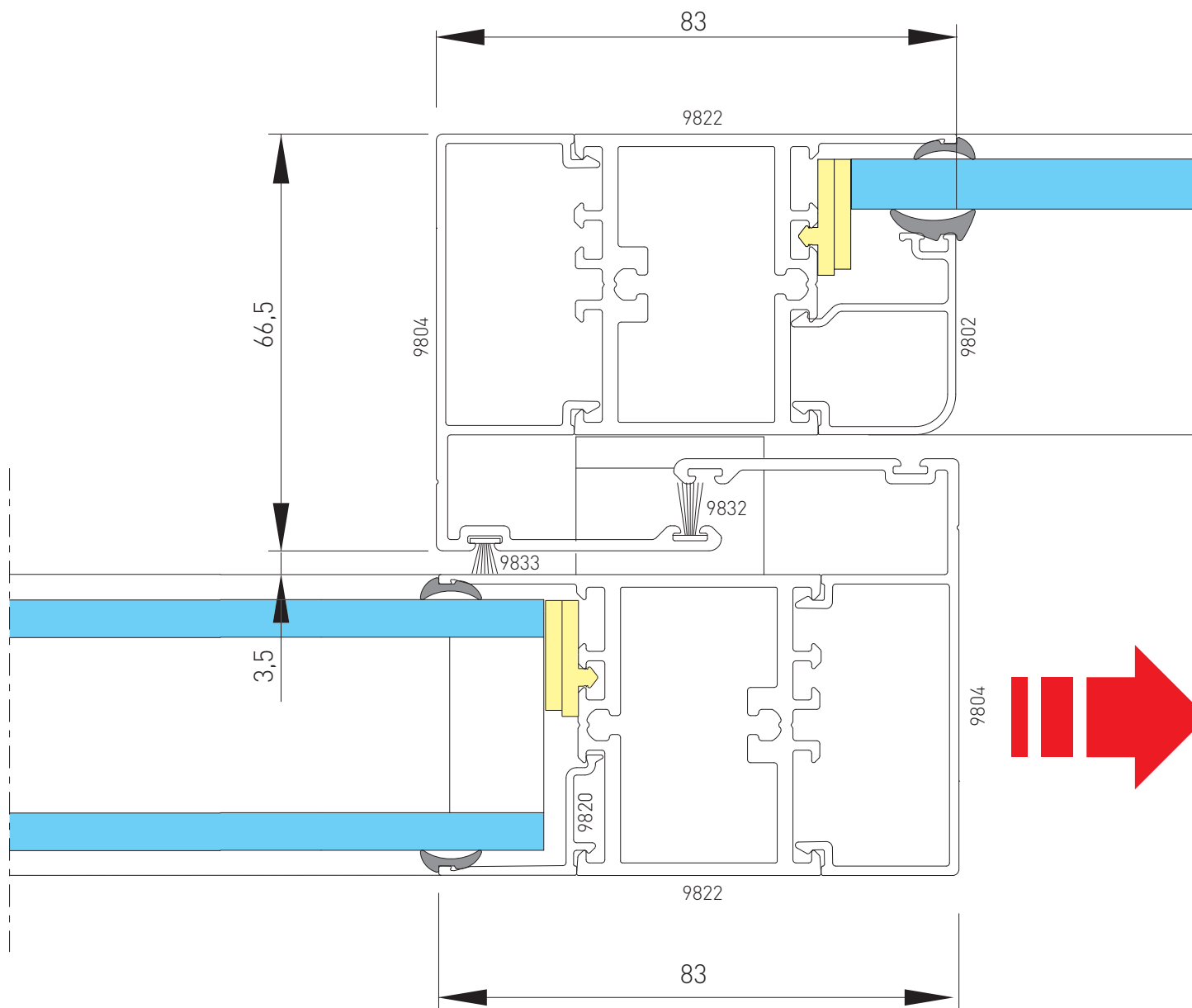




38



39

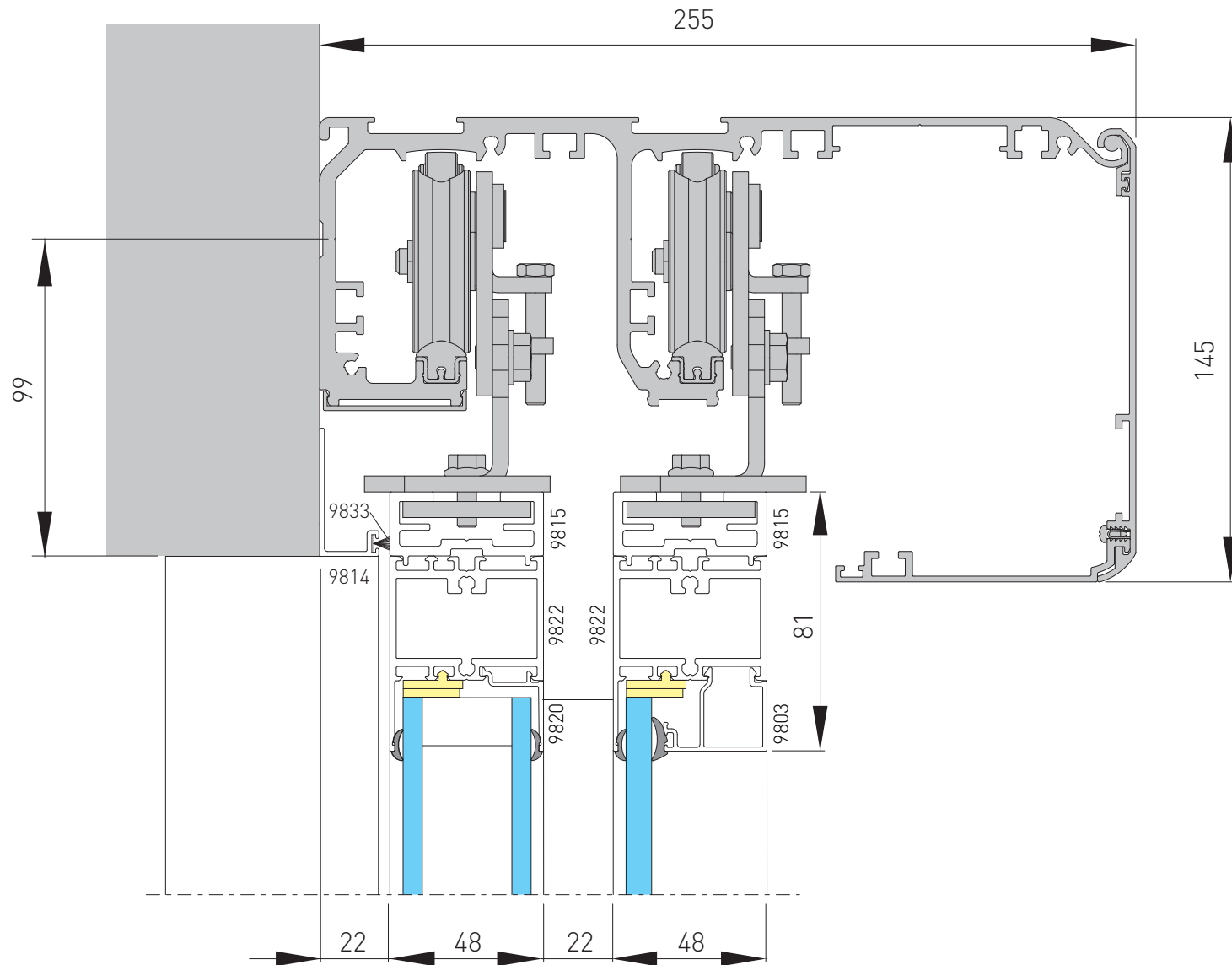


## 22. Technical sections

T55

Out of scale

40

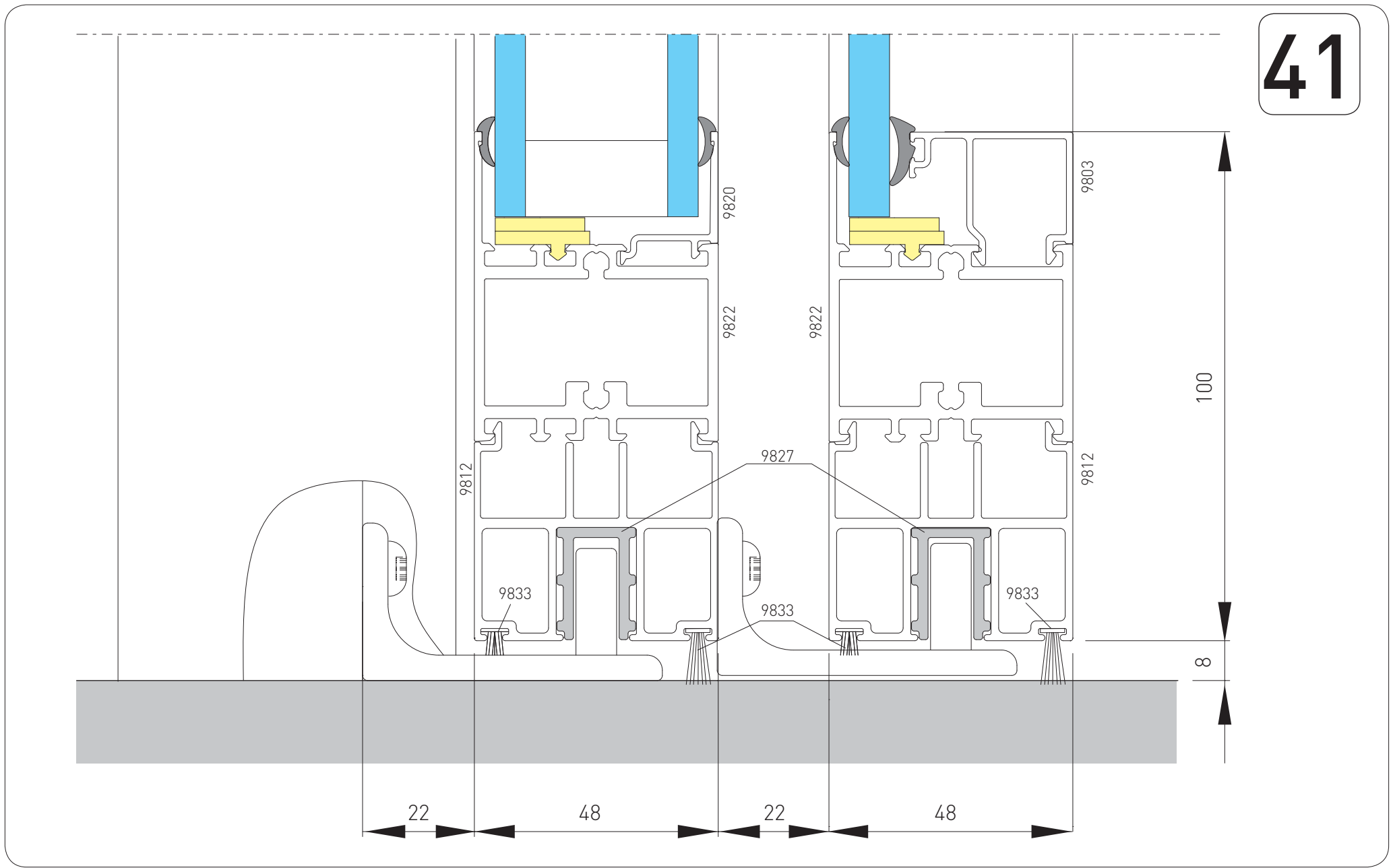


# 22. Technical sections

T56

Scale 1:1

41

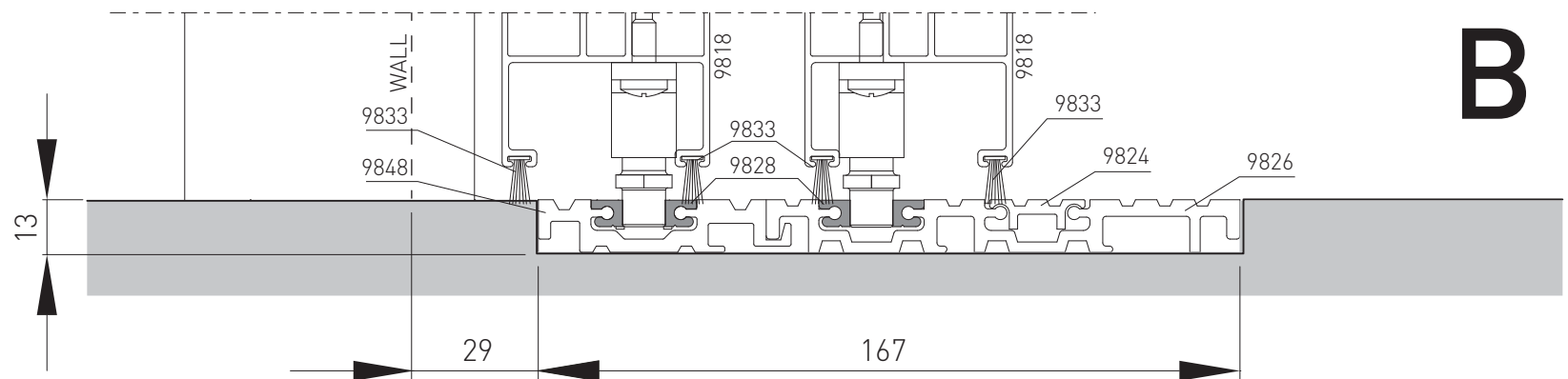
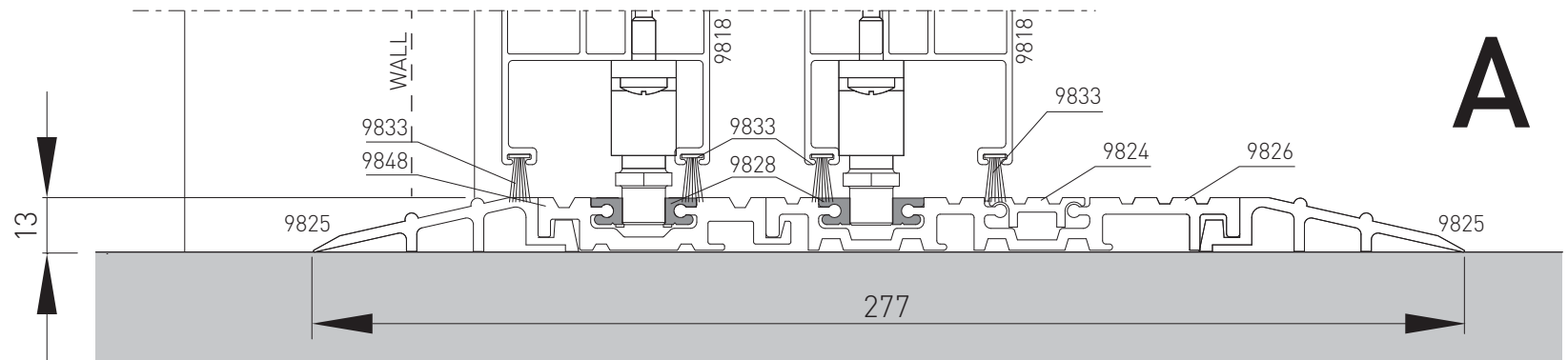
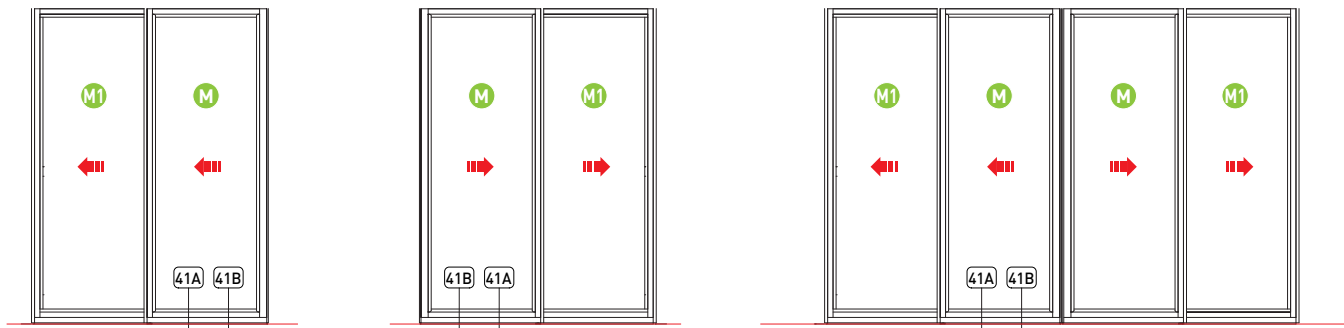


