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Ditec ALU48RB0 / ALU48SB0

Ditec

EN Assembly and installation manual for door frame with break-out device of the moving door wings (Original instructions)

IT Manuale di installazione e assemblaggio per sistema serramento con dispositivo a sfondamento delle sole ante mobili (Istruzioni originali)

DE Installations- und Montageanleitung für Fenster mit Durchbohrungsvorrichtung Fahrflügel (Originalsprachlichen Anweisungen)

FR Manuel d'installation et d'assemblage pour système d'huissierie avec dispositif d'ouverture par poussée (antipanique) du vantaux mobiles (Instructions originales)

ES Manual de instalación y montaje para sistema de cierre con dispositivo de pliegue de hojas móviles (Instrucciones originales)

PT Manual de instalação e montagem para sistema de ferragem com dispositivo de abertura da portinholas móveis (Instruções originais)

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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 instructions 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 mobile wing as shown in the diagram 1.

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 ± 20 mm.

- for every type of door, the reference dimension of the automation is indicated (LT).

N.B.: The ALU48SBO system, with sliding door wings, only allows break-out of the door wings when they are closed.



For dimensions and/or weights which are not accounted for in the diagram, confirm the feasibility of the project with our technical-commercial offices.

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.

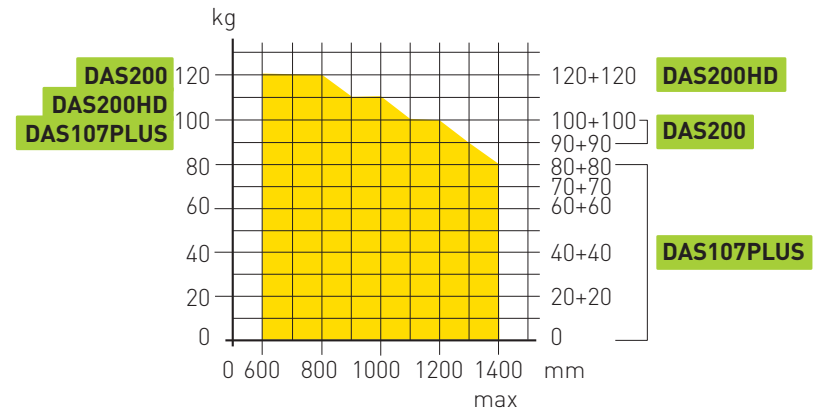
The door frame is equipped with special EPDM gaskets for the hermetic central stop with brush-type seals in the openable horizontal and vertical perimeters which give the system optimal temperature and sound proofing performances.

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.

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

Diagram 1 - Mobile wing's weight limit





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 mobile come indicato nel GRAFICO 1.

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 ± 20 mm.
- per ogni tipologia di porta viene indicata la dimensione di riferimento dell'automazione (LT).

NOTA: Il sistema ALU48SB0, con ante mobili scorrevoli all'interno, permette lo sfondamento delle ante solo quando queste sono chiuse.



Per dimensioni e/o pesi non contemplati dal grafico, richiedere la fattibilità al nostro ufficio tecnico-commerciale.

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.

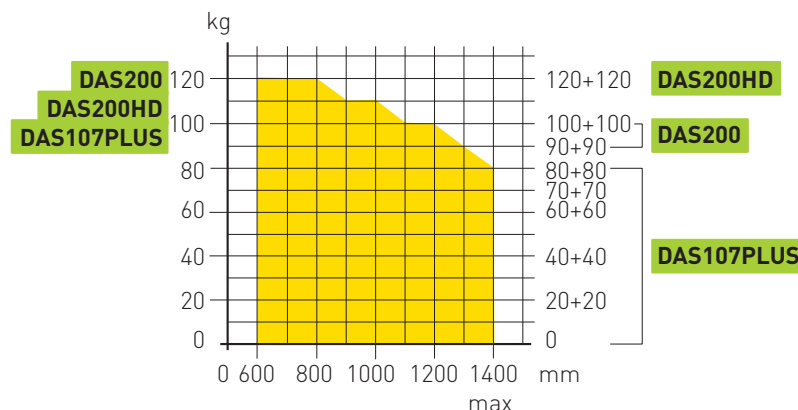
Il serramento è corredato di speciali guarnizioni in EPDM per la battuta centrale ermetica, dotato di guarnizioni a spazzola nei perimetri orizzontali e verticali apribili, così da garantire una ottimale prestazione di tenuta termo-acustica del sistema.

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.

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.

Diagram 1 - Mobile wing's weight limit





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 beweglichen Flügels daß in der Grafik 1 angegeben ist.

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

- die maximale lichte Öffnung PLmax 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.

HINWEIS: Das System ALU48SBO, mit nach innen gleitenden Fahrflügeln ermöglicht das Ausschwenken der Flügel nur, wenn diese geschlossen sind.



Beachte: Erfragen Sie die Durchführbarkeit für Maße und/oder Gewichte, die in der Grafik nicht berücksichtigt werden in unserem Technischen Vertriebsbüro.

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.

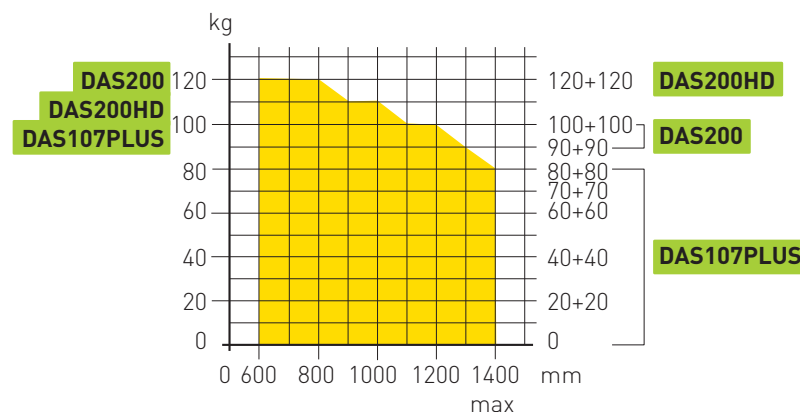
Das Profil ist mit speziellen Dichtungen aus EPDM für den hermetischen mittleren Anschlag und mit Bürstendichtungen an den horizontalen und vertikalen zu öffnenden Begrenzungen ausgestattet, damit eine optimale Leistung in Bezug auf Wärme- und Schallschutzdichtung gewährleistet ist.

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.

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

Diagram 1 - Mobile wing's weight limit





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'huissières 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 mobile indiquée dans le graphique 1.

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 ± 20 mm.

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

REMARQUE : Le système ALU48SBO, à vantaux mobiles coulissants à l'intérieur, ne permet l'ouverture par poussée des vantaux que lorsque ceux-ci sont fermés.



Pour les dimensions et/ou les poids qui ne seraient pas inclus dans le graphique, s'adresser à notre bureau technico-commercial pour la faisabilité.

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

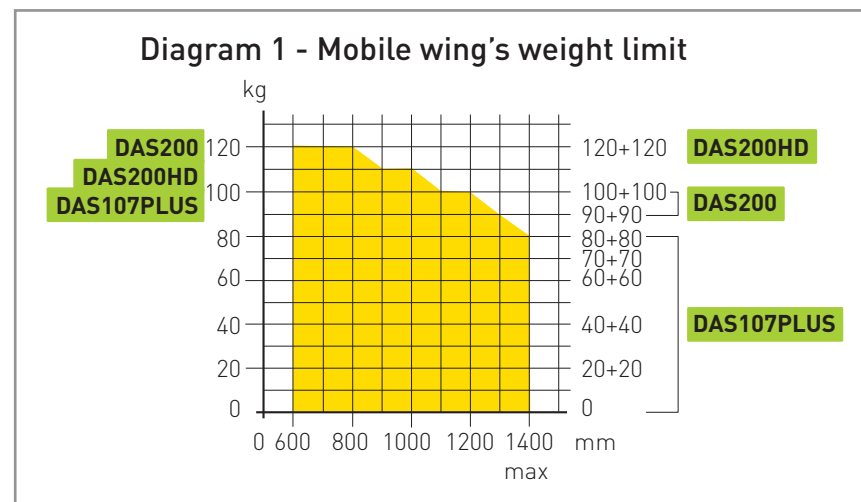
- finition superficielle réalisée par traitement de peinture au four (poudres en polyester dans les couleurs RAL- marque Qualicoat) ou de coloration anodique (finitions EURAS - marque Qualanod). La série de profilés est équipée de fixation des vitres à loquet pour loger des volumes de verre d'une épaisseur 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'huissière 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 huisseries 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.

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 móvil como indicado en el gráfico 1.

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

- el hueco de paso máx. PLmáx se considera entre los montantes verticales de las hojas fijas y/o del marco. El hueco de paso útil tiene una tolerancia de ± 20 mm.

- para cada tipo de puerta, se indica la dimensión de referencia del automatismo (LT).

NOTA: El sistema ALU48SB0, con hojas móviles correderas en el interior, permite el pliegue de las hojas solo cuando están cerradas.



Para dimensiones y/o pesos no contemplados por el gráfico, preguntar a nuestra oficina técnica-comercial.

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.

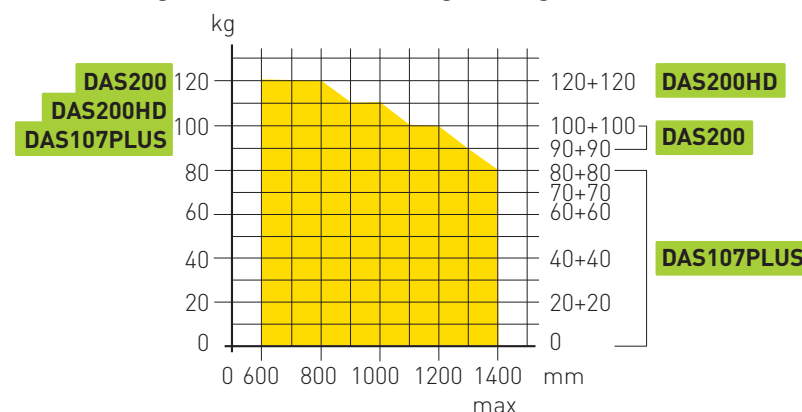
El cierre está equipado con juntas especiales de EPDM para el tope central hermético, dotado de juntas de cepillo en los perímetros horizontales y verticales abribles, de modo que garantiza unas óptimas prestaciones de estanqueidad termoacústica del sistema.

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.

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.

Diagram 1 - Mobile wing's weight limit





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 móvel é indicada no Gráfico 1.

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 ± 20 mm.

- para cada tipo de porta é indicada a dimensão de referência do automatismo (LT).

NOTA: O sistema ALU48SBO, com portinholas móveis deslizantes internas, permite o empurrão das portinholas somente quando estão fechadas.



Em relação à dimensões e/ou pesos não incluídos no gráfico, entre em contato com nosso departamento técnico-comercial para um estudo de viabilidade.

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).

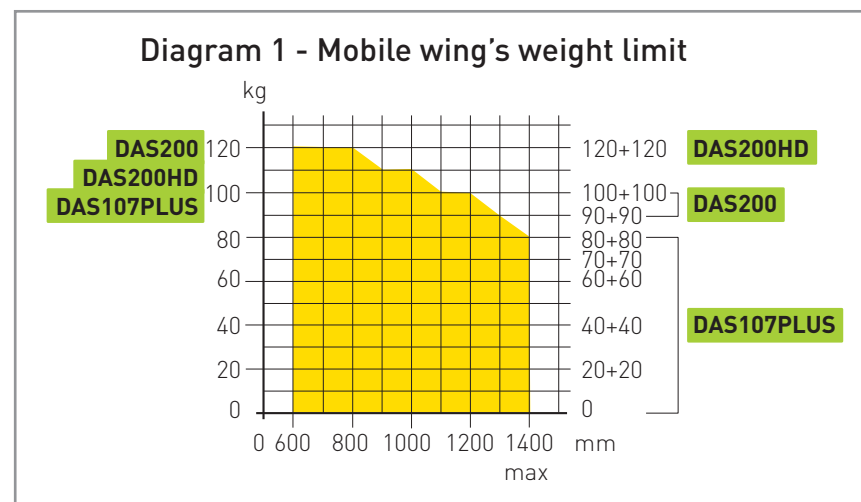
A série de perfis está equipada com prende-vidros de pressão para alojar volumes de vidros com uma espessura de 8, 10, 22, 40 mm, predispostos para uma fixação segura das placas de vidro e para uma regulação correcta em fase de instalação. O sistema permite, além disso, uma fácil intervenção posterior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

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.



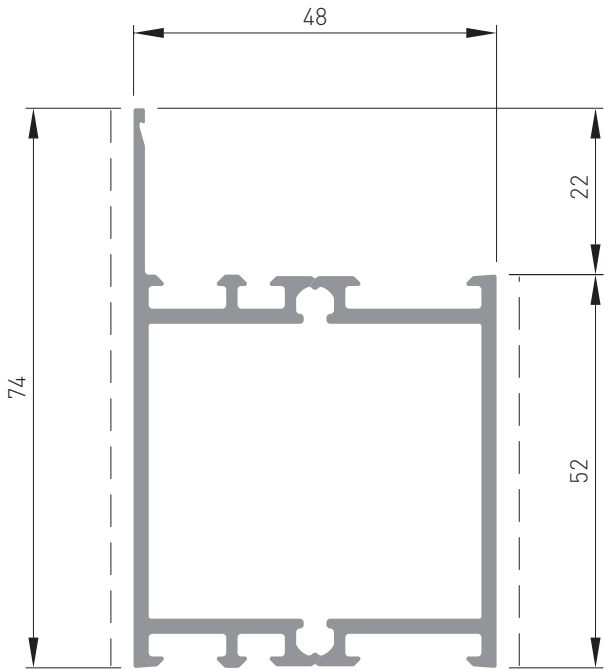
4. Legend

	EN	IT	DE	FR	ES	PT
M	Moving door wing	Anta mobile	Fahrflügel	Vantail mobile	Hoja móvil	Portinhola móvel
C	Frame	Cornice	Rahmen	Cadre	Marco	Caixilho
L	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
LS	Overall frame opening width	Larghezza serramento	Breite der Tür	Largeur de l'huissierie	Anchura del cierre	Largura da ferragem
PL	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
LT	Automation length	Lunghezza automazione	Länge des Antriebs	Longueur de l'automatisme	Longitud automatismo	Comprimento do automatismo
LM	Moving door wing width	Larghezza anta mobile	Breite des beweglichen Flügels	Largeur du vantail mobile	Anchura hoja móvil	Largura da portinhola móvel
LVM	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
H	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
HS	Effective frame opening height	Altezza utile serramento	Nutzbare Profilhöhe	Hauteur utile de l'huissierie	Altura útil del cierre	Altura útil da ferragem
PH	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
H1	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
HM	Moving door wing height	Altezza anta mobile	Höhe des Fahrflügels	Hauteur du vantail mobile	Altura hoja móvil	Altura da portinhola móvel
HVM	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
MH	Crosspiece height	Altezza traverso	Höhe des Querbalkens	Hauteur de la traverse	Altura del travesero	Altura da trave

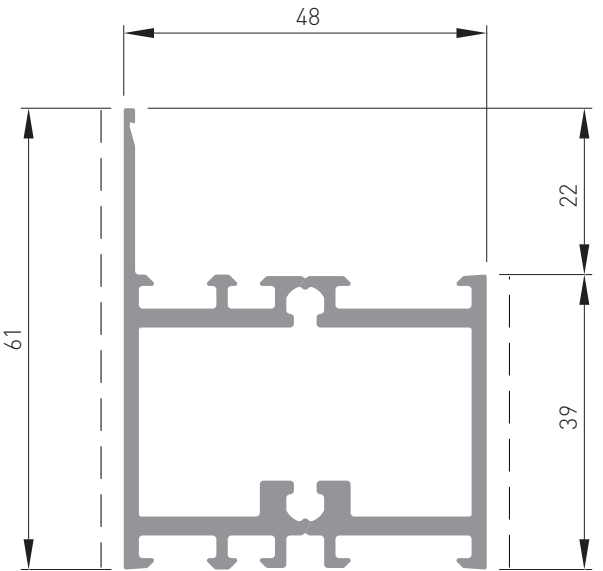
NOTE 1: in compliance with the EN 16005 Standard, transparent glass panels must be marked. The application of stickers complies with the provisions of the Standard regarding accident prevention.