## 22. Technical sections

T57

Out of scale

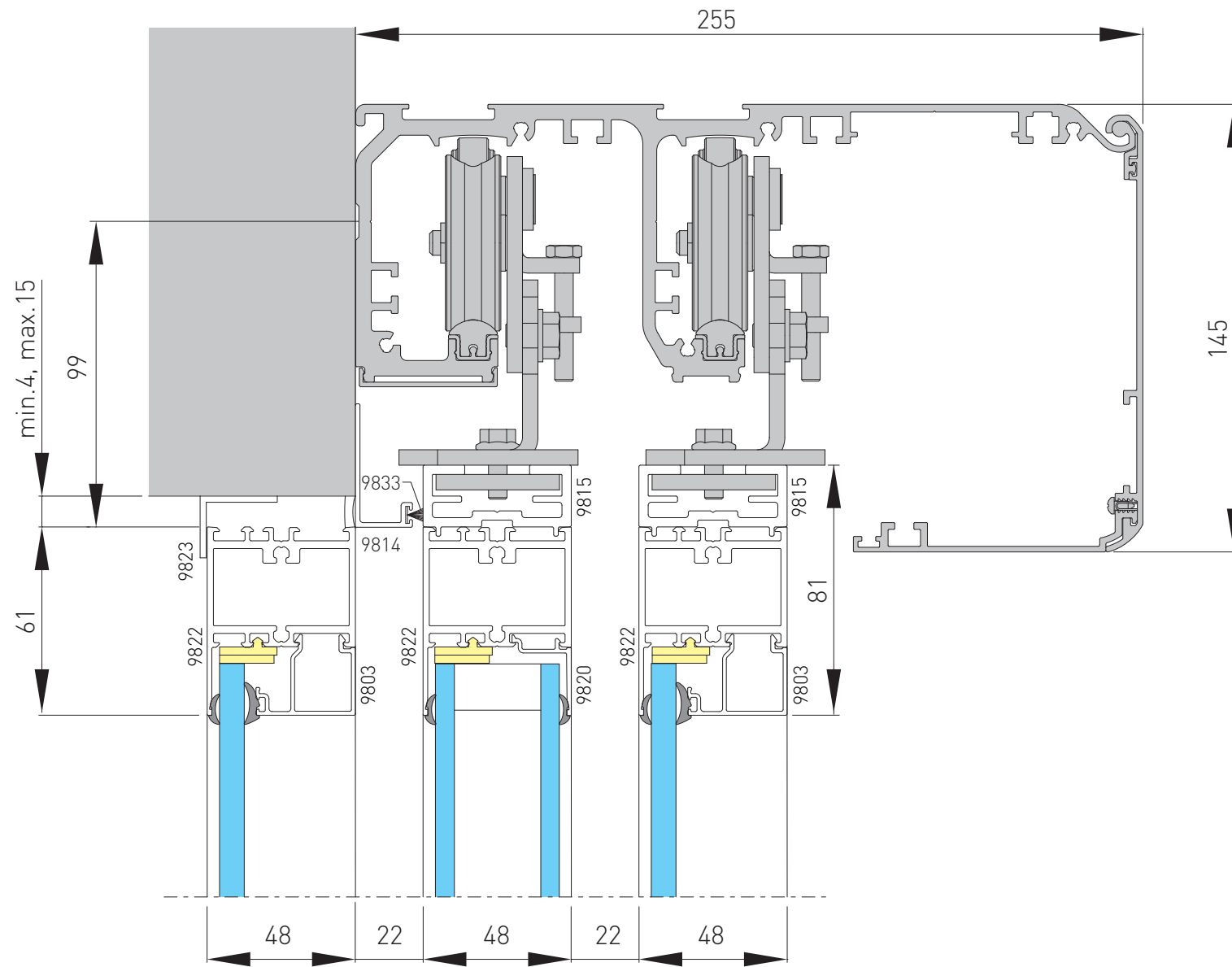
41



## 22. Technical sections

T58

Out of scale



42

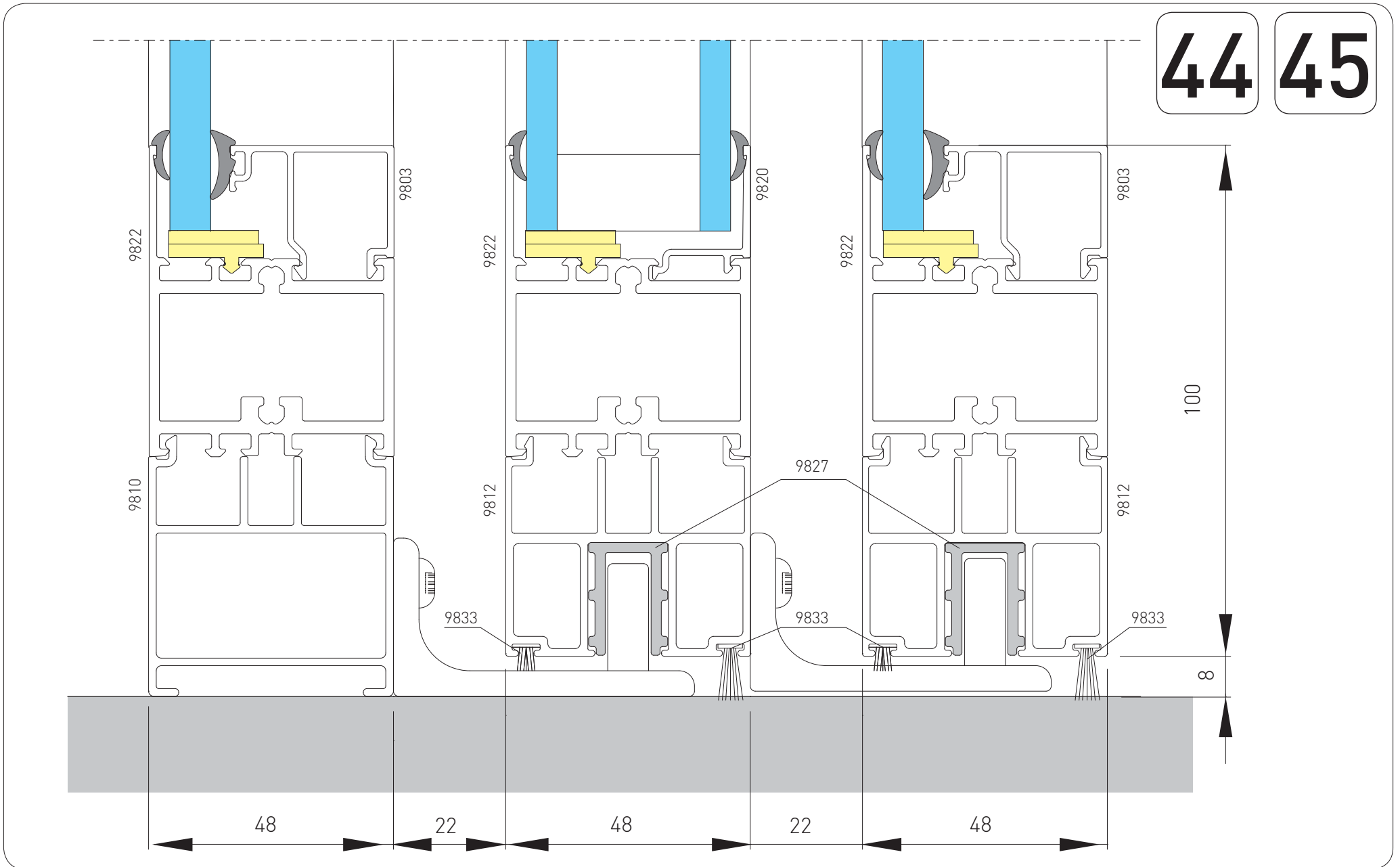
43



# 22. Technical sections

T59

Scale 1:1



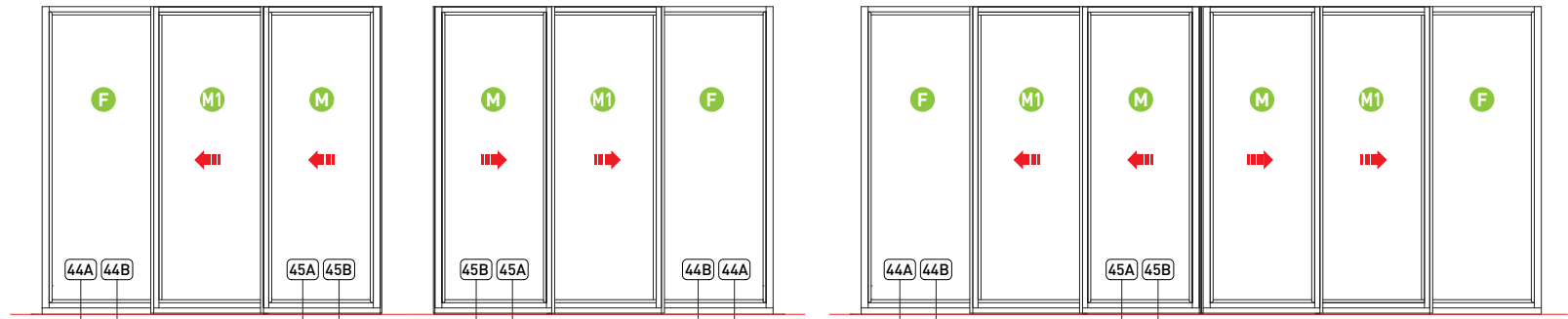
44

45

# 22. Technical sections

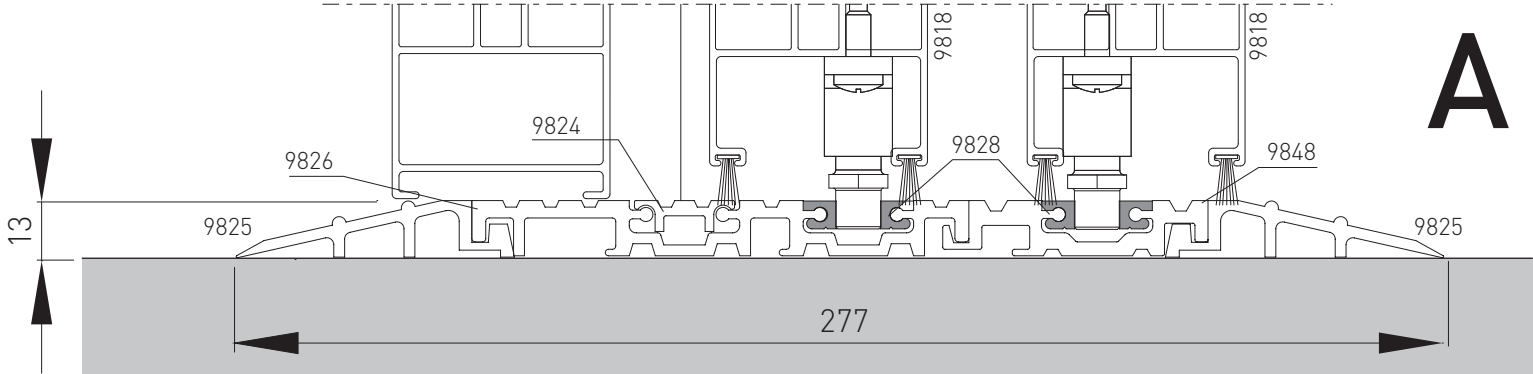
T60

Out of scale

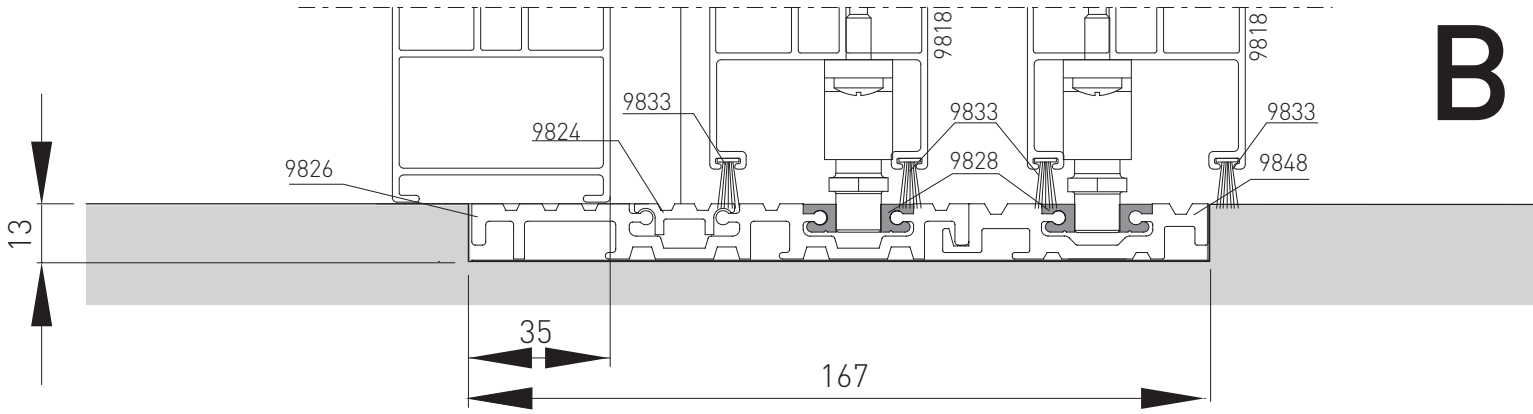


44

45



A



B

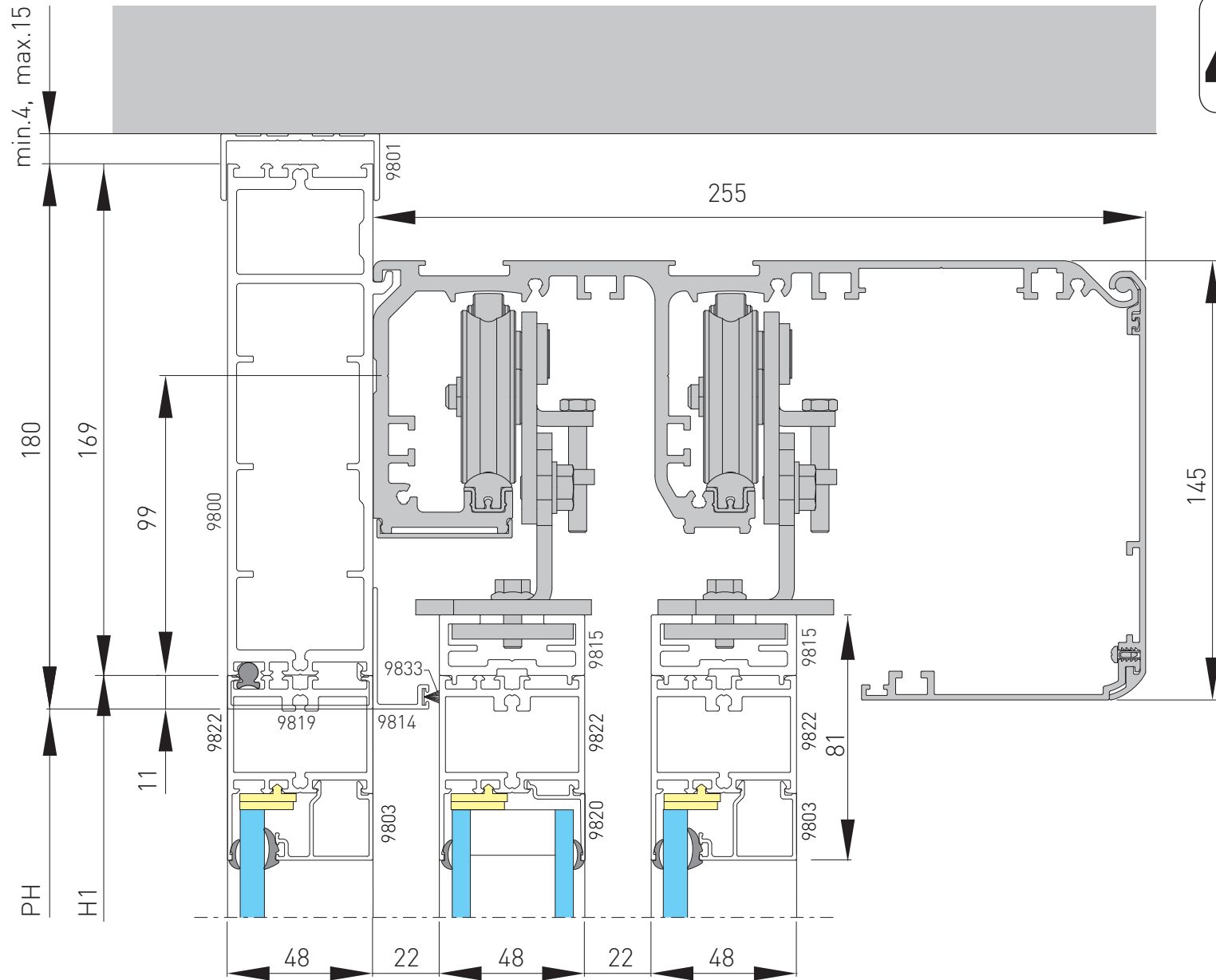
## 22. Technical sections

T61

Out of scale

46

47



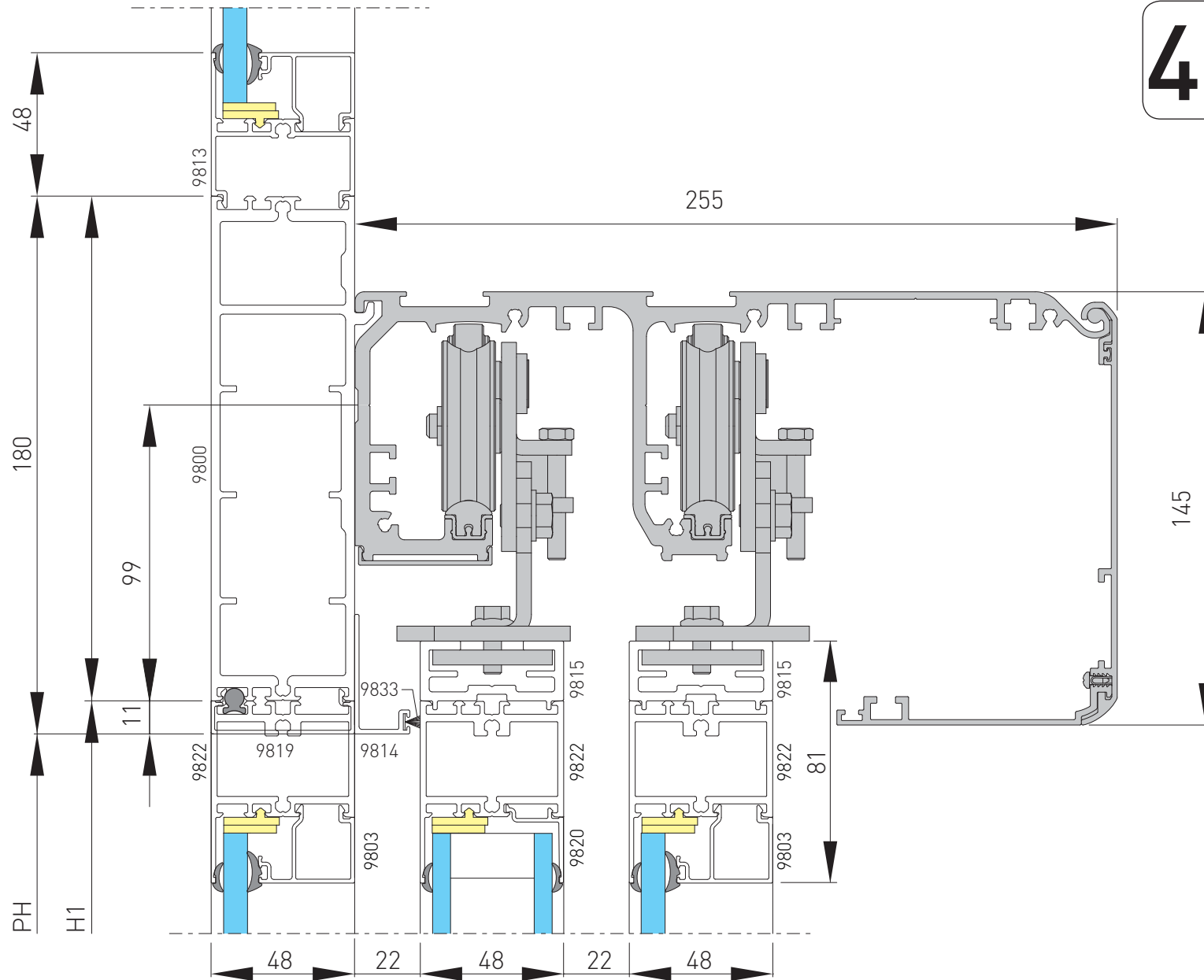
## 22. Technical sections

T62

Out of scale

48

49

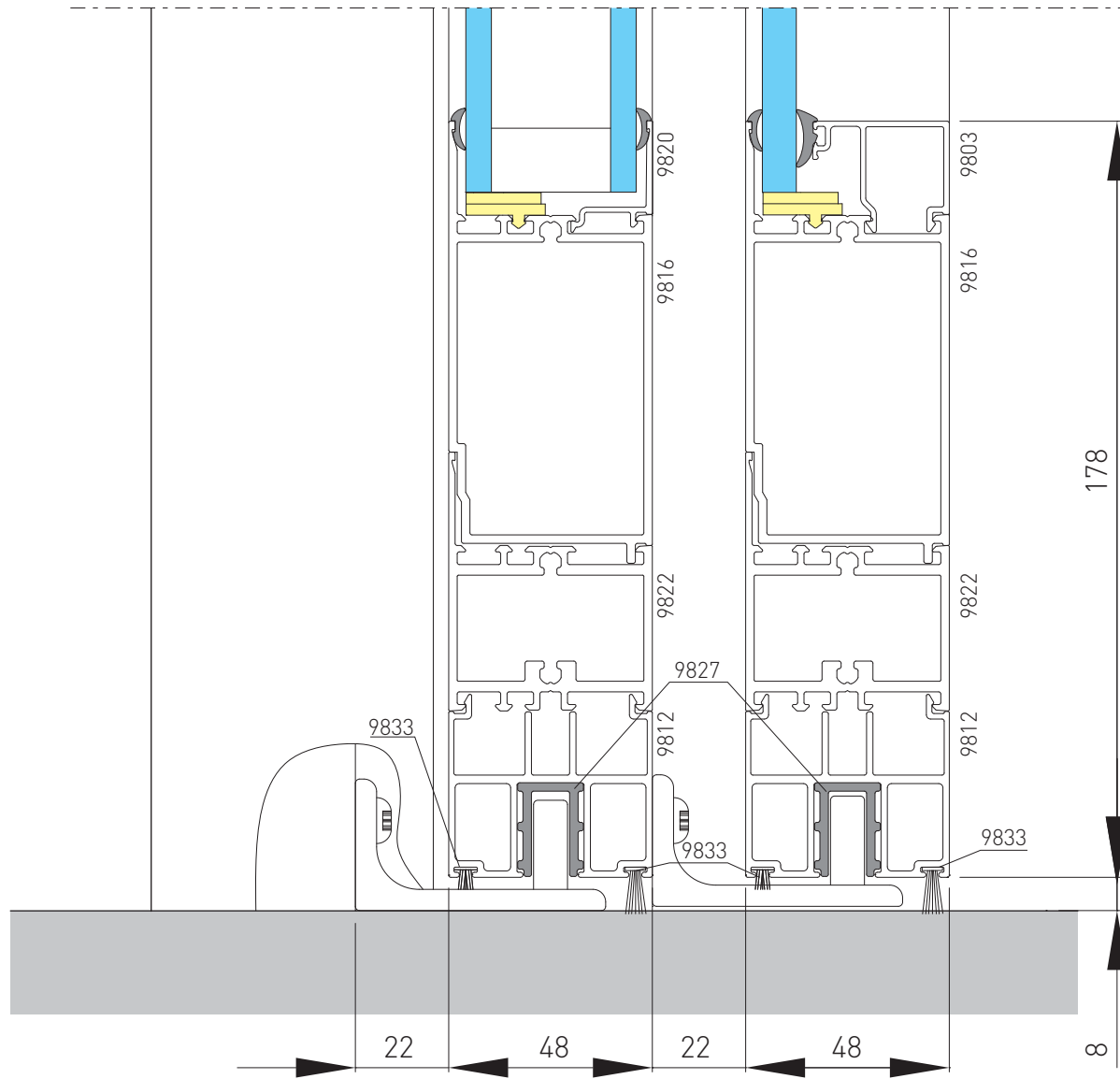


## 22. Technical sections

T63

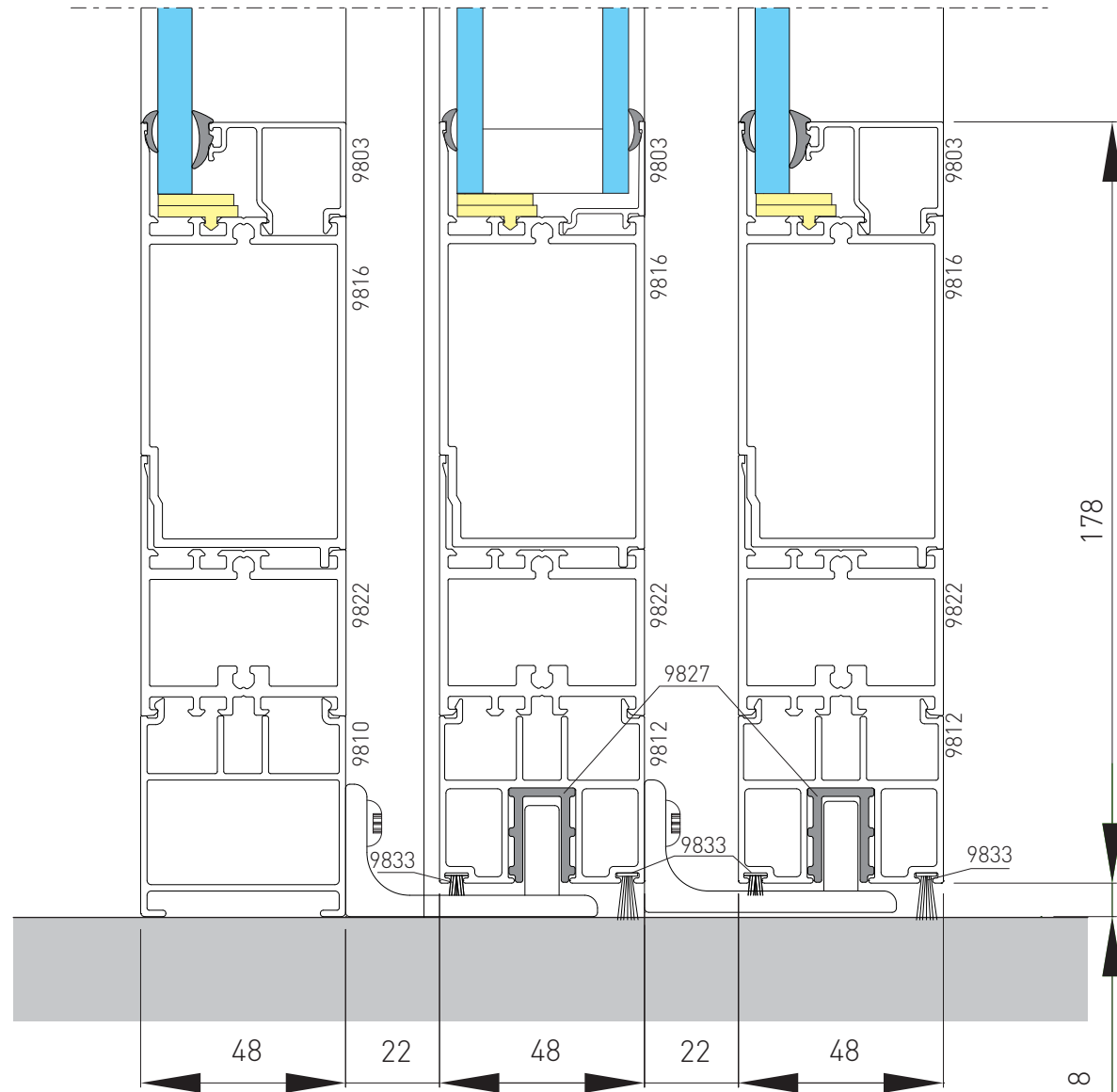
Out of scale

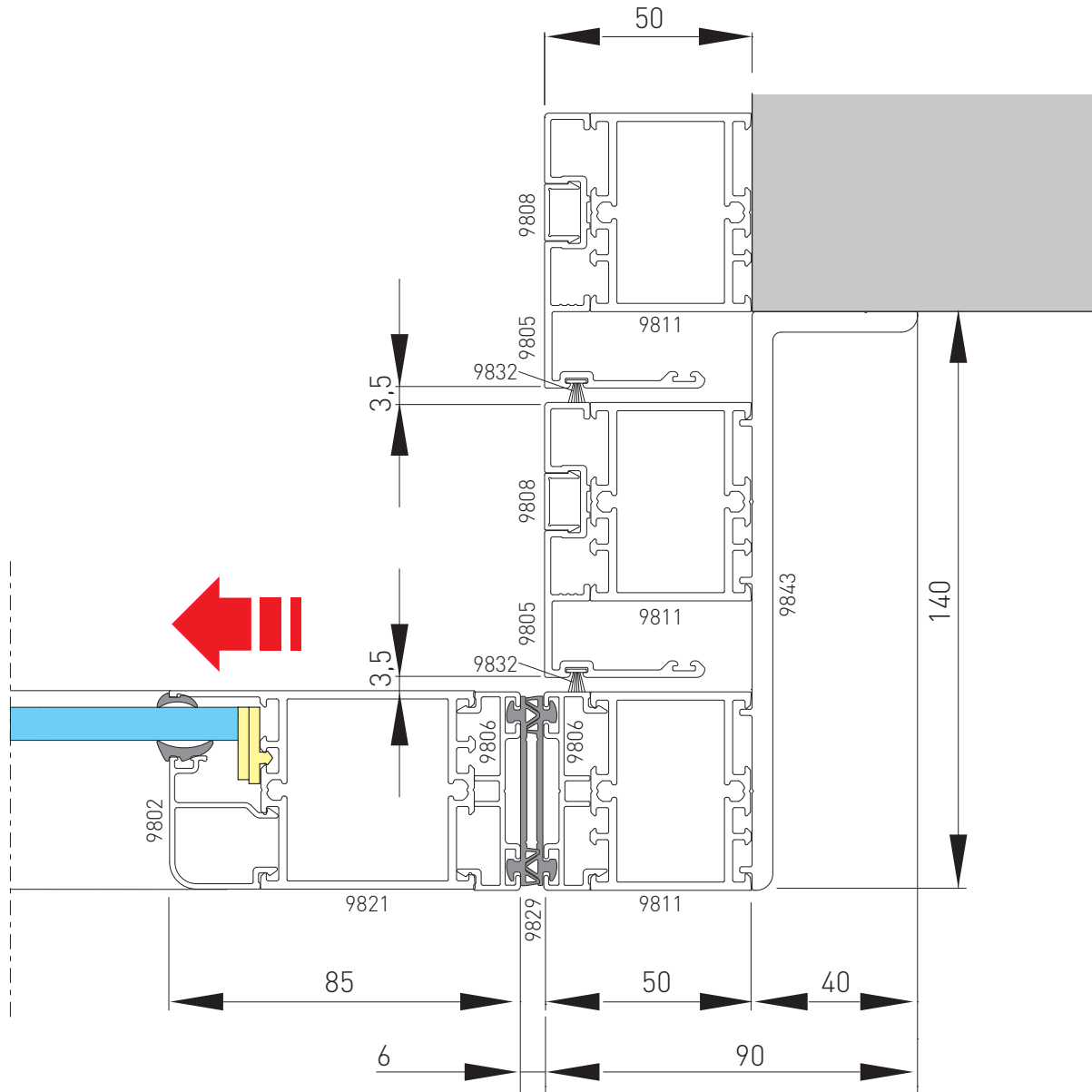
50

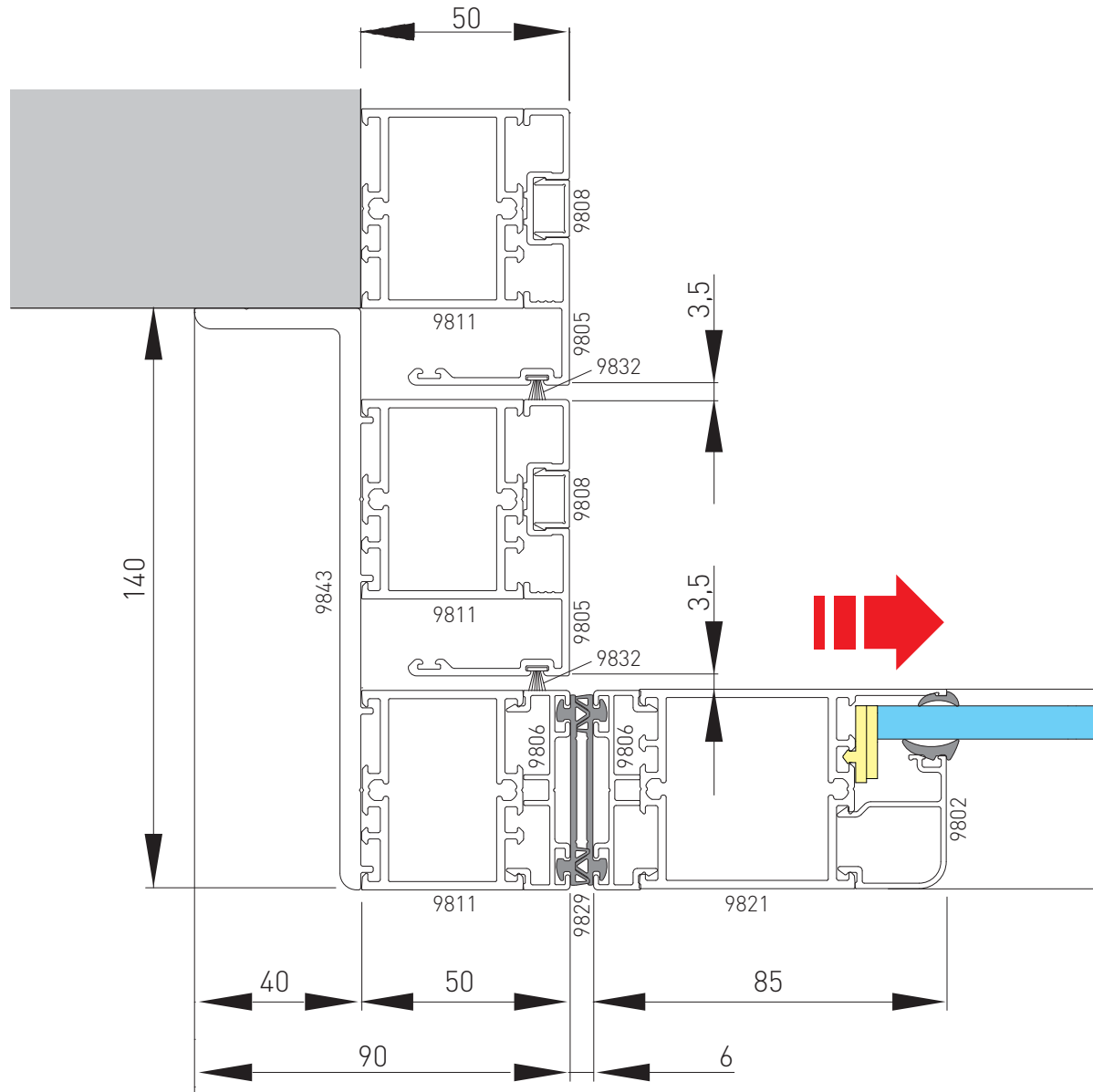


51

52





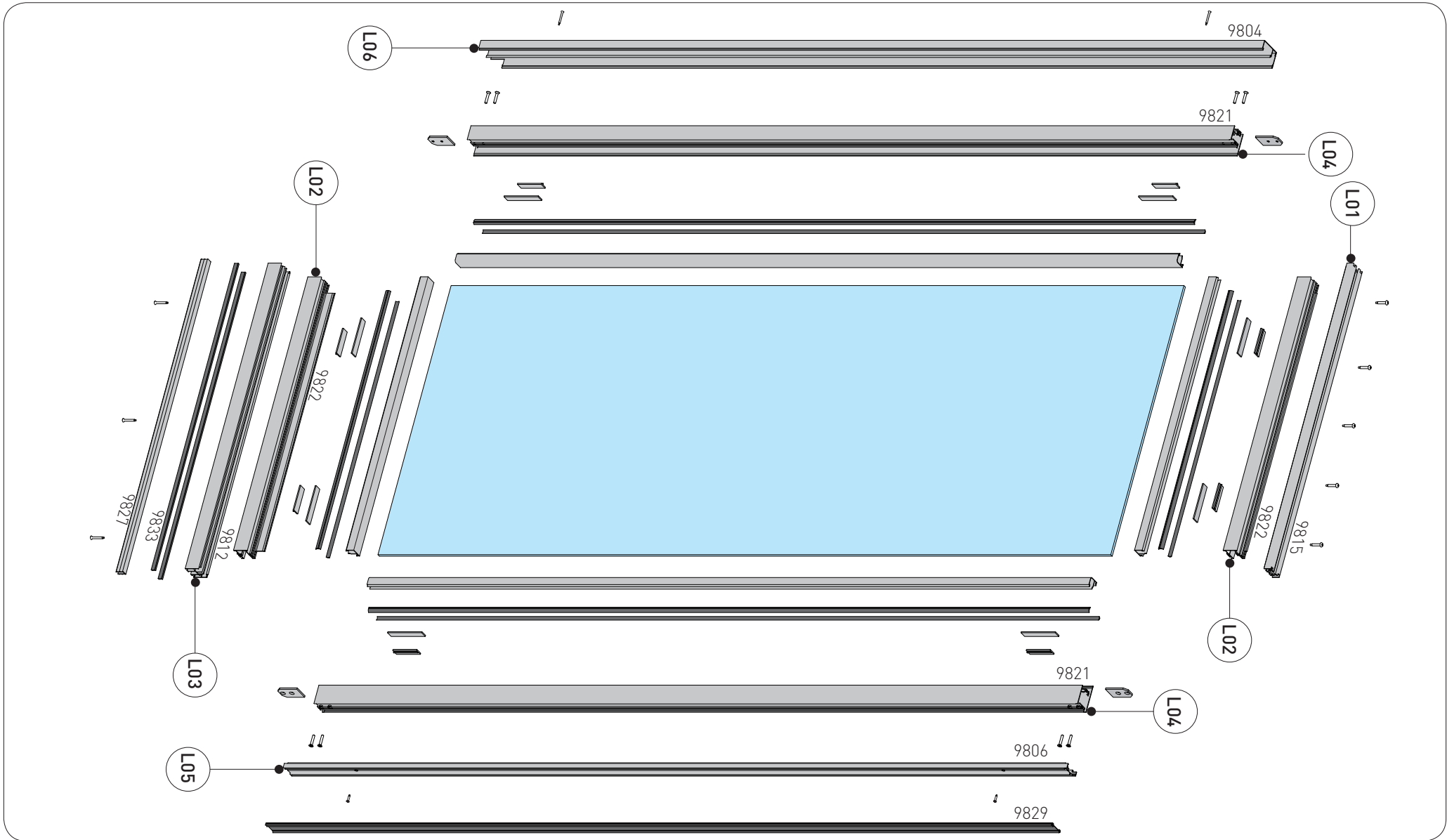




# 23. Processes

- M** Moving door wing (NOTE 2 see page 10)
- Anta mobile
- Fahrflügel
- Vantail mobile
- Hoja móvil
- Portinhola móvel

T67



# 23. Processes

M1

Slow moving door wing (NOTE 2 see page 10)

Anta mobile lenta

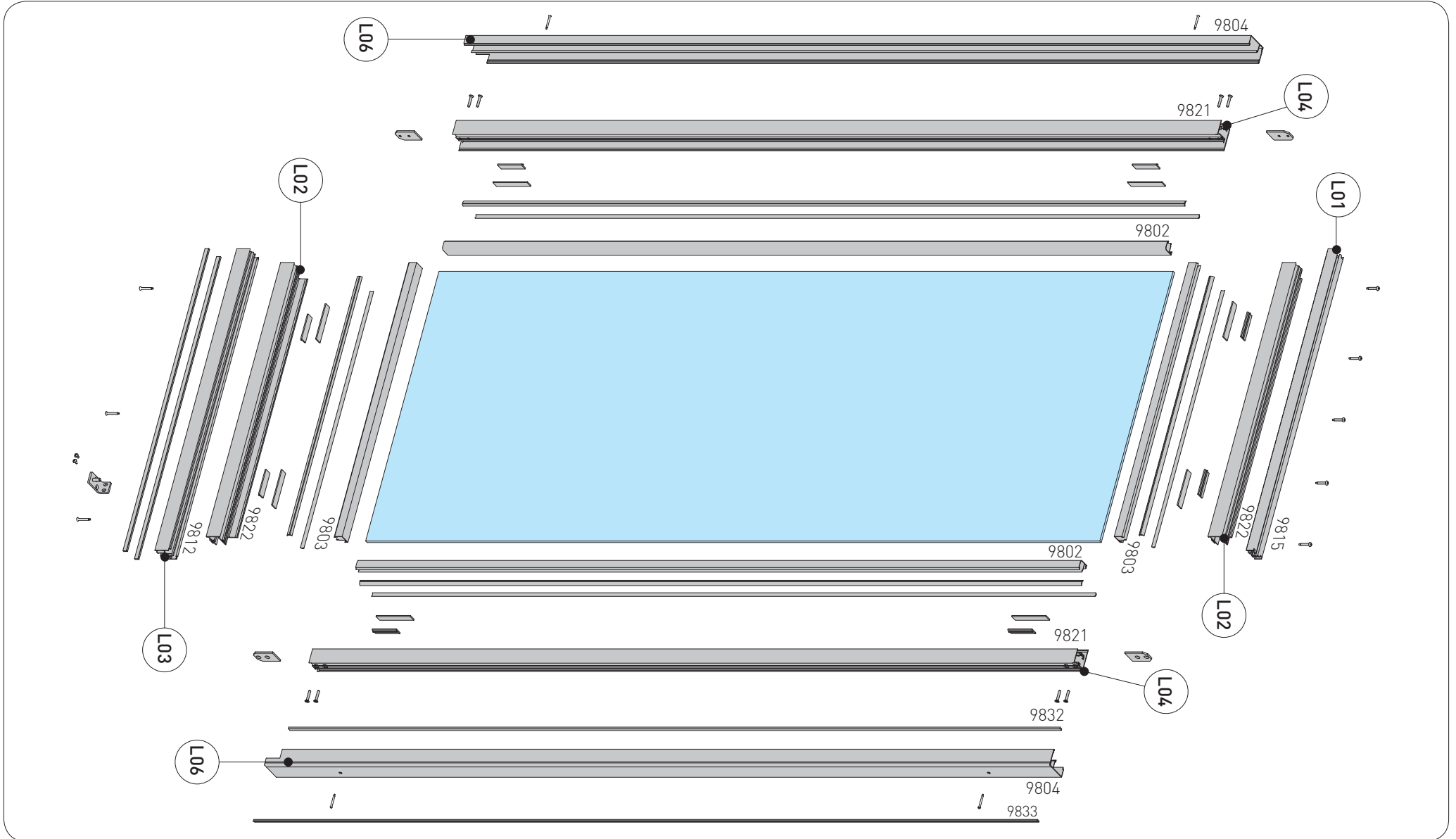
Langsam Fahrflügel

Vantail mobile lento

Hoja móvil lenta

Portinhola móvel lenta

T68



## 23. Processes

F

Fixed door wing without beam (**NOTE 2** see page 10)

Anta fissa senza trave

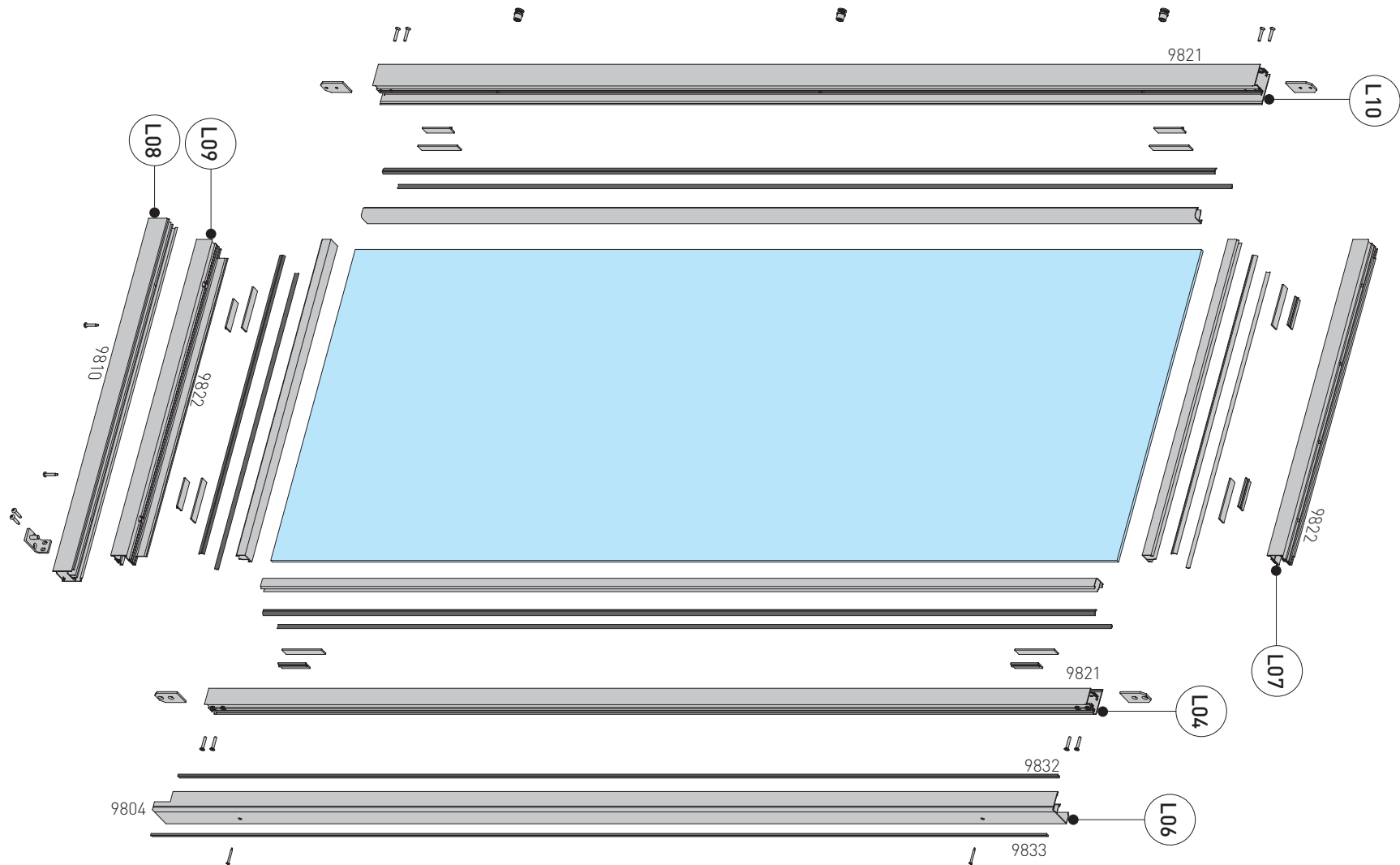
Seitenteil ohne Kämpferprofil

Vantail fixe sans montant

Hoja fija sin viga

Portinhola fixa sem trave

T69



## 23. Processes

F

Fixed door wing with beam (NOTE 2 see page 10)

Anta fissa con trave

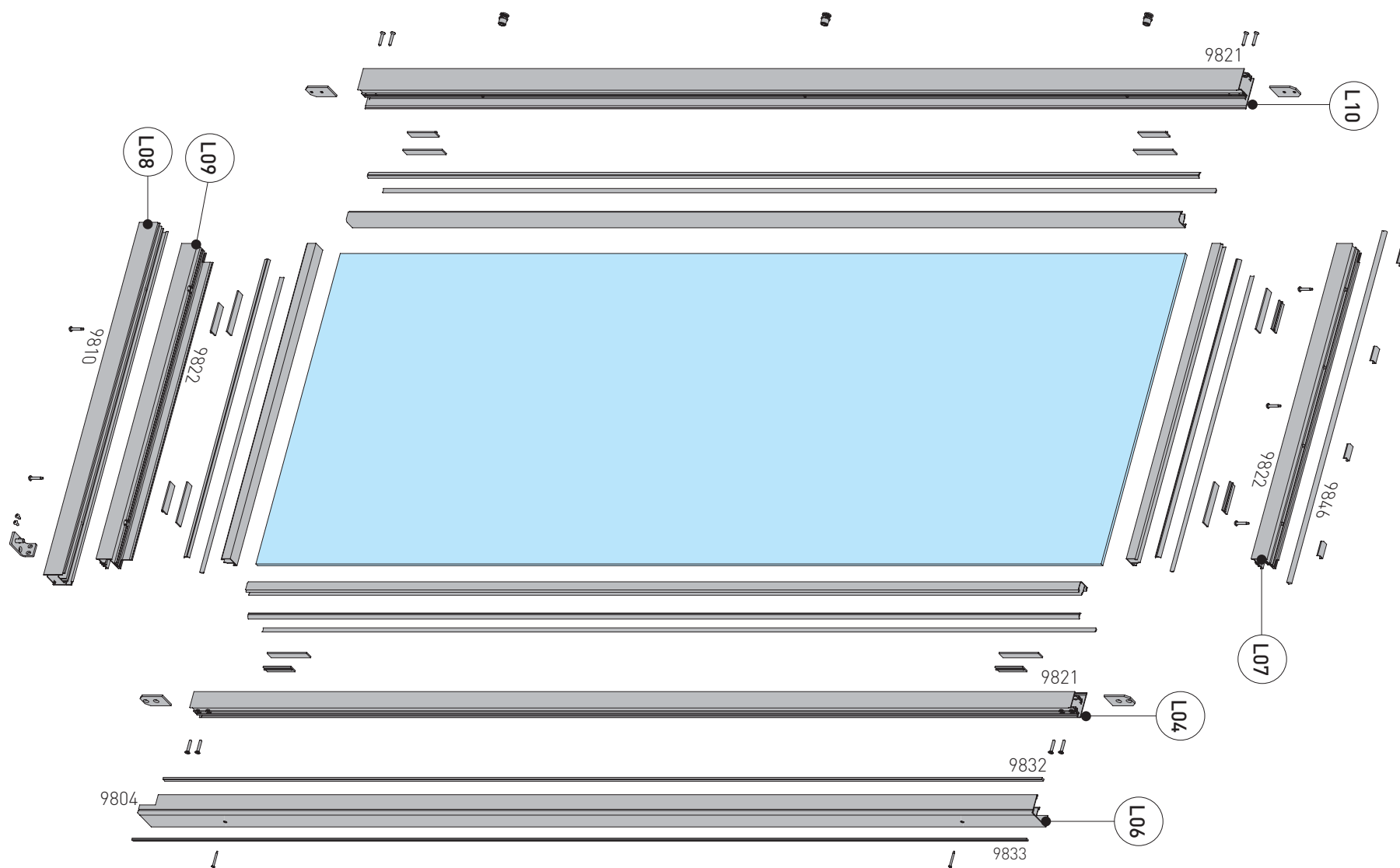
Seitenteil mit Kämpferprofil

Vantail fixe avec montant

Hoja fija con viga

Portinhola fixa com trave

T70

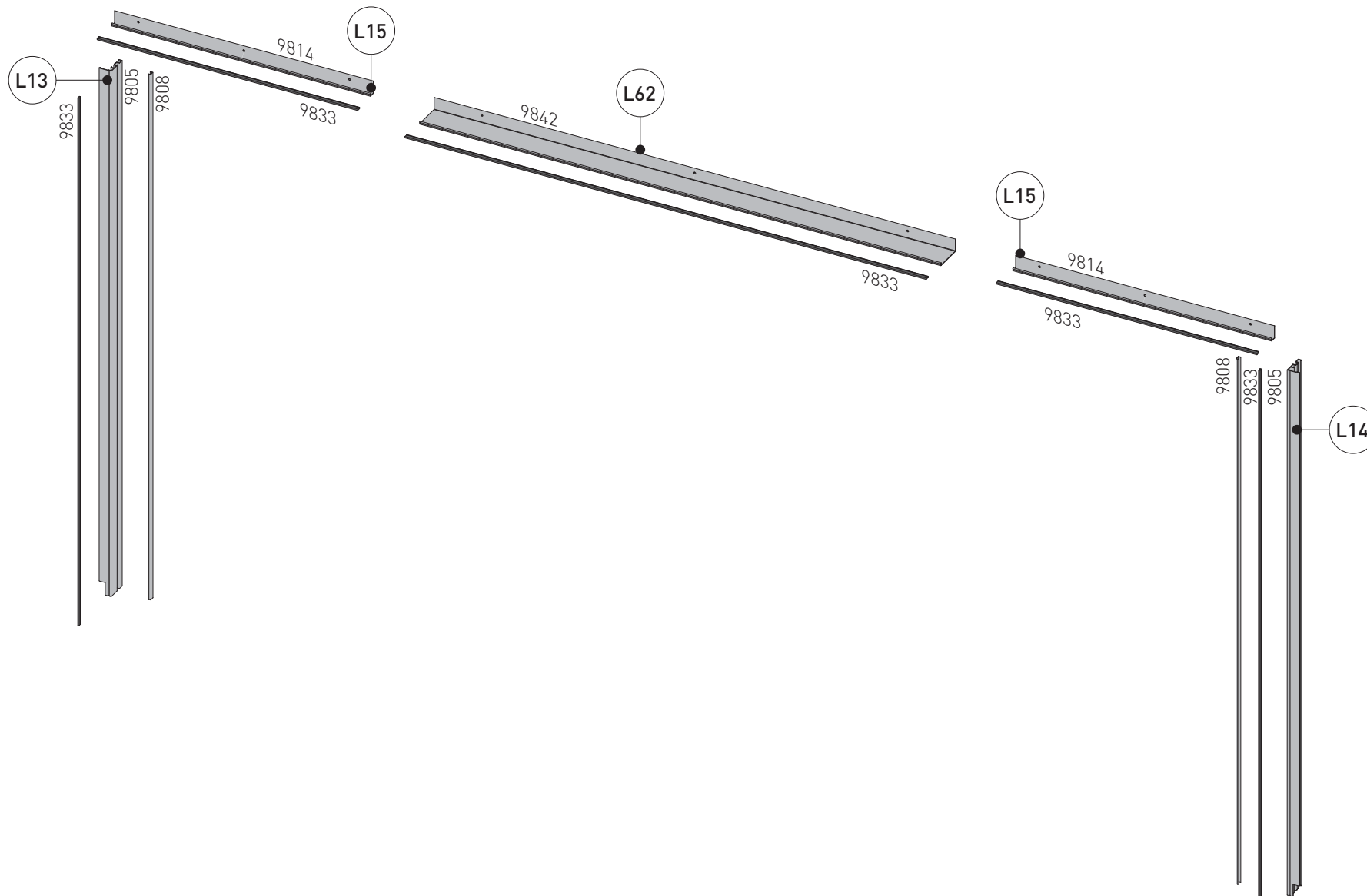


## 23. Processes



Frame for 2+2 moving door wings  
Cornice 2+2 ante mobili  
Rahmen für 2+2 Fahrflügel  
Cadre 2+2 vantaux mobiles  
Marco de 2+2 hojas móviles  
Caixilho de 2+2 portinholas móveis

T71



# 23. Processes



Frame for 1+1 moving door wing (NOTE 2 see page 10)

Cornice 1+1 anta mobile

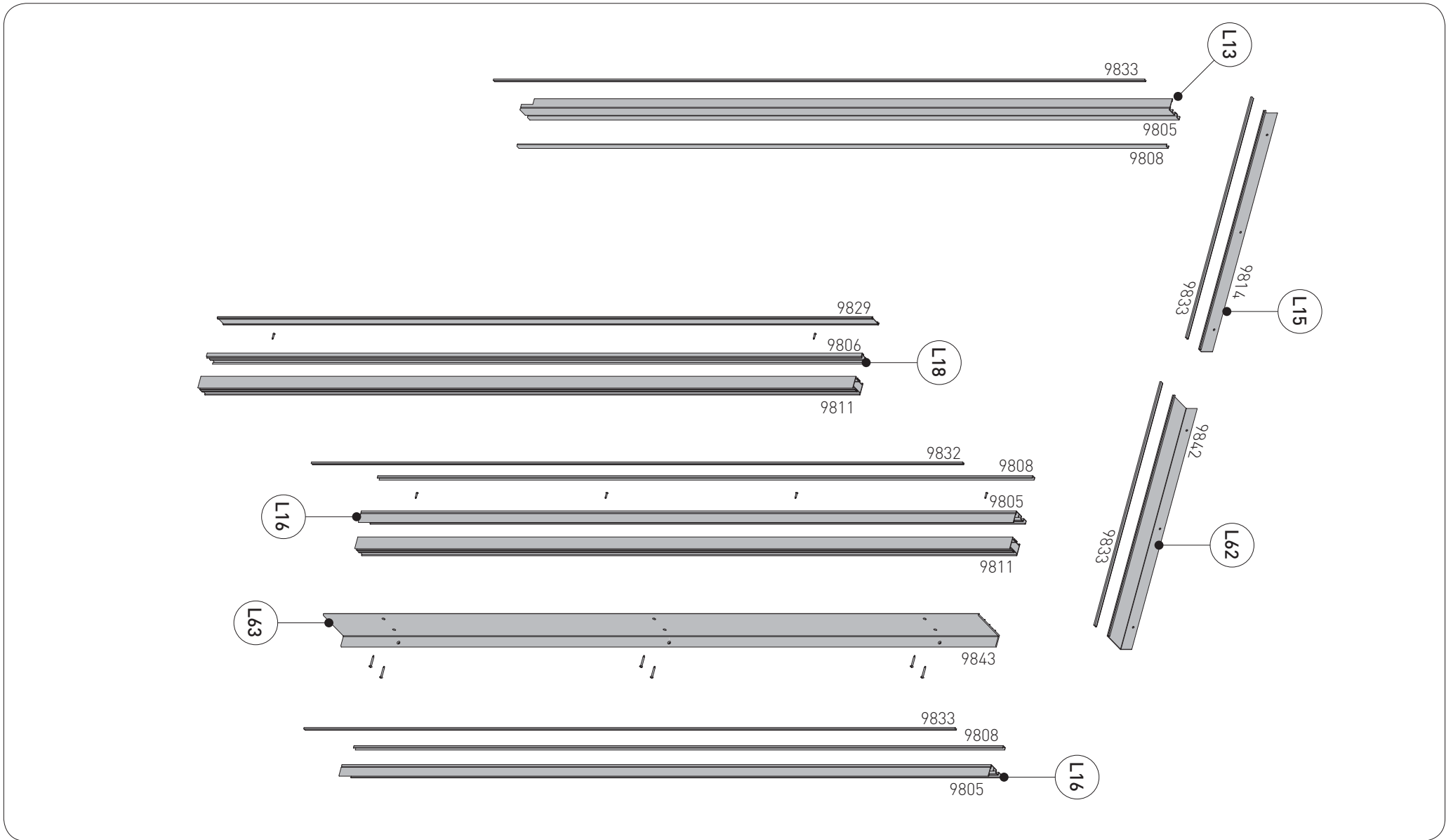
Rahmen für 1+1 Fahrflügel

Cadre 1+1 vantail mobile

Marco de 1+1 hoja móvil

Caixilho de 1+1 portinhola móvel

T72

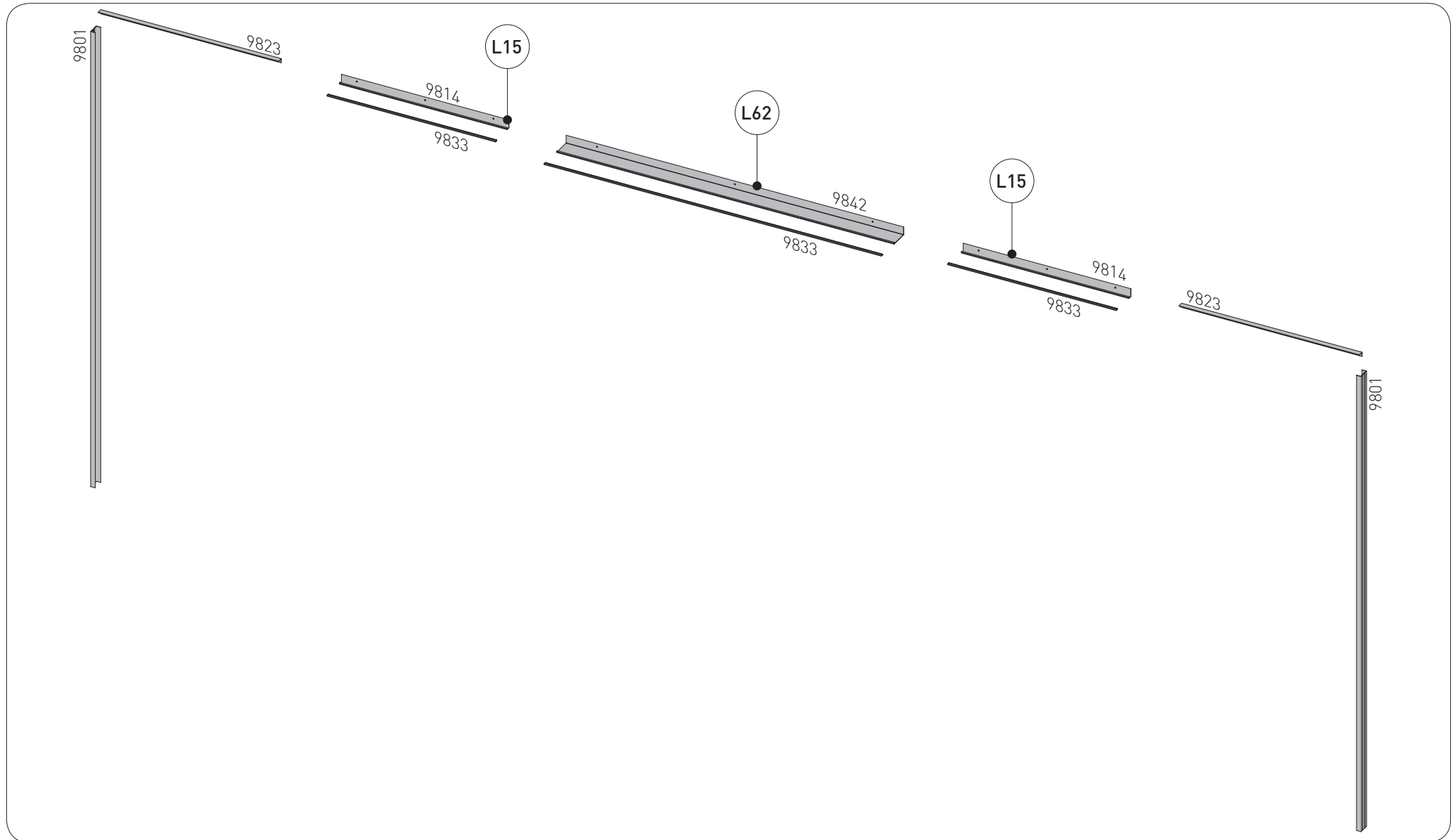


## 23. Processes



Frame for 2+2 moving door wings and 2 fixed door wings  
Cornice 2+2 ante mobili e 2 ante fisse  
Rahmen für 2+2 Fahrflügel und 2 Seitenteile  
Cadre 2+2 vantaux mobiles et 2 vantaux fixes  
Marco de 2+2 hojas móviles y 2 hojas fijas  
Caixilho de 2+2 portinholas móveis e 2 portinholas fixas