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

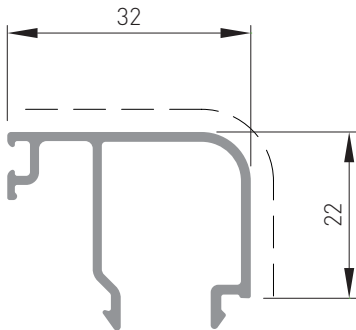
5. Technical drawings



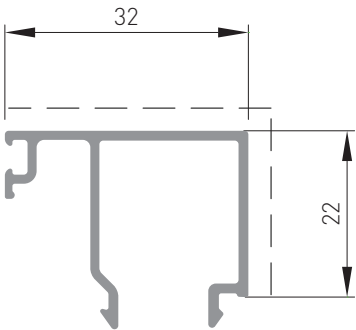
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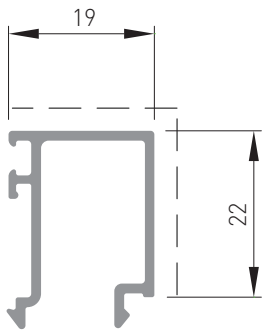
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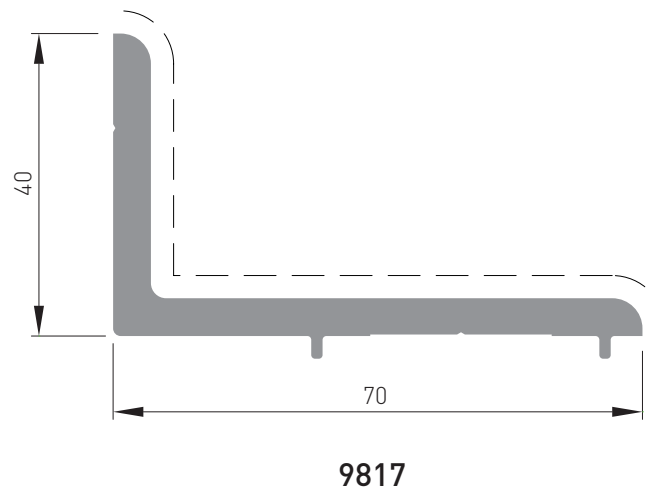
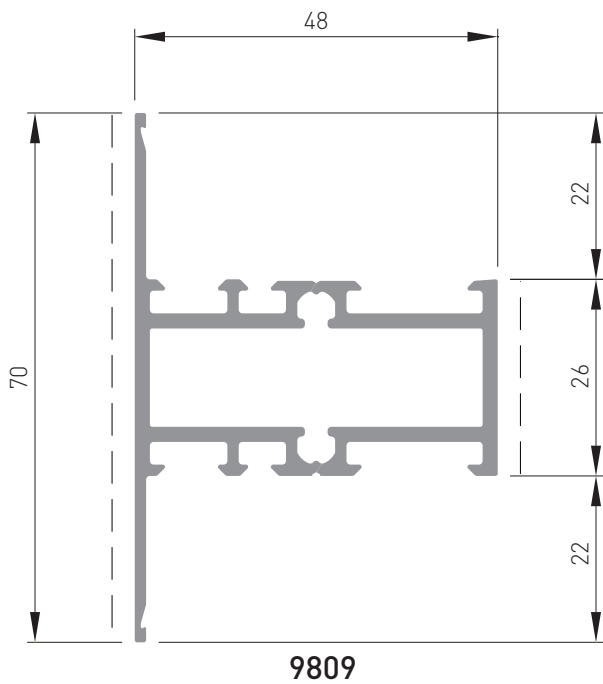
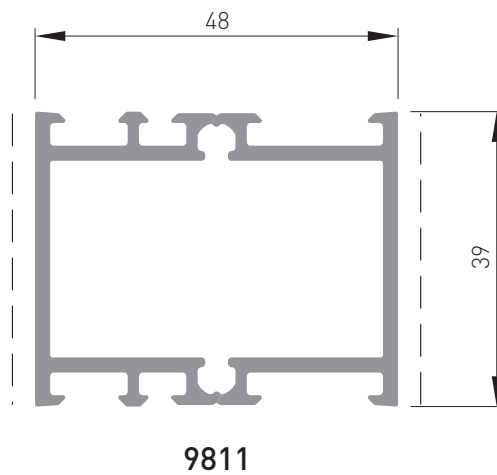
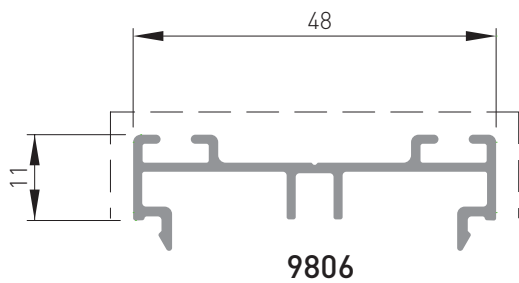
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9807

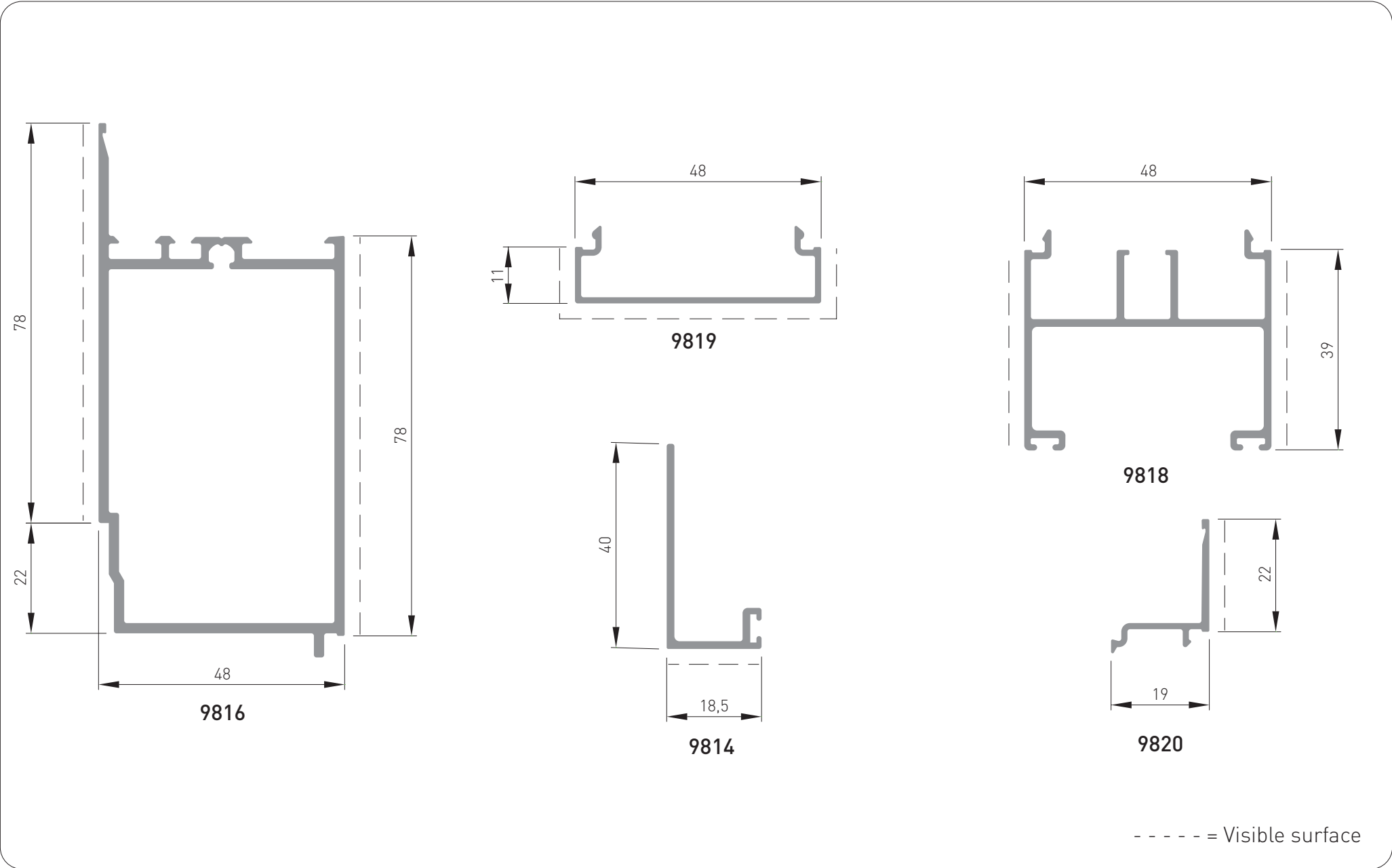
----- = Visible surface

5. Technical drawings

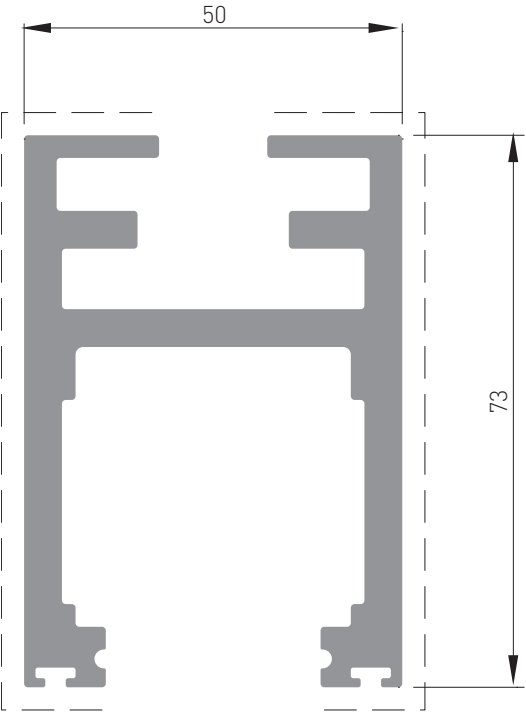


- - - - = Visible surface

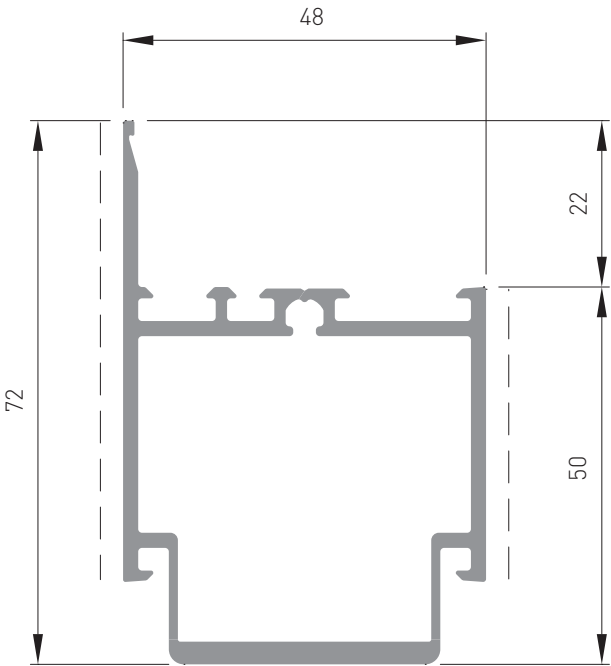
5. Technical drawings



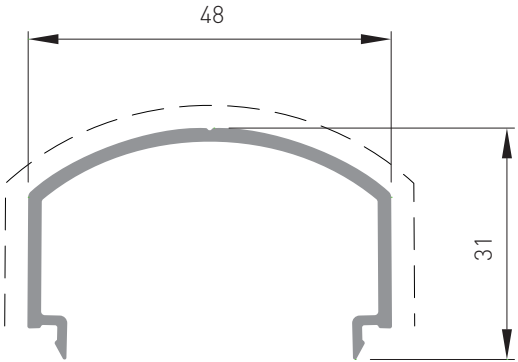
5. Technical drawings



9834



9835



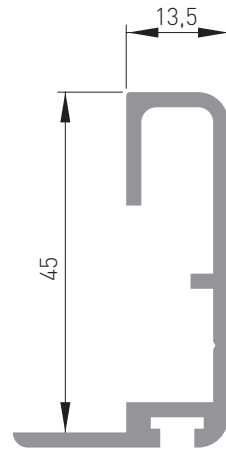
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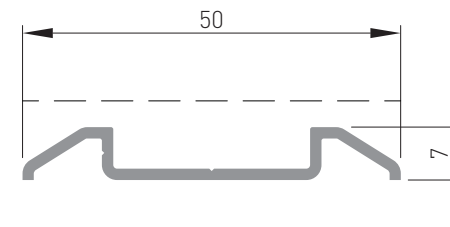
5. Technical drawings

T05

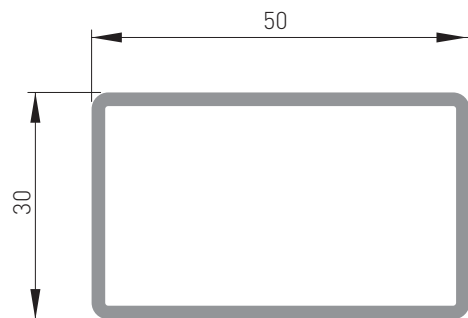
Scale 1:1



9844



1600



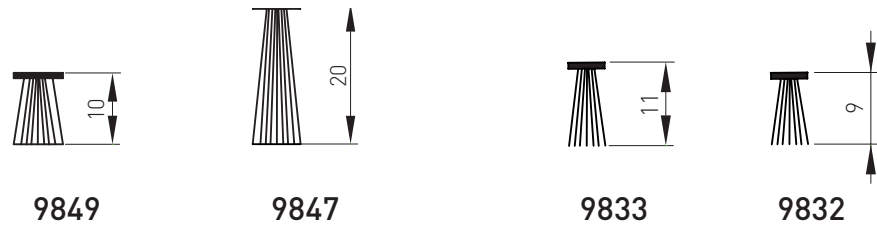
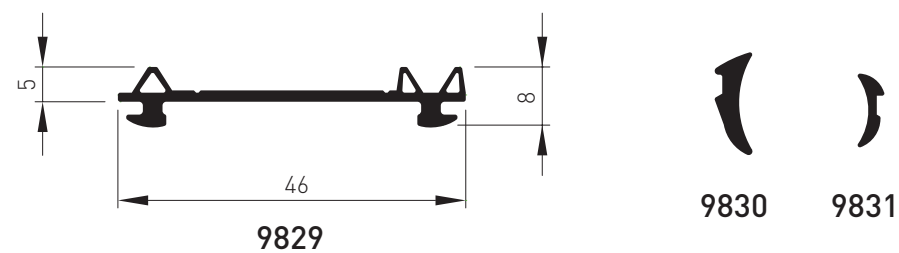
9850



9851

- - - - = Visible surface

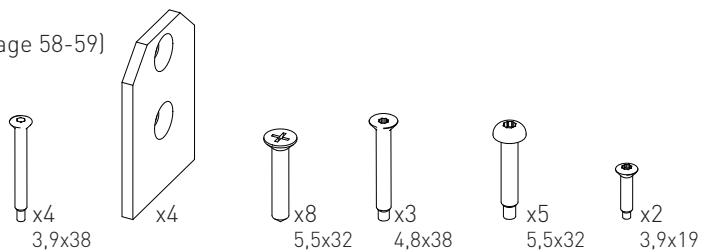
5. Technical drawings



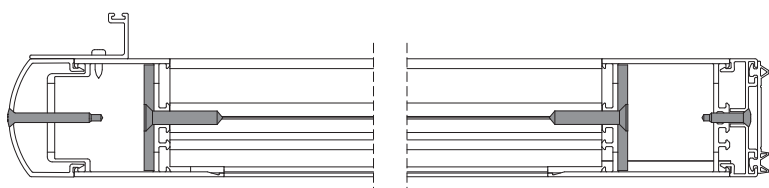
6. Accessories

T07

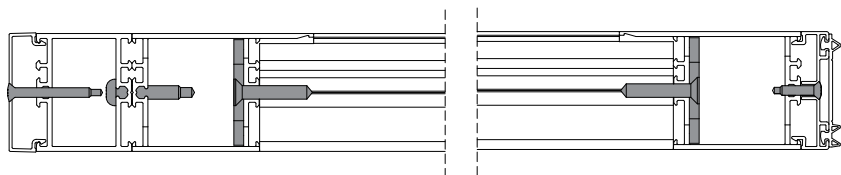
KAM48 (see page 58-59)



RB0

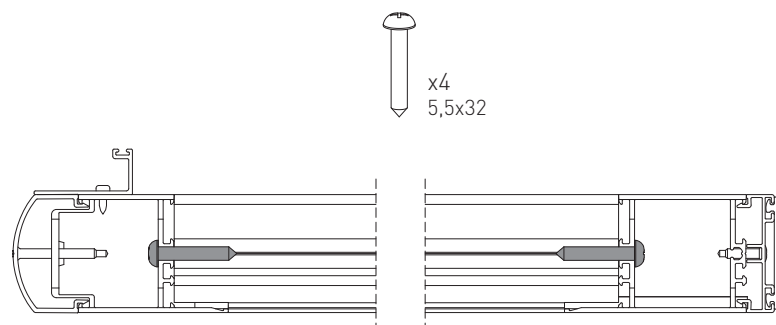


SB0

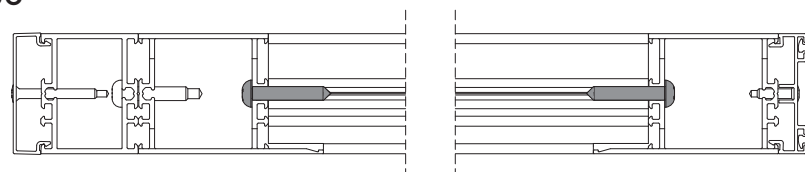


KT48 (see page 64-65-66-67)

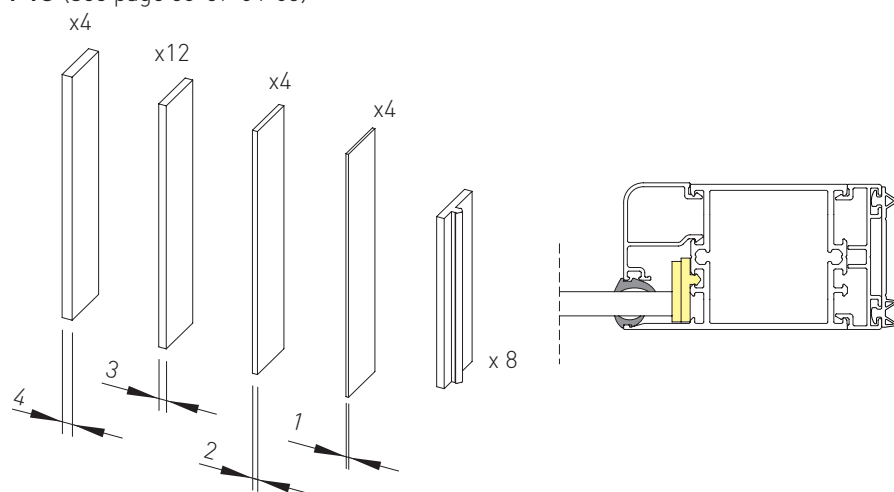
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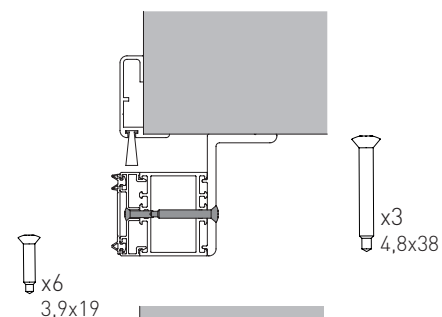


KSV48 (see page 58-59-64-65)

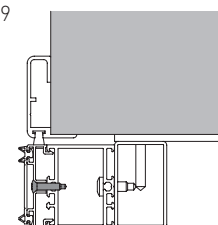


KC48 (see page 62-63)

RB0



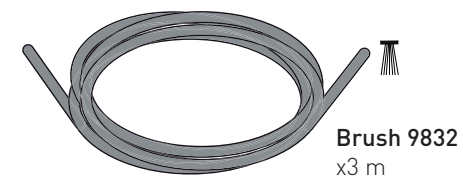
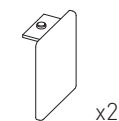
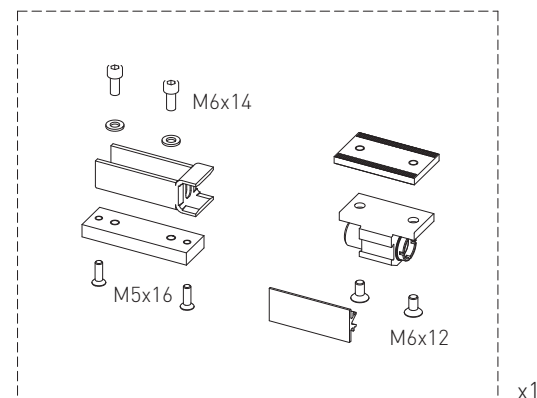
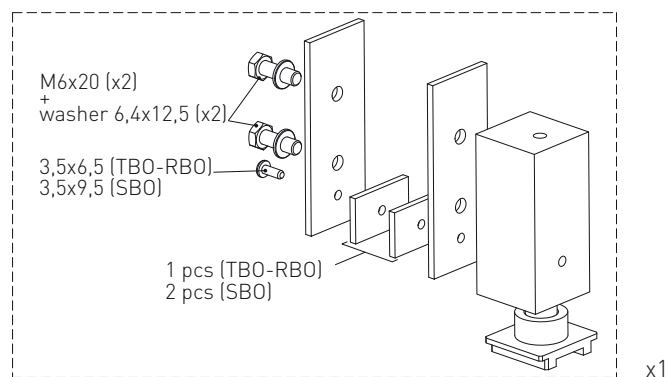
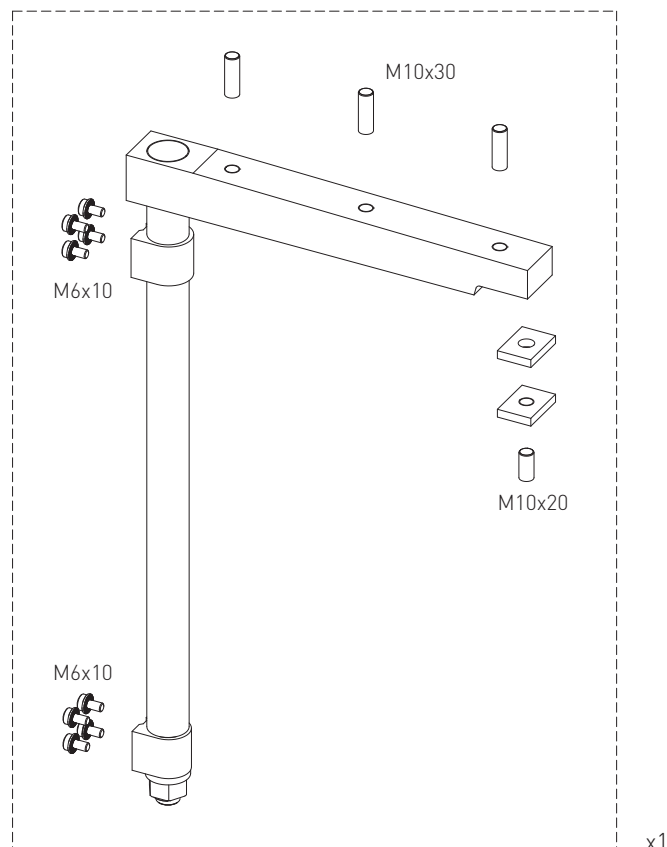
SB0



6. Accessories

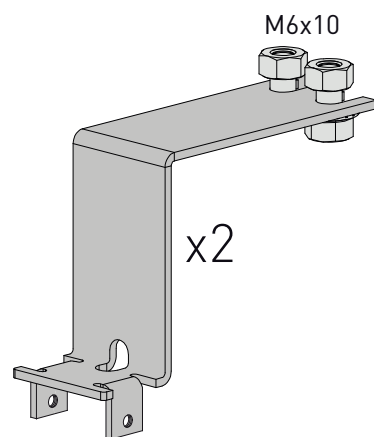
T08

KASM48N (see page 58-59)

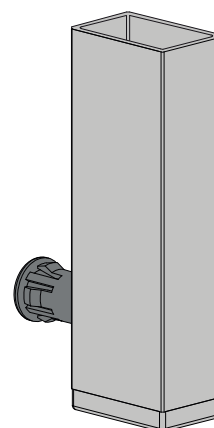
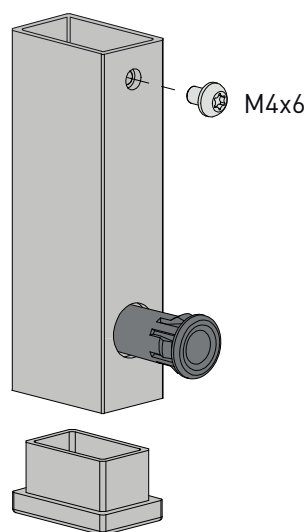
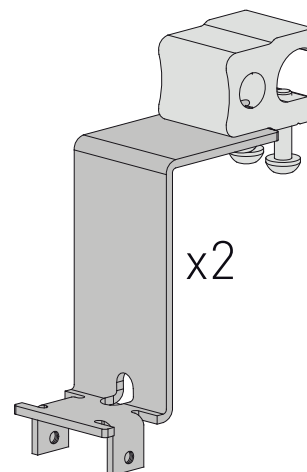


DAS902KRB48

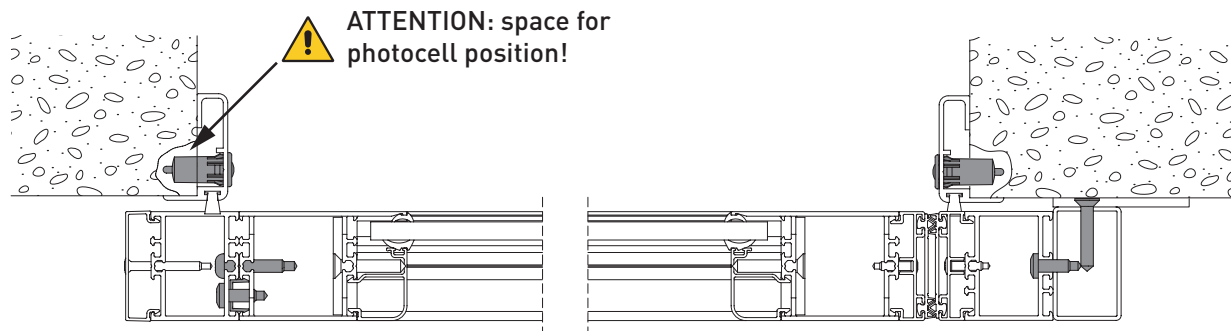
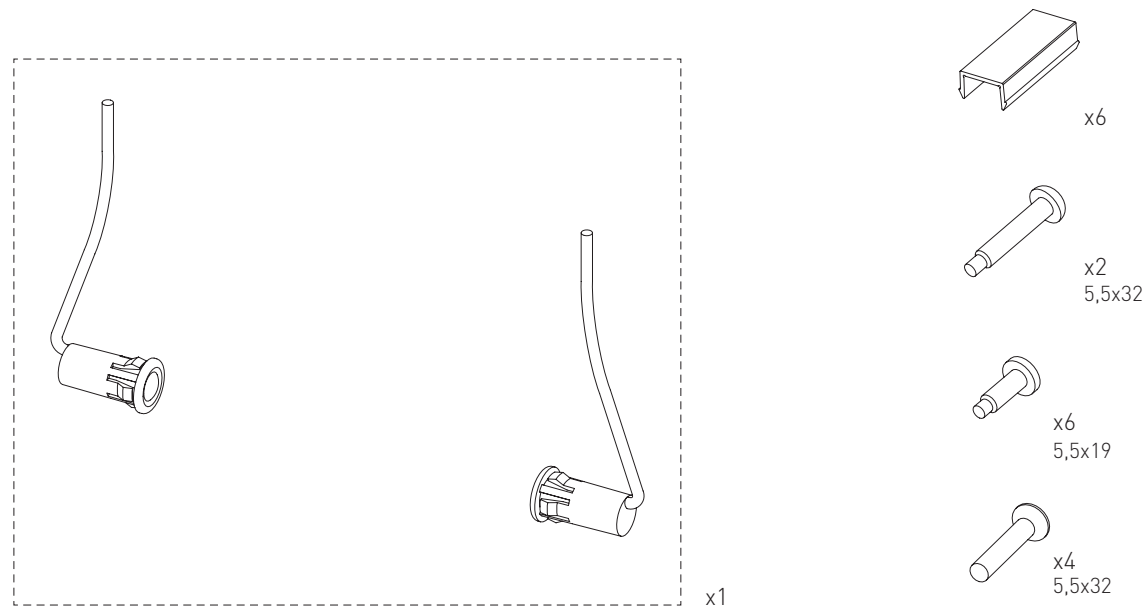
DAS200



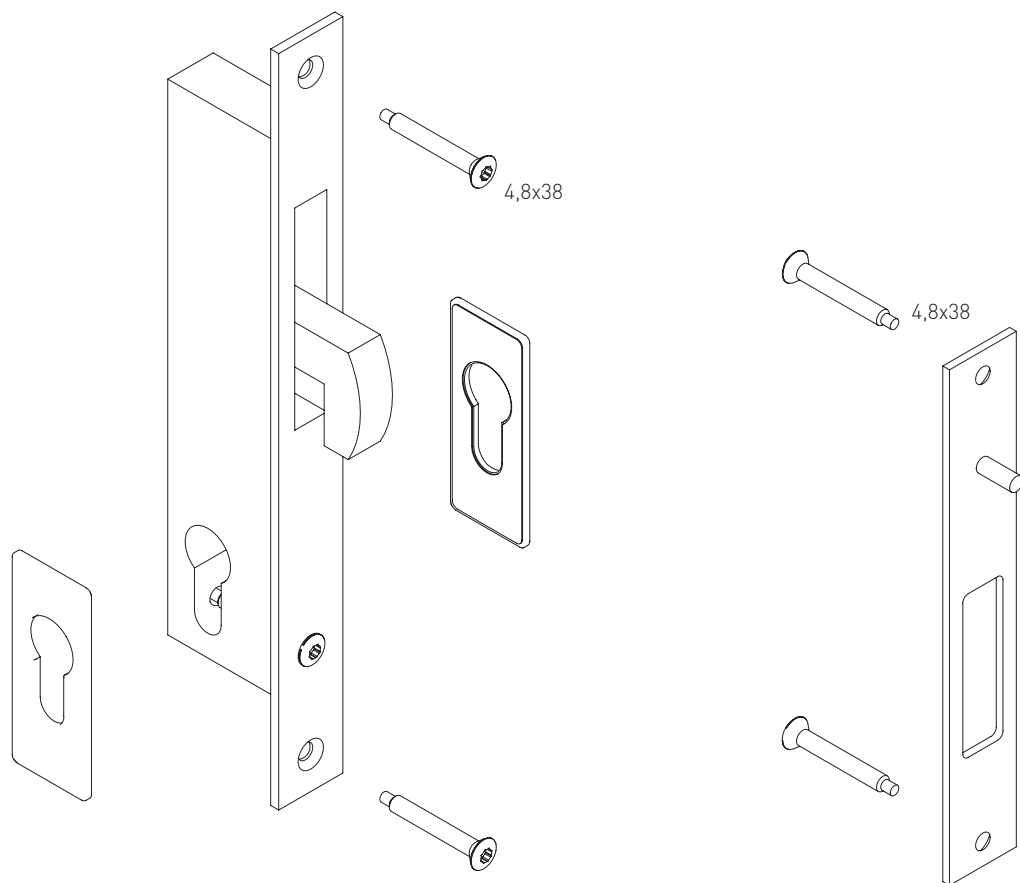
DAS107PLUS



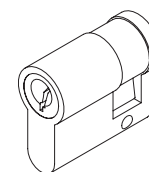
DAS902KSB48



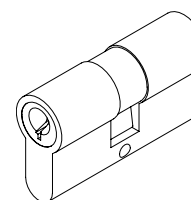
KSER48 (see page 68, 69)



KSER481 (see page 68, 69)