T73



## 23. Processes



Frame for 1+1 moving door wing and 1 fixed door wing **(NOTE 2** see page 10)

Cornice una 1+1 mobile e 1 anta fissa

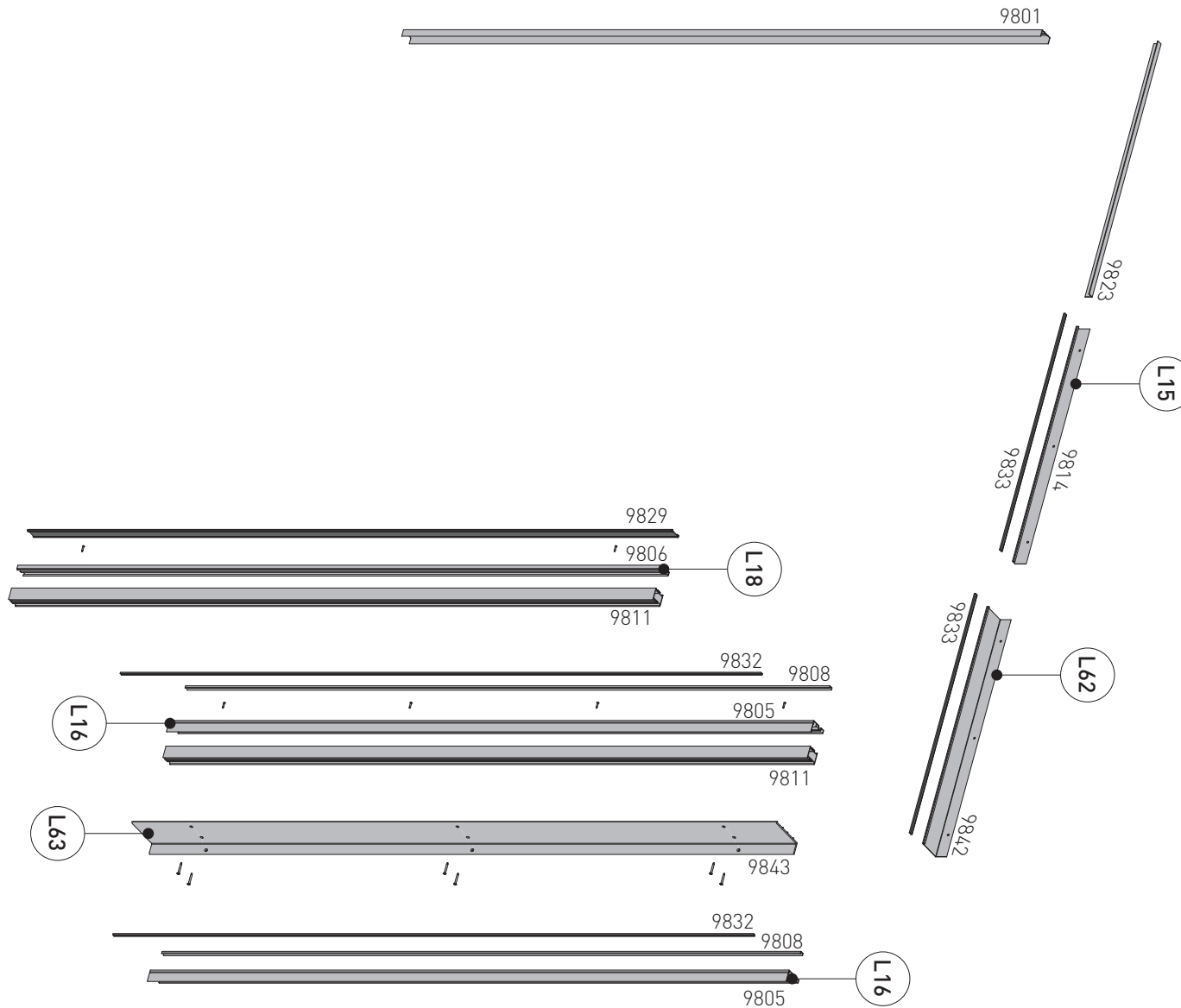
Rahmen für 1+1 Fahrflügel und 1 Seitenteil

Cadre 1+1 vantail mobile et 1 vantail fixe

Marco de 1+1 hoja móvil y 1 hoja fija

Caixilho de 1+1 portinhola móvel e 1 portinhola fixa

T74

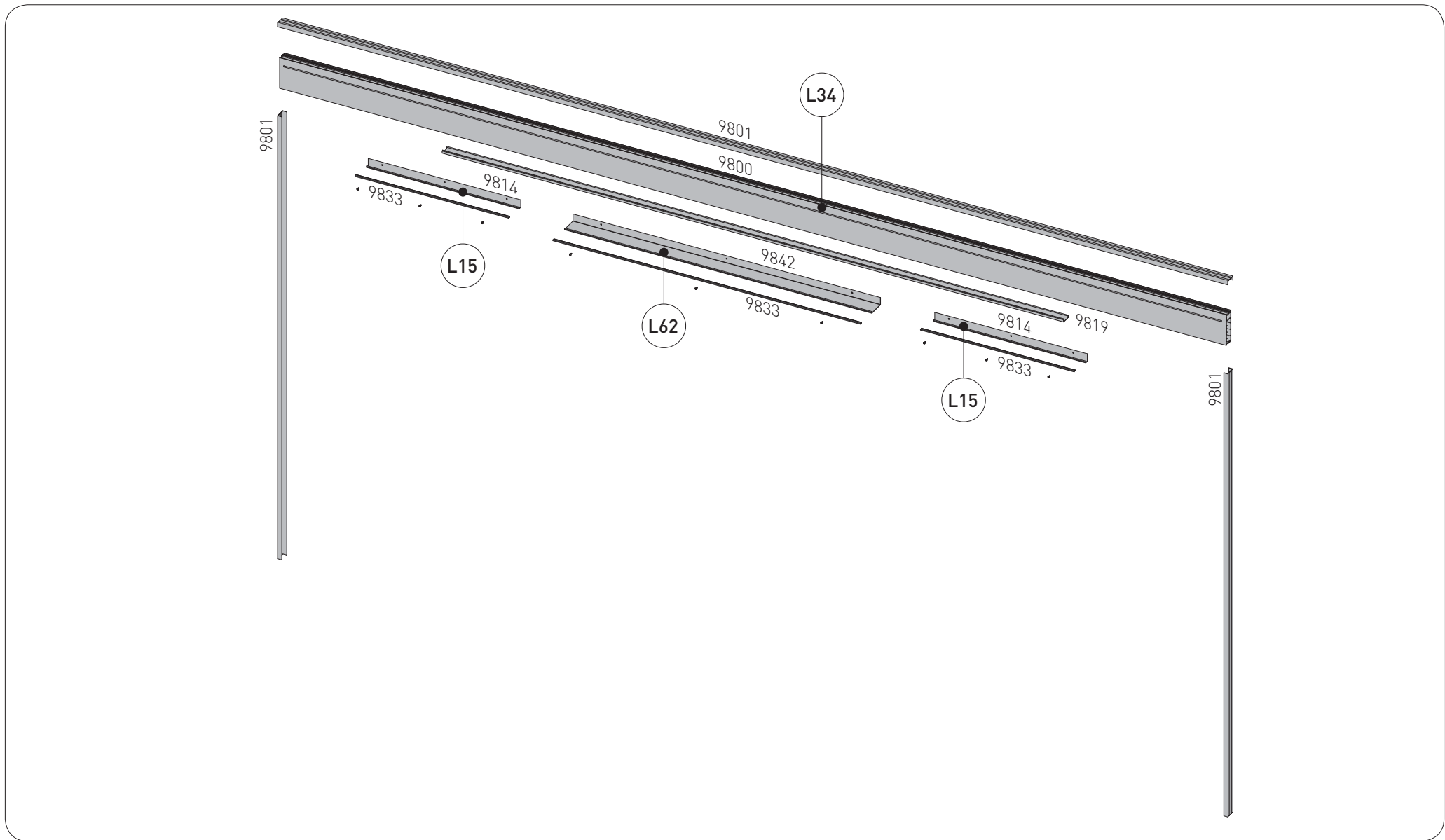




## 23. Processes **C** **T**

Frame for 2+2 moving door wings and 2 fixed door wings with beam  
 Cornice 2+2 ante mobili 2 ante fisse con trave  
 Rahmen für 2+2 Fahrflügel und 2 Seitenteile mit Kämpferprofil  
 Cadre 2+2 vantaux mobiles et 2 vantaux fixes avec montant  
 Marco de 2+2 hojas móviles y 2 hojas fijas con viga  
 Caixilho de 2+2 portinholas móveis e 2 portinholas fixas com trave

T75



## 23. Processes

**C T**

Frame for 1+1 moving door wing and 1 fixed door wing with beam (NOTE 2 see page 10)

Cornice 1+1 anta mobile e 1 anta fixa con trave

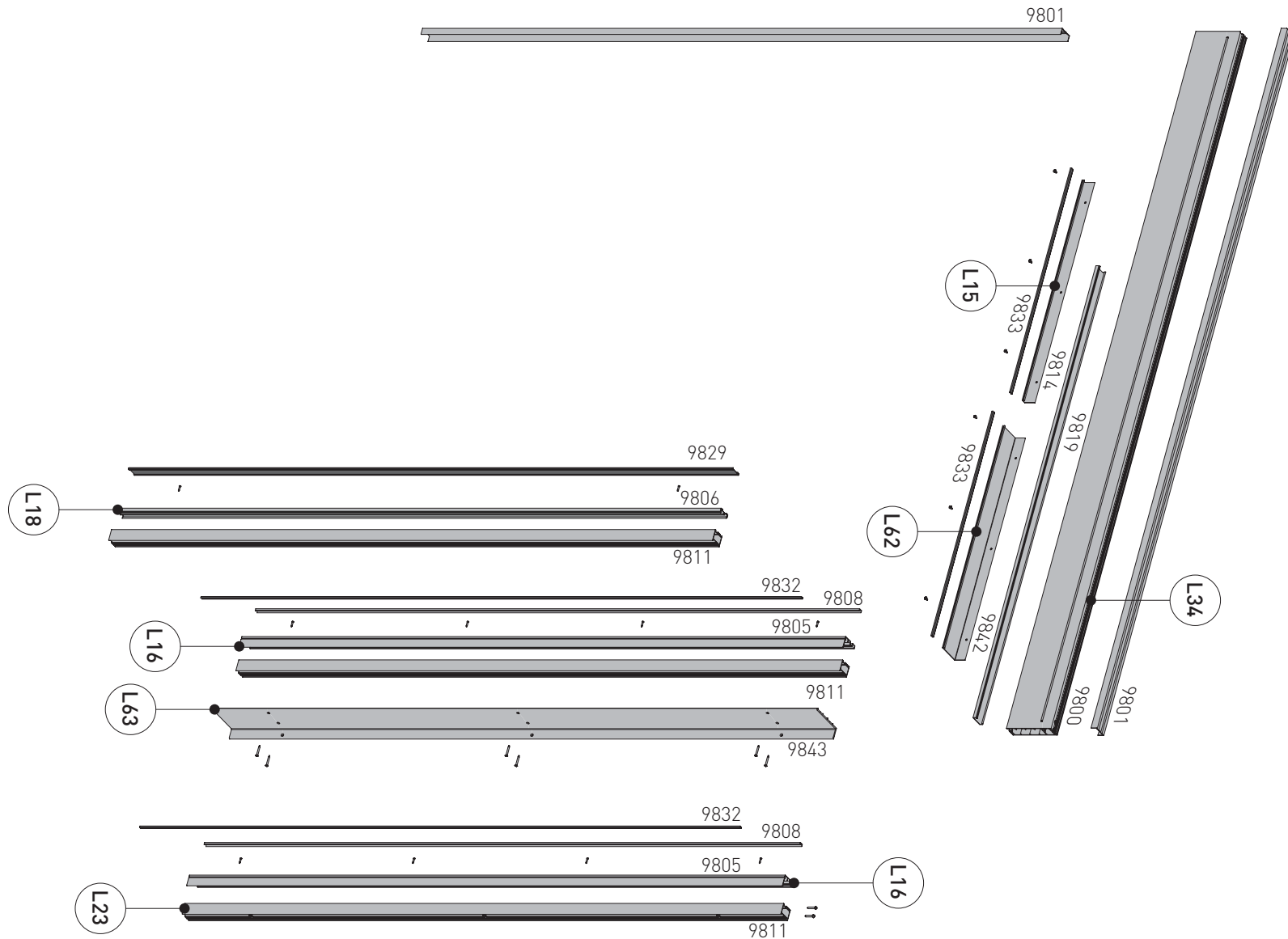
Rahmen für 1+1 Fahrflügel und 1 Seitenteil mit Kämpferprofil

Cadre 1+1 vantail mobile et 1 vantail fixe avec montant

Marco de 1+1 hoja móvil y 1 hoja fija con viga

Caixilho de 1+1 portinhola móvel e 1 portinhola fixa com trave

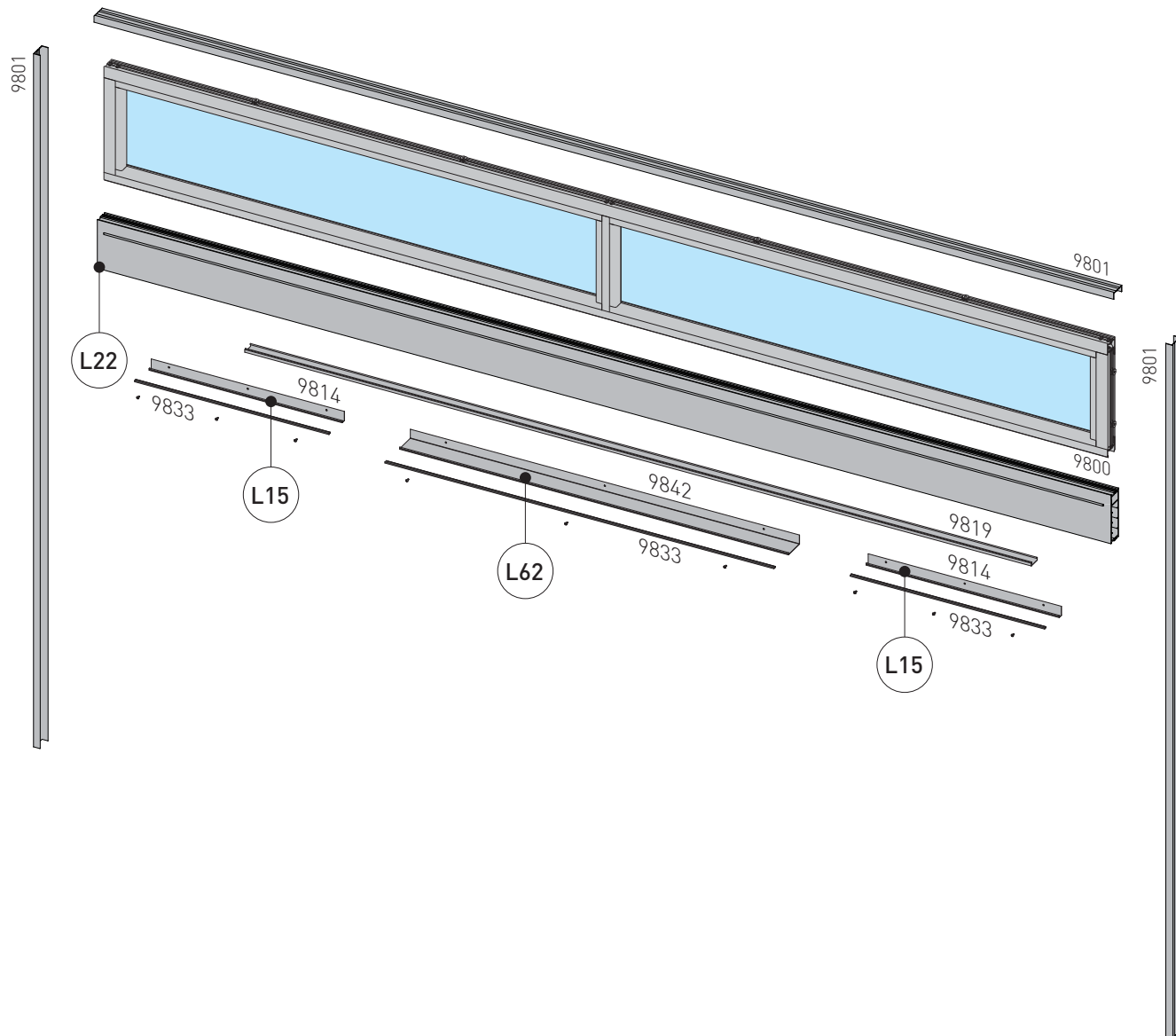
T76



## 23. Processes **C T S**

Frame for 2+2 moving door wings and 2 fixed door wings with beam and overlight  
 Cornice 2+2 ante mobili e 2 ante fisse con trave e sopra luce  
 Rahmen für 2+2 Fahrflügel und 2 Seitenteile mit Kämpferprofil und Oberlicht  
 Cadre 2+2 vantaux mobiles et 2 vantaux fixes avec montant et imposte  
 Marco de 2+2 hojas móviles y 2 hojas fijas con viga y montante  
 Caixilho de 2+2 portinholas móveis e 2 portinholas fixas com trave e bandeira

T77



## 23. Processes

**C T S**

Frame for 1+1 moving door wing and 1 fixed door wing with beam and overlight (**NOTE 2** see page 10)

Cornice una 1+1 mobile e 1 anta fissa con trave e sopra luce

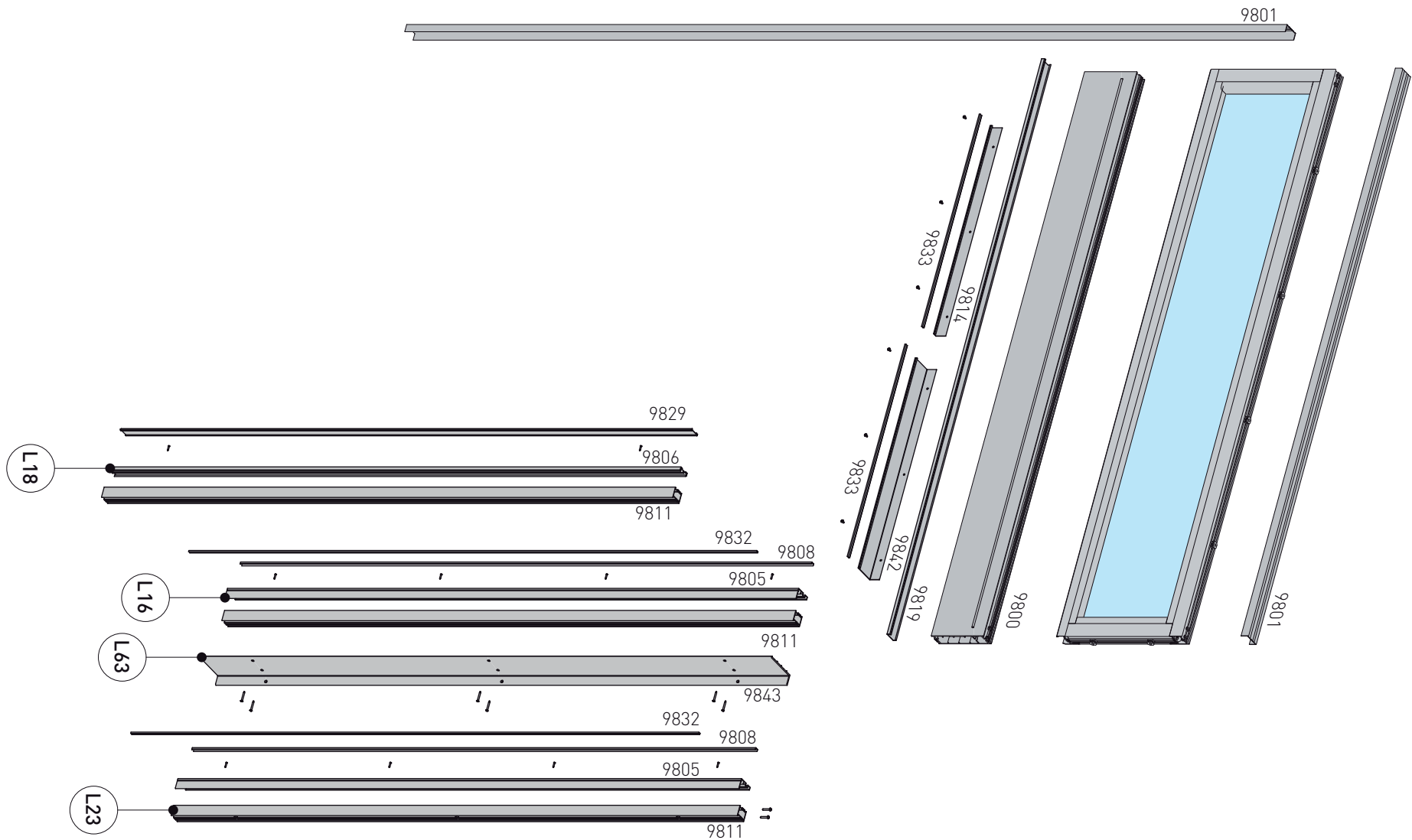
Rahmen für 1+1 Fahrflügel und 1 Seitenteil mit Kämpferprofil und Oberlicht

Cadre 1+1 vantail mobile et 1 vantail fixe avec montant et imposte

Marco de 1+1 hoja móvil y 1+1 hoja fija con viga y montante

Caixilho de 1+1 portinhola móvel e 1 portinhola fixa com trave e bandeira

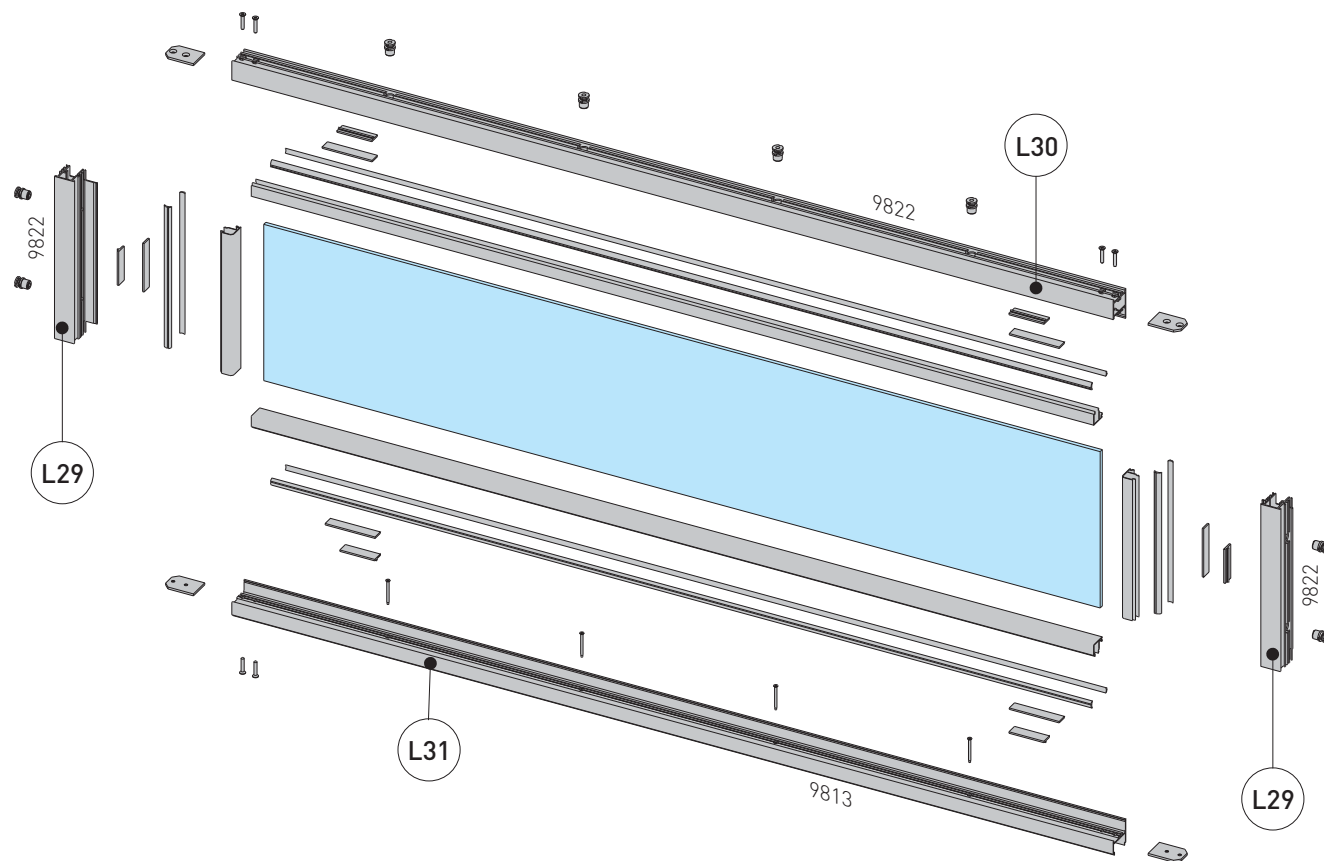
T78



## 23. Processes

- S** Overlight with one glazed panel  
Sopraluce con una specchiatura  
Oberlicht mit einer Füllung  
Imposte avec une vitre  
Montante con un entrapañó  
Bandeira com um espelhamento

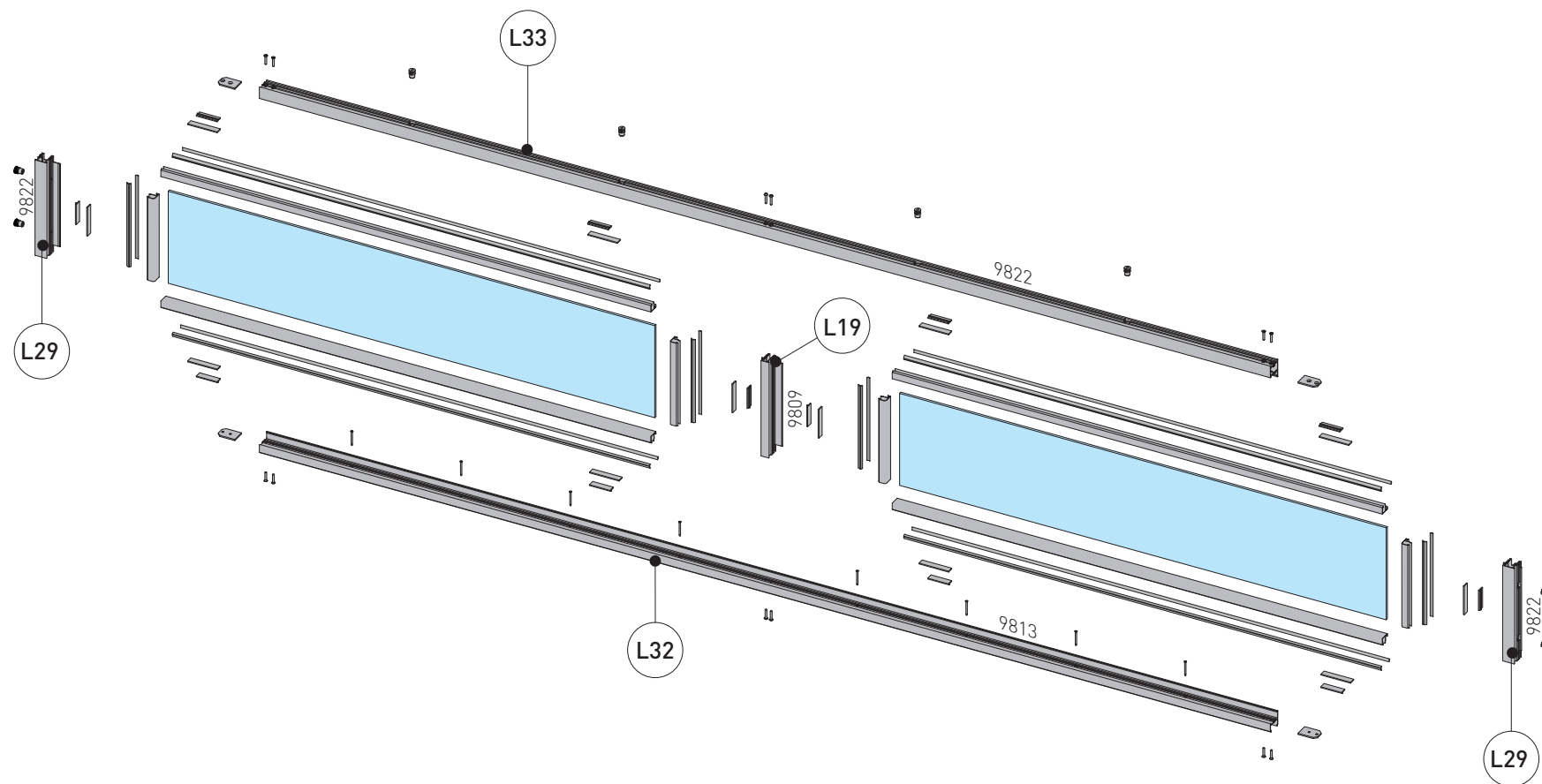
T79



## 23. Processes

- S** Overlight with two glazed panels  
Sopraluce con due specchiature  
Oberlicht mit zwei Füllungen  
Imposte avec deux vitres  
Montante con dos entreaños  
Bandeira com dois espelhamentos

T80



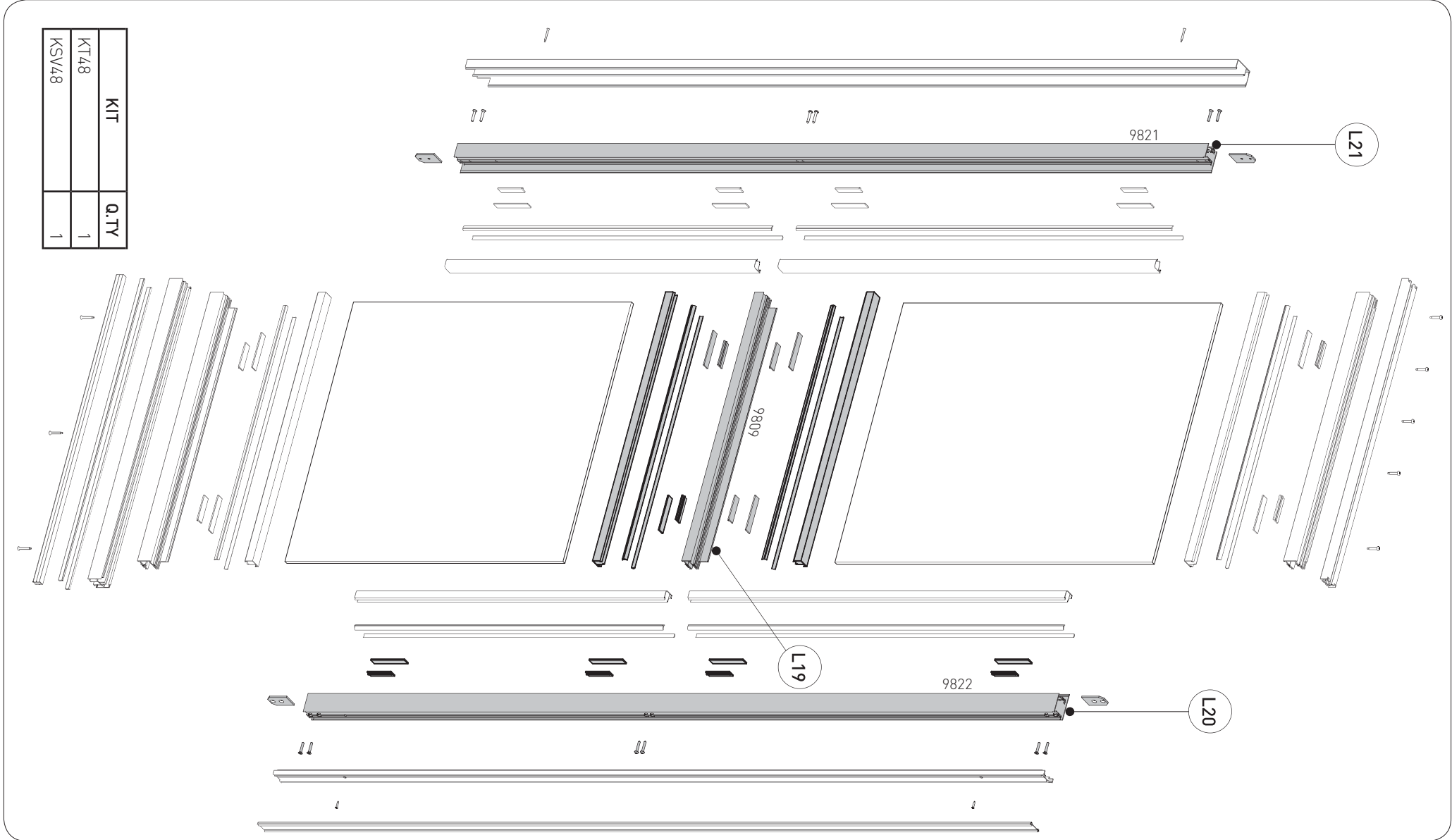
# 23. Processes



Moving door wing crosspiece (NOTE 2 see page 10)  
 Traverso anta mobile  
 Querträger des Fahrflügels  
 Traverse vantail mobile  
 Travesero de hoja móvil  
 Trave da portinhola móvel

T81

KIT		Q.TY
KT48		1
KSV48		1



# 23. Processes

**F**

Fixed door wing crosspiece (**NOTE 2** see page 10)