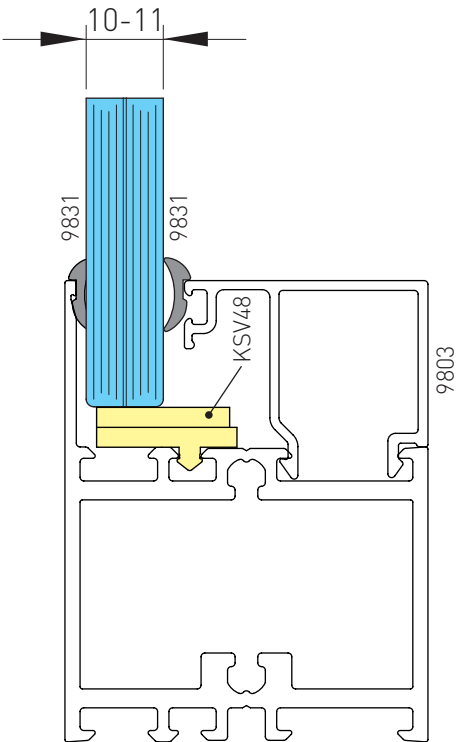
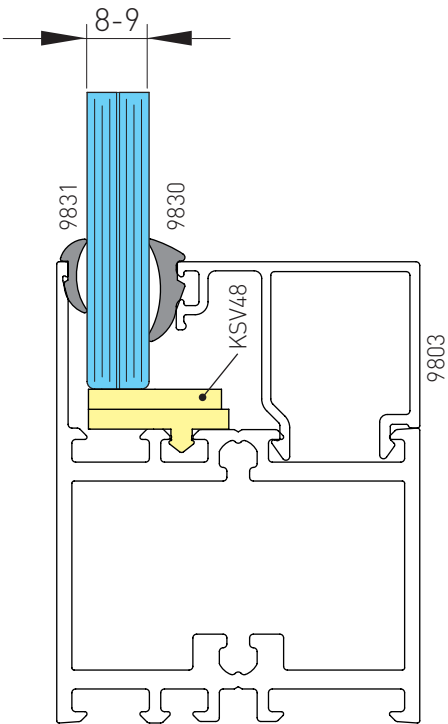
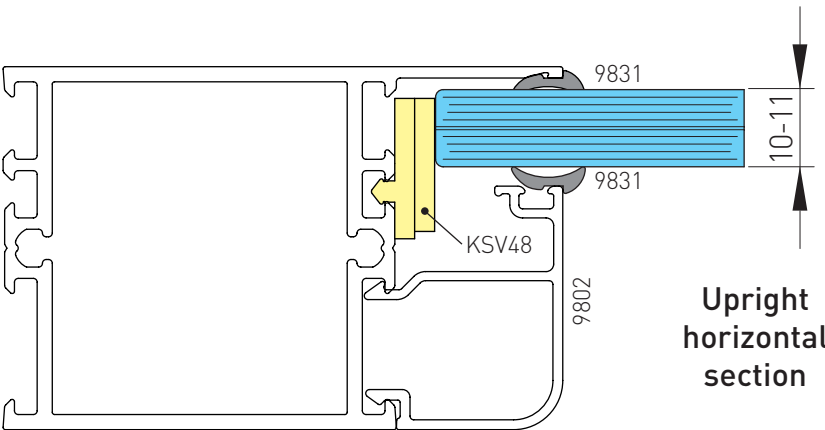
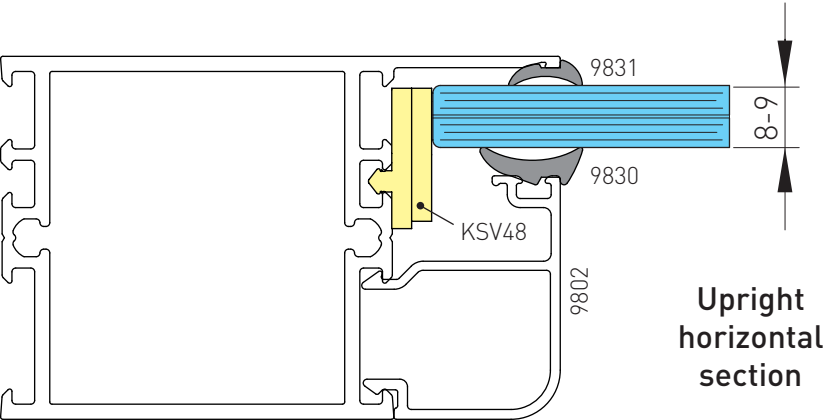


KSER482 (see page 68, 69)



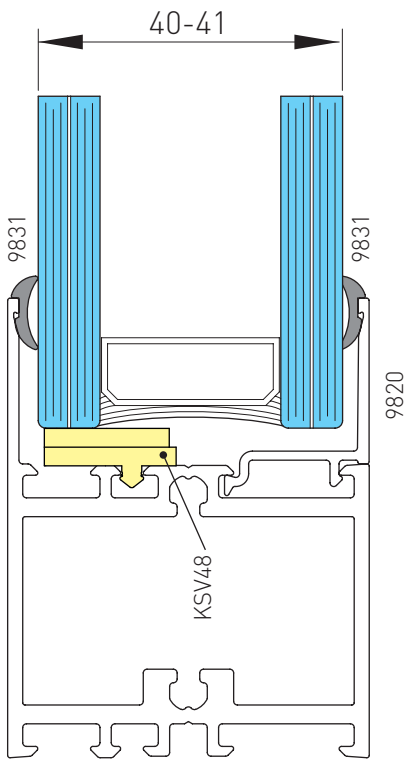
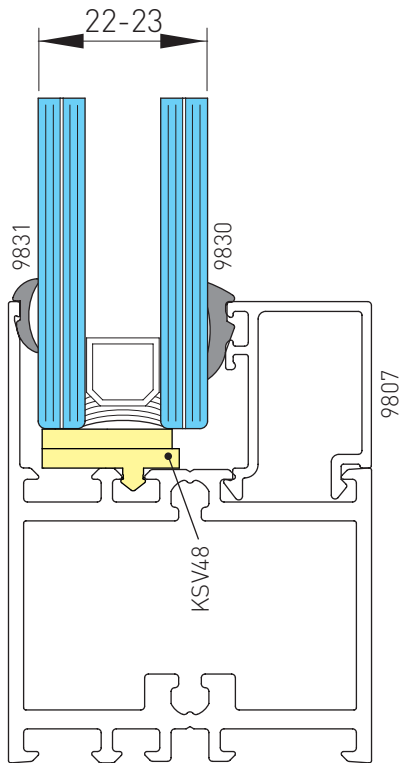
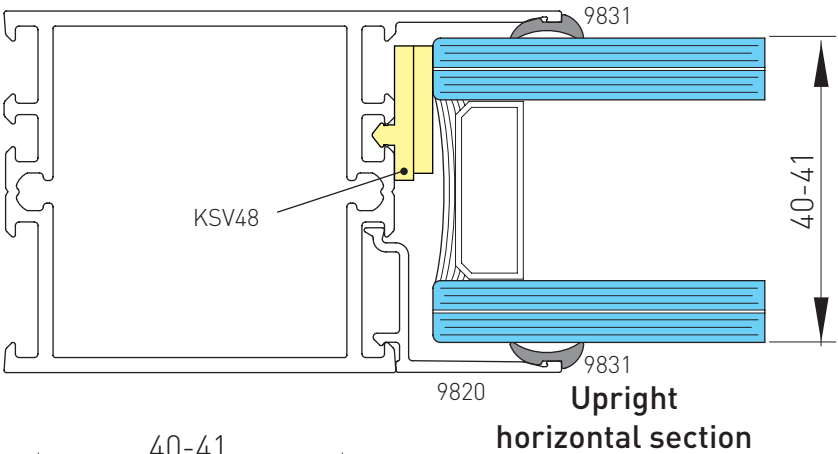
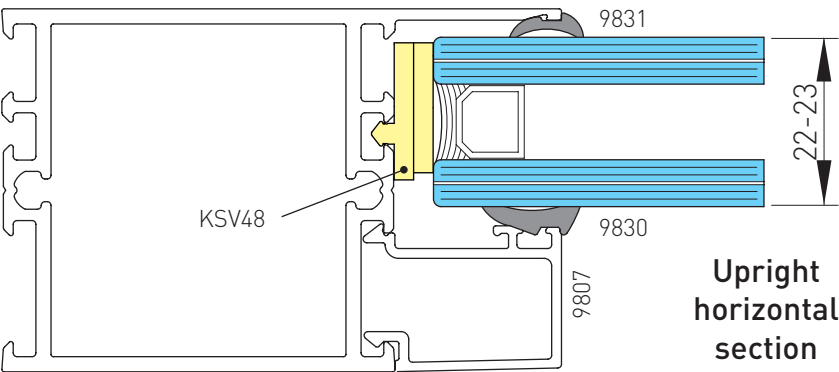
7. Glass thickness

T12
Scale 1:1



7. Glass thickness

T13
Scale 1:1



8. Applications

T14

Out of scale

EN The ALU48 door frames allow frames to be motorised with Ditec DAS107PLUS and Ditec DAS200 automations.
The examples of vertical and horizontal sections that follow, show (for illustrative purposes only) the Ditec DAS200 operators.

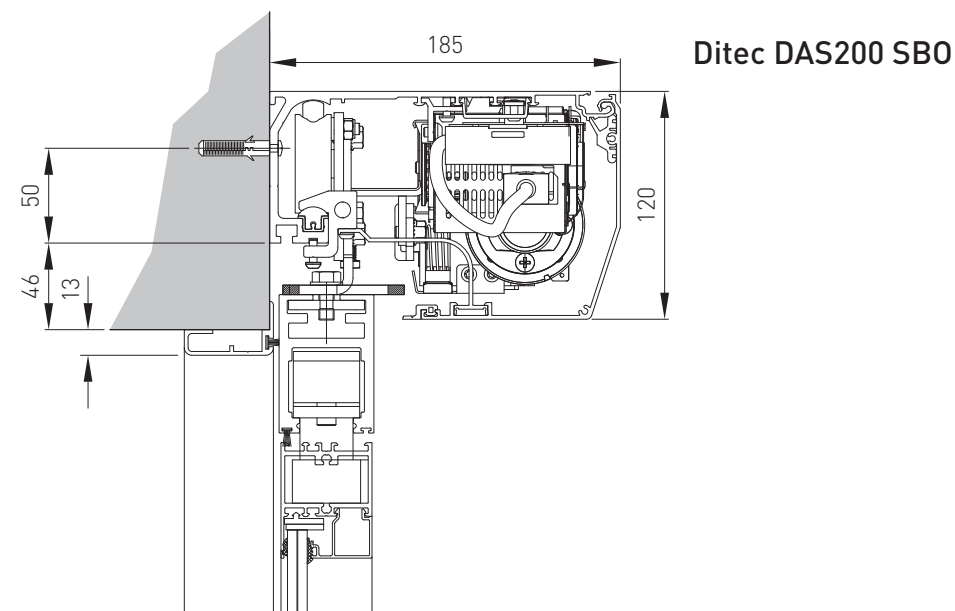
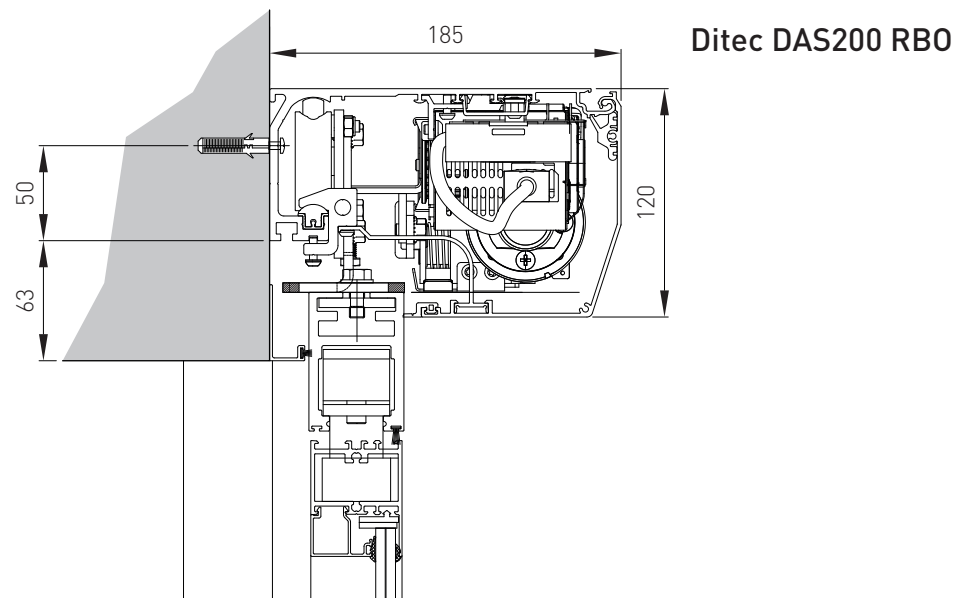
IT I serramenti ALU48 consentono la motorizzazione degli infissi con automazioni tipo Ditec DAS107PLUS e Ditec DAS200.
Gli esempi di sezioni verticali e orizzontali che seguiranno rappresentano (a titolo puramente indicativo) le automazioni Ditec DAS200.

DE Die Profile ALU48 ermöglichen die Motorisierung der Torprofile mit Antrieben des Typs Ditec DAS107PLUS und Ditec DAS200.
Die nachfolgenden Beispiele der Vertikal- und Horizontalschnitte stellen (rein informativ) die Ditec DAS200-Antriebe dar.

FR Les huisseries ALU48 permettent la motorisation des portails à automatismes de type Ditec DAS107PLUS et Ditec DAS200.
Les exemples suivants de sections verticales et horizontales représentent (à titre purement indicatif) les automatismes Ditec DAS200.

ES Los cierres ALU48 permiten la motorización de marcos con automatismos tipo Ditec DAS107PLUS y Ditec DAS200.
Los ejemplos de secciones verticales y horizontales siguientes representan (a título puramente indicativo) los automatismos Ditec DAS200.

PT As ferragens ALU48 permitem a motorização dos infixos com automatismos do tipo Ditec DAS107PLUS e Ditec DAS200.
Os exemplos de secções verticais e horizontais que seguem representam (a título puramente indicativo) os automatismos Ditec DAS200.

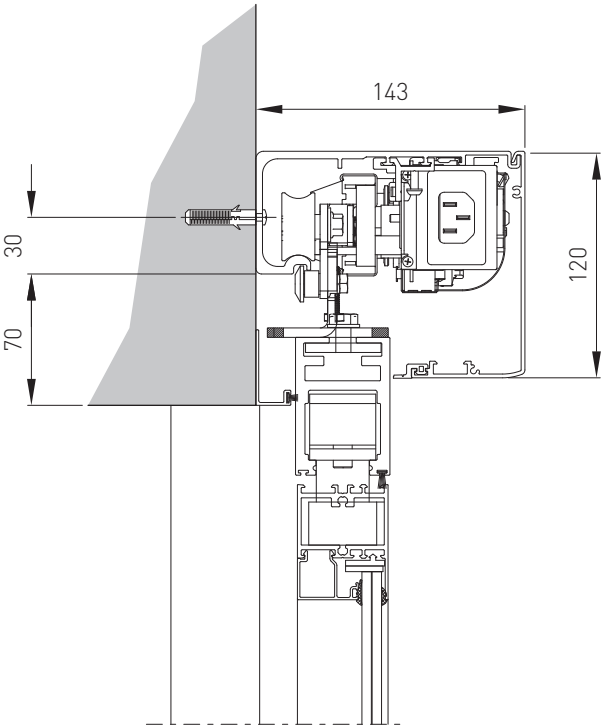


8. Applications

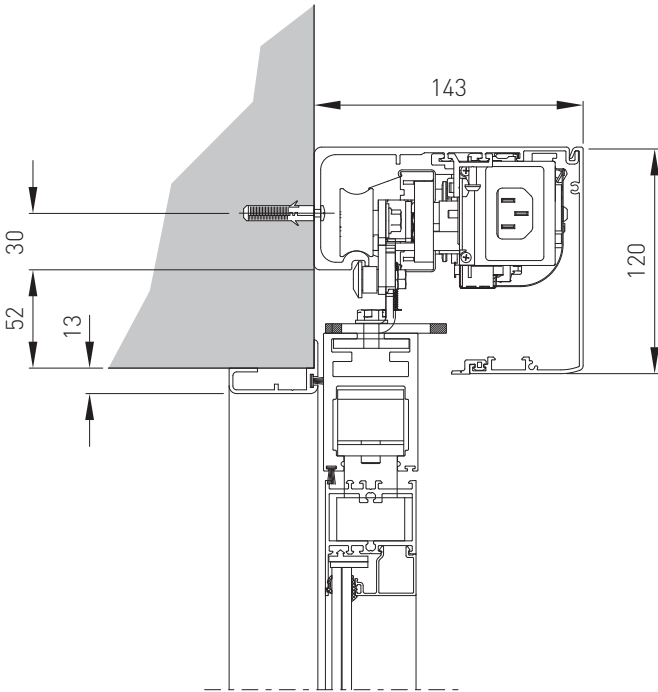
T15

Out of scale

Ditec DAS107PLUS

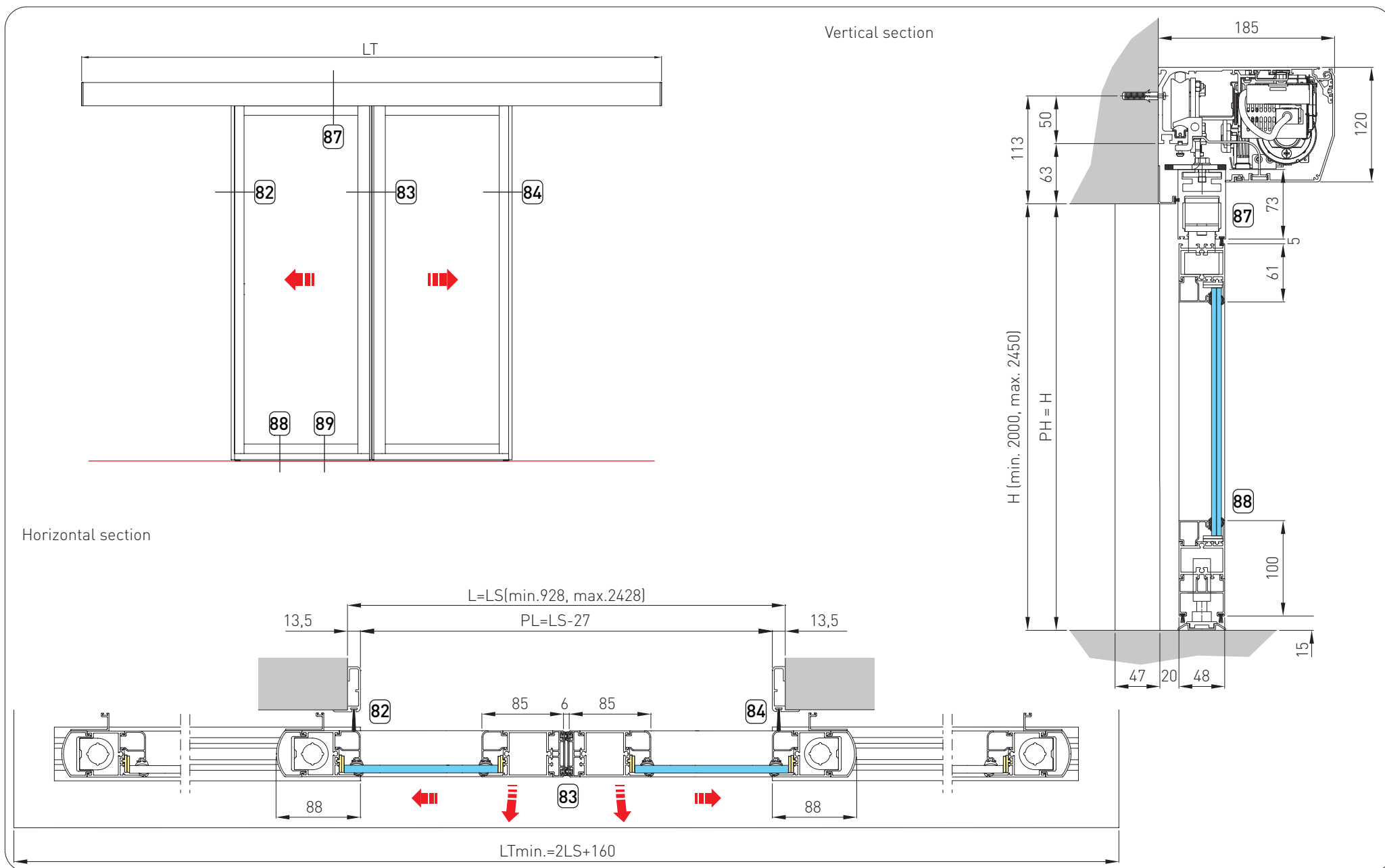


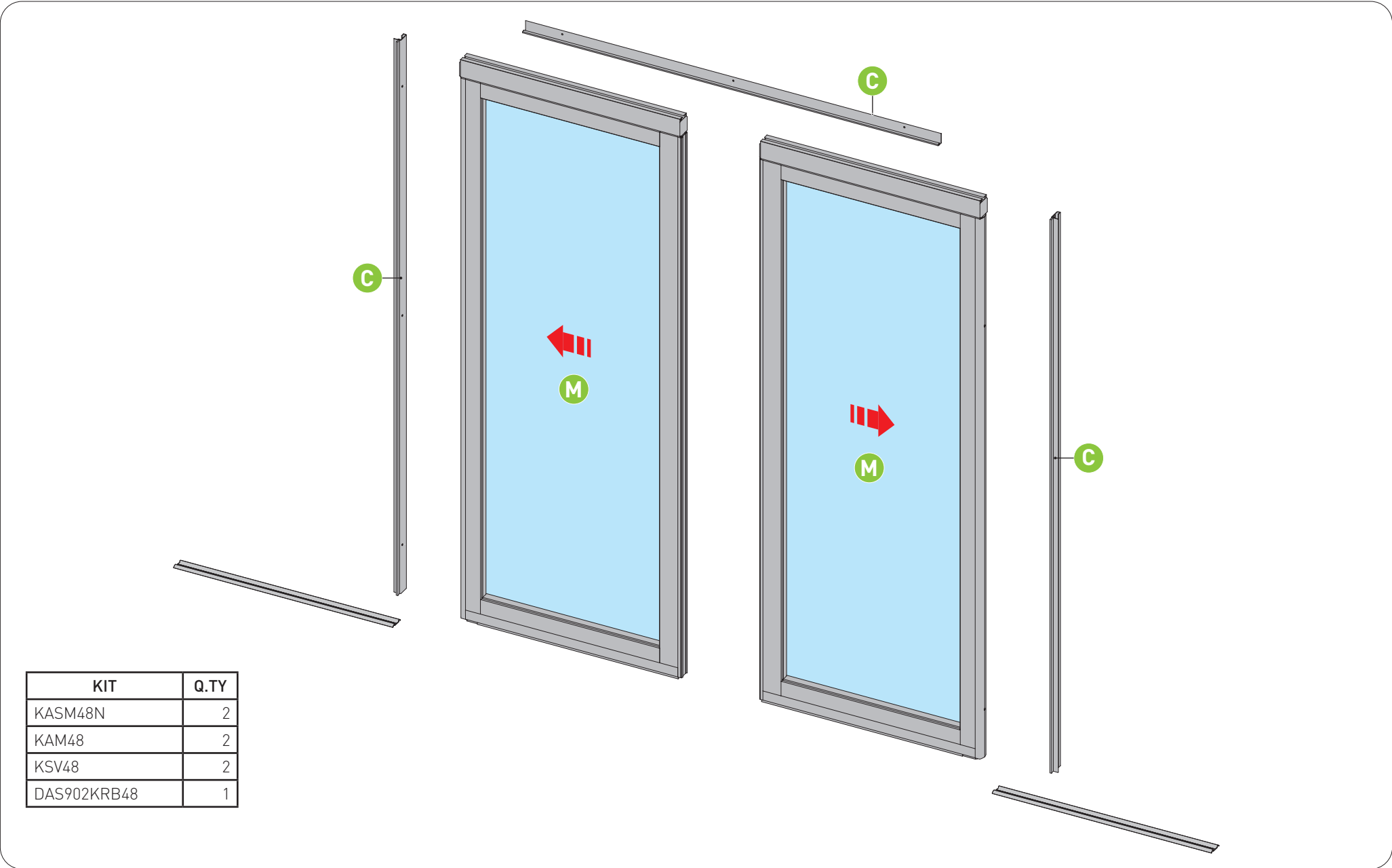
Ditec DAS107PLUS



9. Vertical and horizontal section of two moving door wings RBO

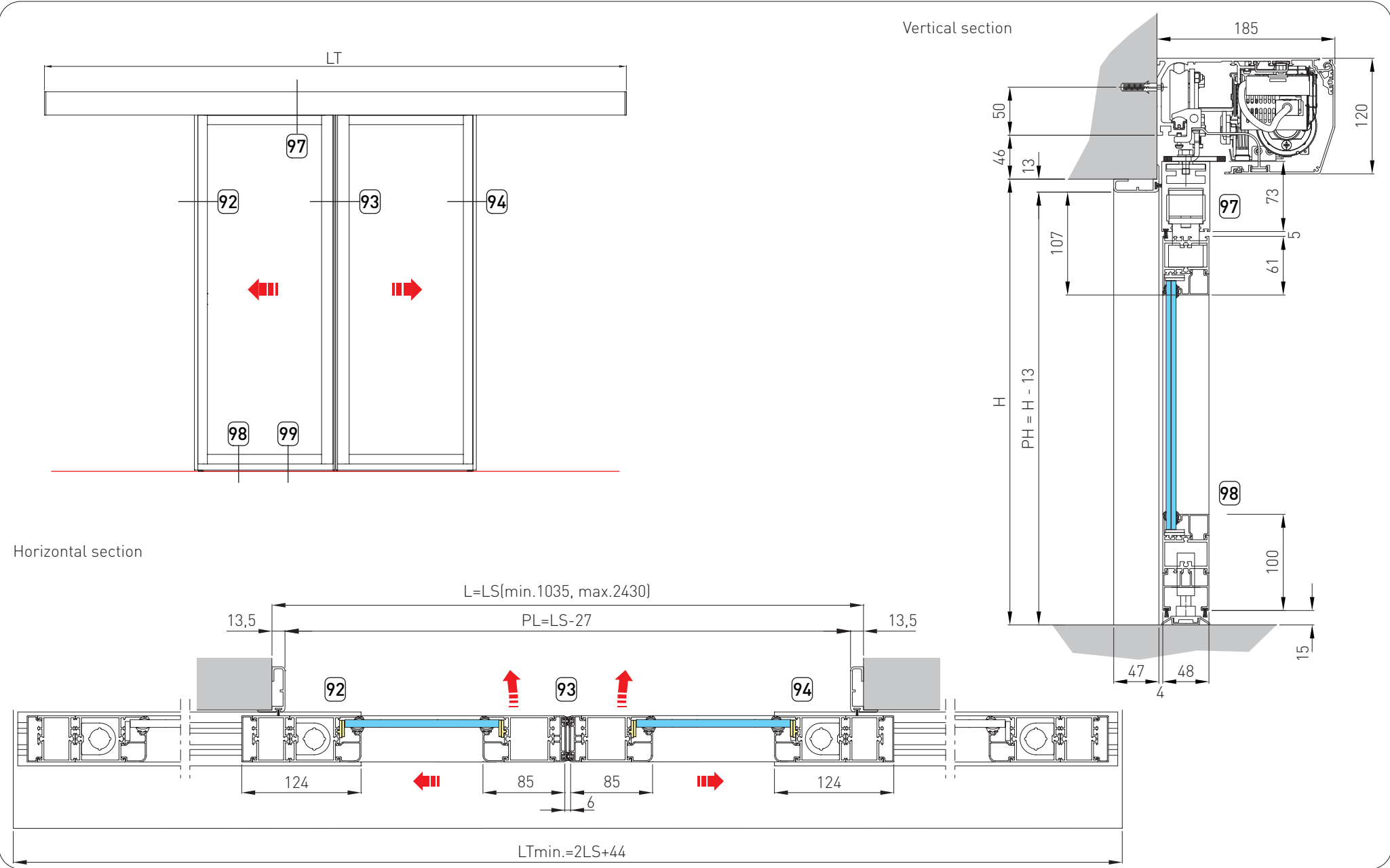
T16

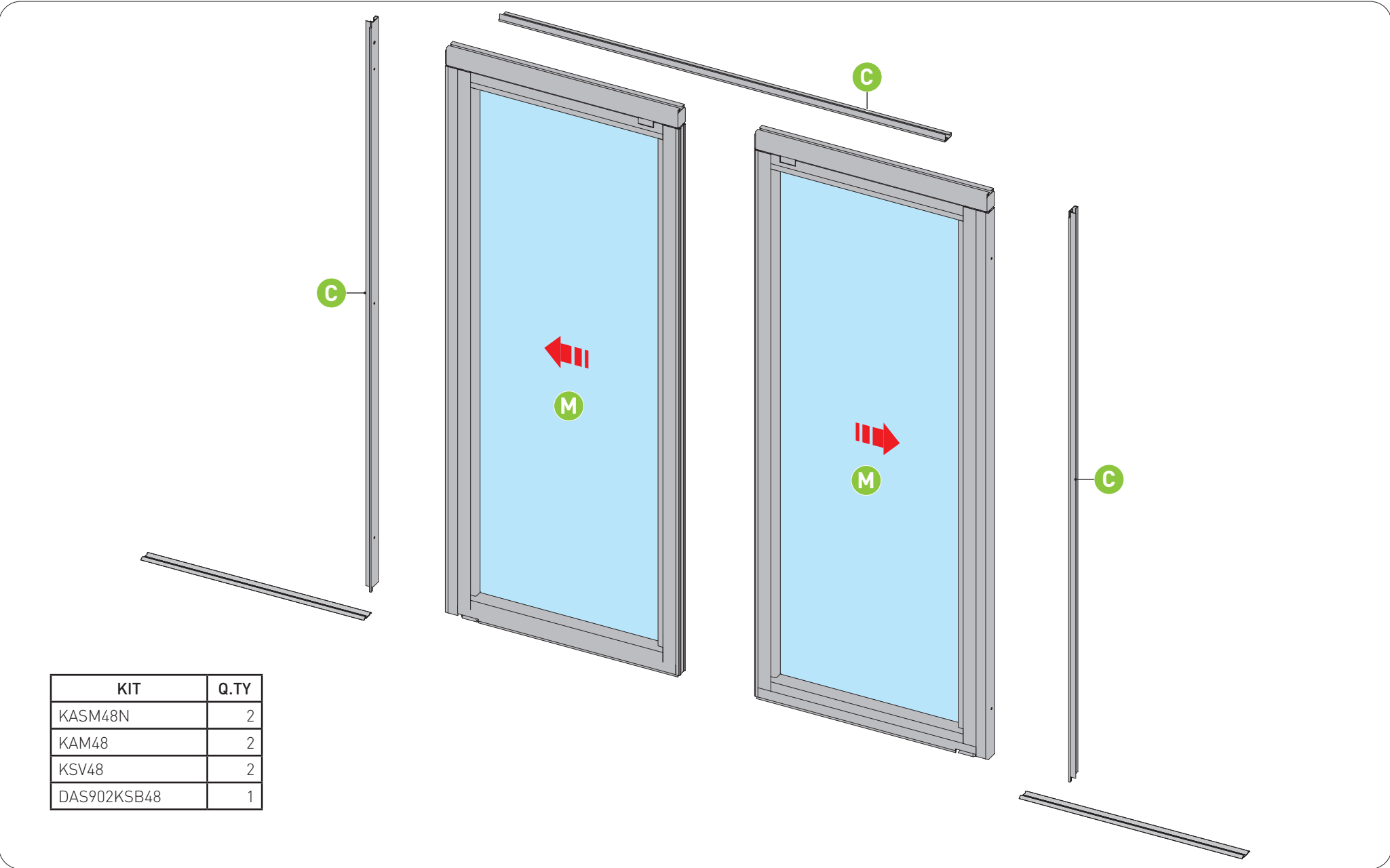




10. Vertical and horizontal section of two moving door wings SB0

T18

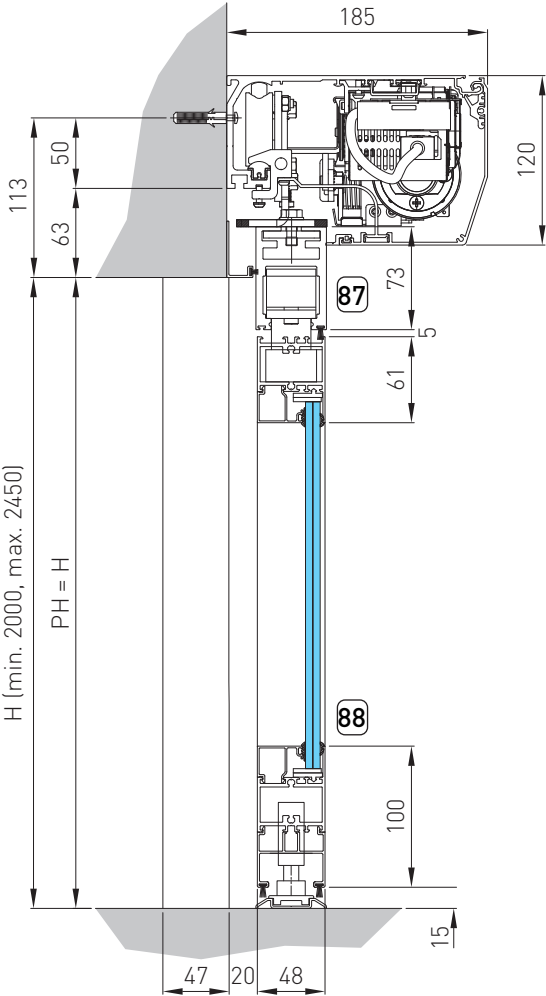




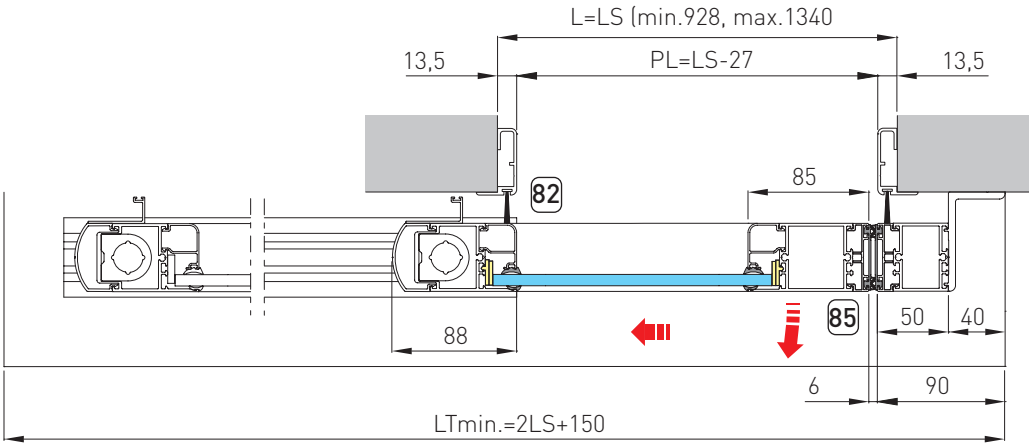
11. Vertical and horizontal section of one moving door wing with left-hand opening RB0