Traverso anta fissa

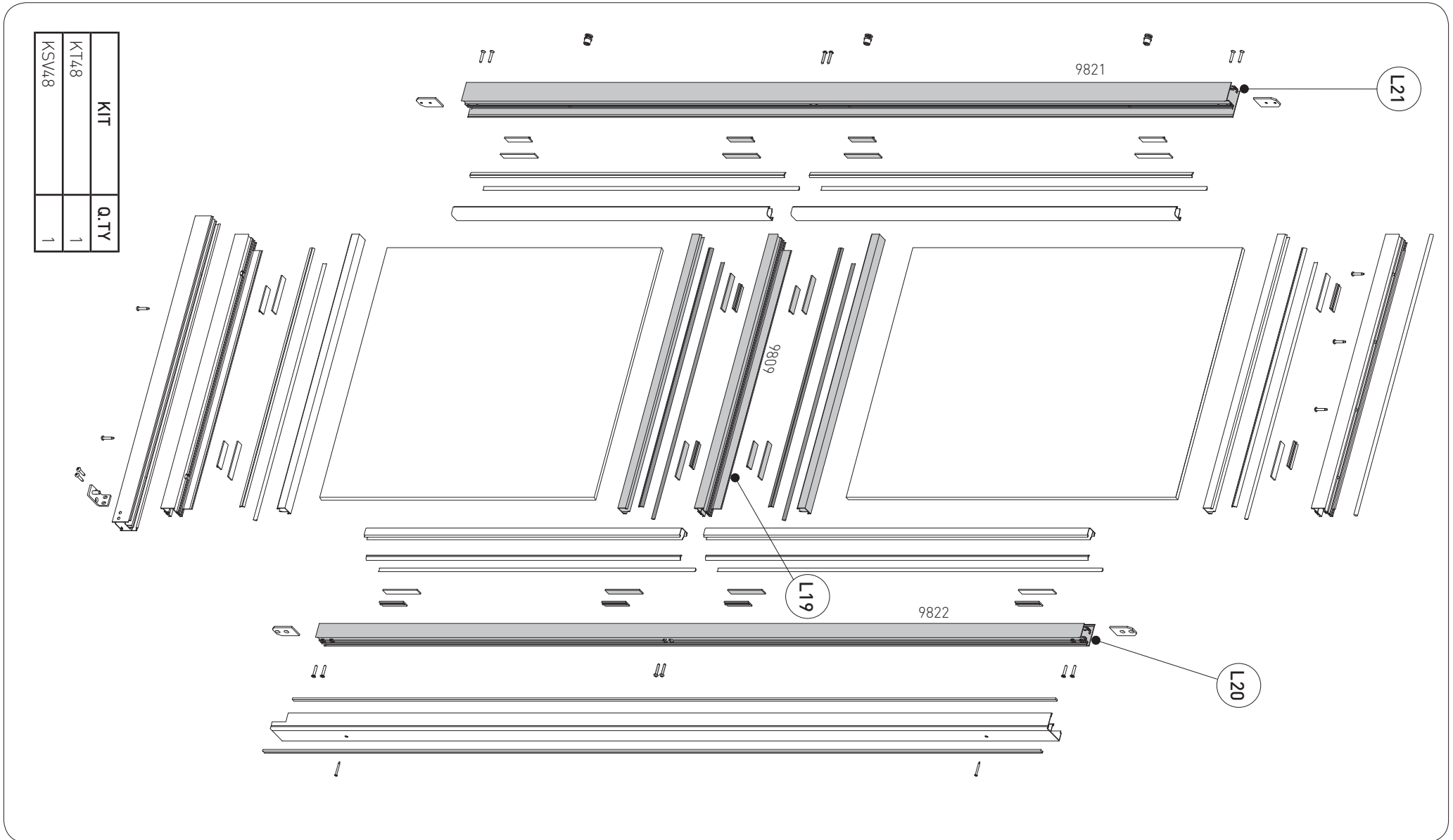
Querträger des Seitenteils

Traverse vantail fixe

Travesero de hoja fija

Trave da portinhola fixa

T82





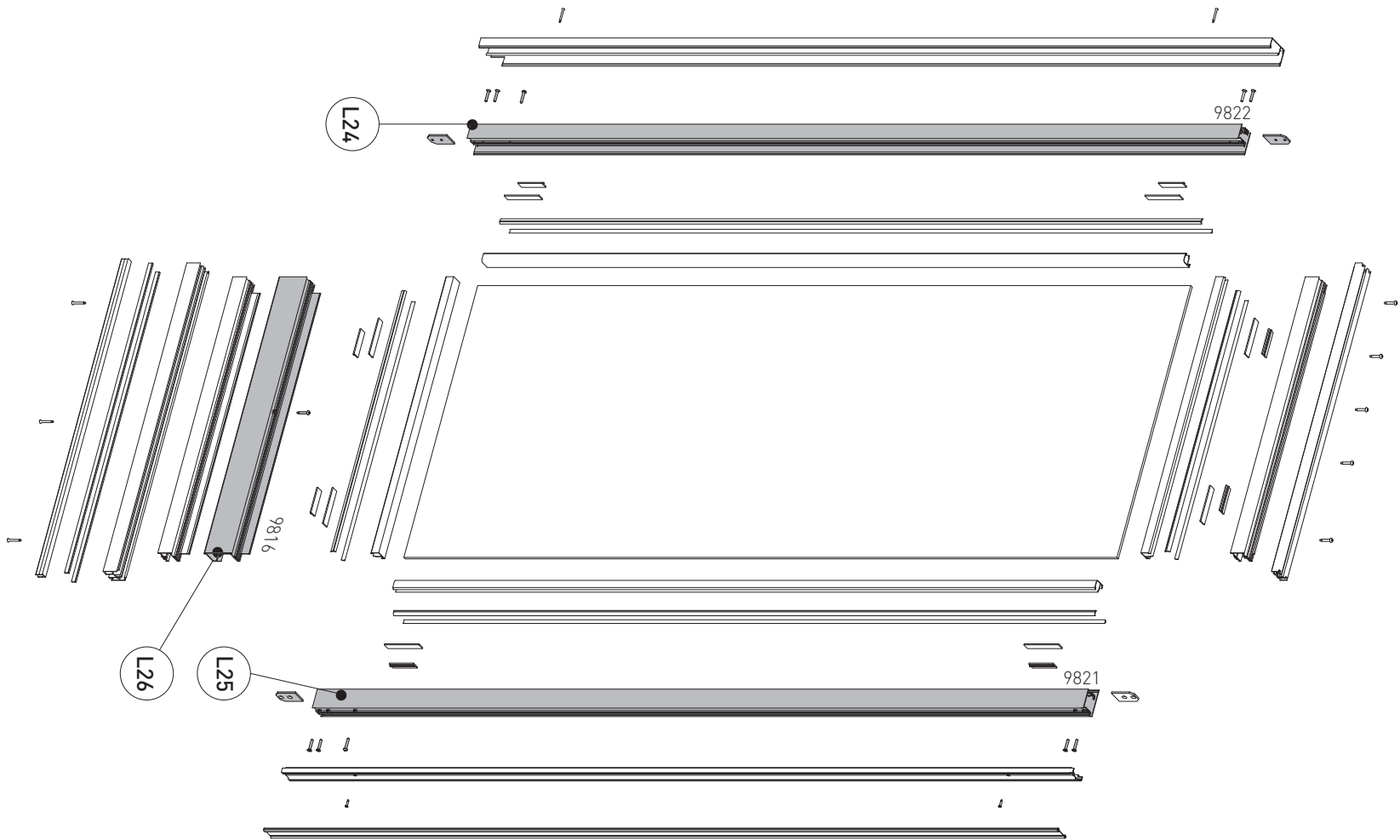
# 23. Processes



Moving door wing base with left-hand opening  
 Zoccolo anta mobile con apertura a sinistra  
 Sockel des Fahrflügels mit Linksöffnung  
 Socle vantail mobile avec ouverture à gauche  
 Zócalo de hoja móvil con apertura a la izquierda  
 Base da portinhola móvel com abertura à esquerda

T83

KT48	KIT	Q.TY
		1

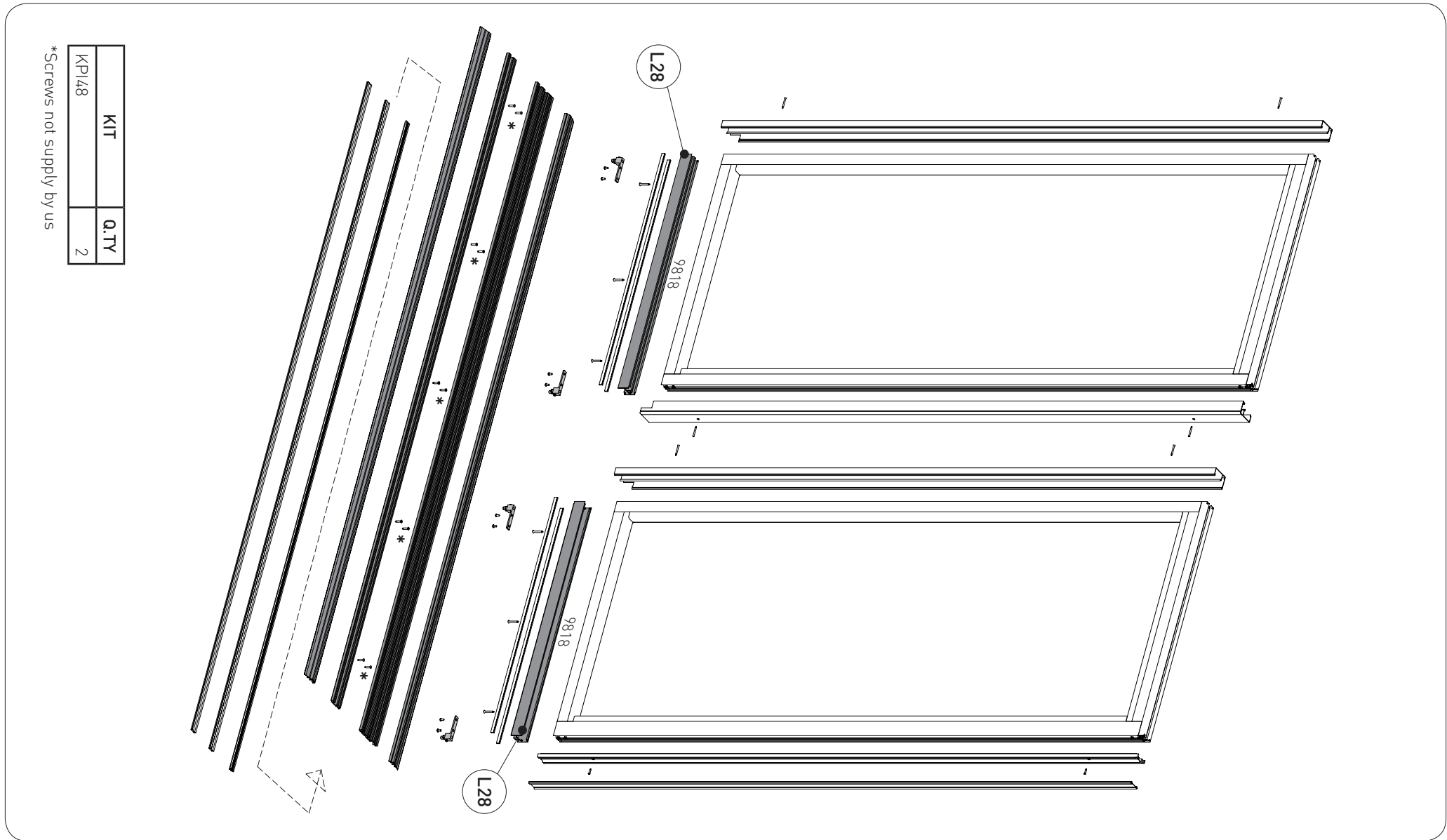


# 23. Processes



Recessed floor guide for mobile wing door (**NOTE 2** see page 10)  
 Pattino incassato anta mobile  
 In Fahrflügel eingebauter Gleiter  
 Patin encastré vantail mobile  
 Patín empotrado de hoja móvil  
 Patim embutido à portinhola móvel

T84



KIT	Q.TY
KP148	2

\*Screws not supply by us

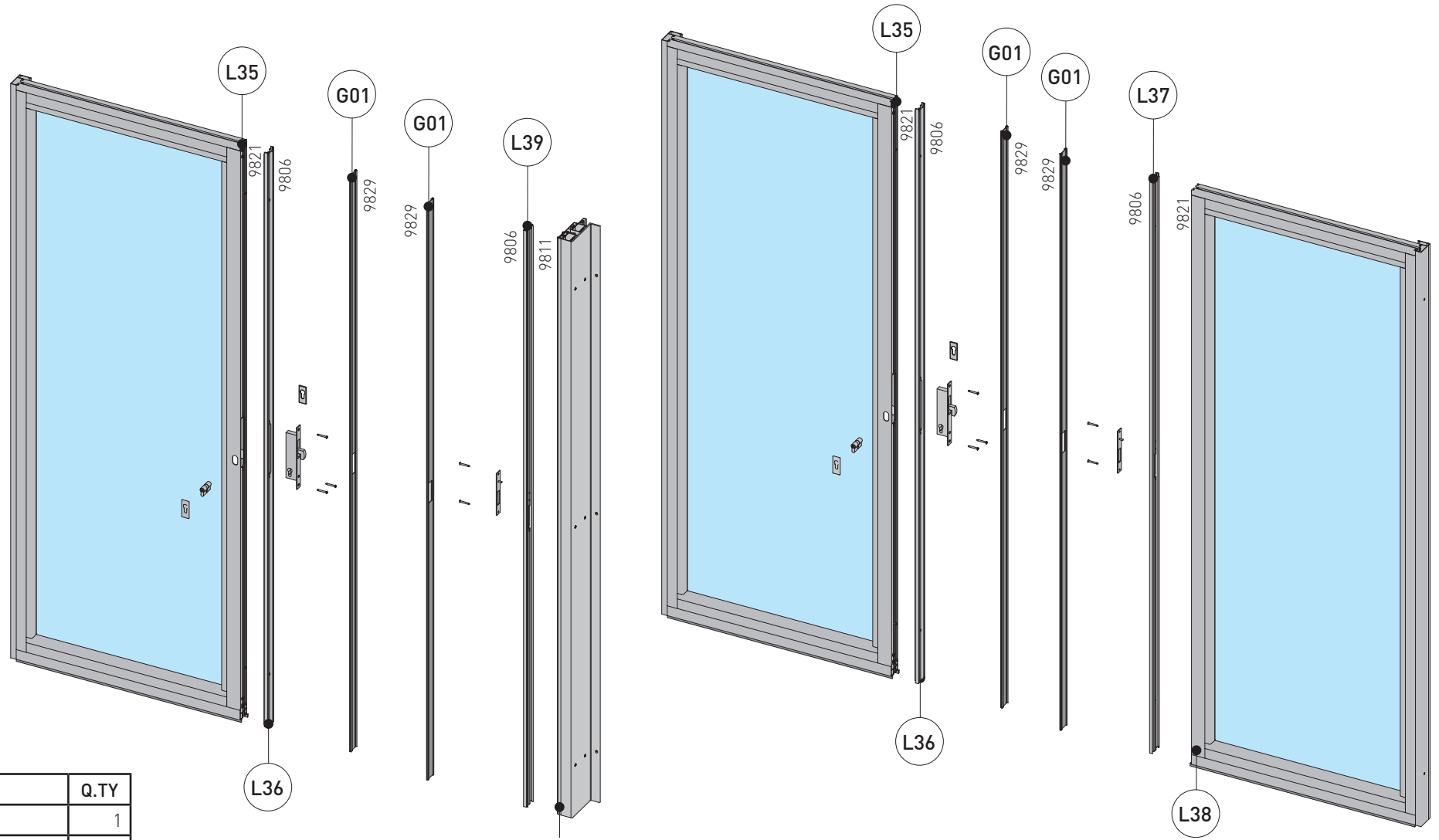
# 23. Processes



Mechanical hook bolt lock (**NOTE 2** see page 10)

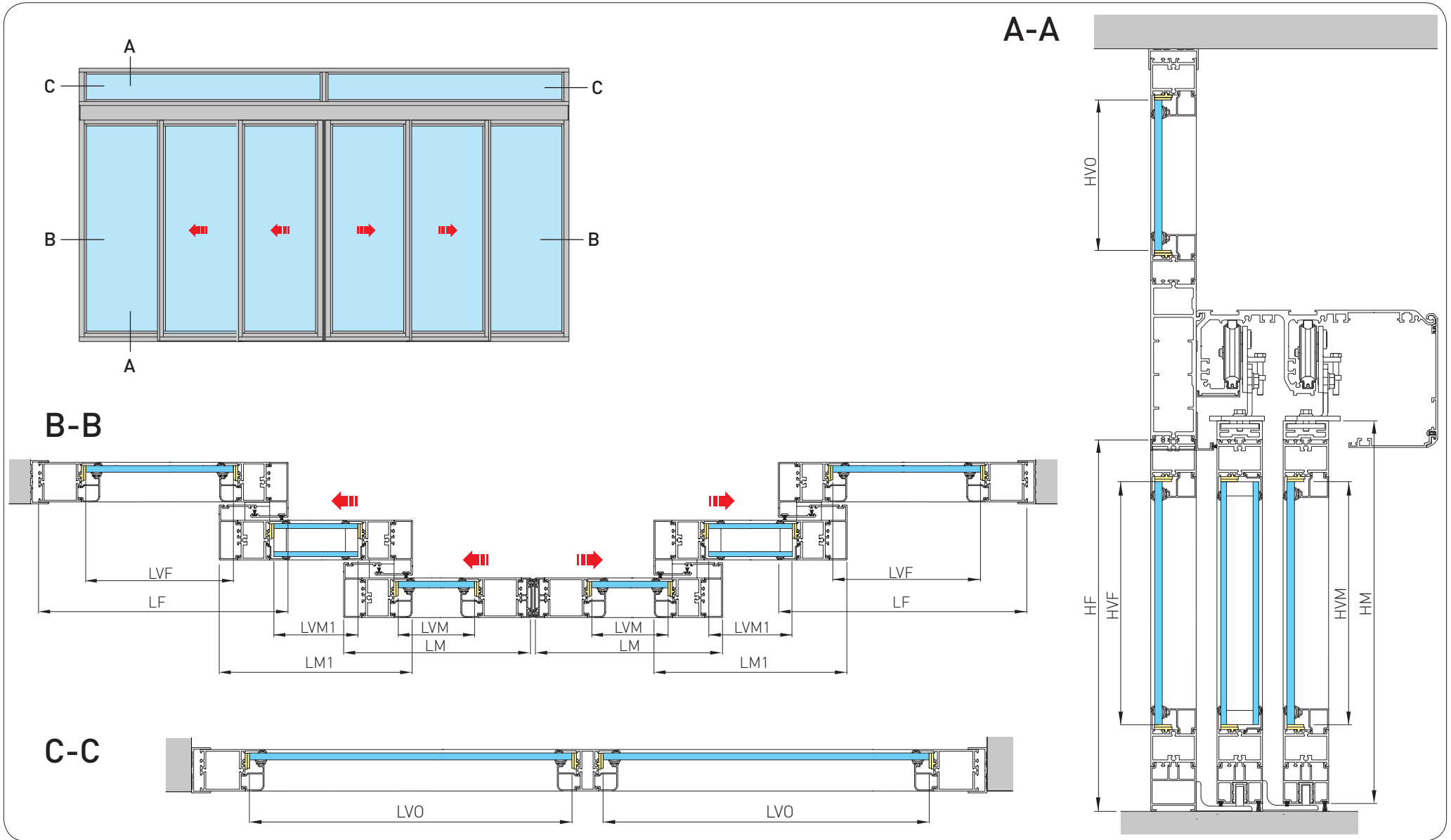
- Serrature
- Schlösser
- Serrures
- Cerraduras
- Ferragens

T85



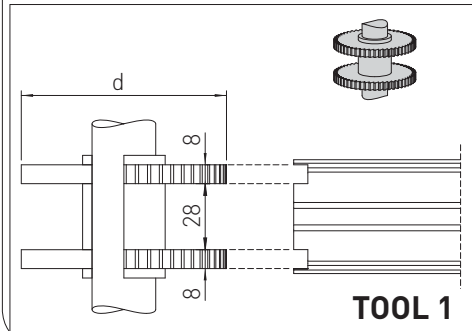
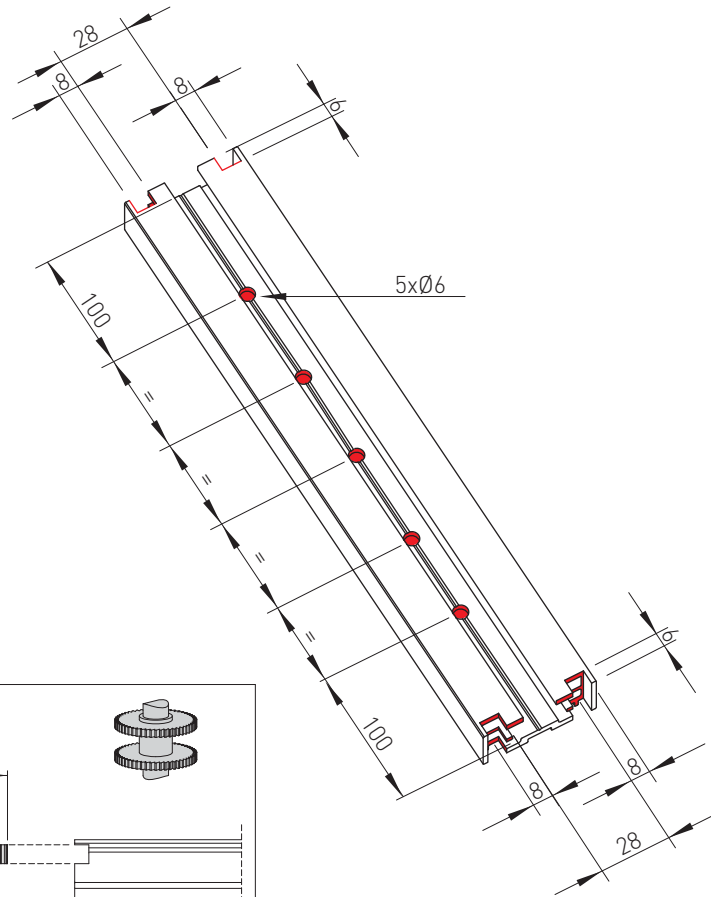
KIT	Q.TY
KSER48	1
KSER481 or KSER482	1

# 24. Details of additional dimensions



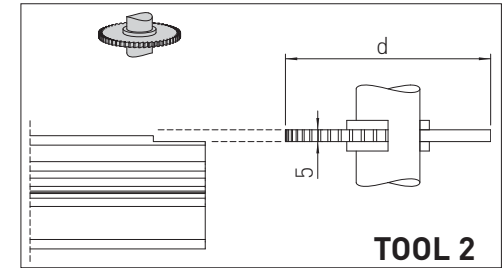
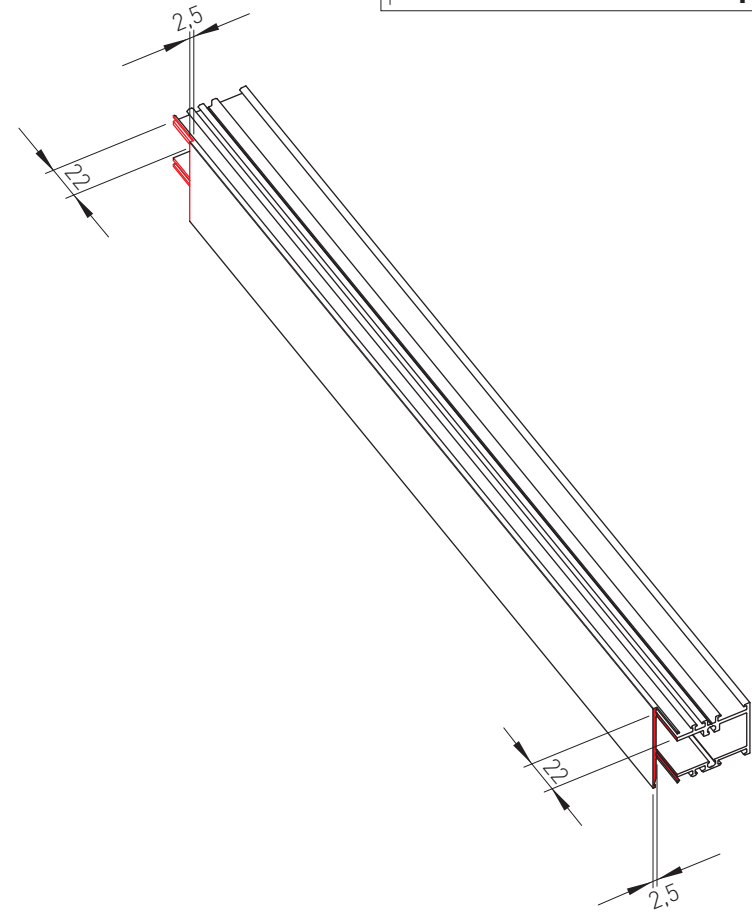
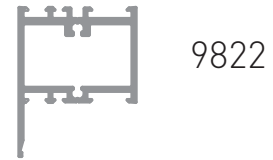
# 25. Working operations

L01



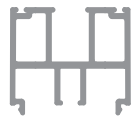
TOOL 1

L02

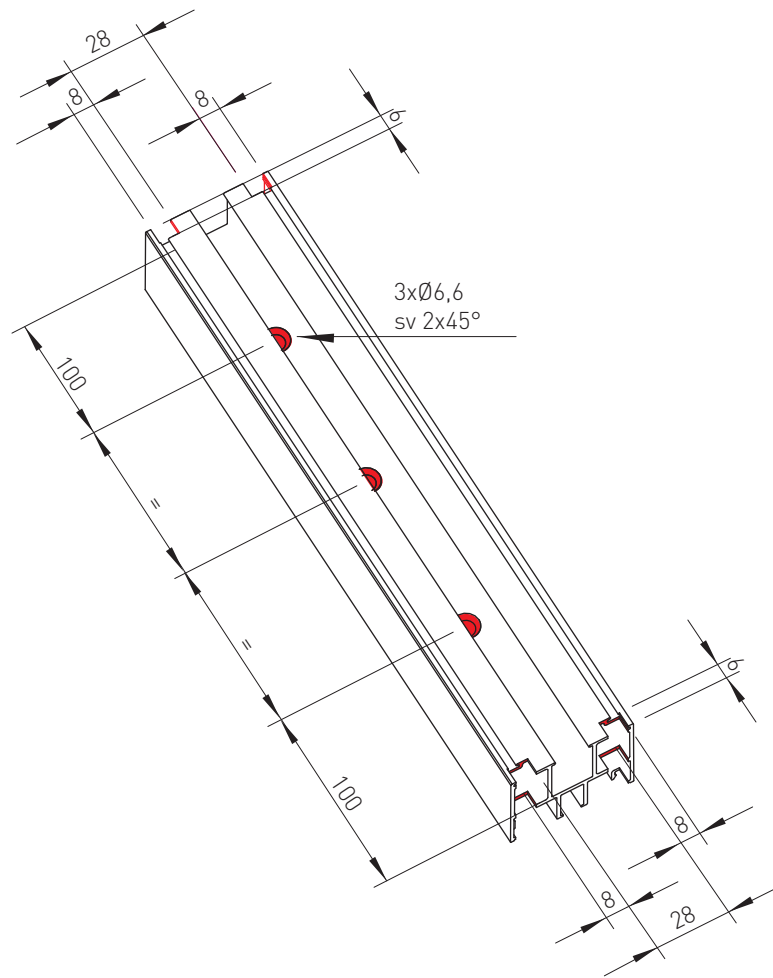


TOOL 2

L03



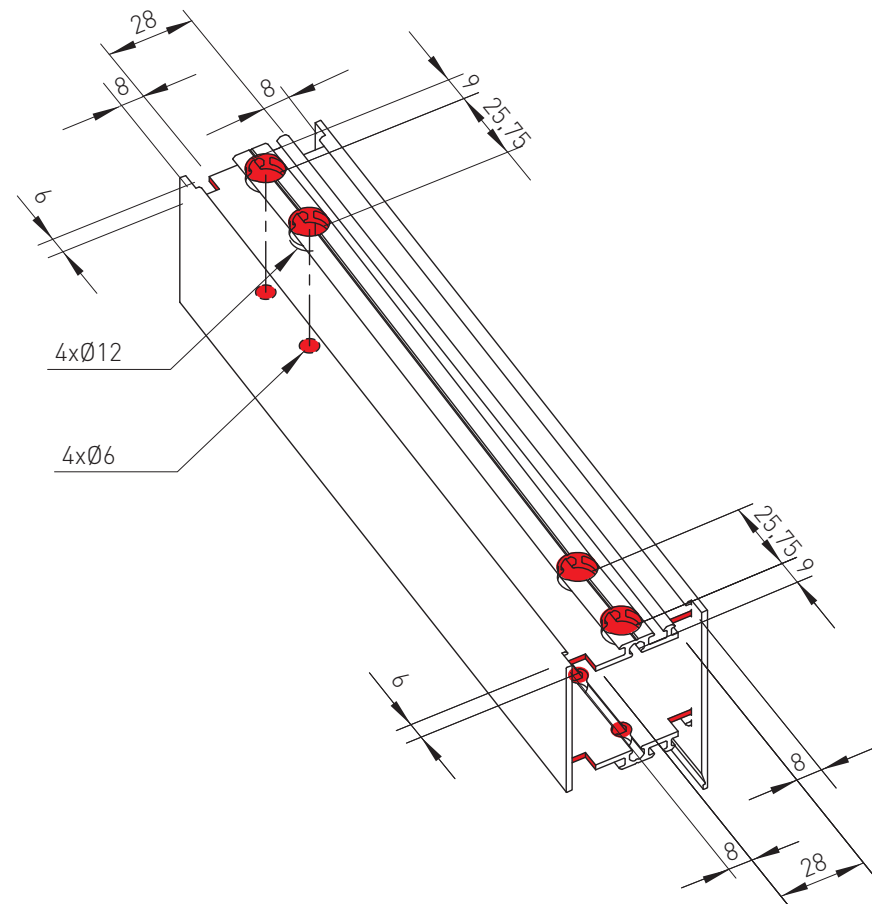
9812  
[see TOOL 1 page 97]



L04



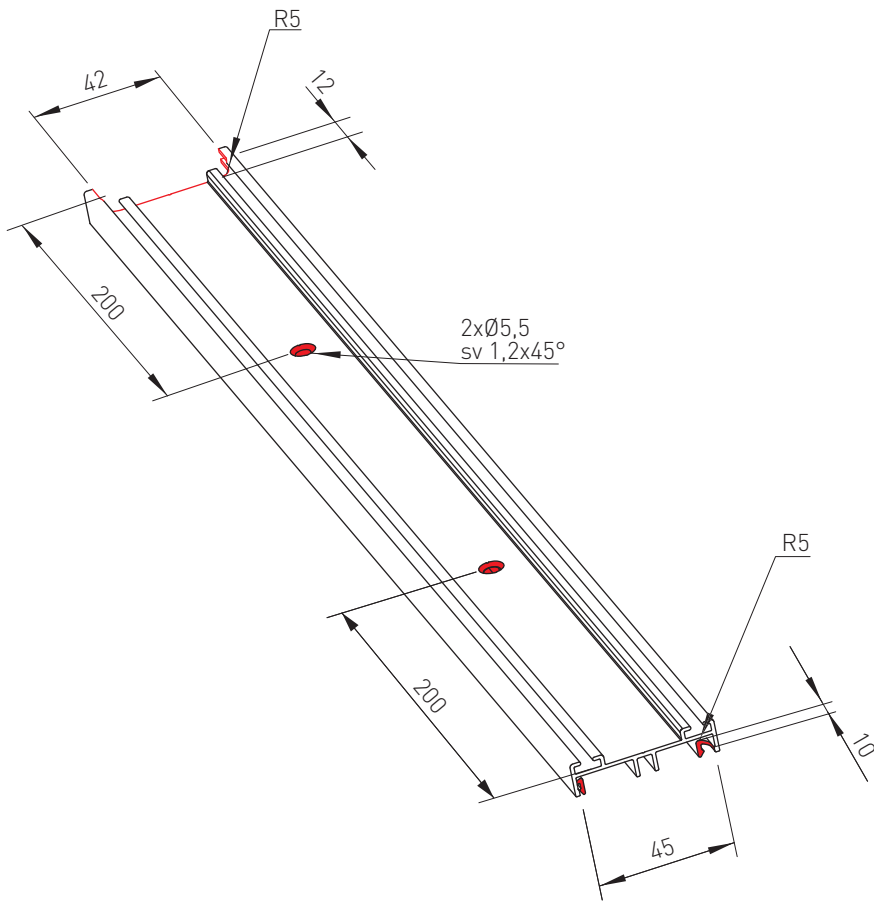
9821  
[see TOOL 1 page 97]



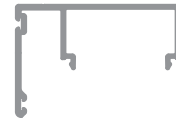
L05



9806

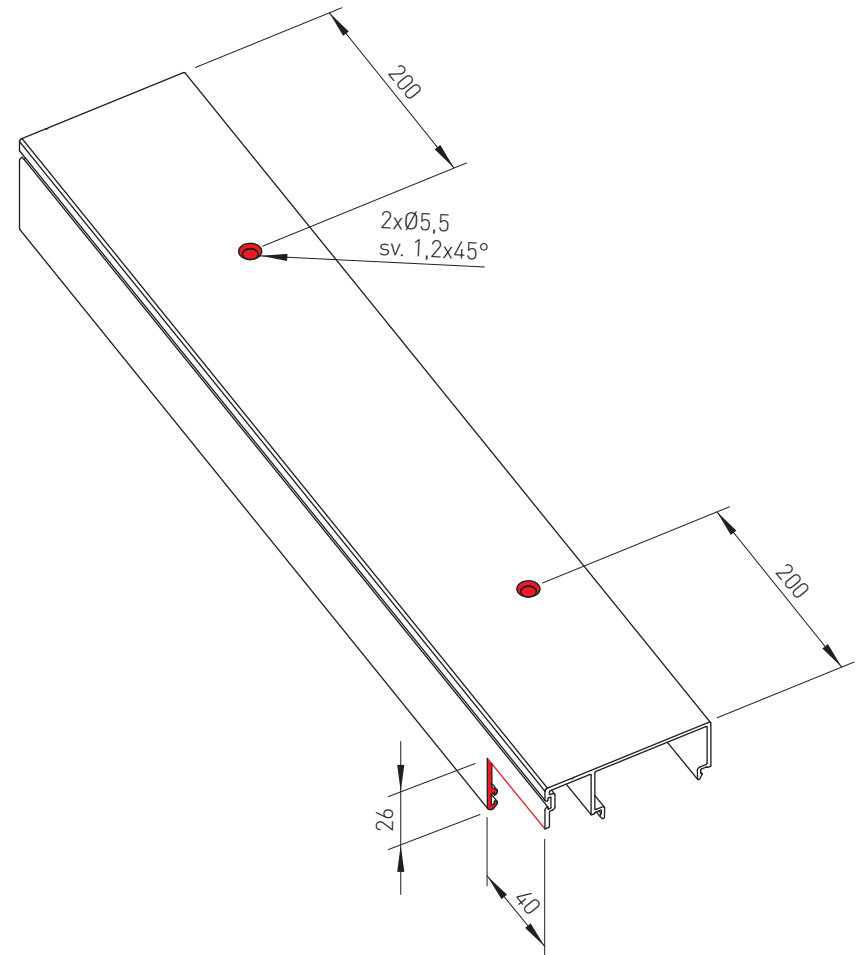


L06

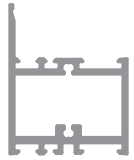


9804

(NOTE 2 see page 10)

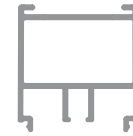


**L07**

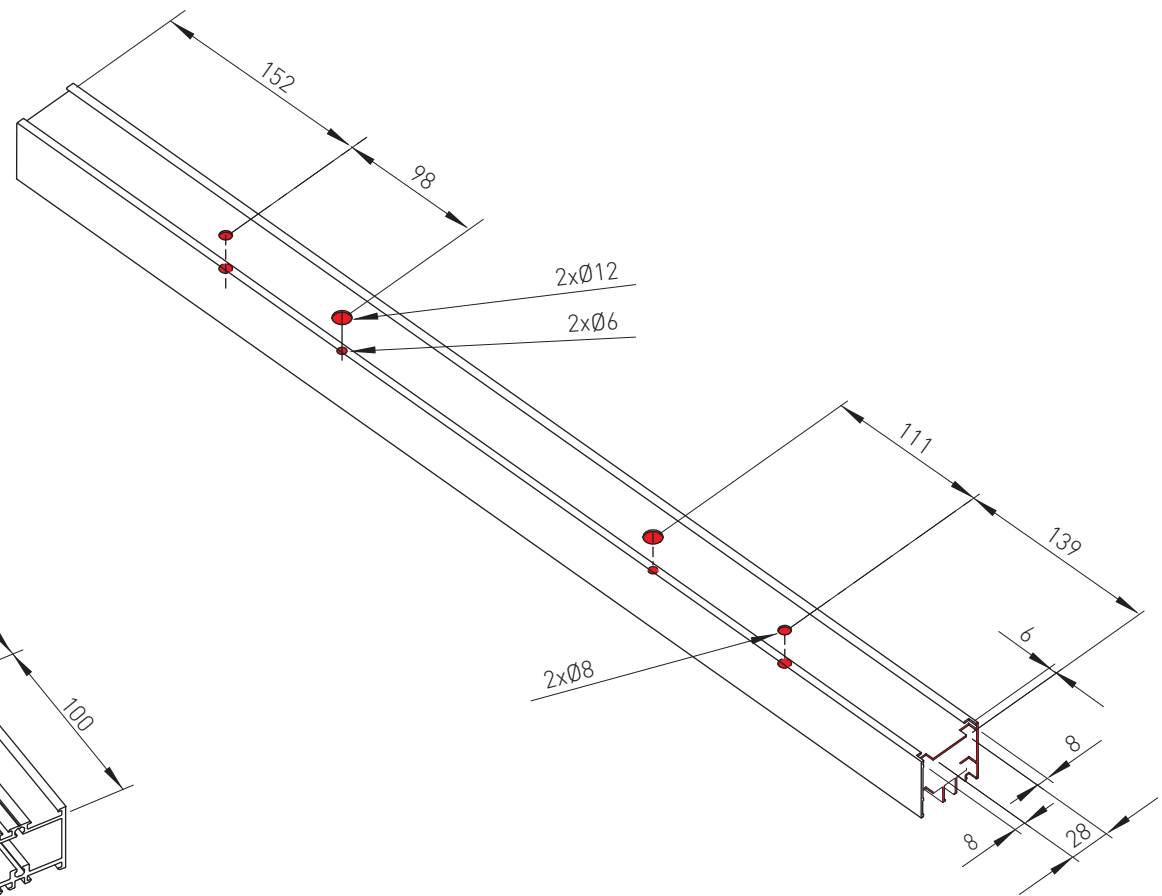
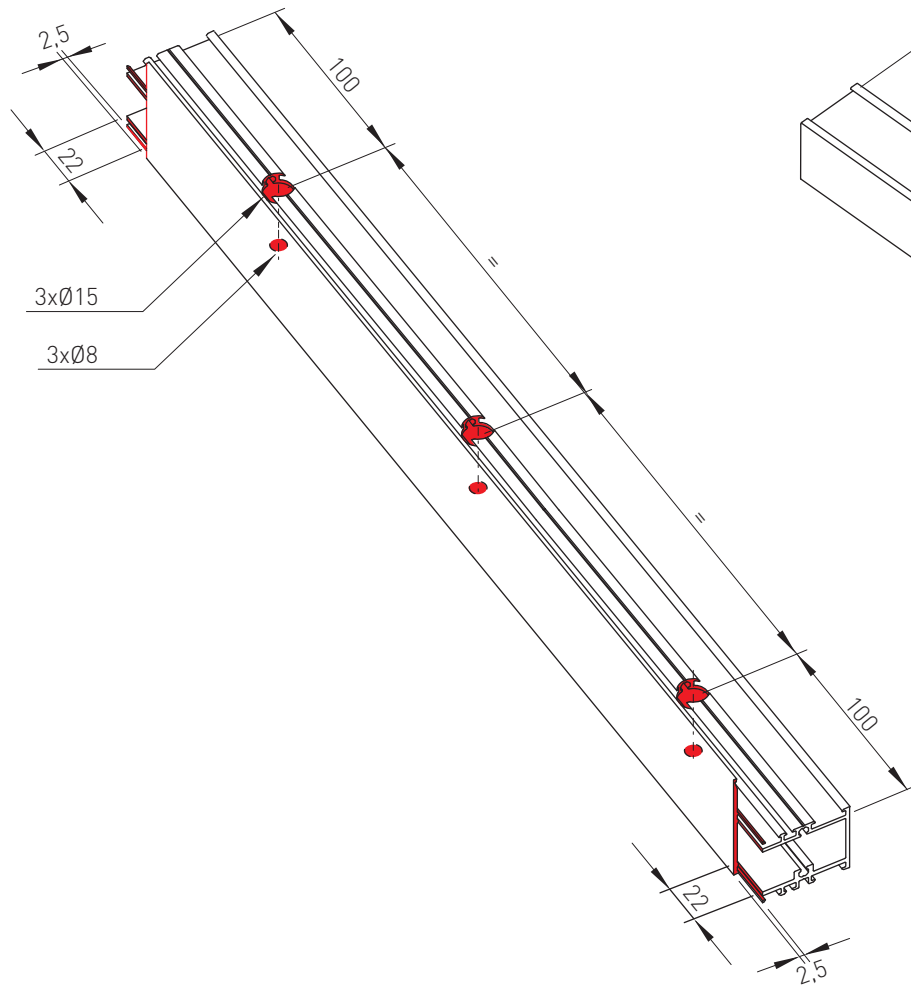