T20

Vertical section

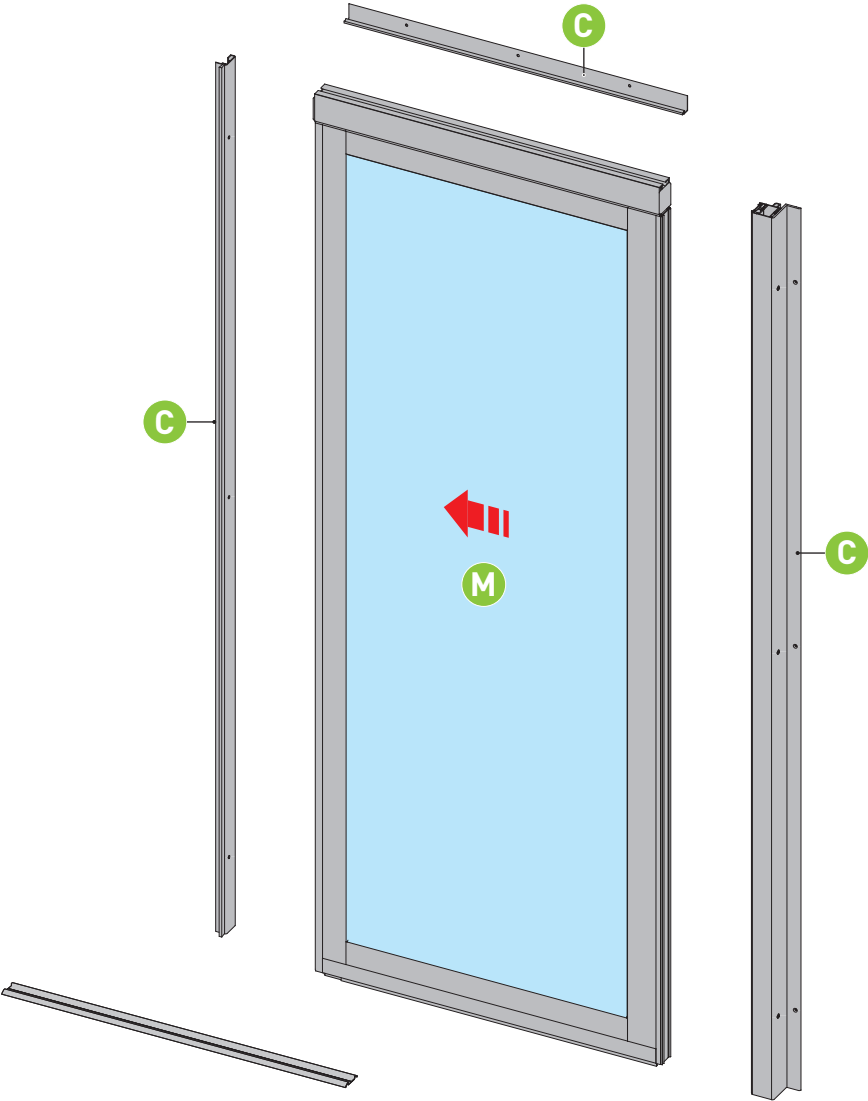


Horizontal section



11.1 Exploded diagram of one moving door wing with left-hand opening RBO

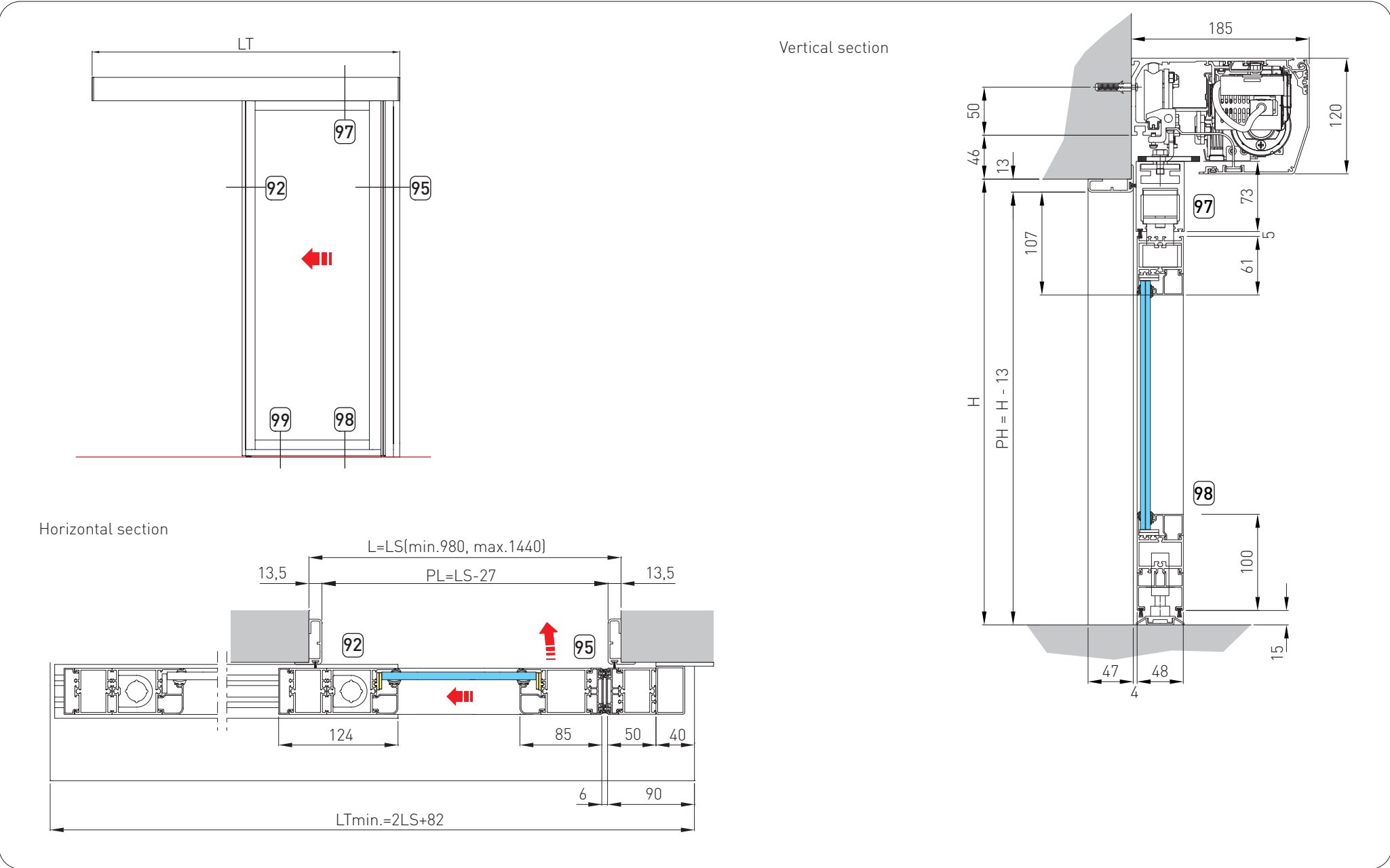
T21



KIT	Q.TY
KASM48N	1
KC48	1
KAM48	1
KSV48	1
DAS902KRB48	1

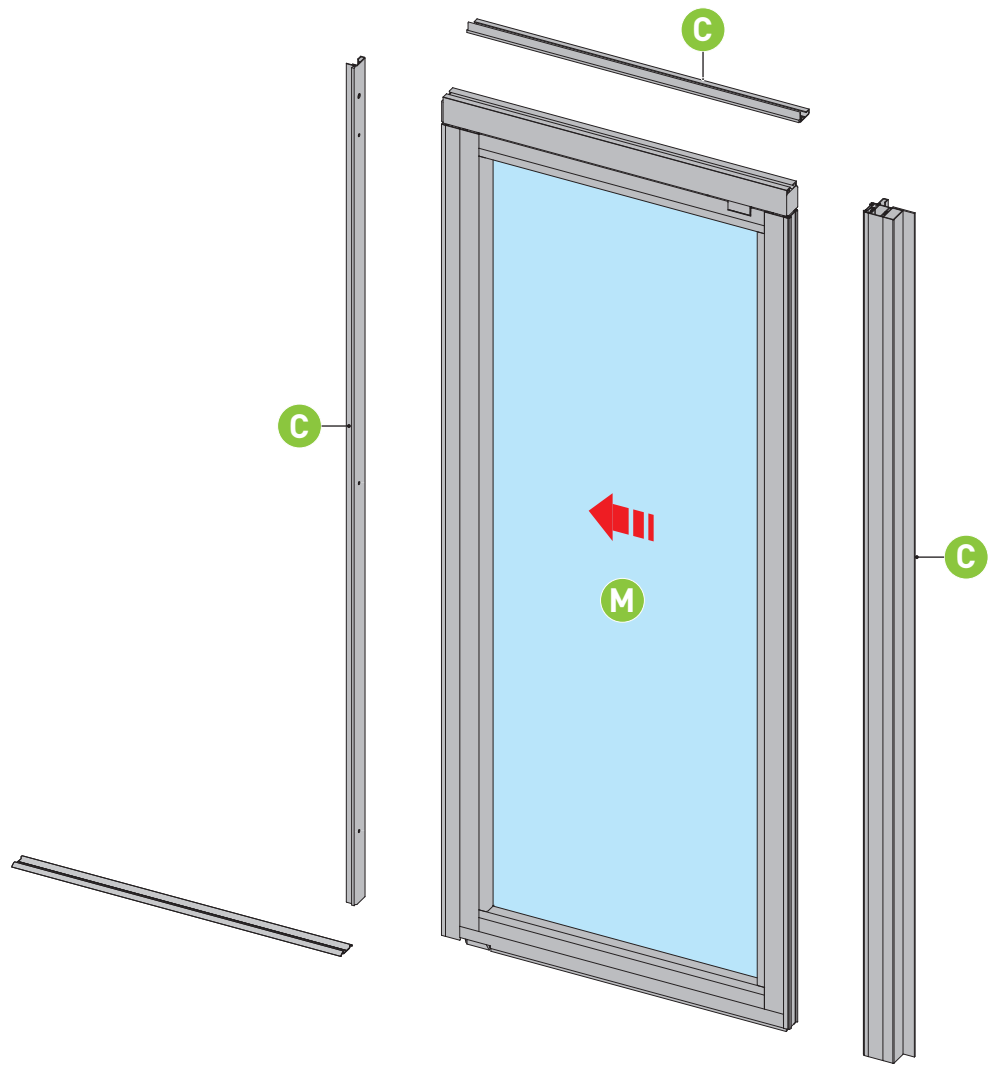
12. Vertical and horizontal section of one moving door wing with left-hand opening SB0

T22



12.1 Exploded diagram of one moving door wing and one fixed door wing with left-hand opening SBO

T23

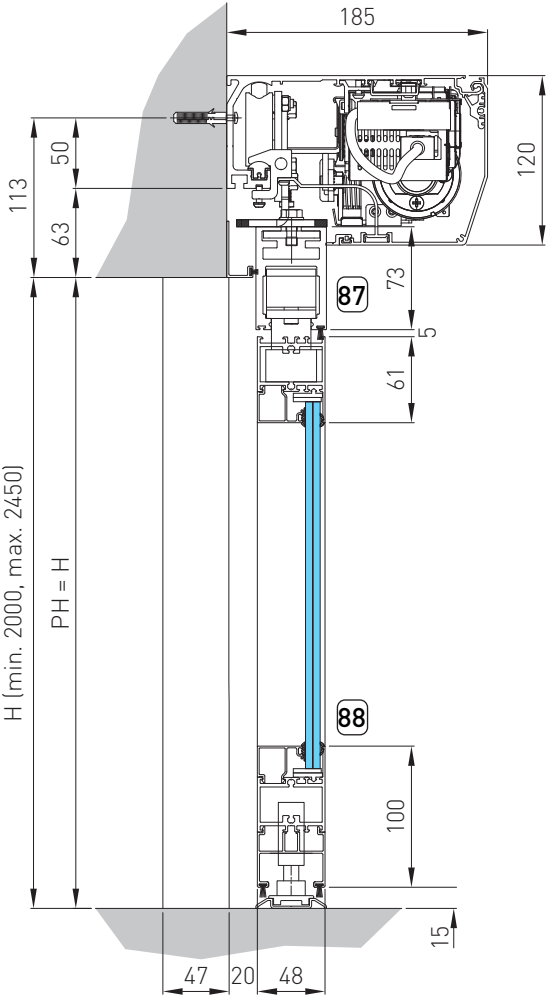


KIT	Q.TY
KASM48N	1
KC48	1
KAM48	1
KSV48	1
DAS902KSB48	1

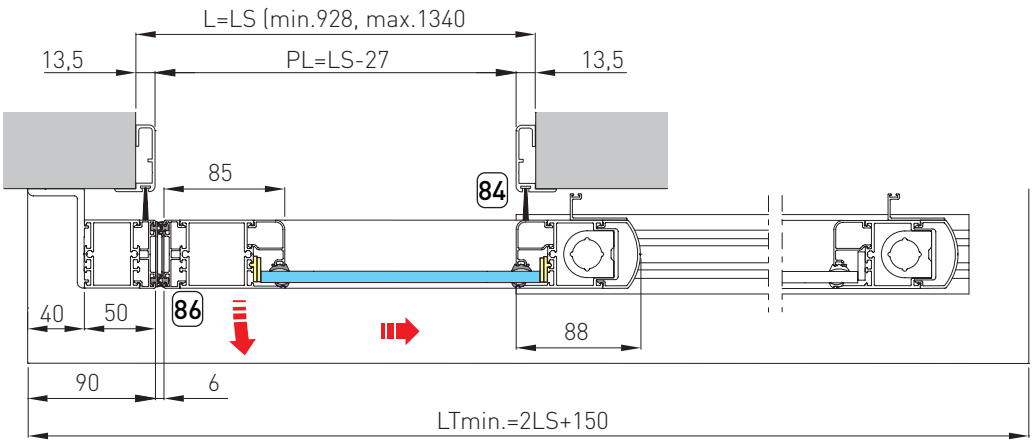
13. Vertical and horizontal section of one moving door wing with right-hand opening RBO