9822  
(see TOOL 2 page 97)

**L08**

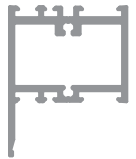


9810



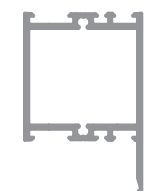


**L09**

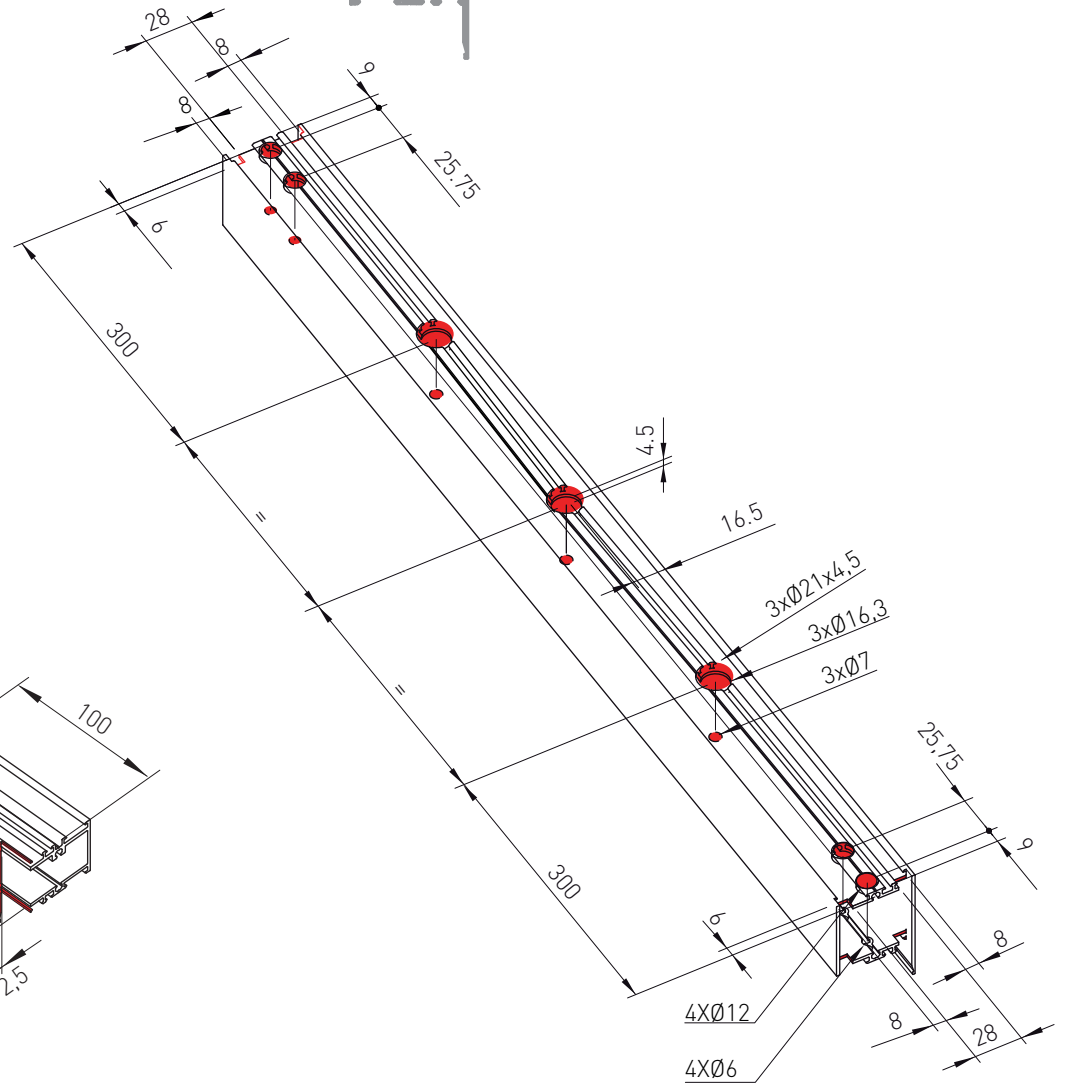
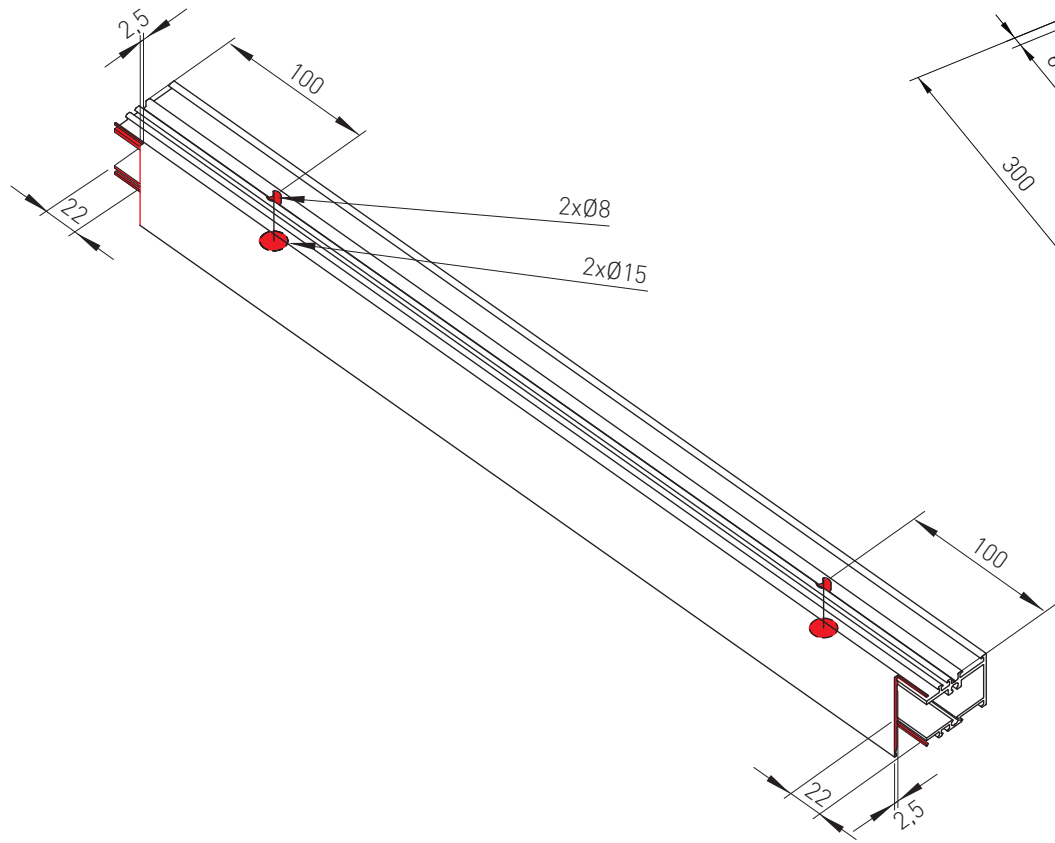


9822  
[see TOOL 2 page 97]

**L10**



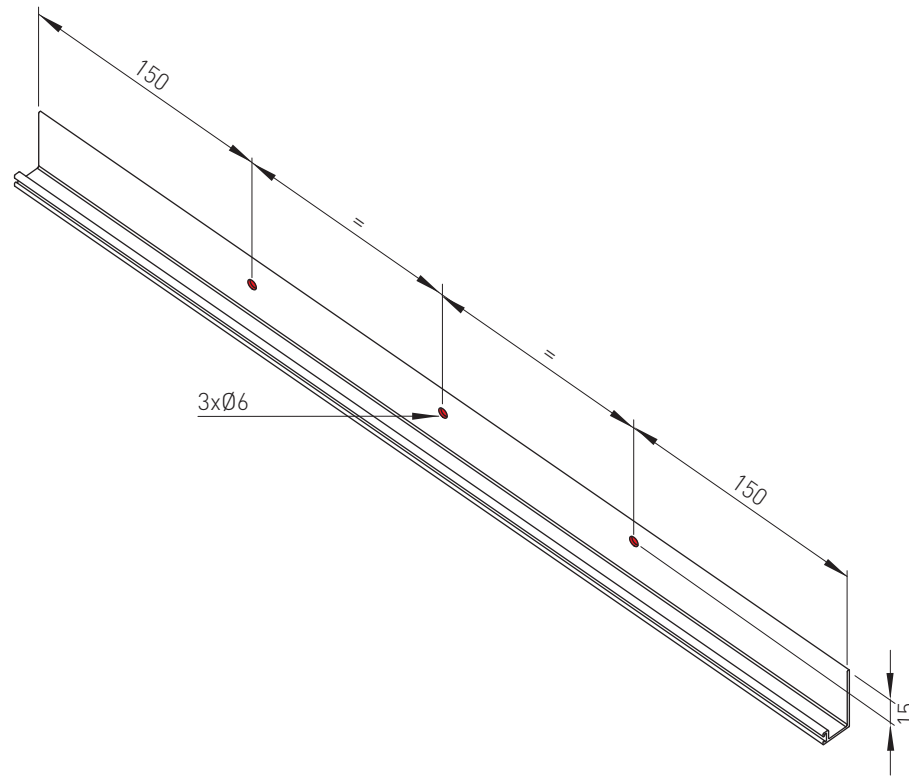
9821  
[see TOOL 1 page 97]



L12



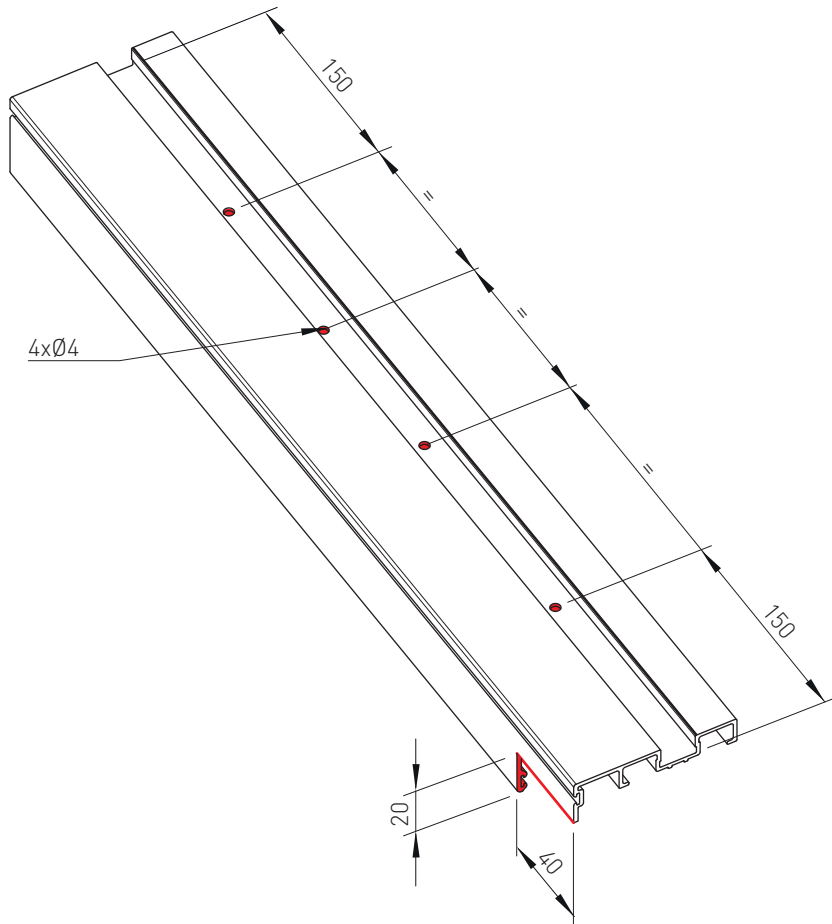
9814



L13



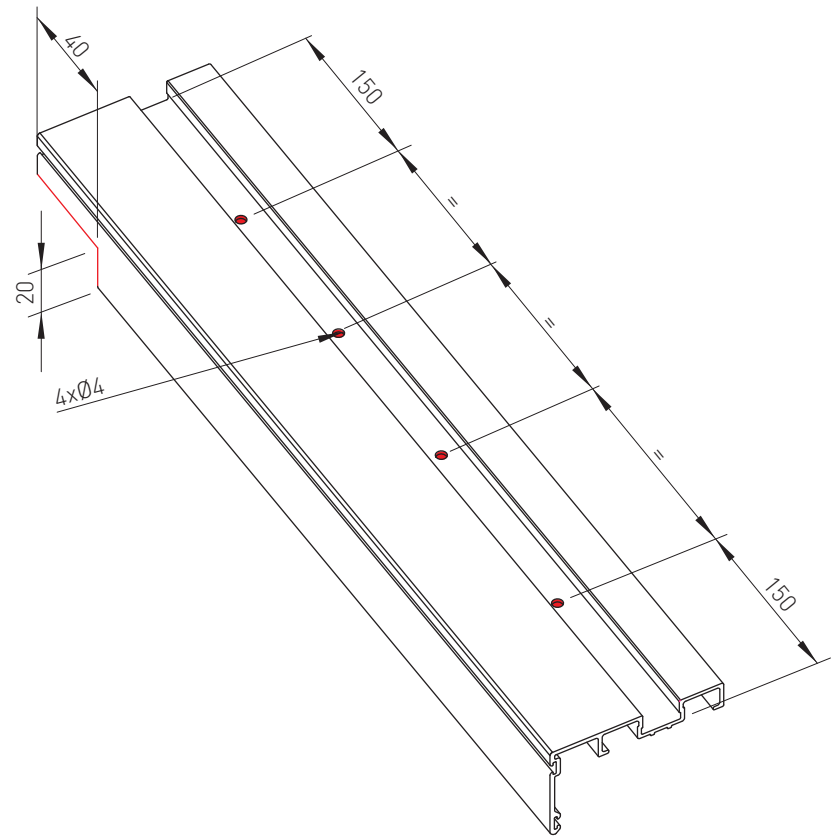
9805  
(NOTE 2 see page 10)



L14



9805  
(NOTE 2 see page 10)



L15

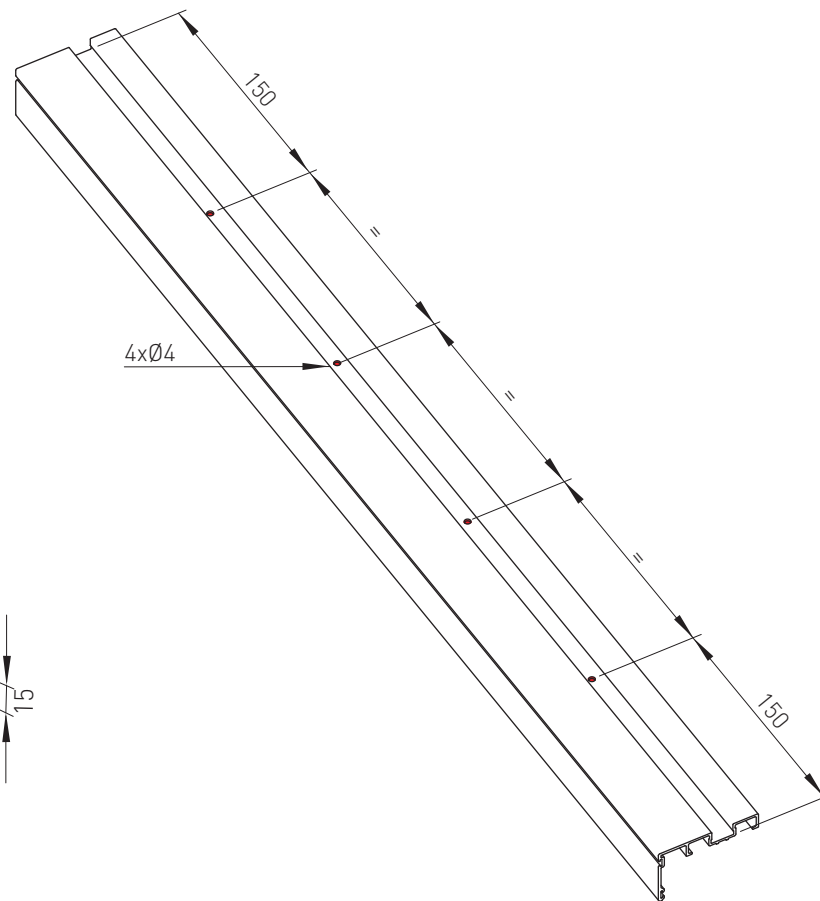
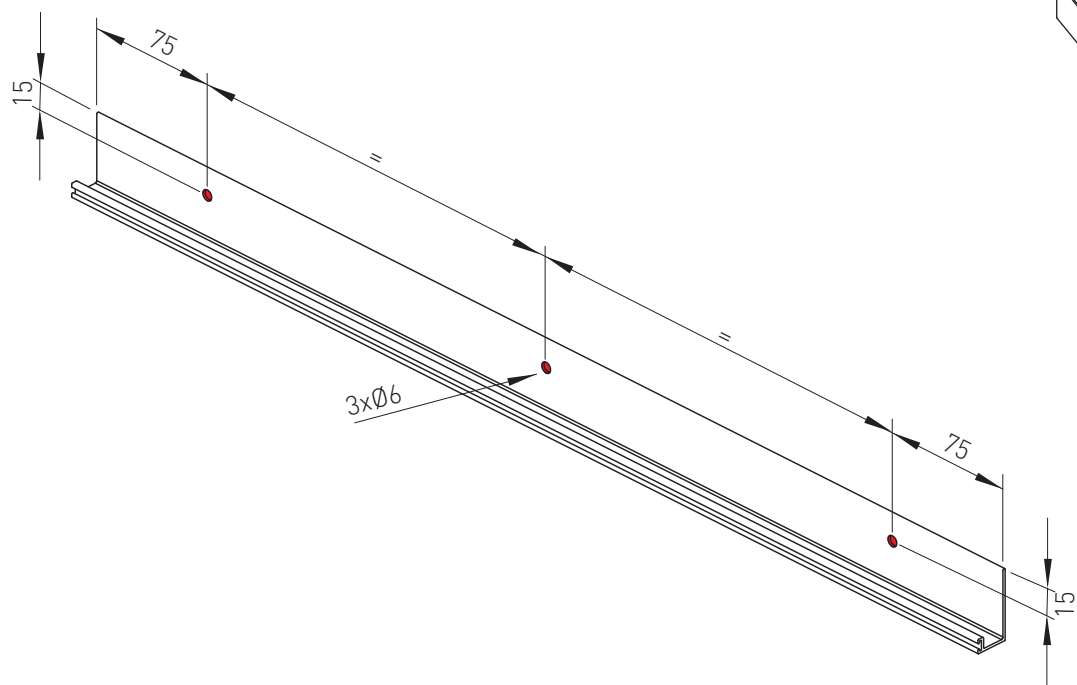


9814

L16



9805



L17

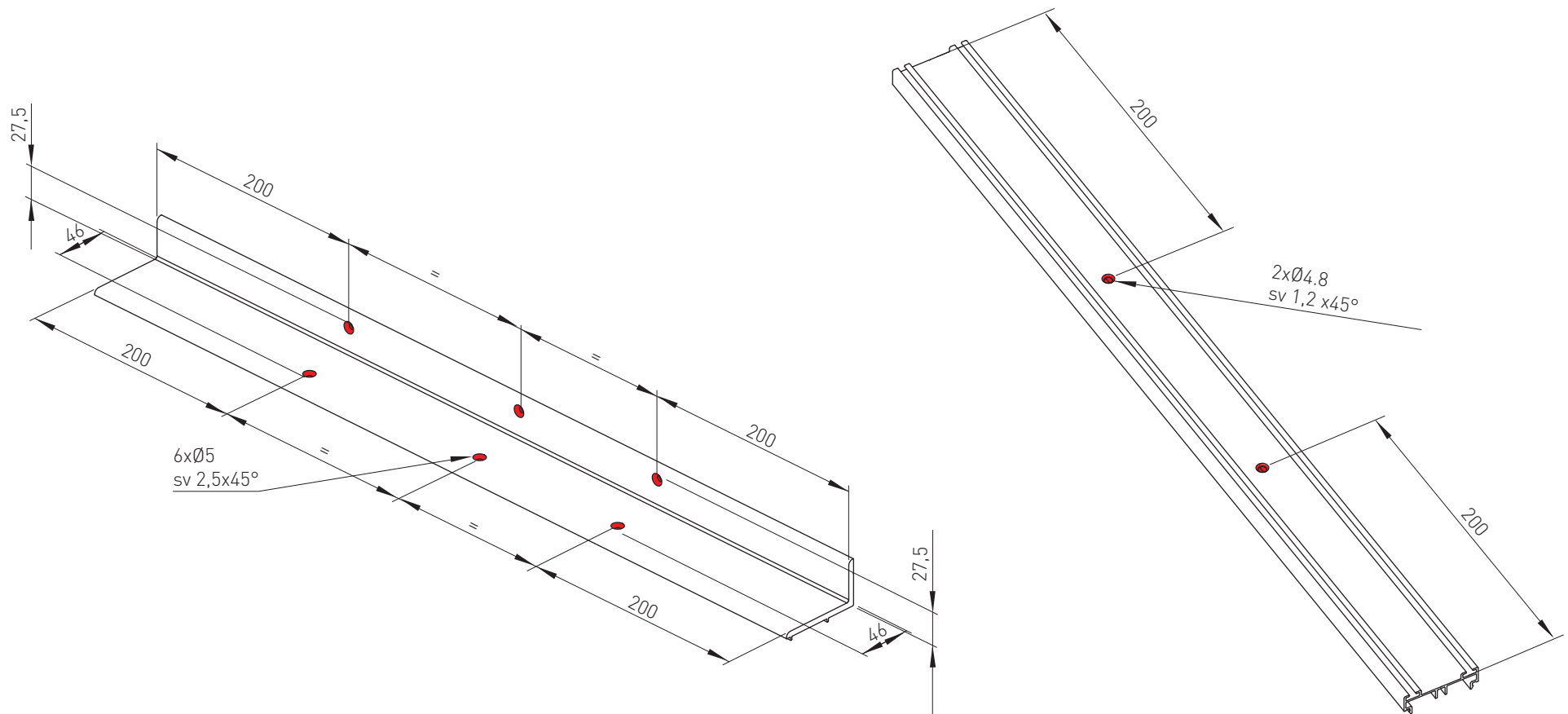


9817

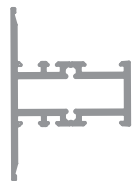
L18



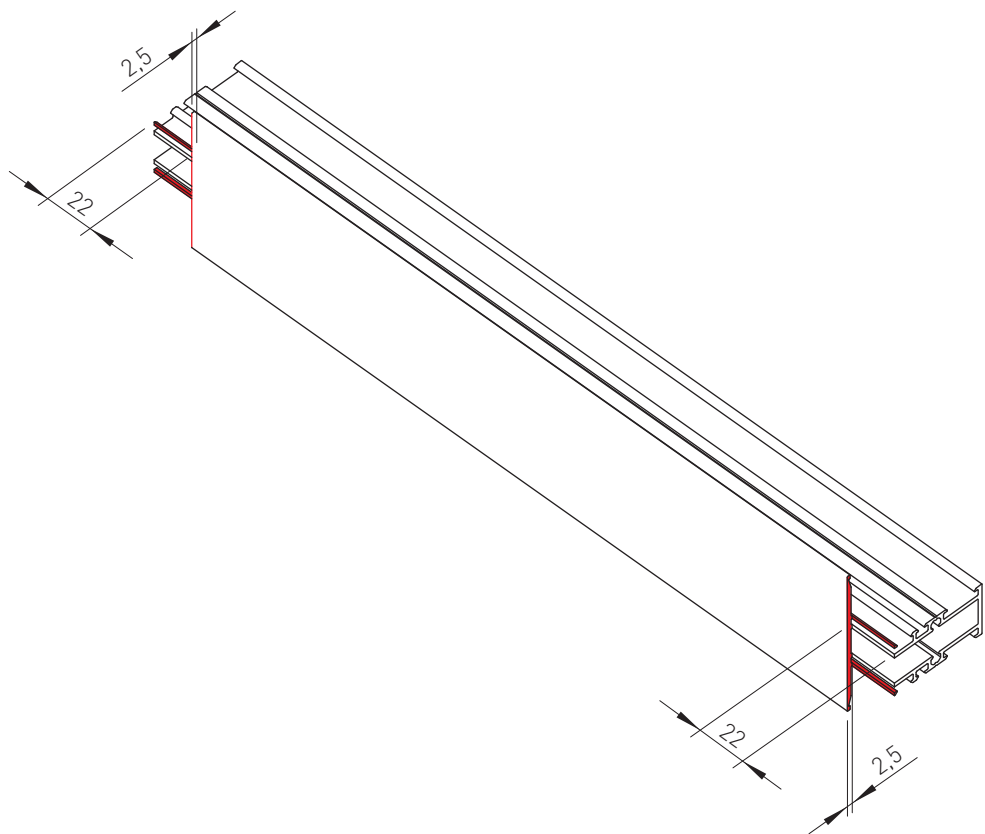
9806



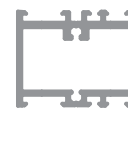
L19



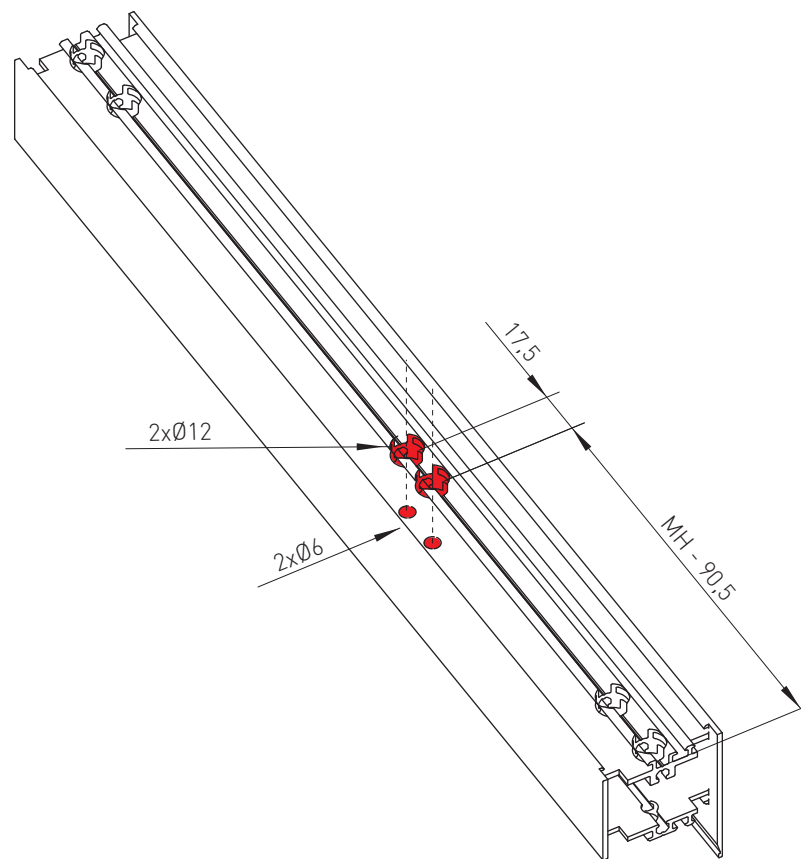
9809  
(see TOOL 2 page 97)



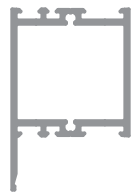
L20



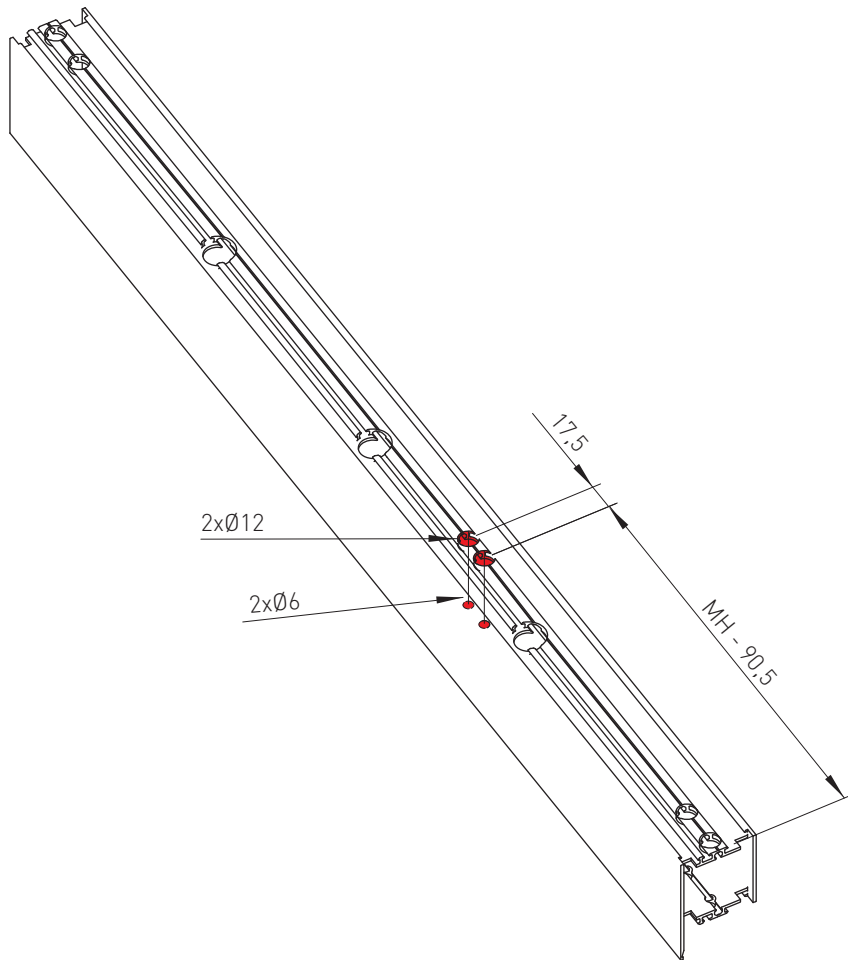
9822  
(NOTE 2 see page 10)



L21



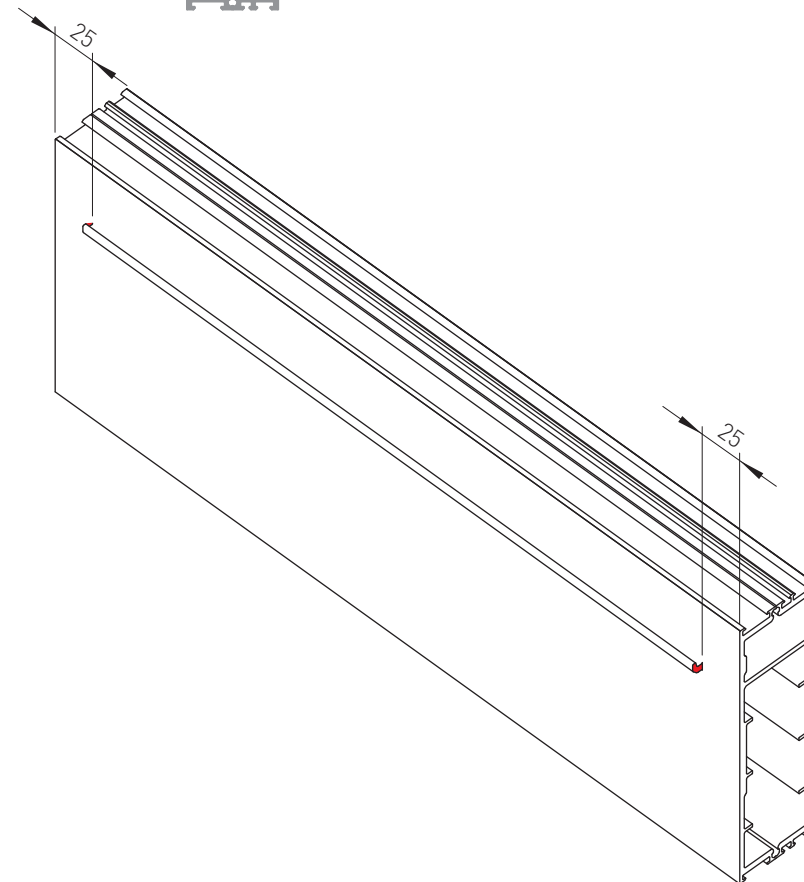
9821  
(NOTE 2 see page 10)



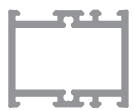
L22



9800



L23

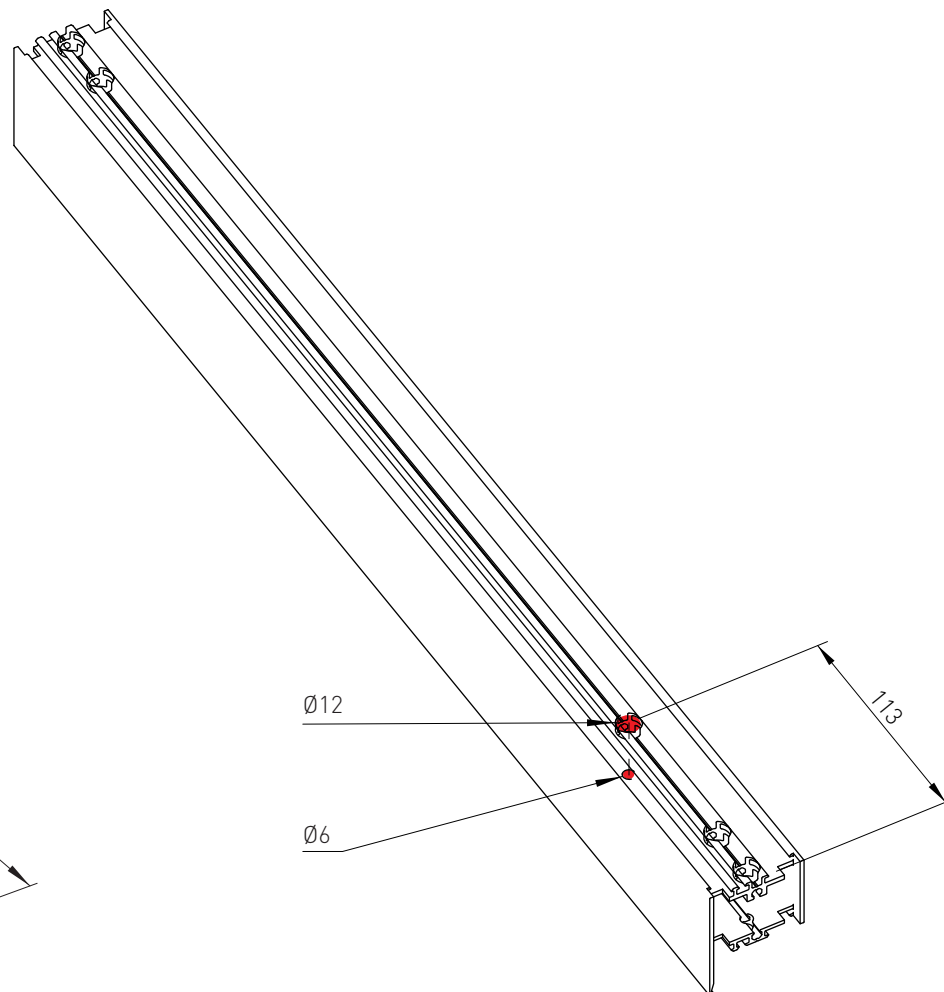
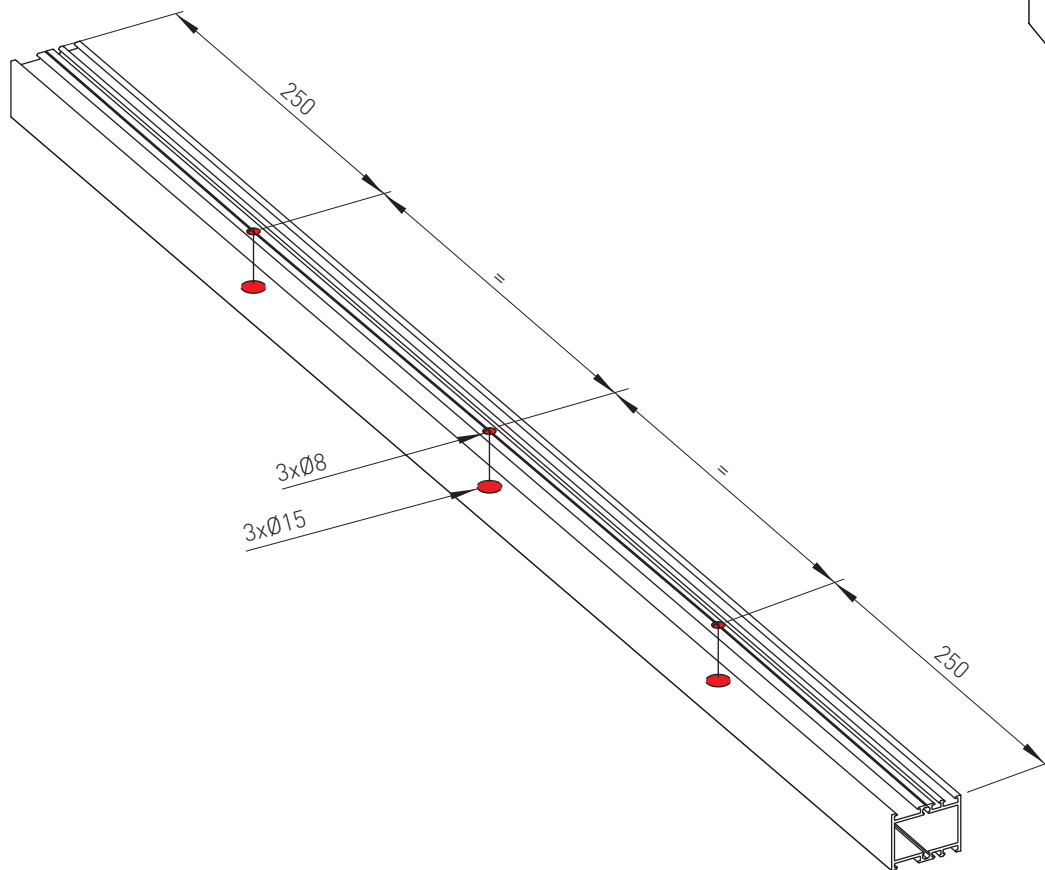


9811

L24

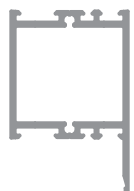


9822  
[NOTE 2 see page 10]





L25

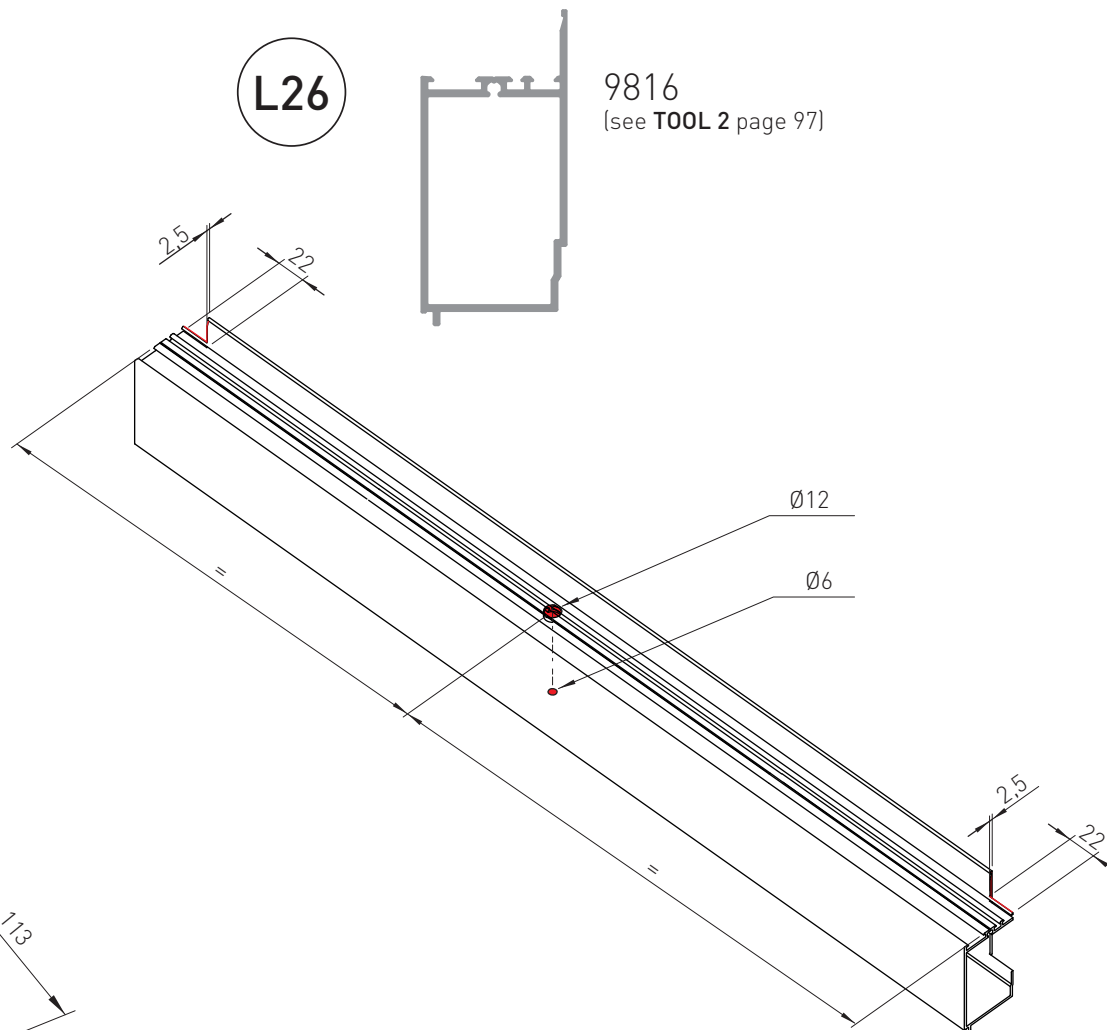
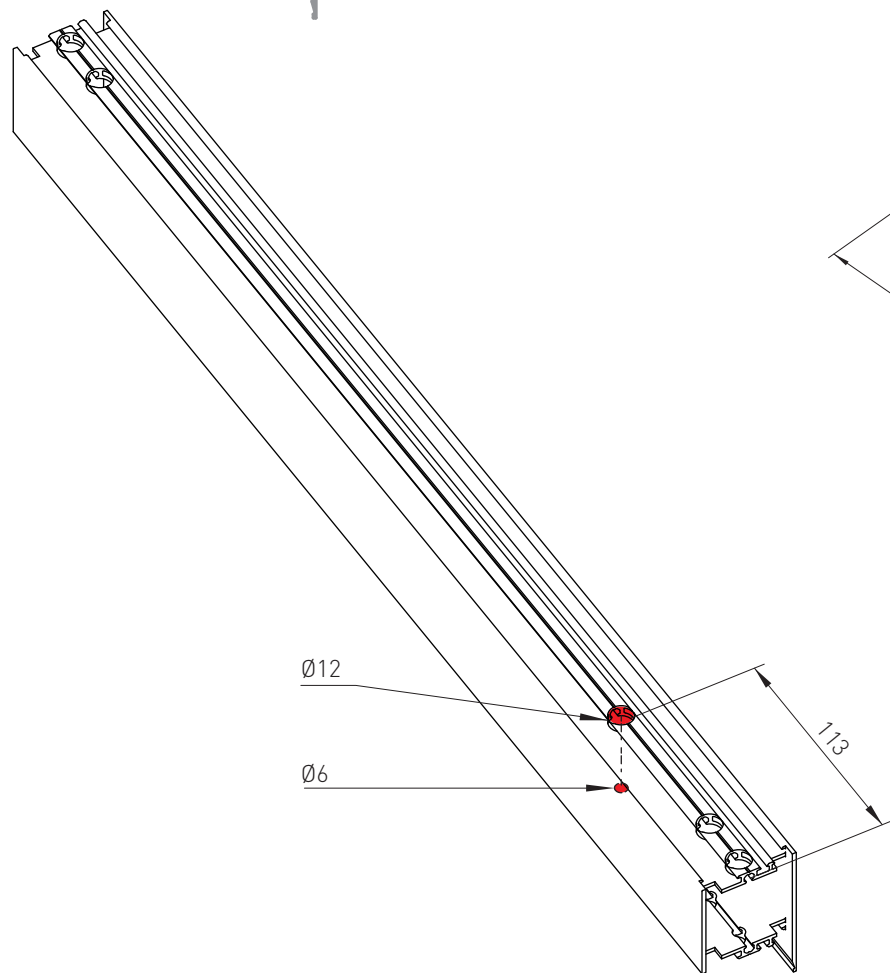


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(NOTE 2 see page 10)

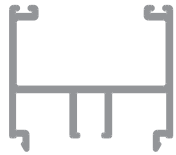
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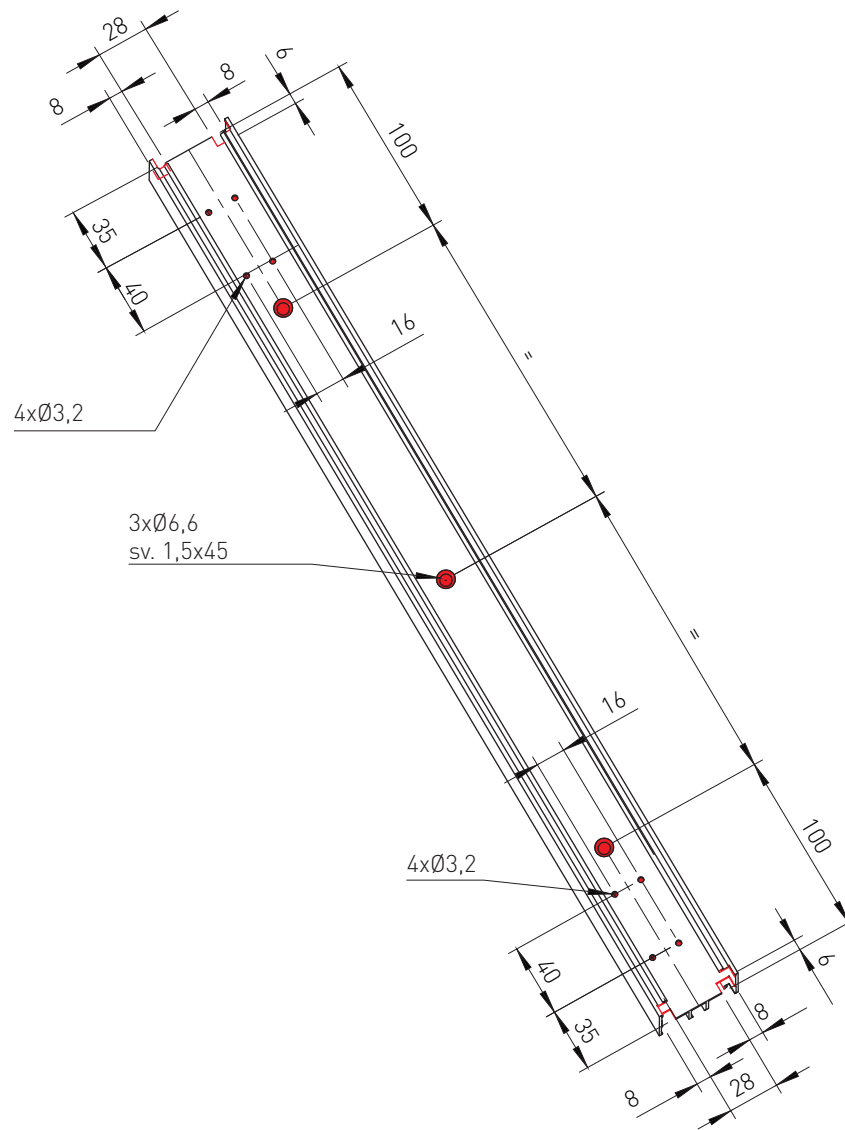
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(see TOOL 2 page 97)



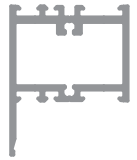
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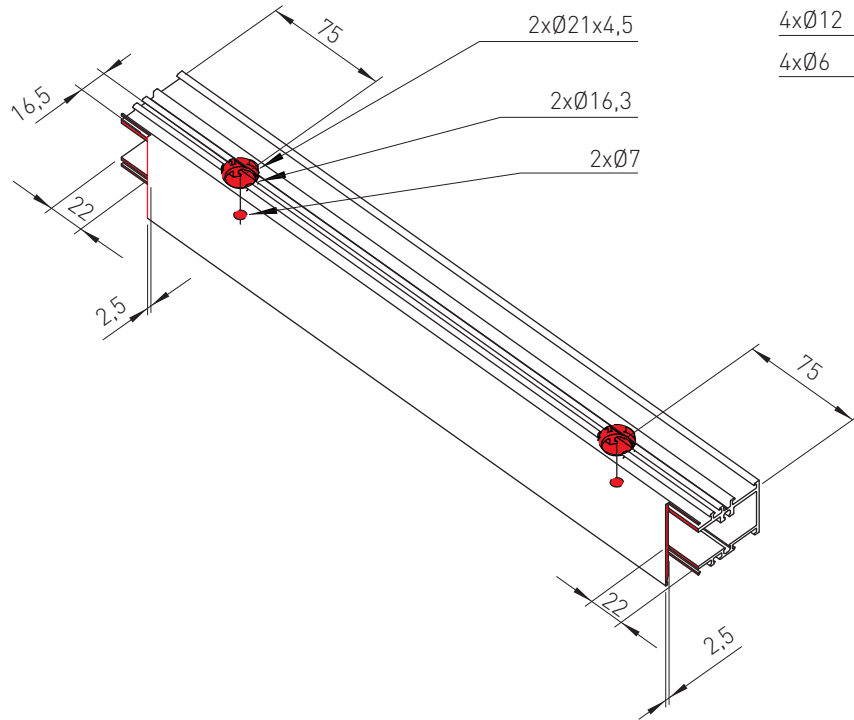
9818  
[see TOOL 1 page 97]



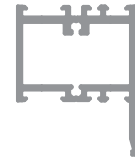
**L29**



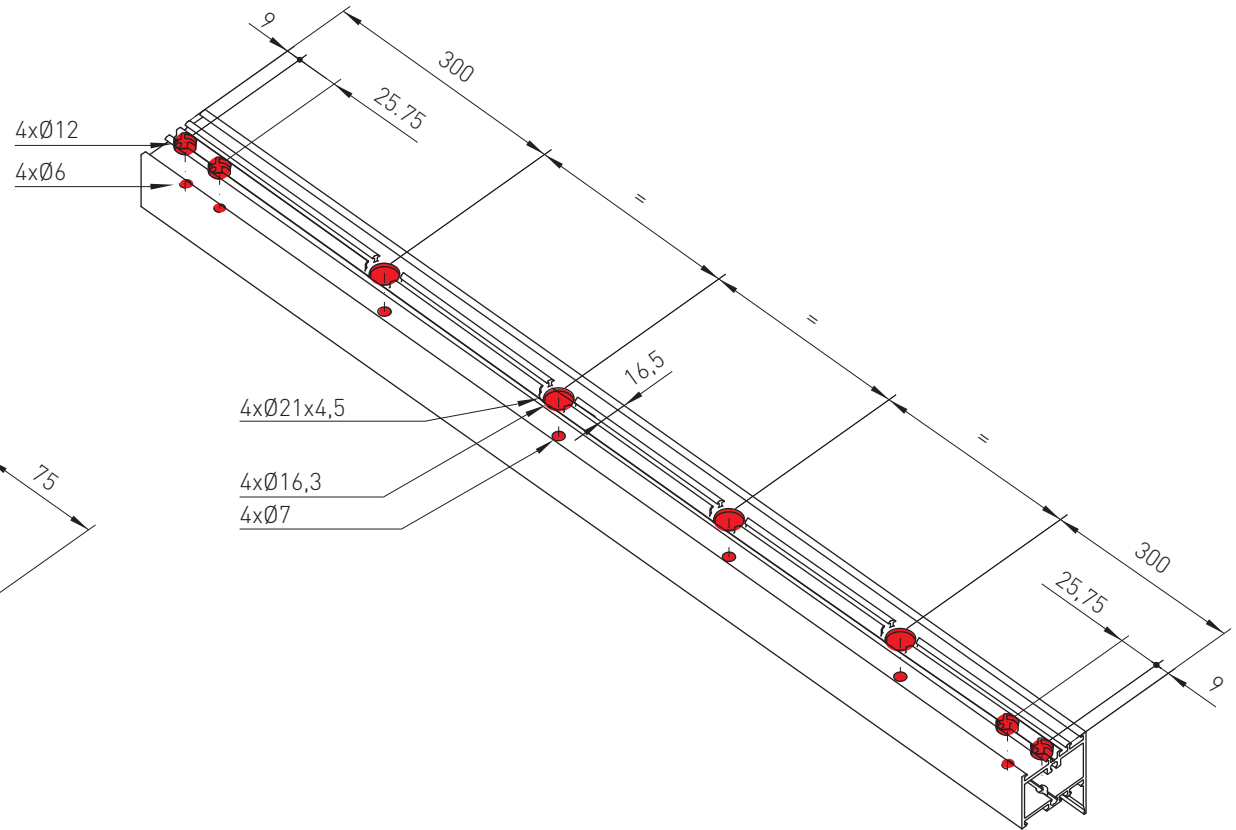
9822  
[see TOOL 2 page 97]



**L30**



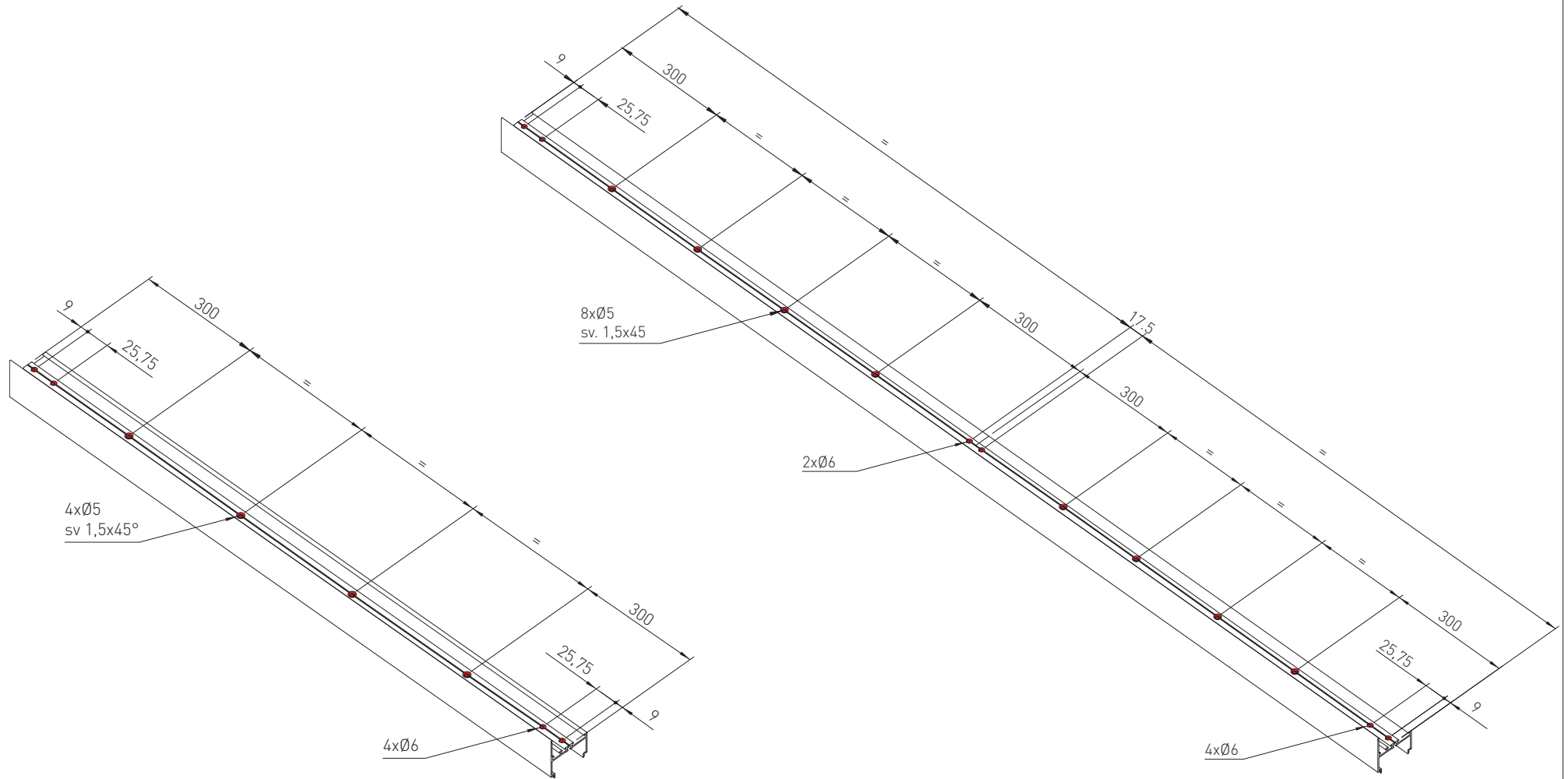
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L31

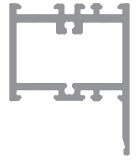


L32



# 25. Working operations

L33



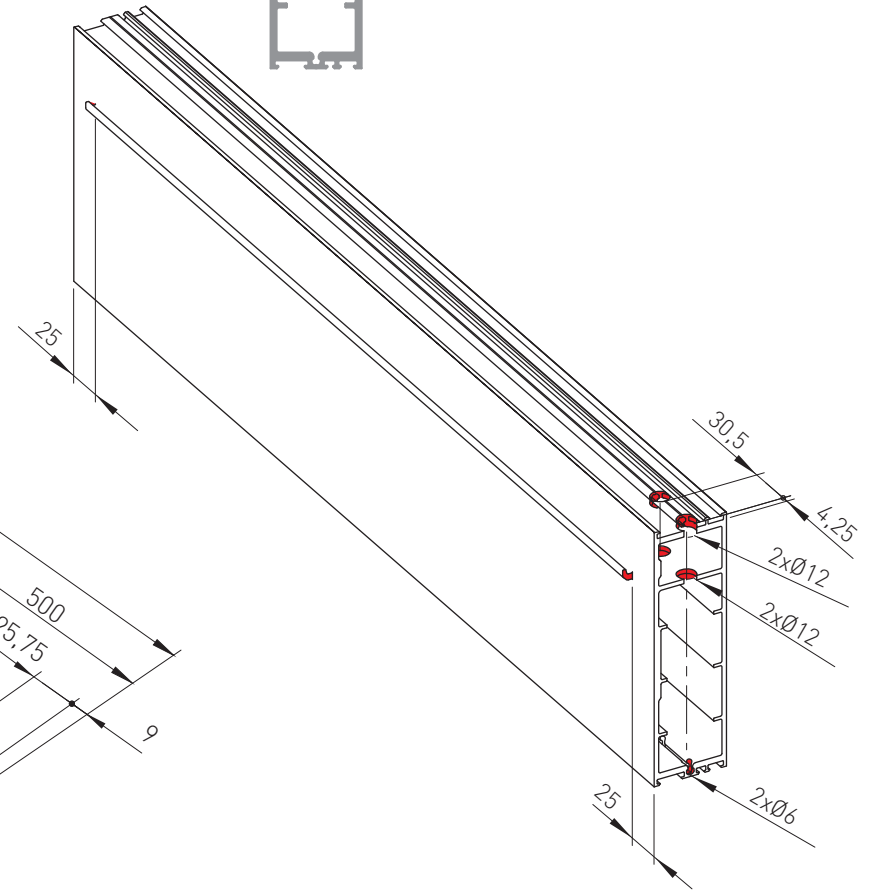
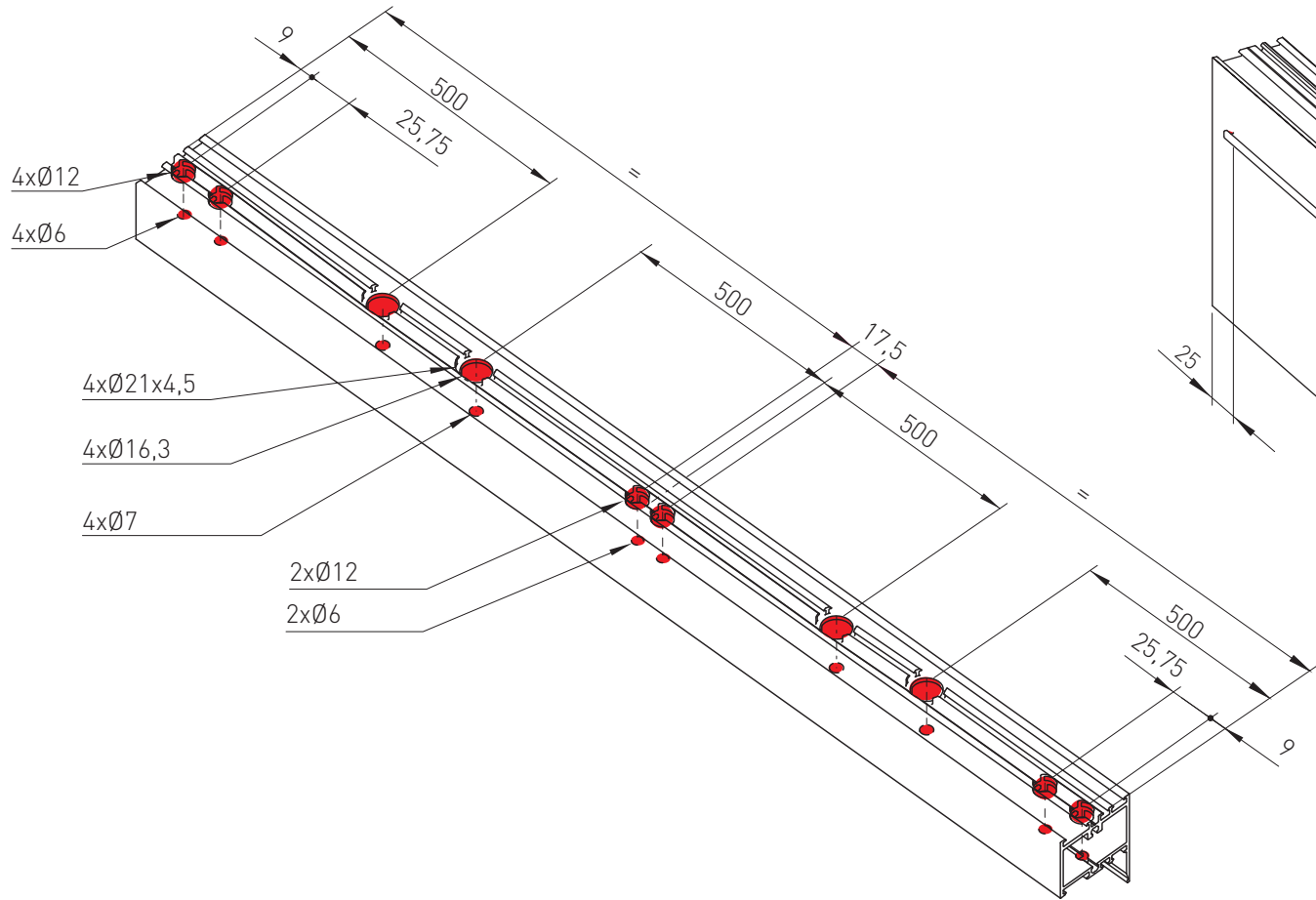
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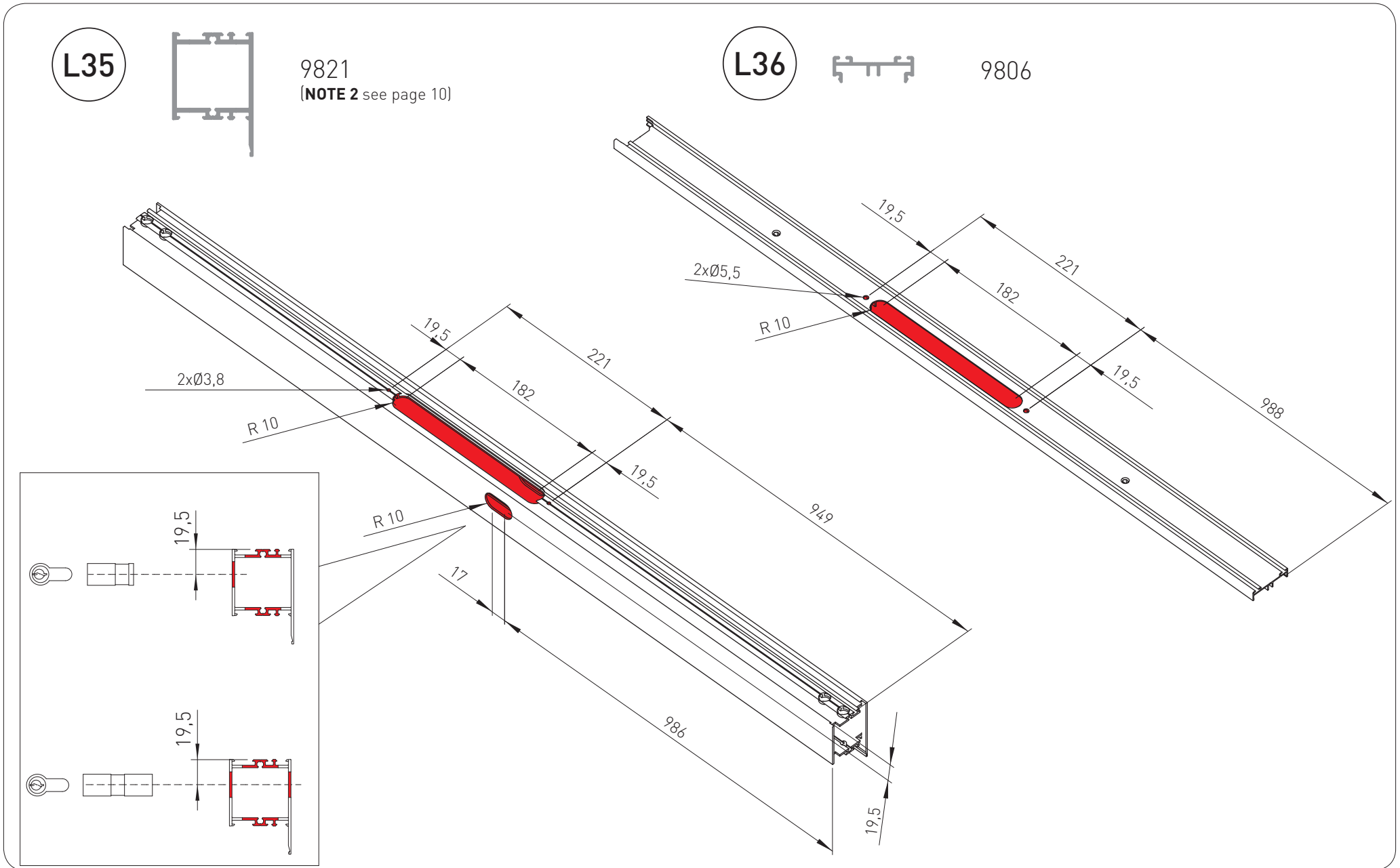
L34



9800

[NOTE 2 see page 10]



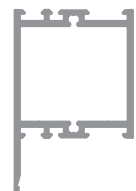


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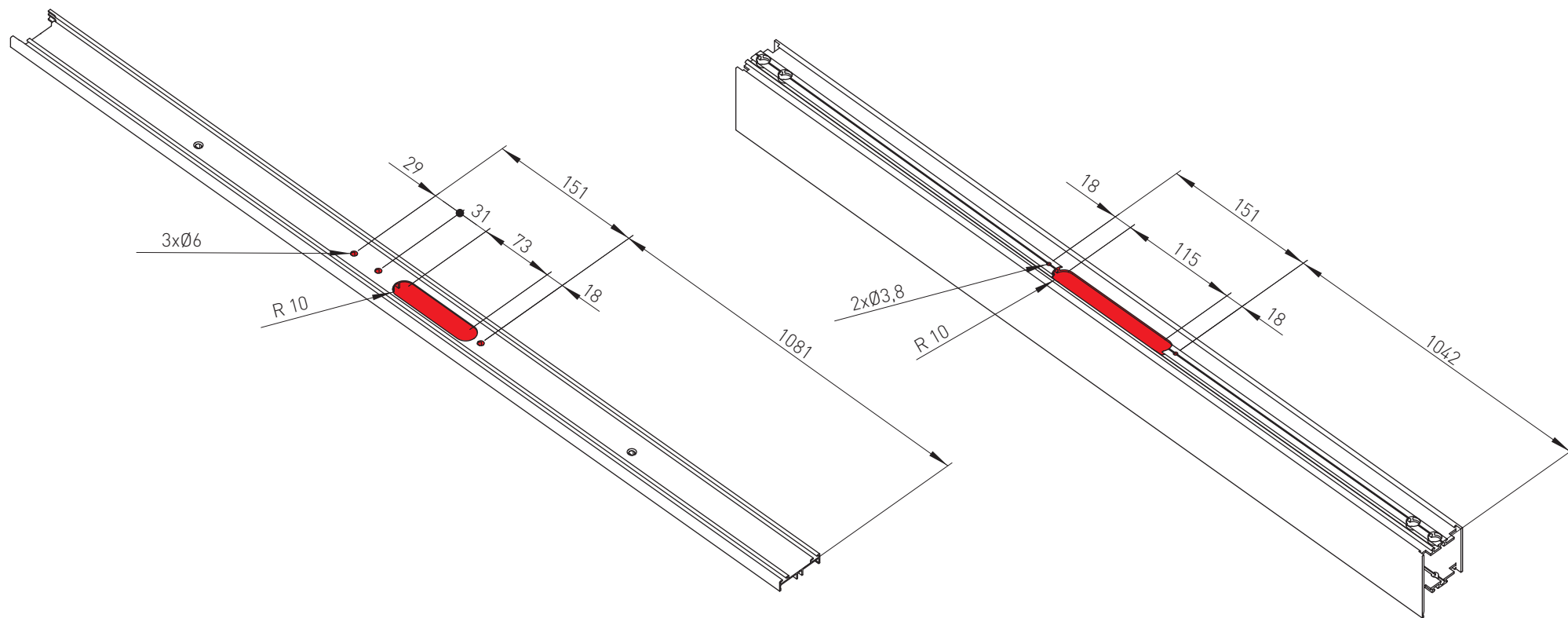


9806

L38



9821  
(NOTE 2 see page 10)

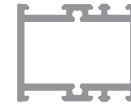


L39

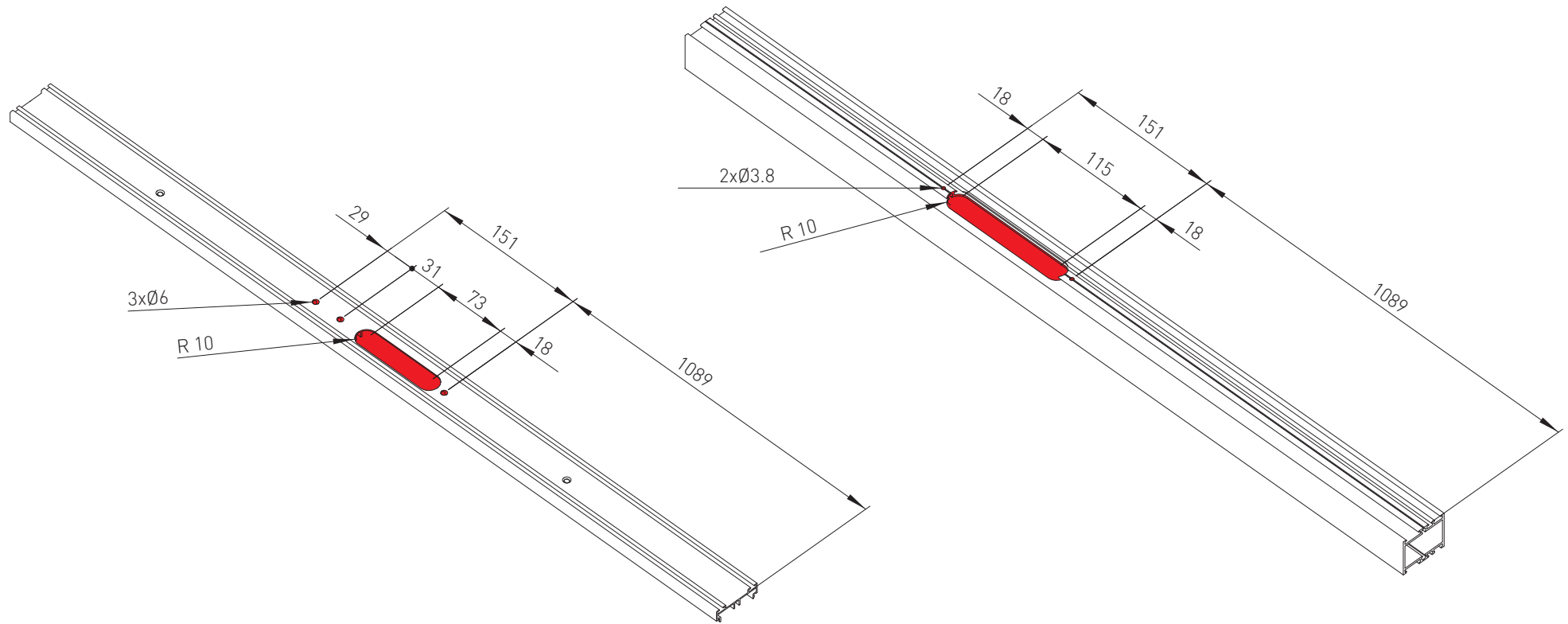


9806

L40



9811  
(NOTE 2 see page 10)