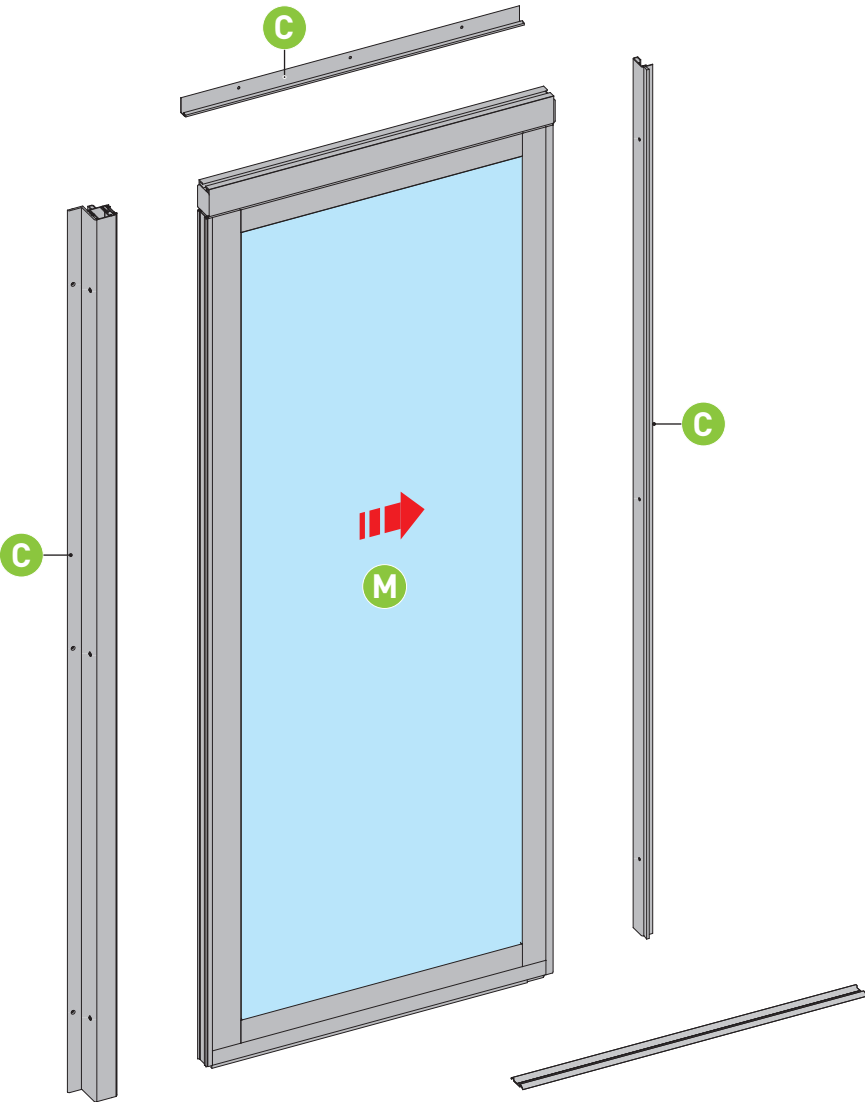
T24

Vertical section



Horizontal section

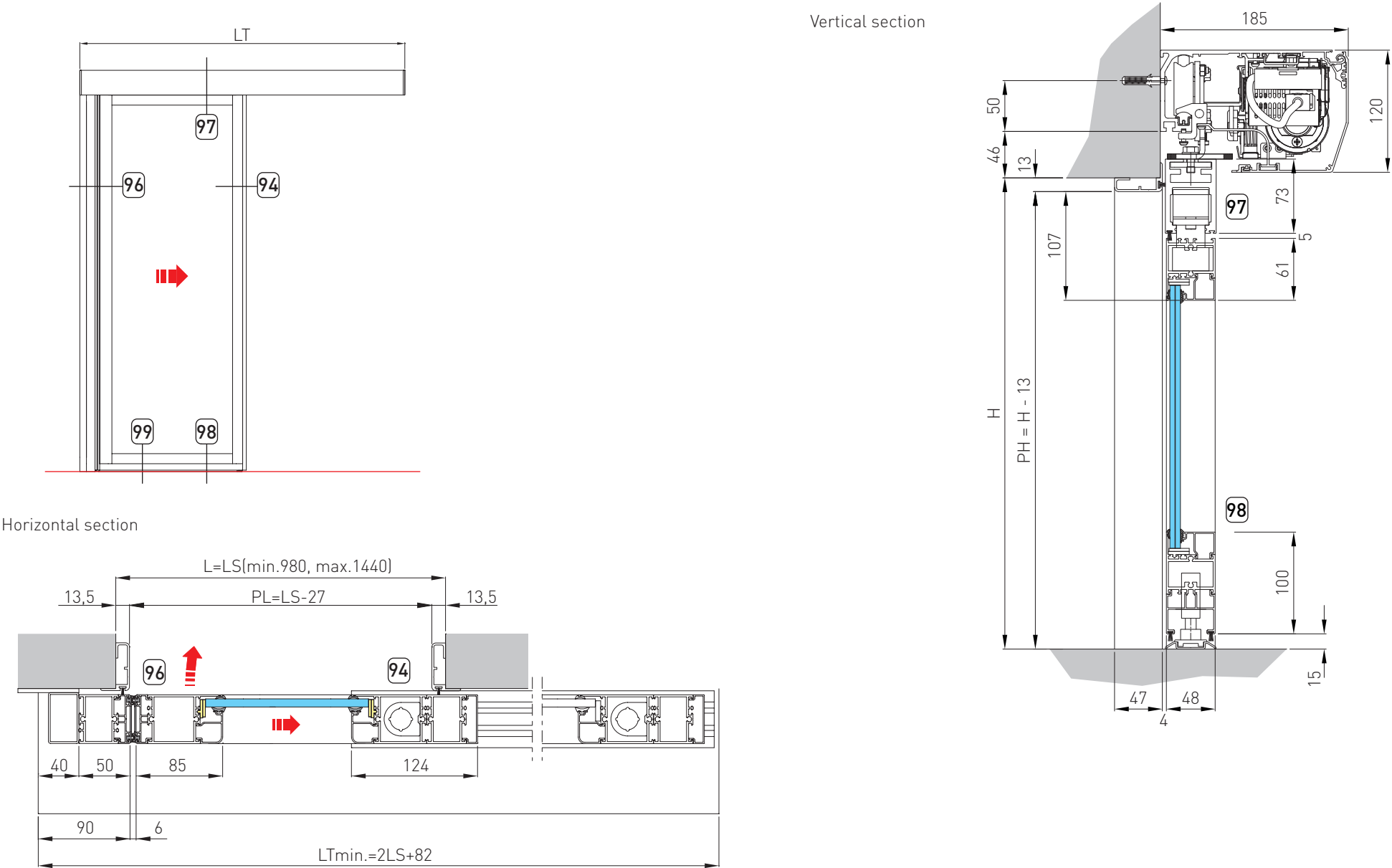


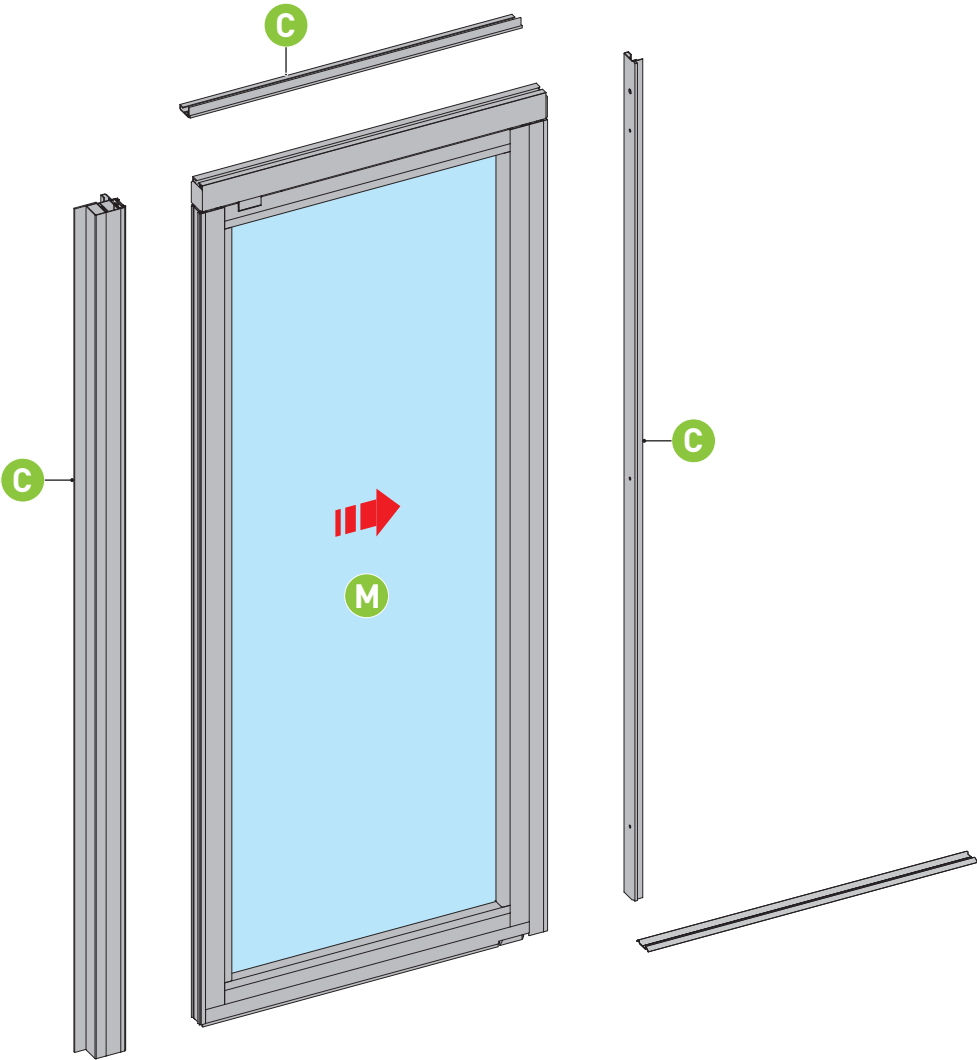


KIT	Q.TY
KASM48N	1
KC48	1
KAM48	1
KSV48	1
DAS902KRB48	1

14. Vertical and horizontal section of one moving door wing with right-hand opening SBO

T26

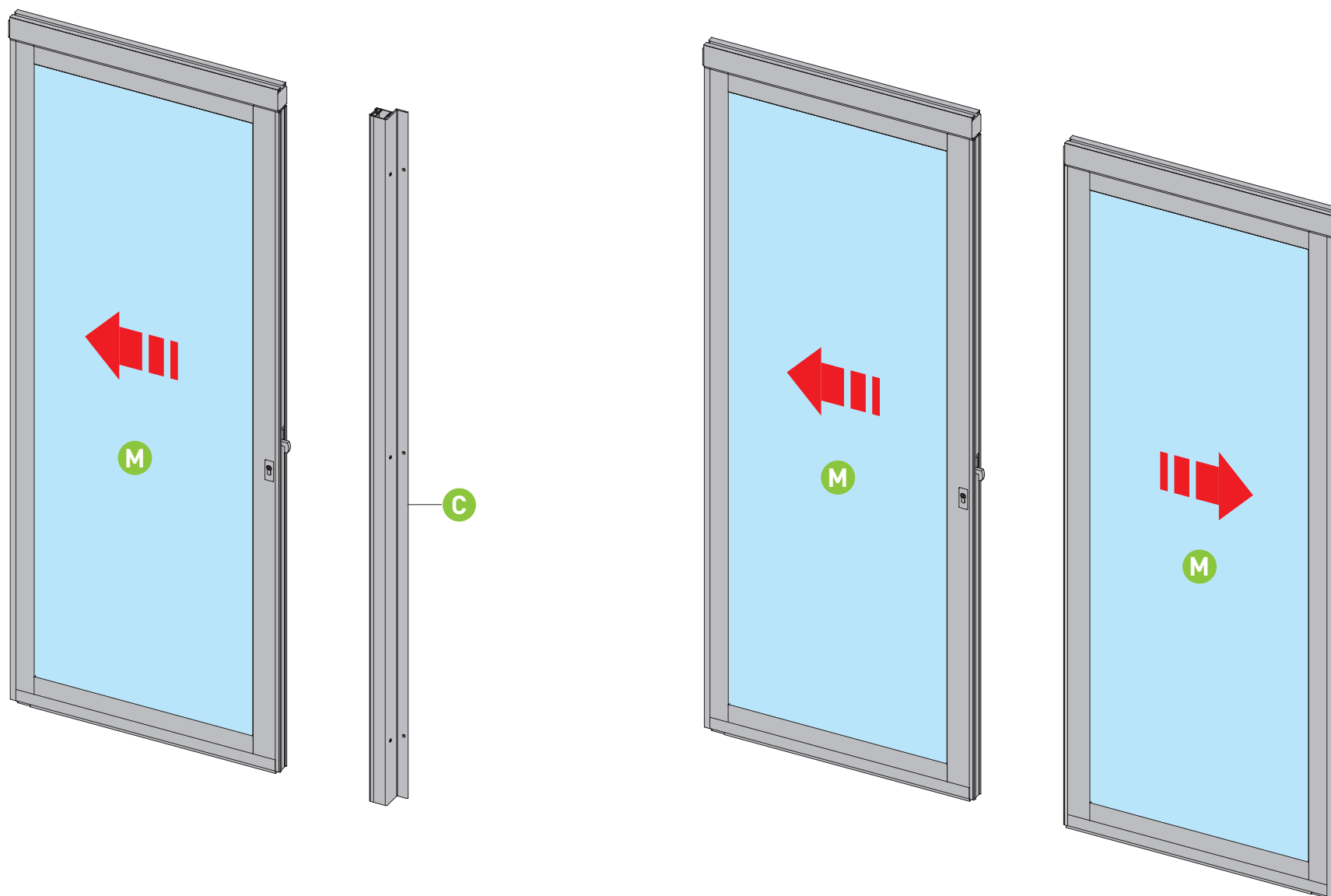




KIT	Q.TY
KASM48N	1
KC48	1
KAM48	1
KSV48	1
DAS902KSB48	1

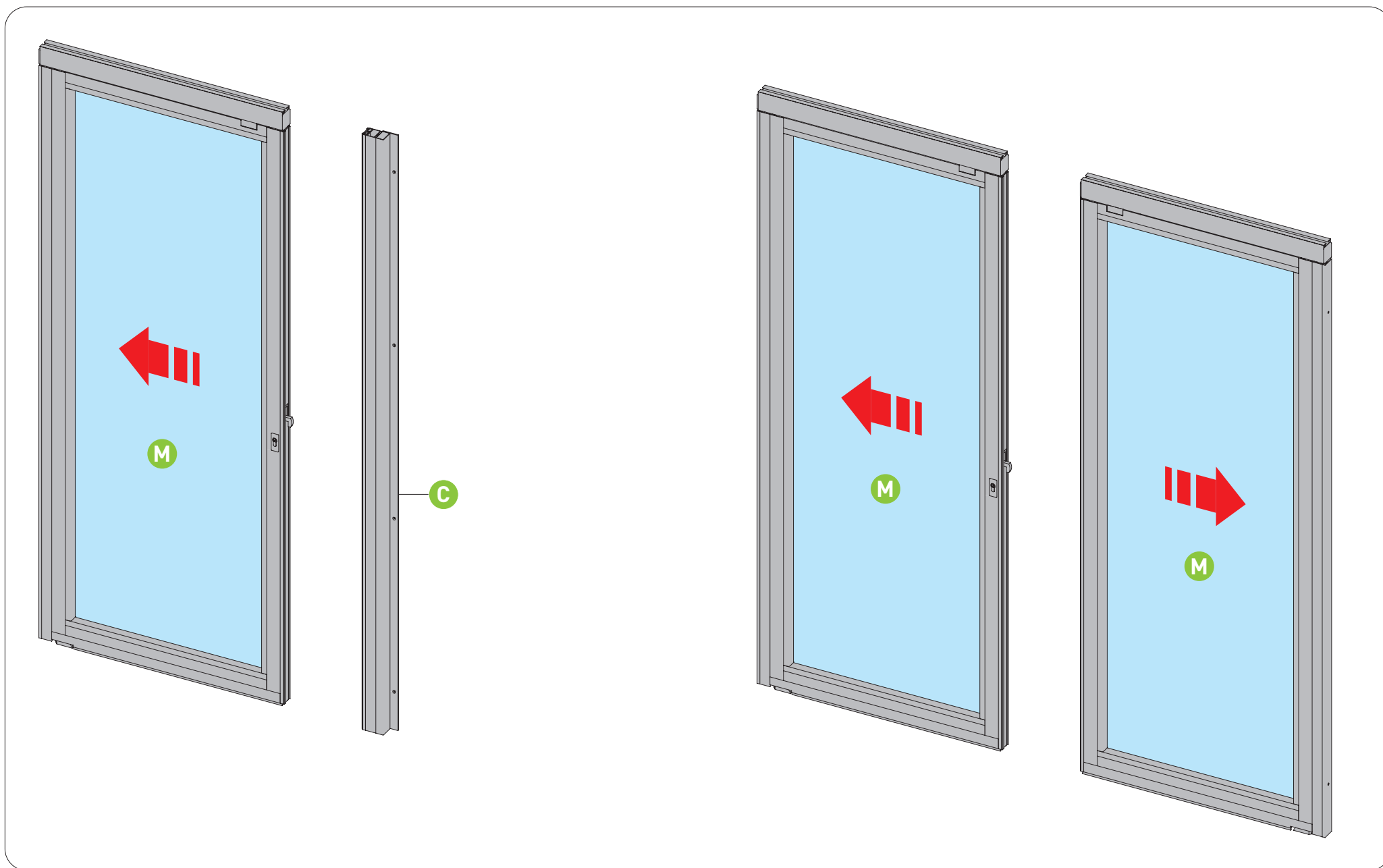
15. Exploded diagram of mechanical hook bolt lock for one or two moving wings RBO