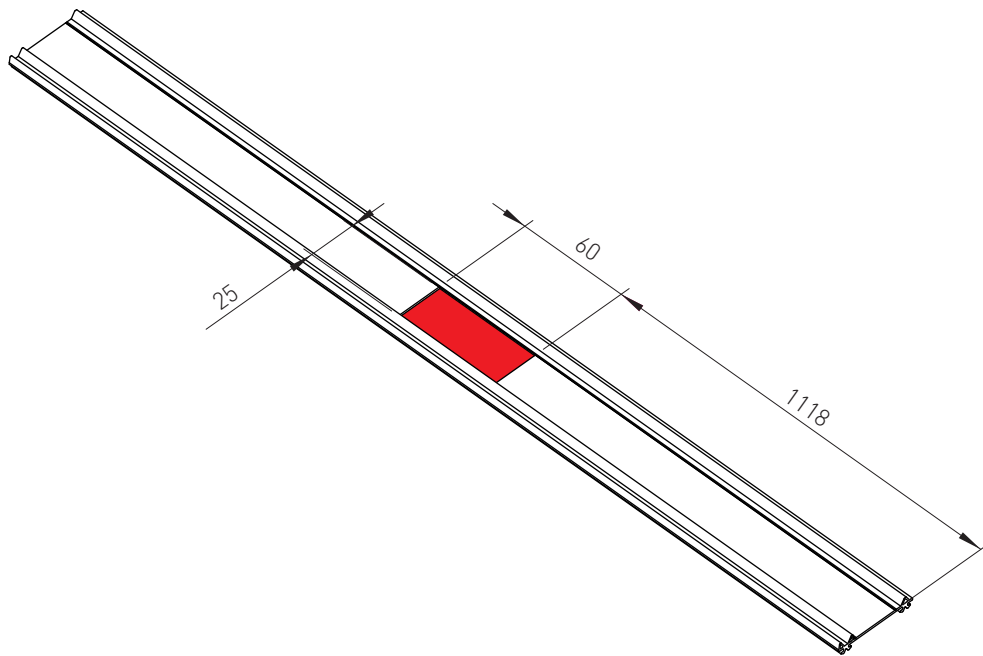




G01



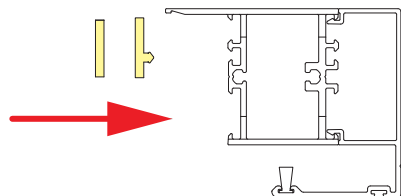
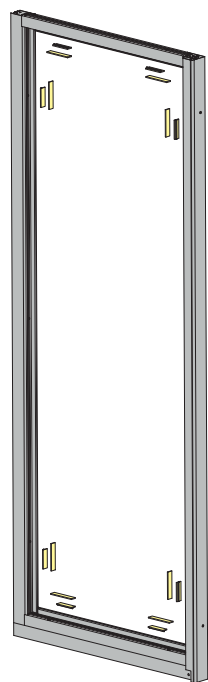
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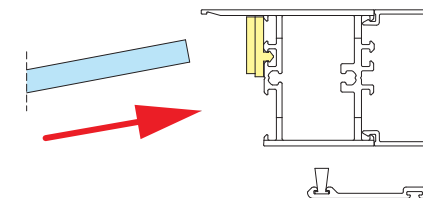
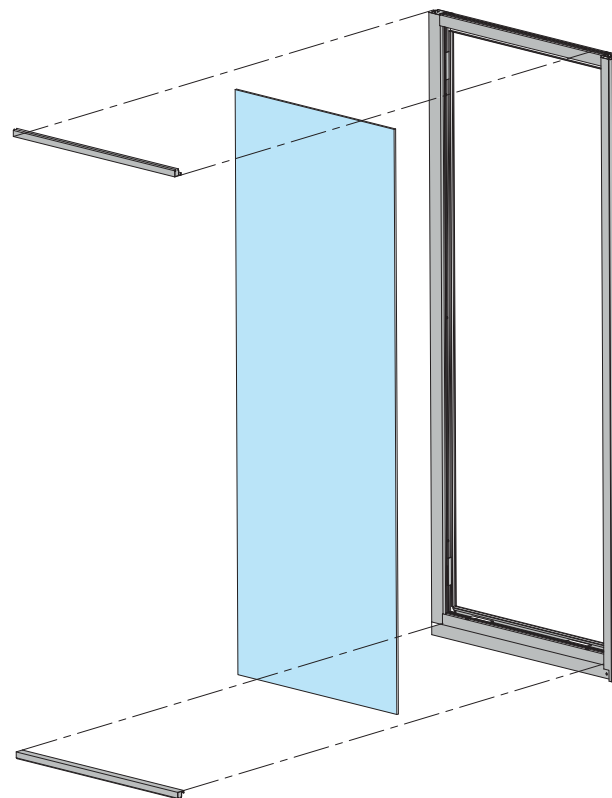
## 26. Instructions for placing panes on door wing

T109

1



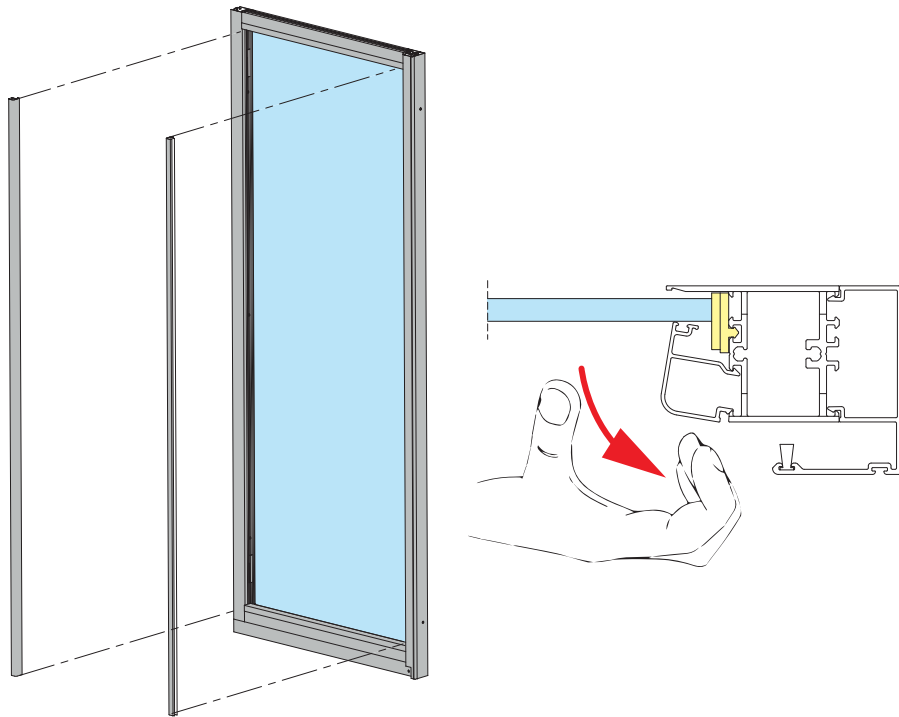
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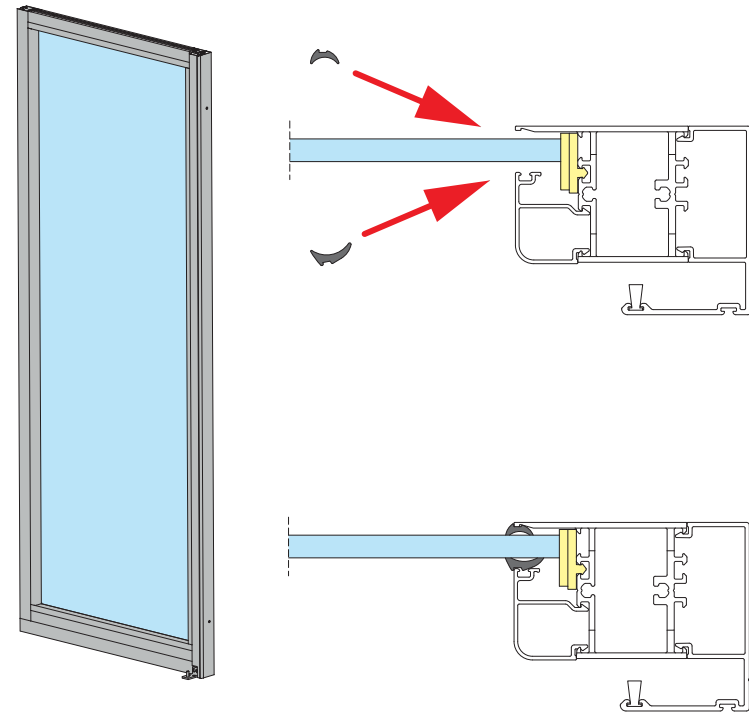
## 26. Instructions for placing panes on door wing

T110

3



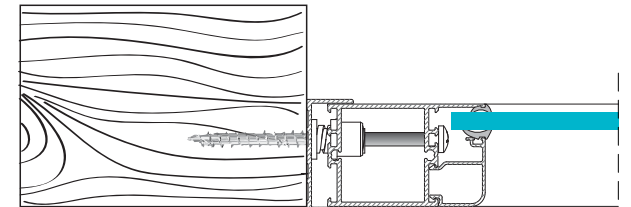
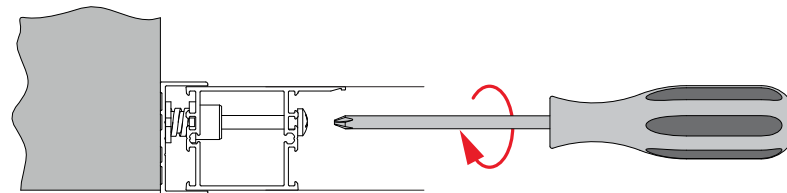
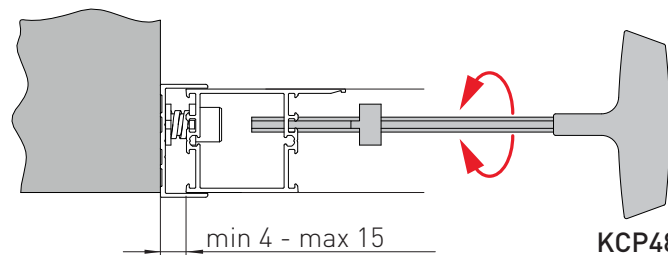
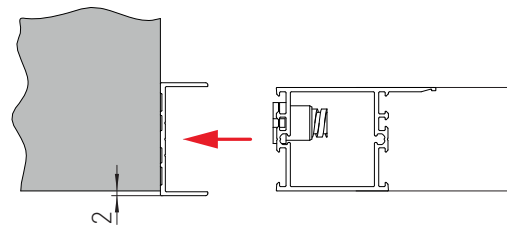
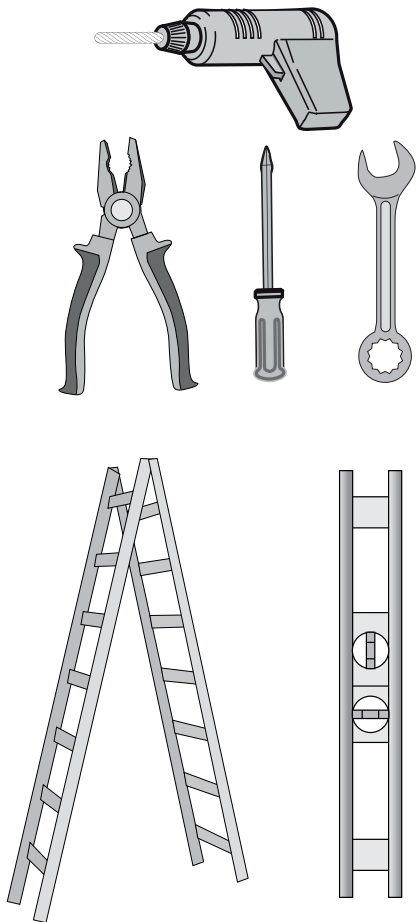
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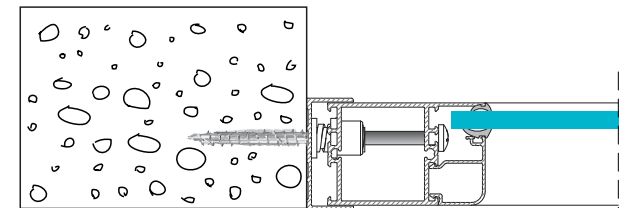
List of equipment  
 Elenco dotazioni  
 Ausstattungsverzeichnis  
 Liste des accessoires fournis  
 Lista de suministro  
 Lista de equipamentos

Regulation instructions  
 Indicazioni di regolazione  
 Angaben zur Einstellung  
 Indications de réglage  
 Indicaciones de regulaci3n  
 Indica33es de regula33o

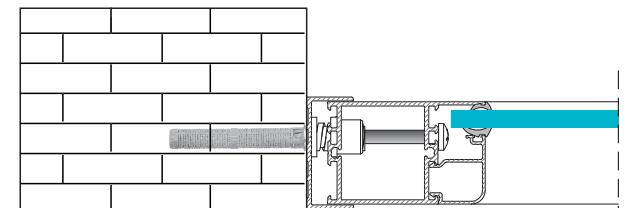
Fastening instructions  
 Indicazioni di fissaggio  
 Angaben zur Befestigung  
 Indications de fixation  
 Indicaciones de fijaci3n  
 Indica33es de fixa33o



Wood - Legno - Holz  
 Bois - Madera - Madeira



Concrete - Cemento - Zement  
 Ciment - Cemento - Concreto



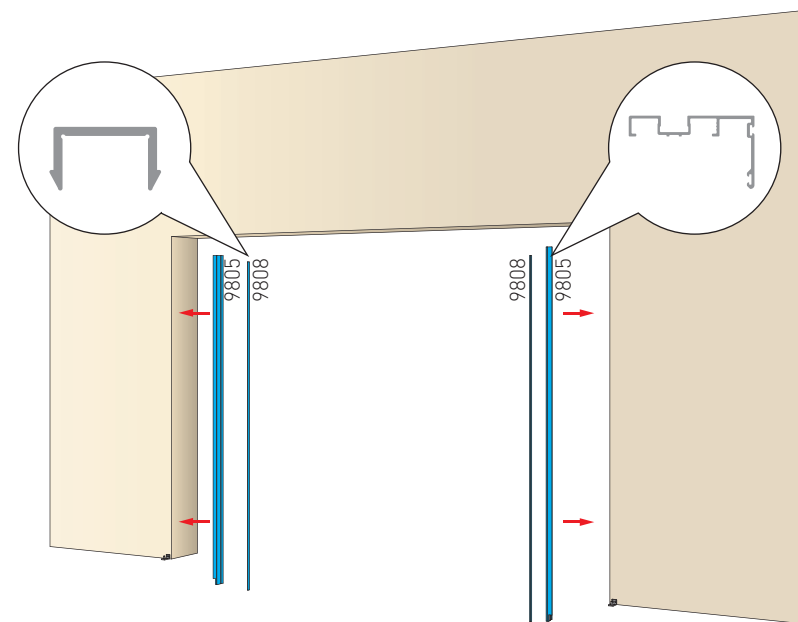
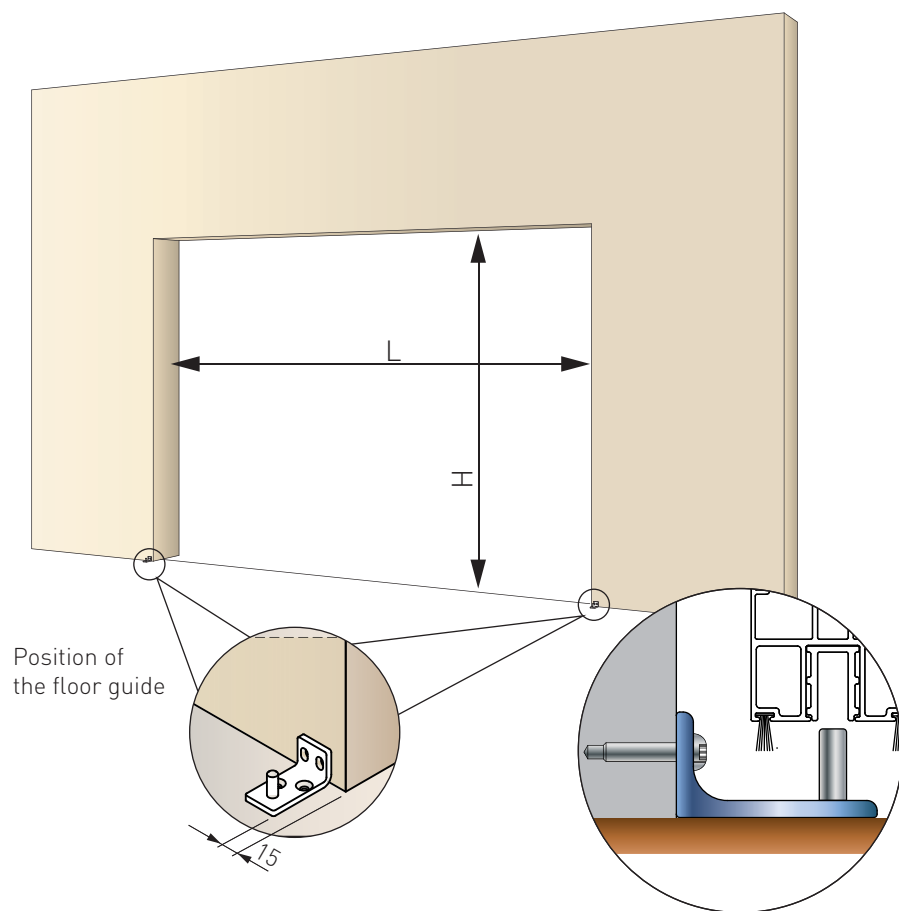
Brick - Mattone - Ziegel  
 Brique - Ladrillo - Tijolo

## 28. Installation instructions for 2+2 moving door wings without beam

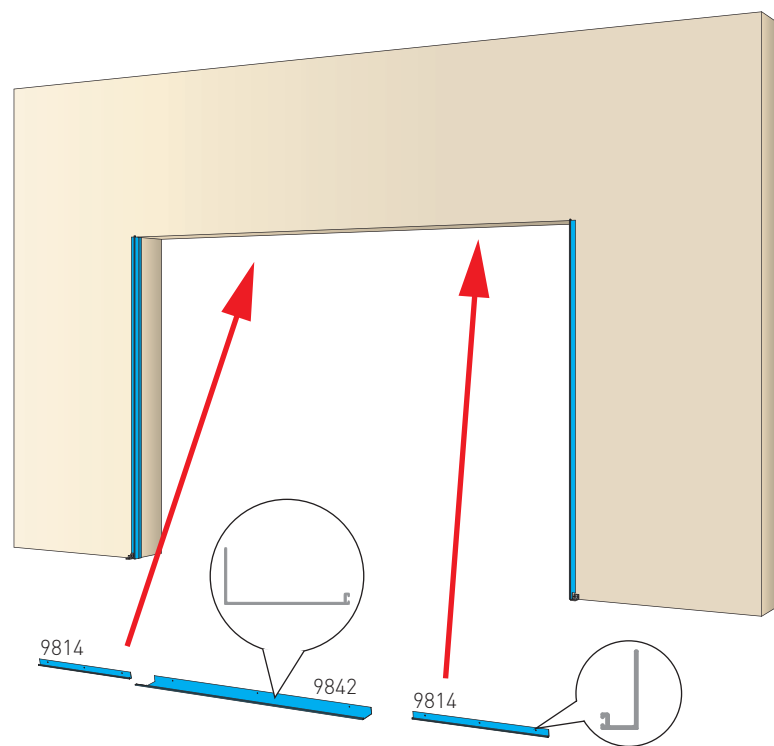
T112

- 1 Installation position  
NB: check LxH dimensions

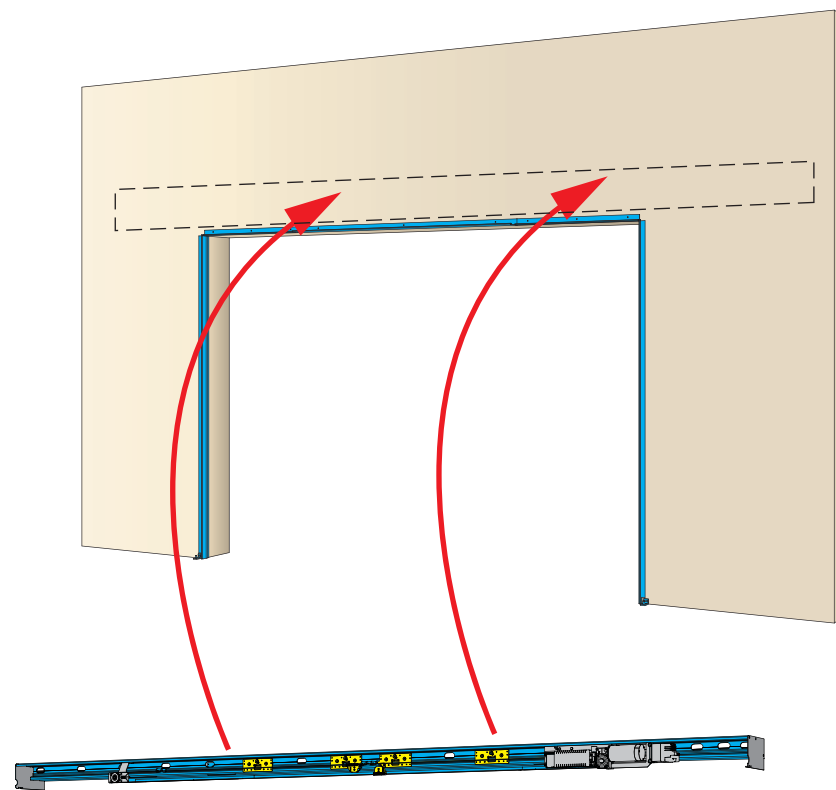
- 2 Installation of frame



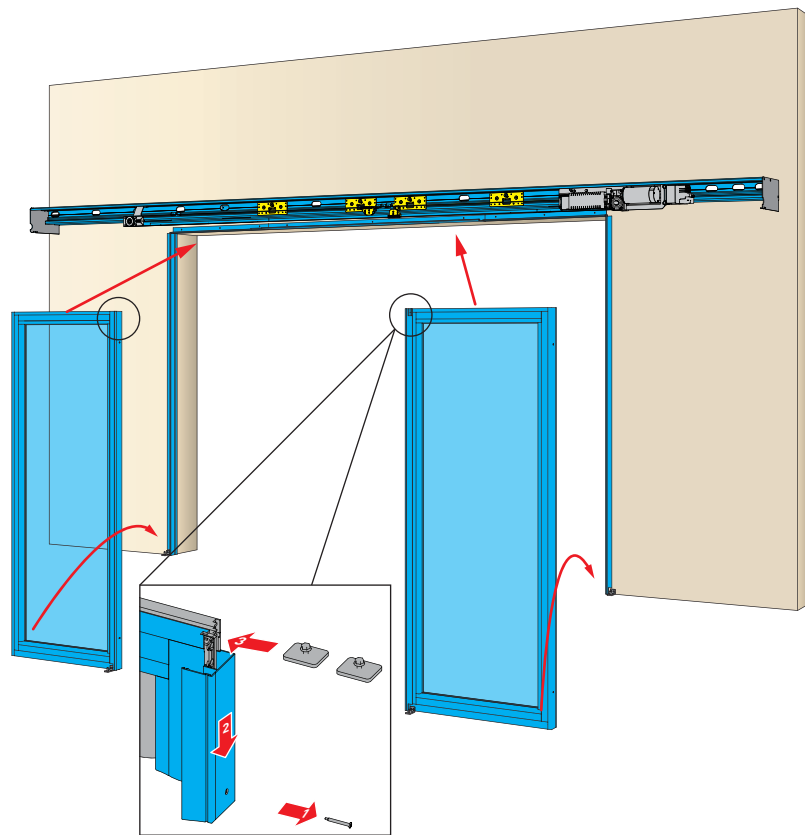
3 Installation of frame



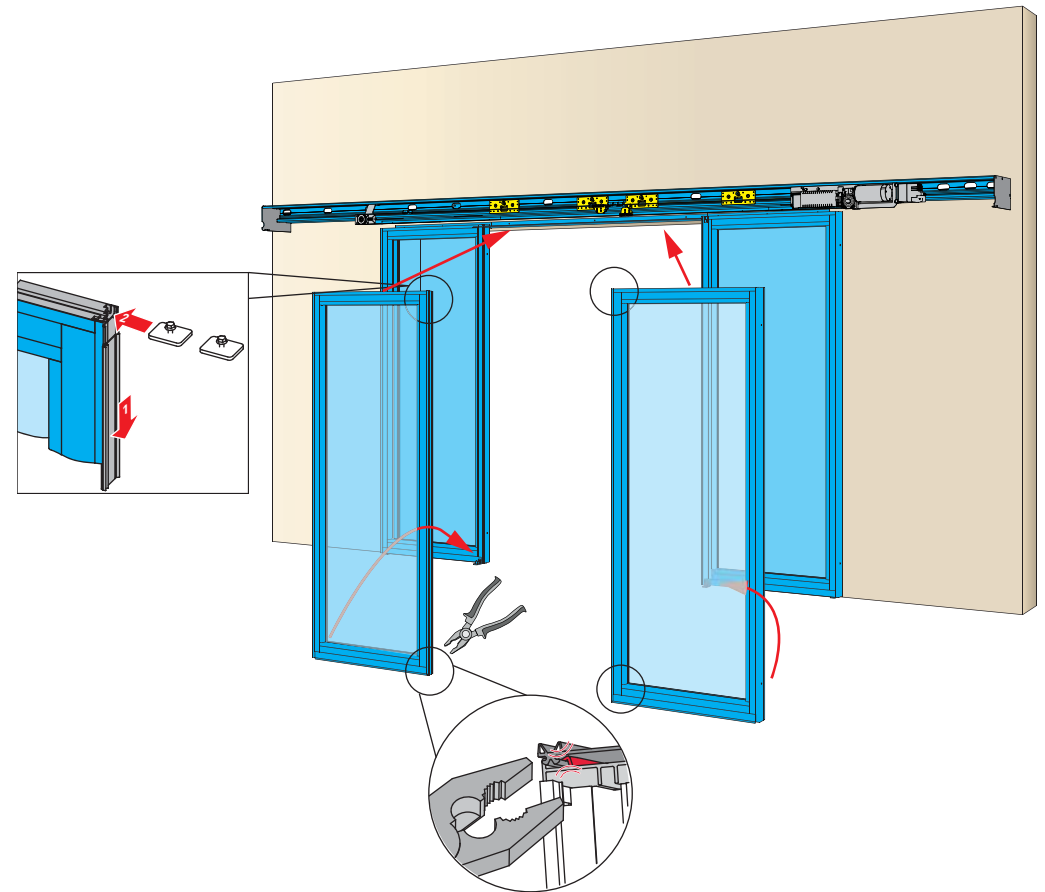
4 Installation of the automation



5 Door wings installation

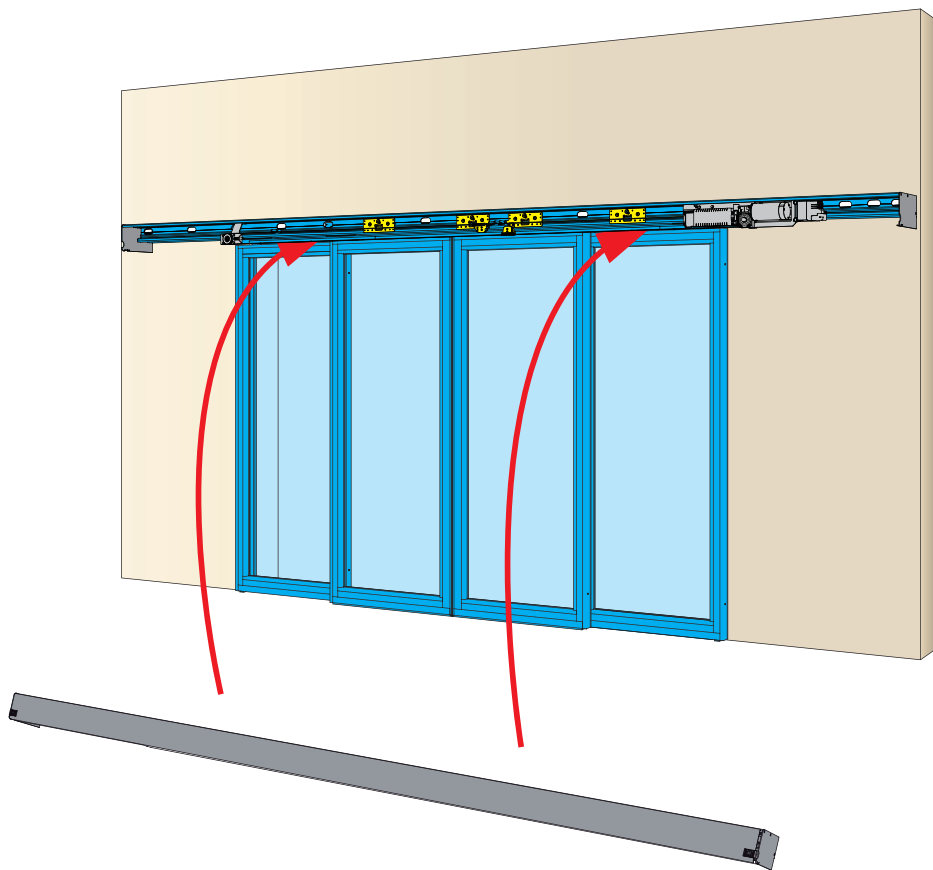


6 Door wing installation

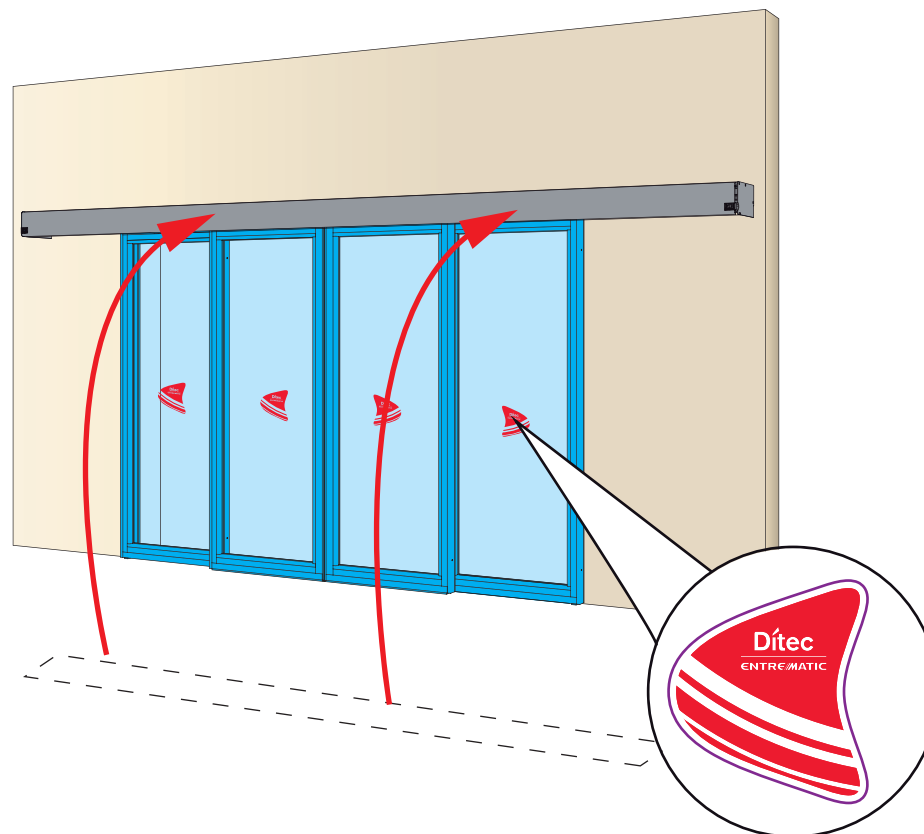




7 Door wings installation

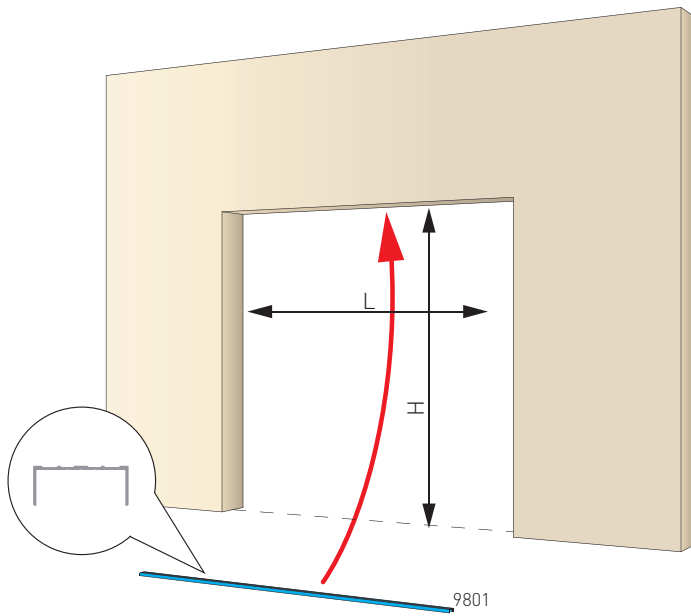


8 End of installation

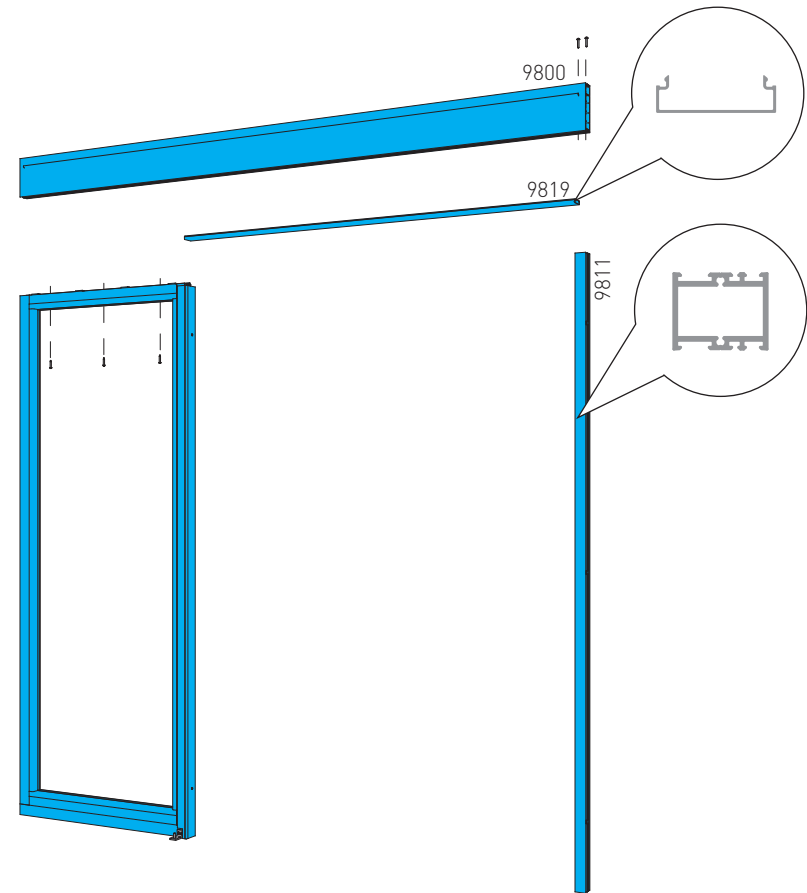


**NOTE 1**  
see page 10

- 1 Installation position  
NB: check LxH dimensions

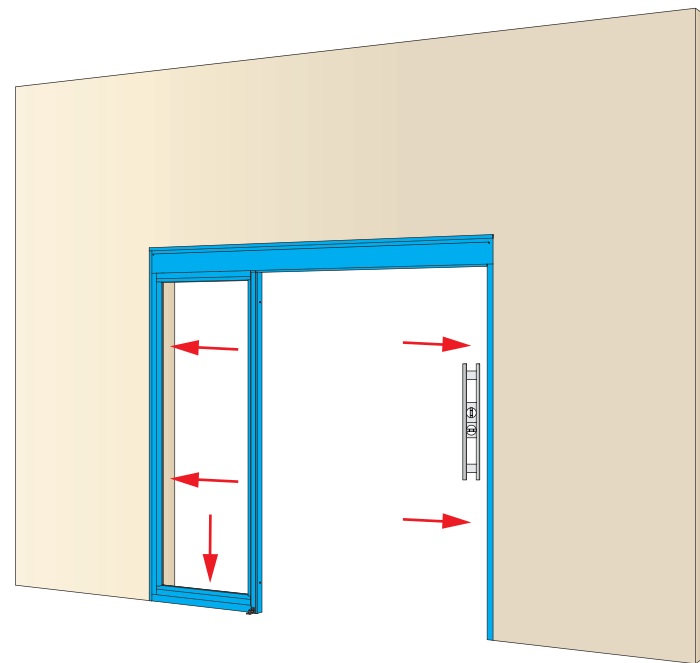
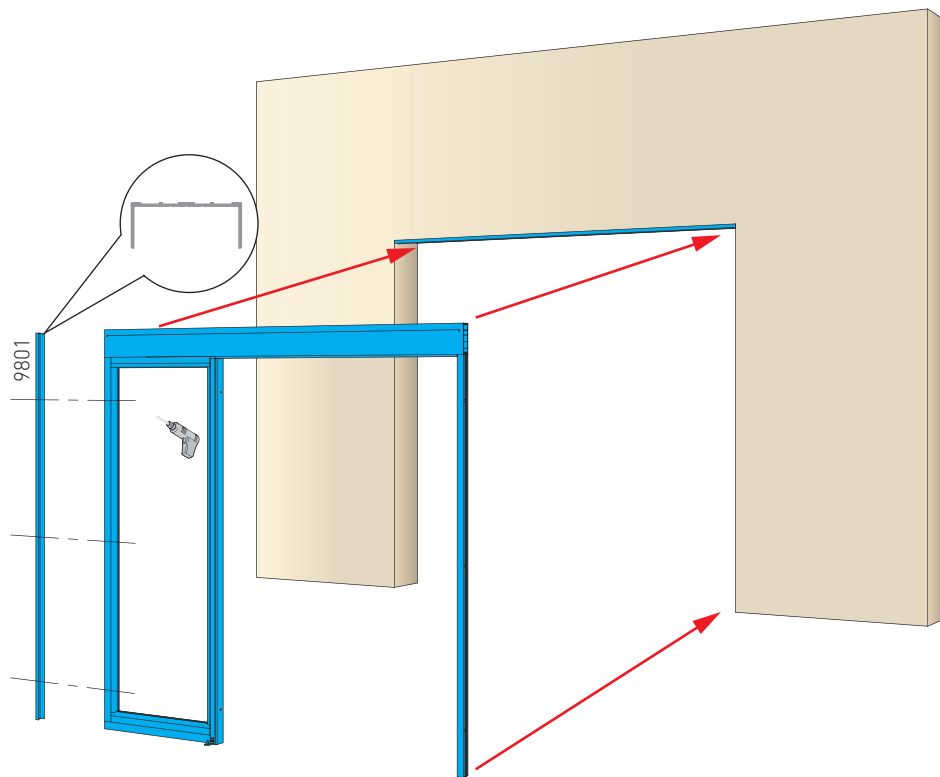


- 2 Frame, beam and fixed door wing assembling

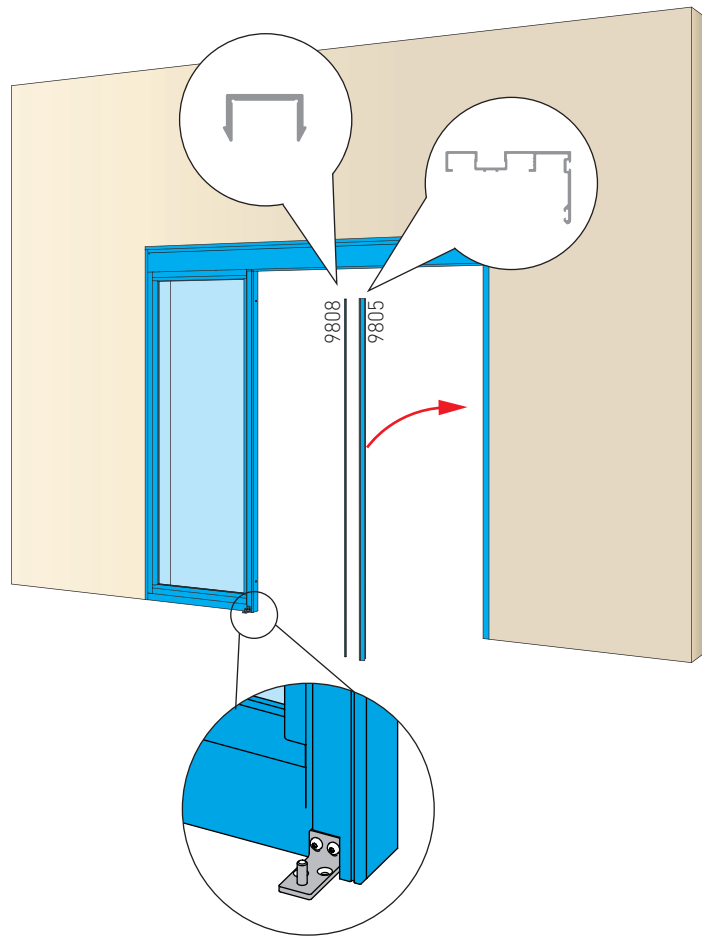


3 Frame, beam and fixed door wing installation

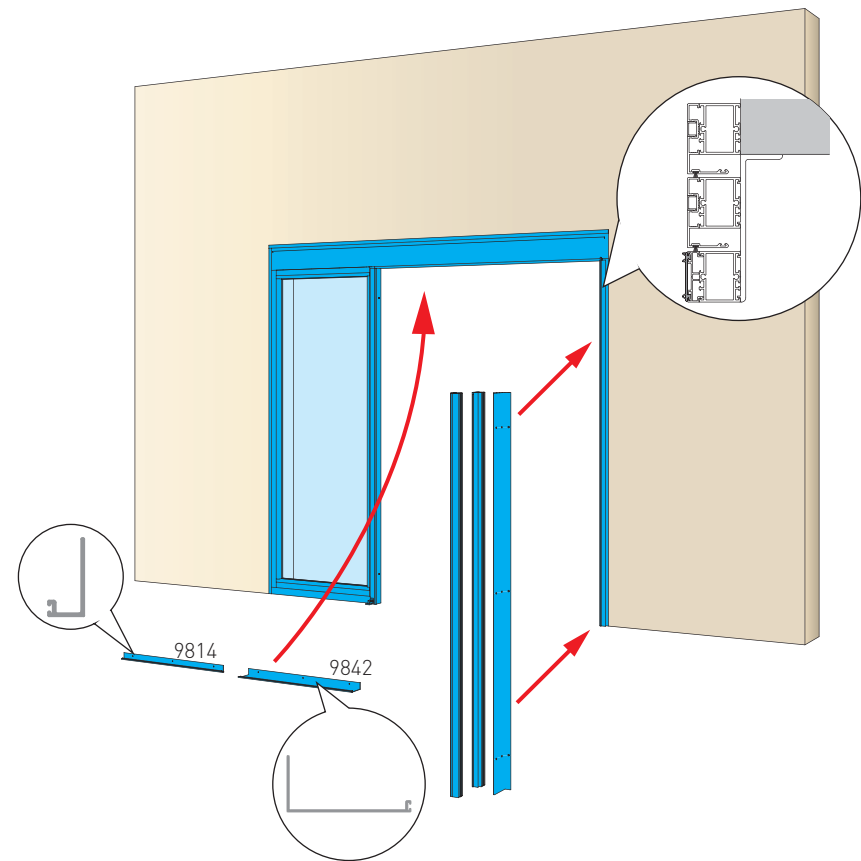
4 Fixed door wing installation



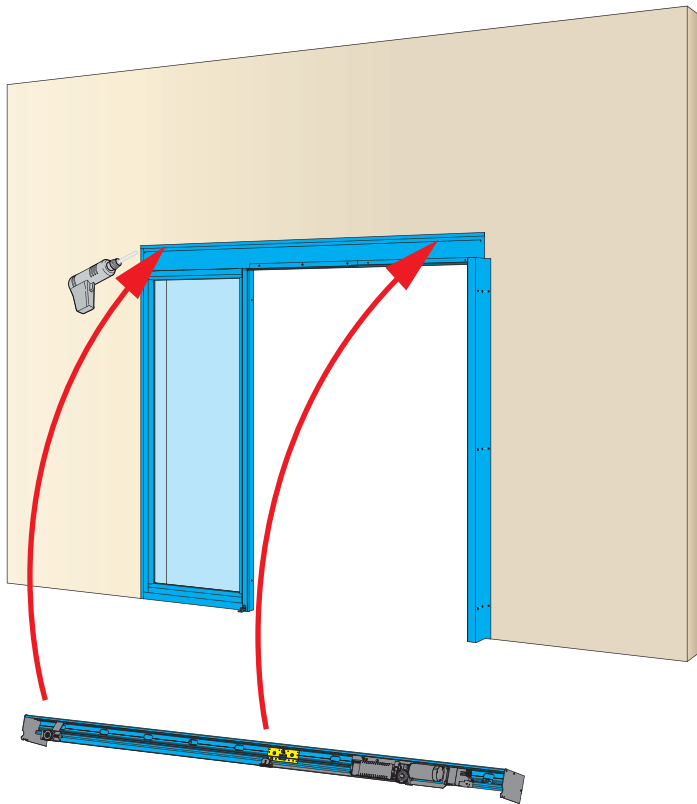
5 Glass and frame installation



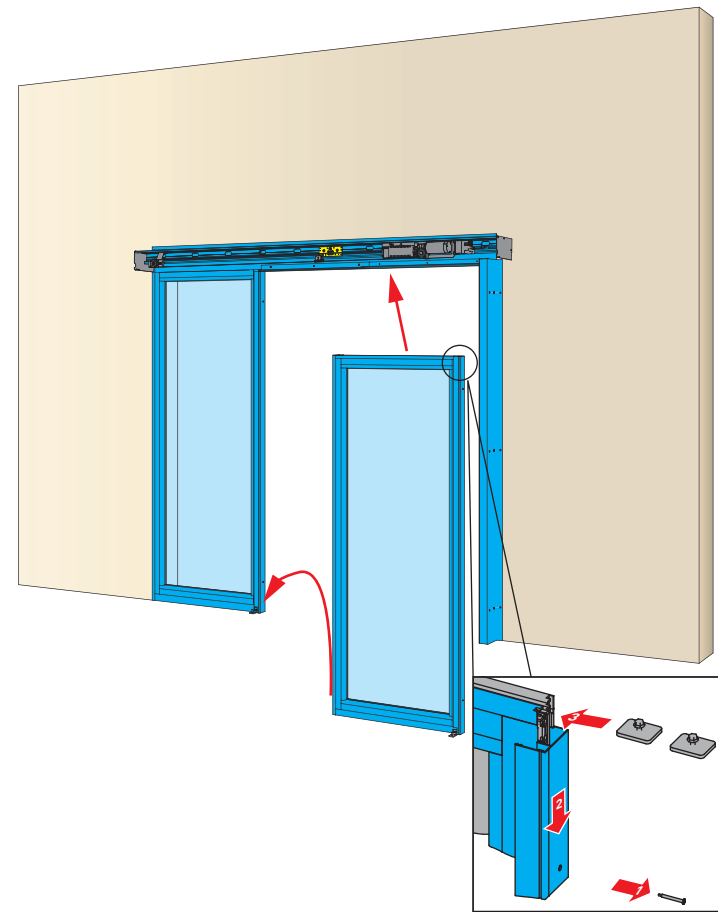
6 Free passage profile installation



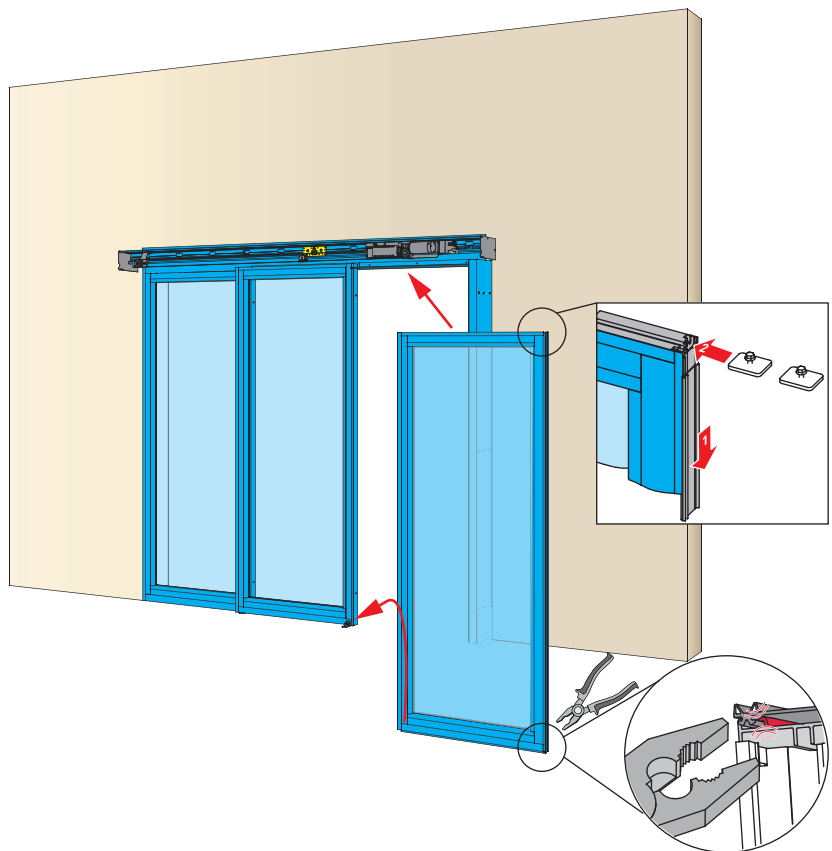
7 Glass and automation installation



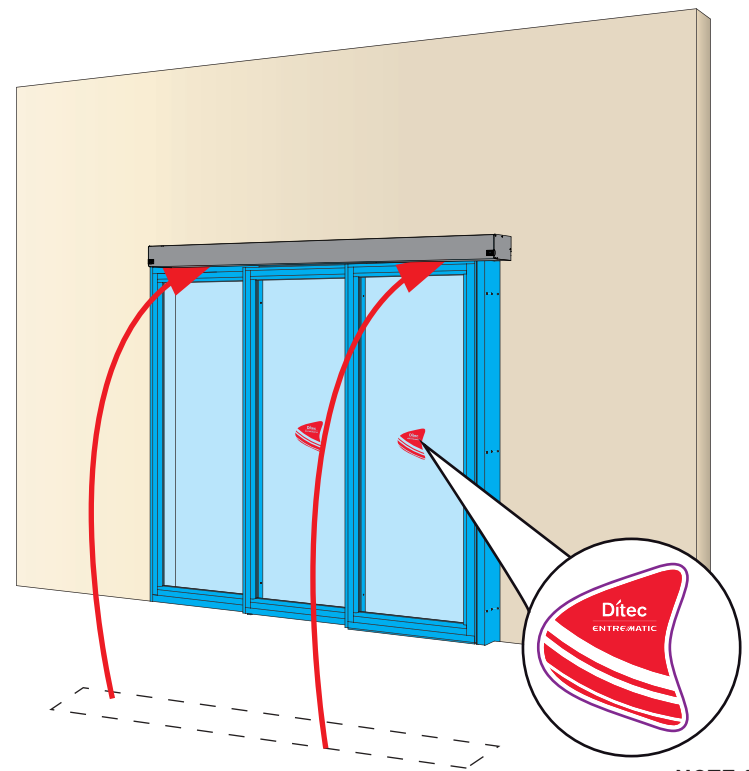
8 Door wing installation



9 Door wing installation



10 Door wing installation

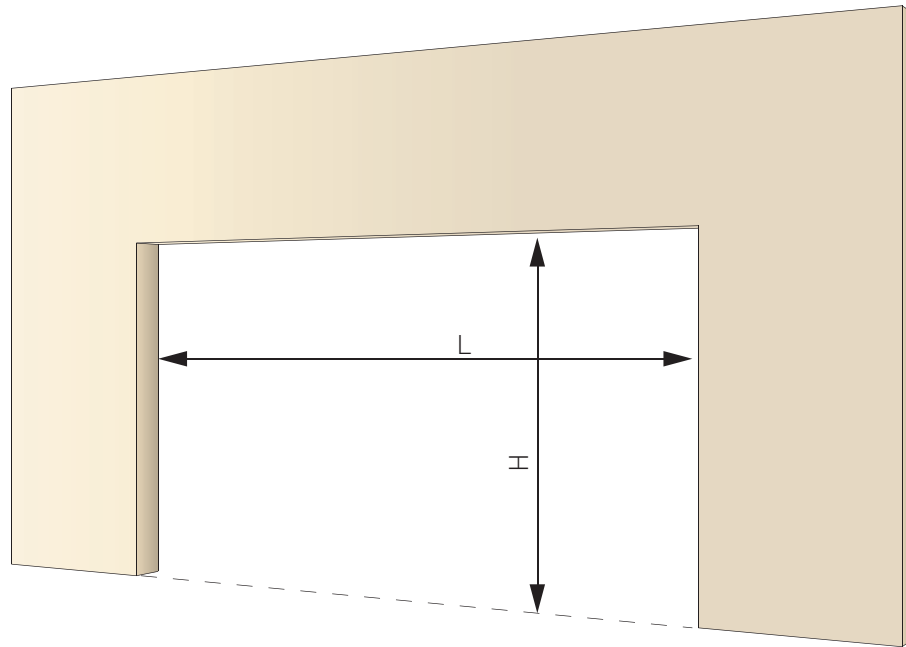


**NOTE 1**  
see page 10

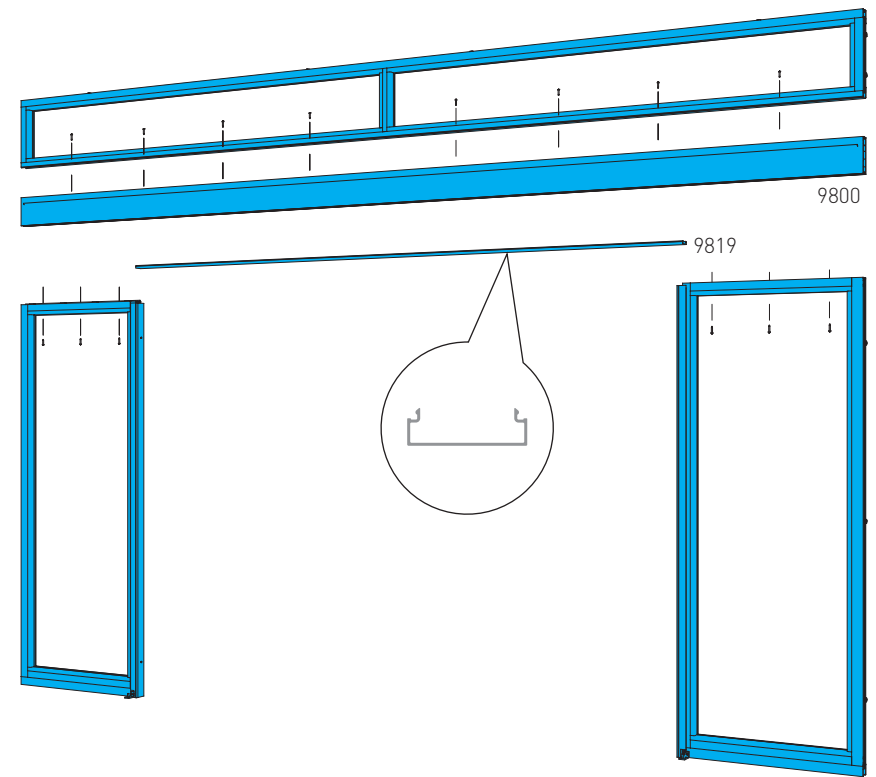
# 30. Installation instructions for 2+2 moving door wings and 2 fixed door wings with beam and overlight

T121

**1** Installation position  
NB: check LxH dimensions



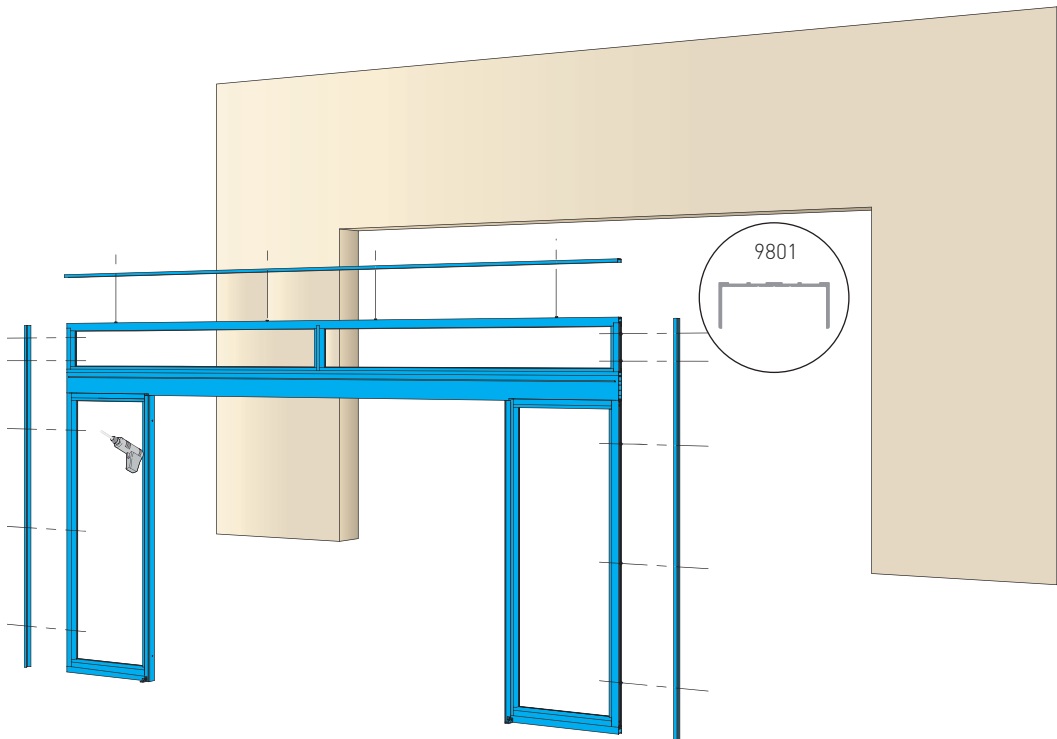
**2** Frame, beam, overlight and fixed door wings assembling



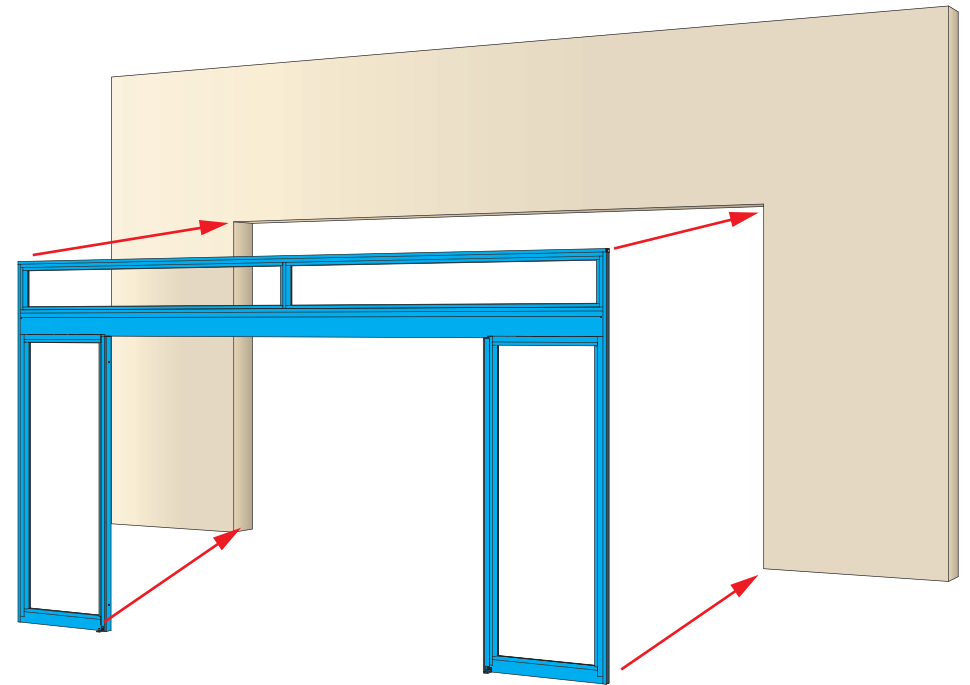
### 30. Installation instructions for 2+2 moving door wings and 2 fixed door wings with beam and overlight

T122

**3** Frame, beam, overlight and fixed door wings installation



**4** Frame, beam, overlight and fixed door wings installation

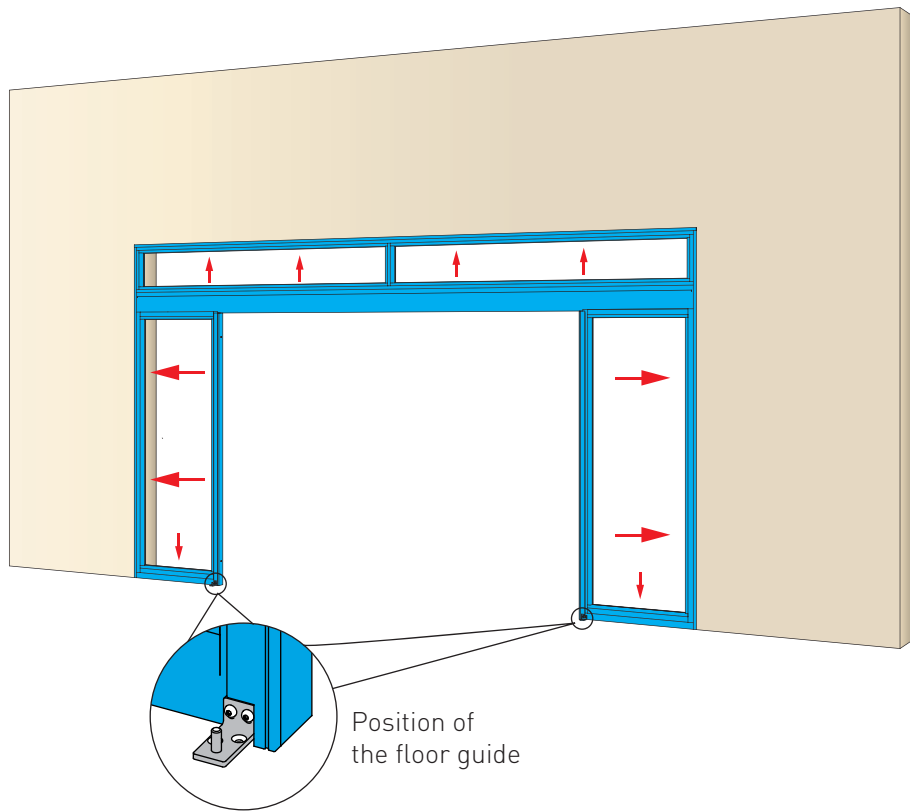




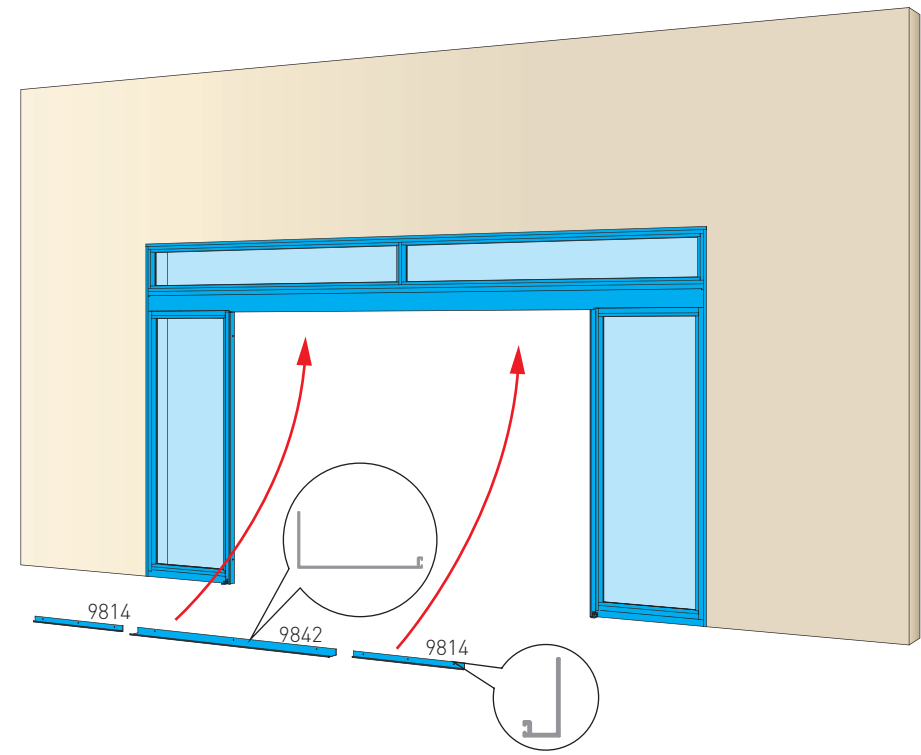
# 30. Installation instructions for 2+2 moving door wings and 2 fixed door wings with beam and overlight

T123

## 5 Glass installation



## 6 Free passage profiles installation

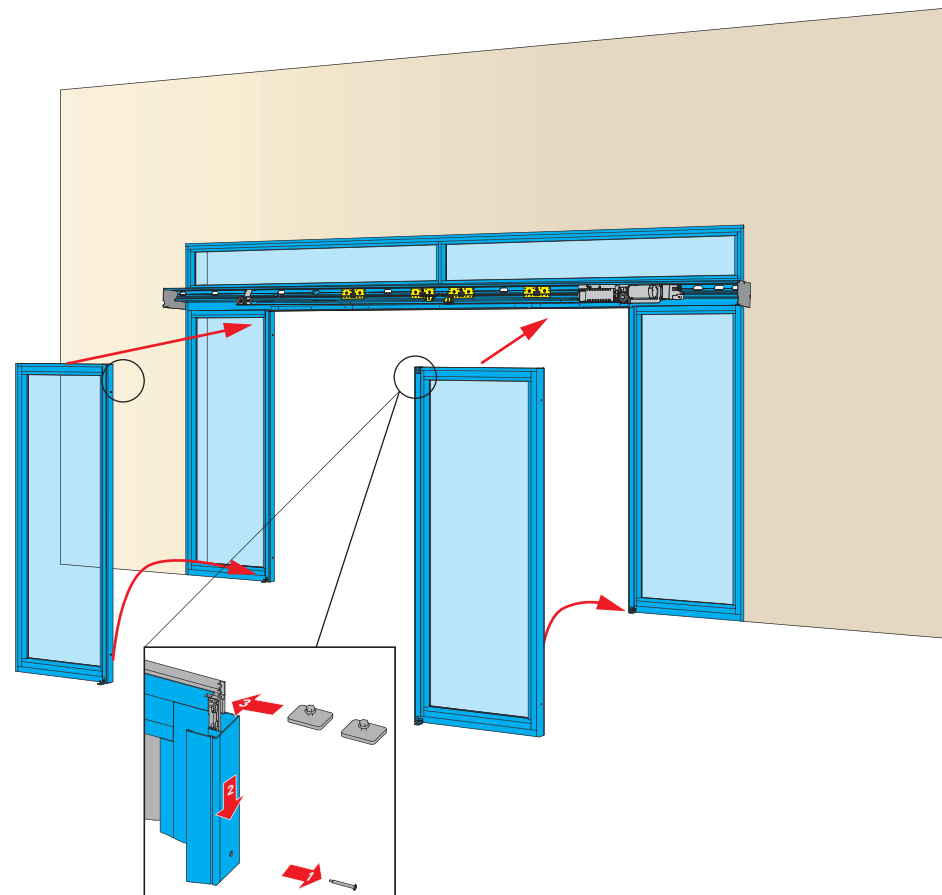
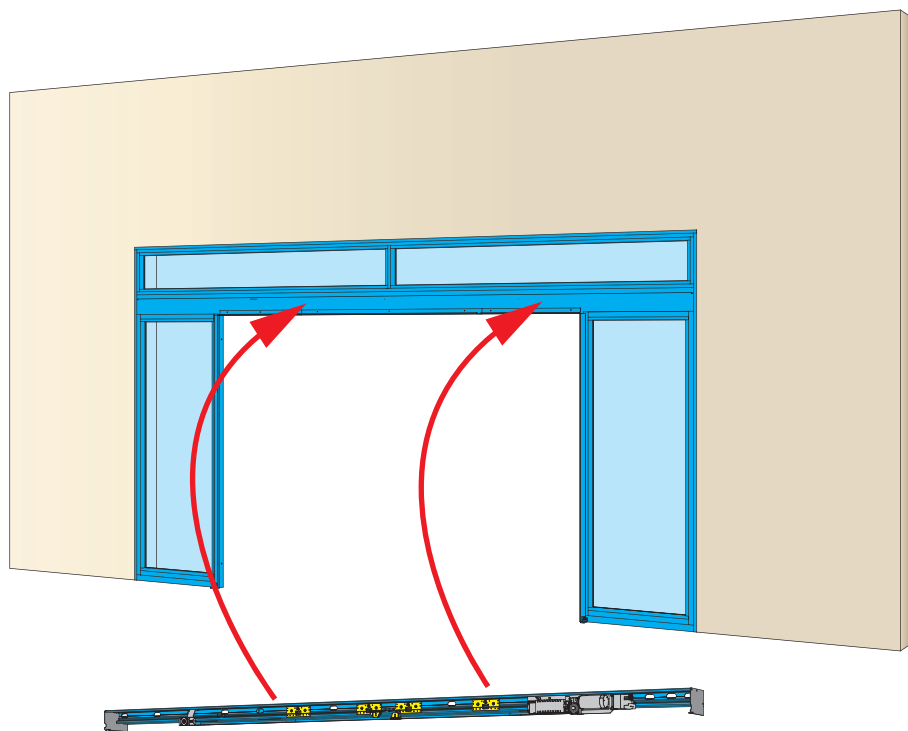


# 30. Installation instructions for 2+2 moving door wings and 2 fixed door wings with beam and overlight

T124

7 Installation of automation

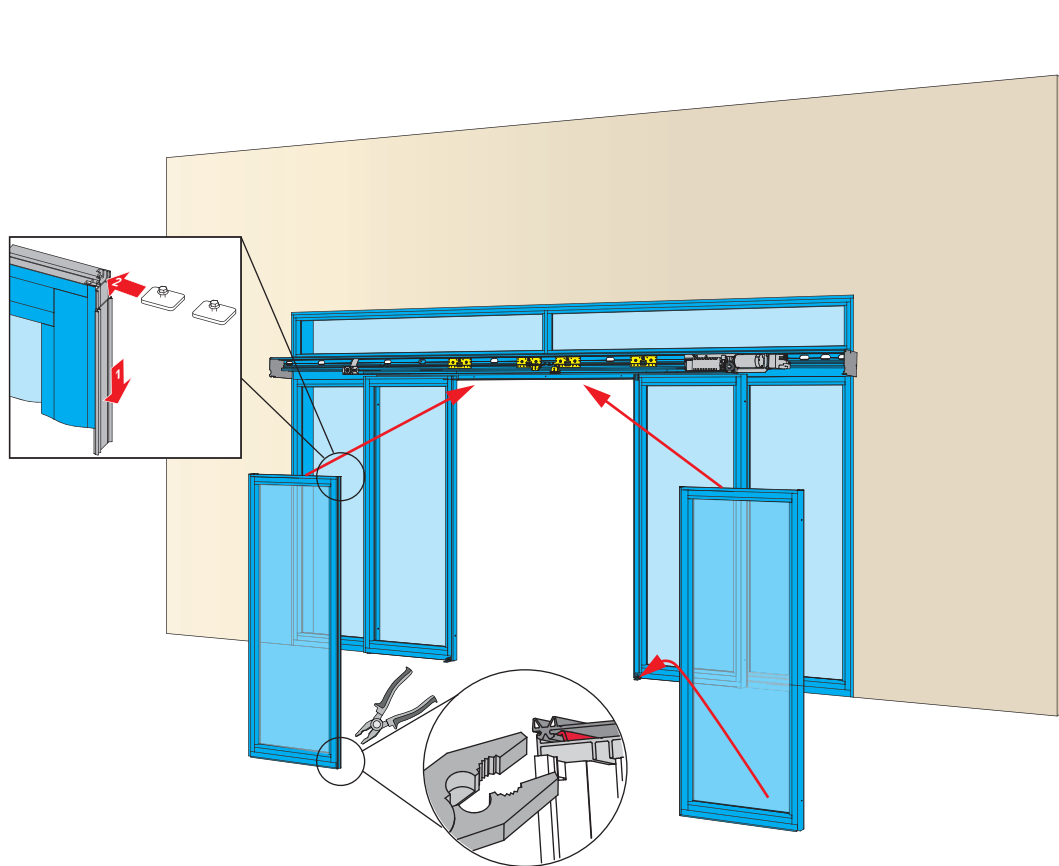
8 Door wings installation



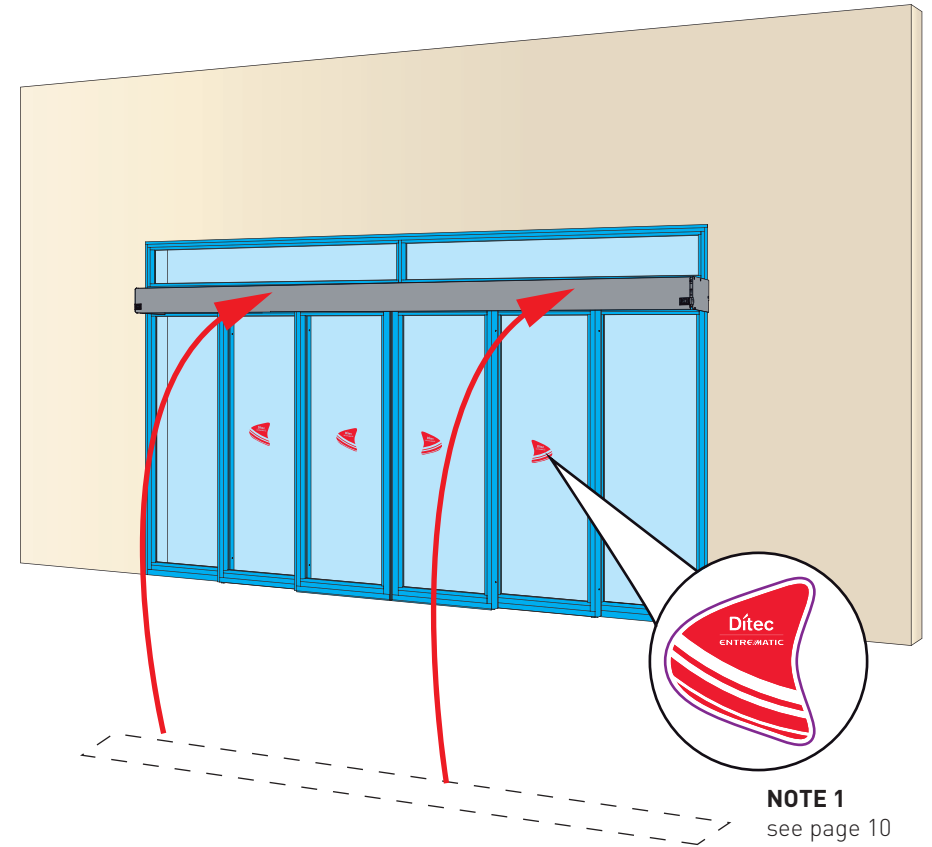
# 30. Installation instructions for 2+2 moving door wings and 2 fixed door wings with beam and overlight

T125

## 9 Door wings installation



## 10 Casing and end installation



**NOTE 1**  
see page 10



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