T28

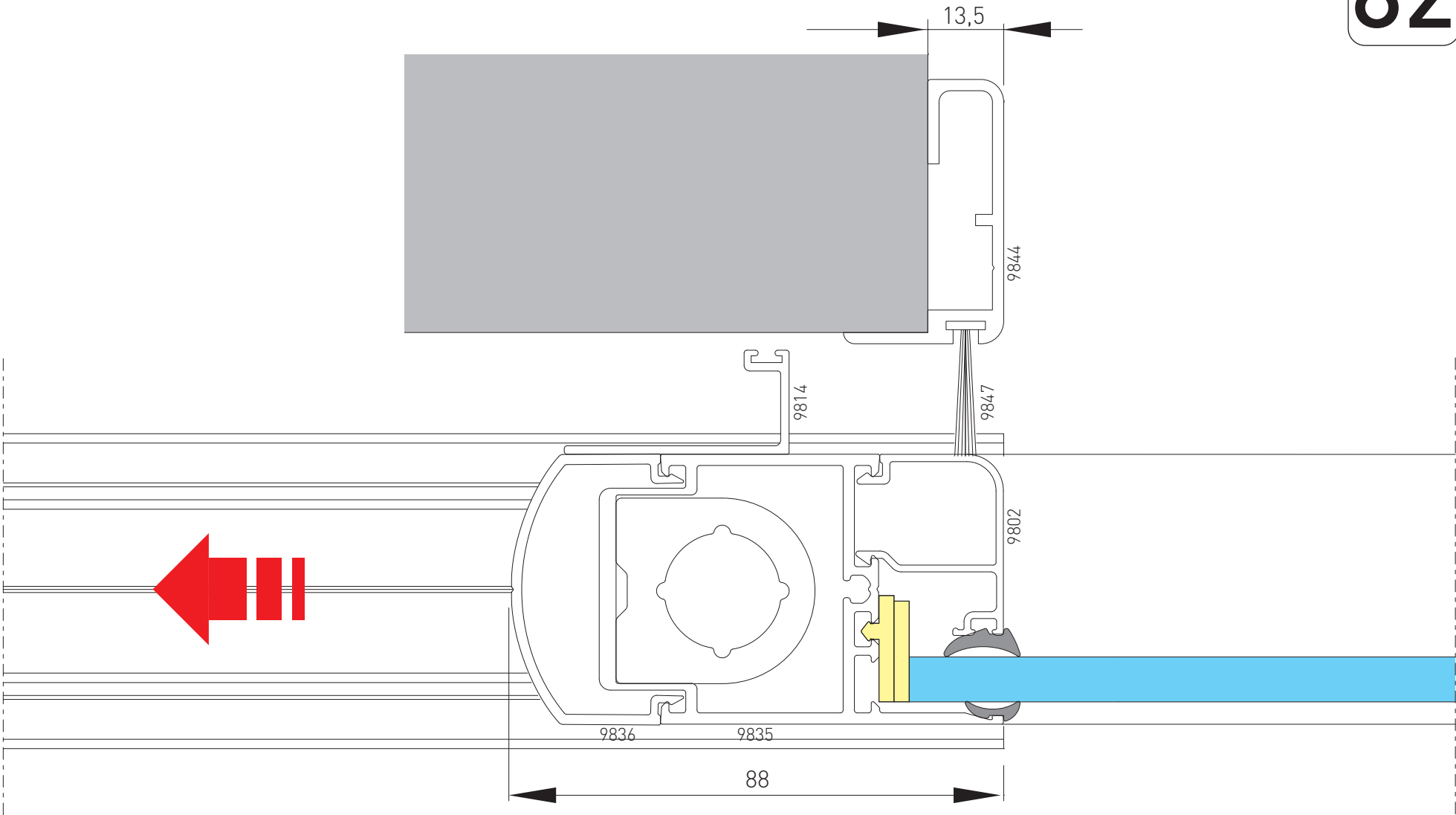


16. Exploded diagram of mechanical hook bolt lock for one or two moving wings SB0

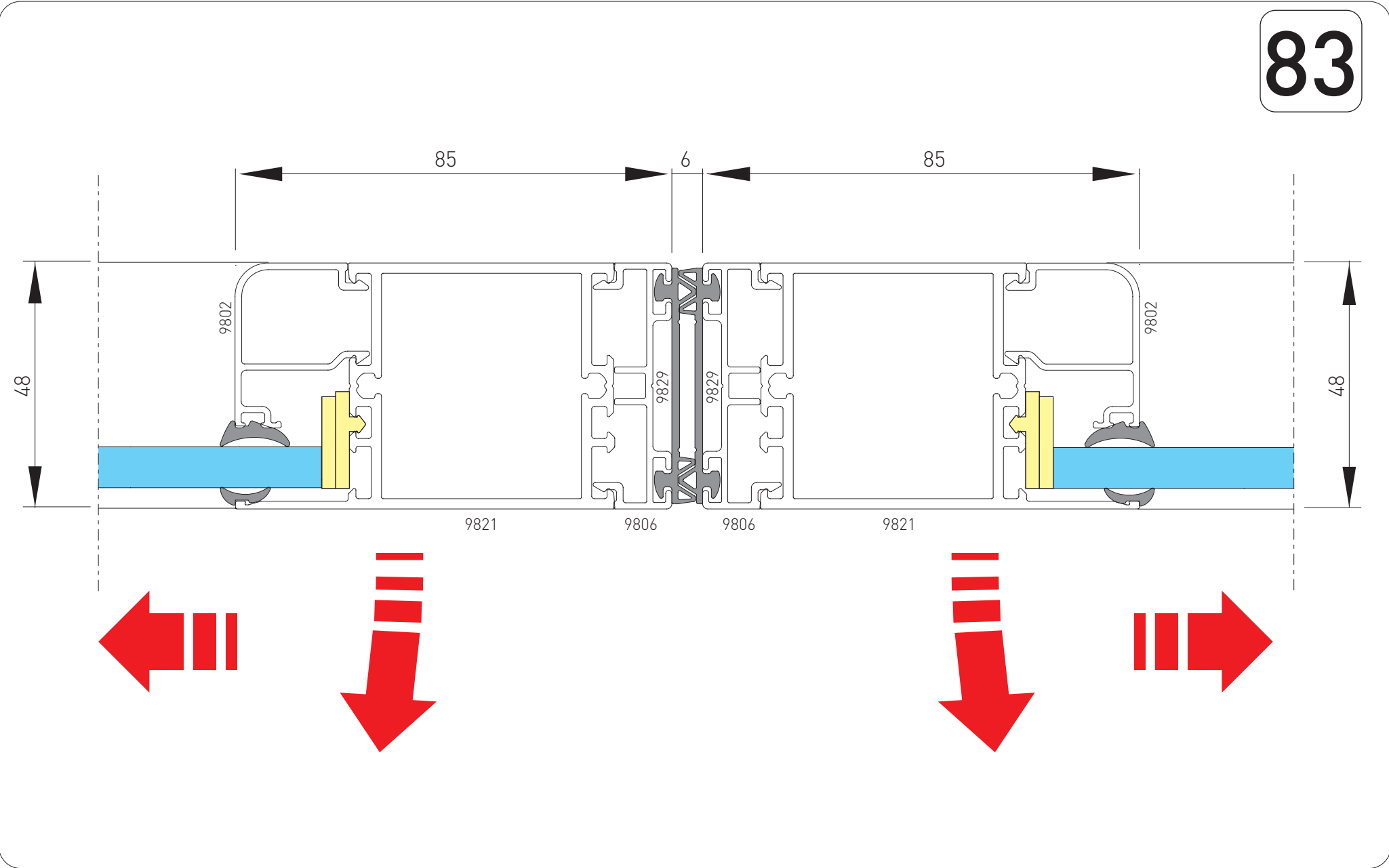
T29



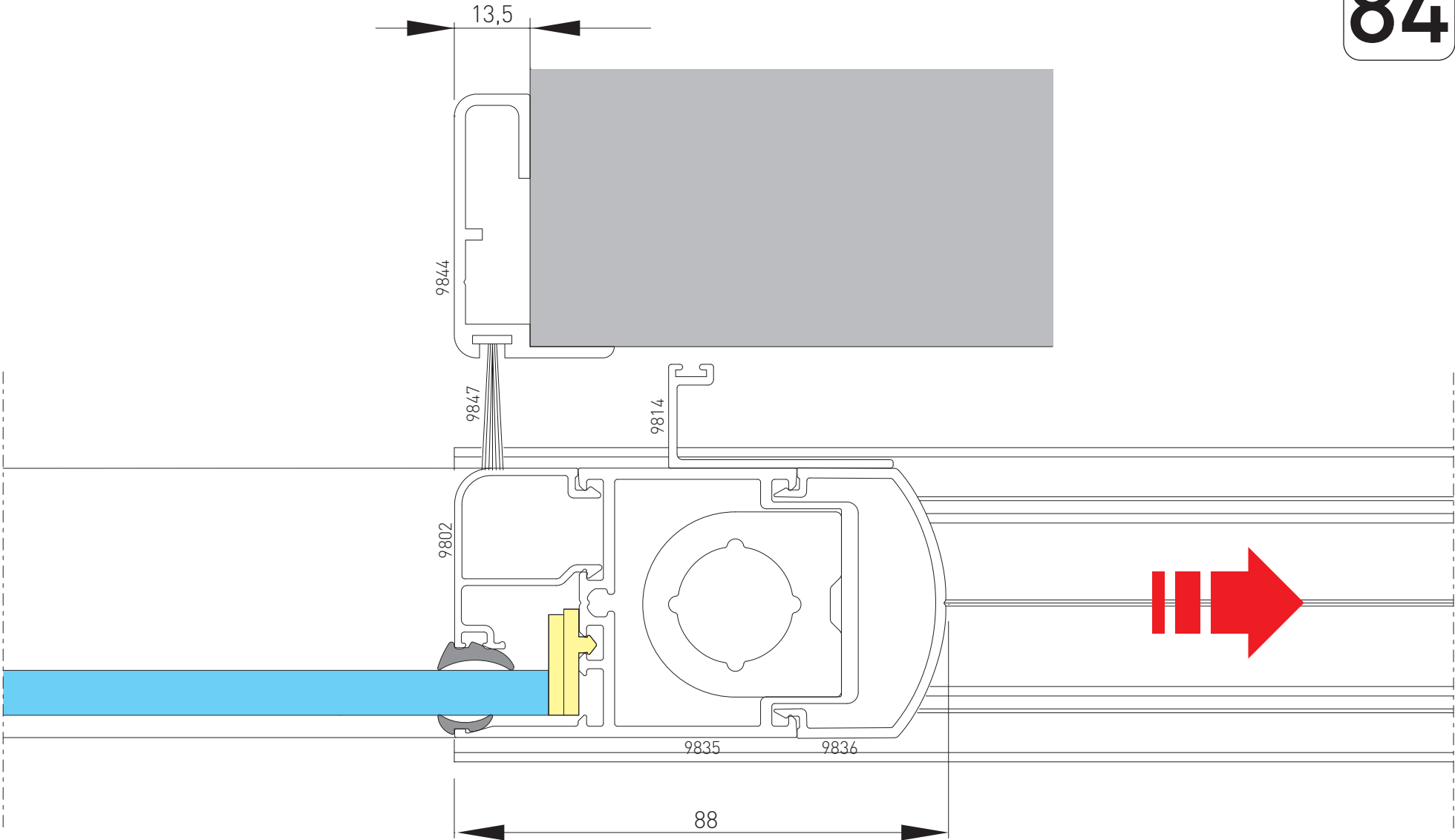
82



83



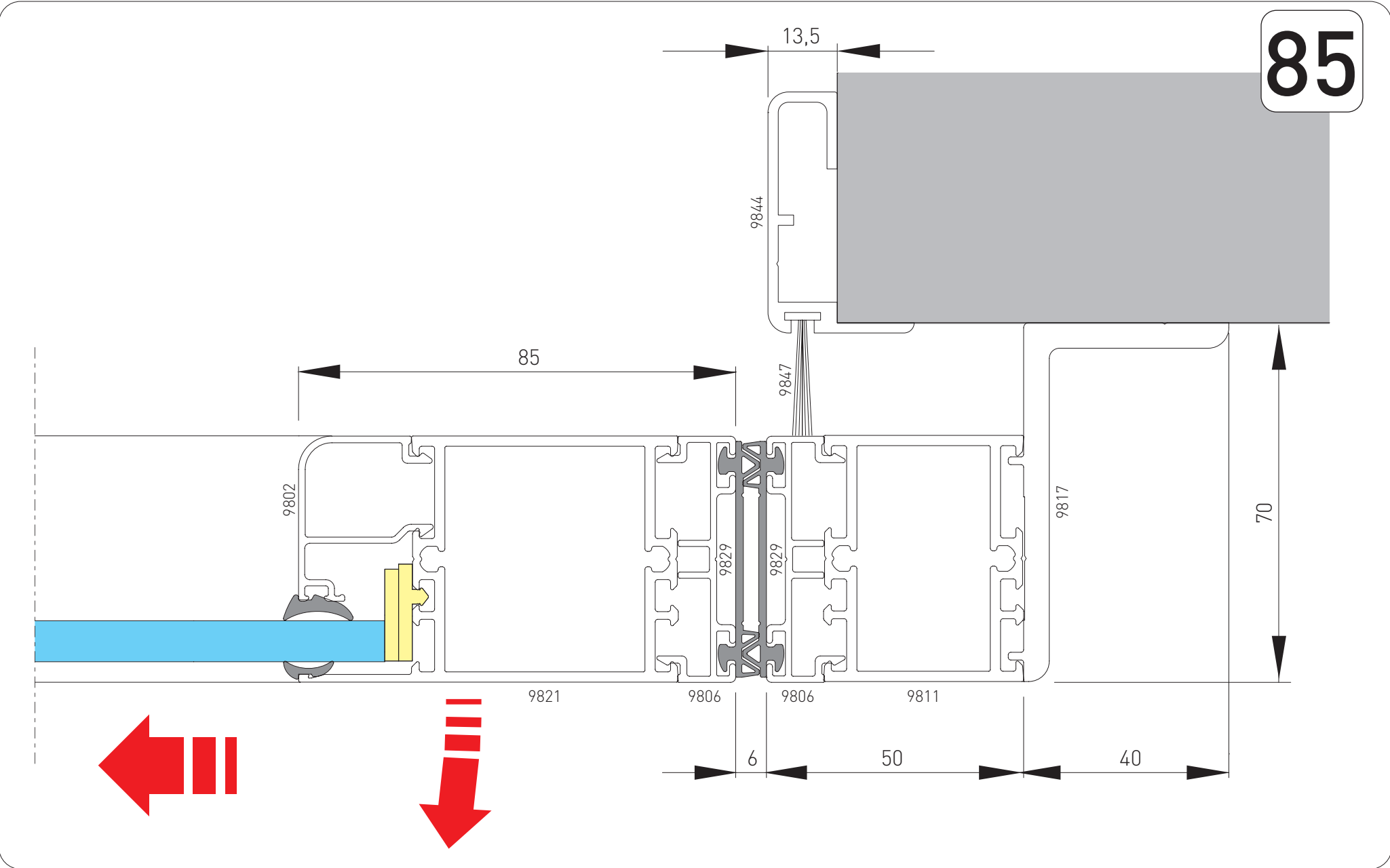
84



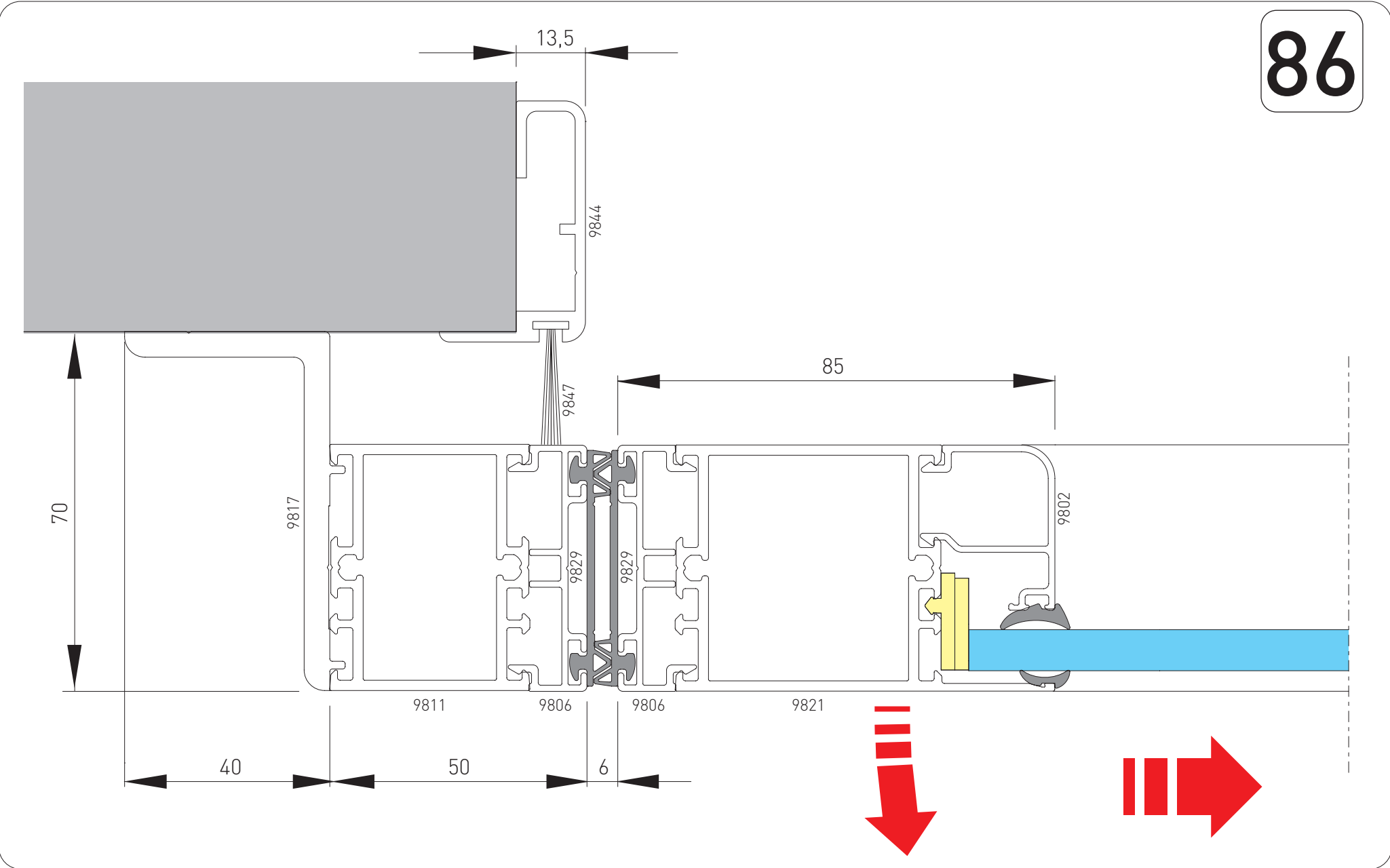
17. Technical sections

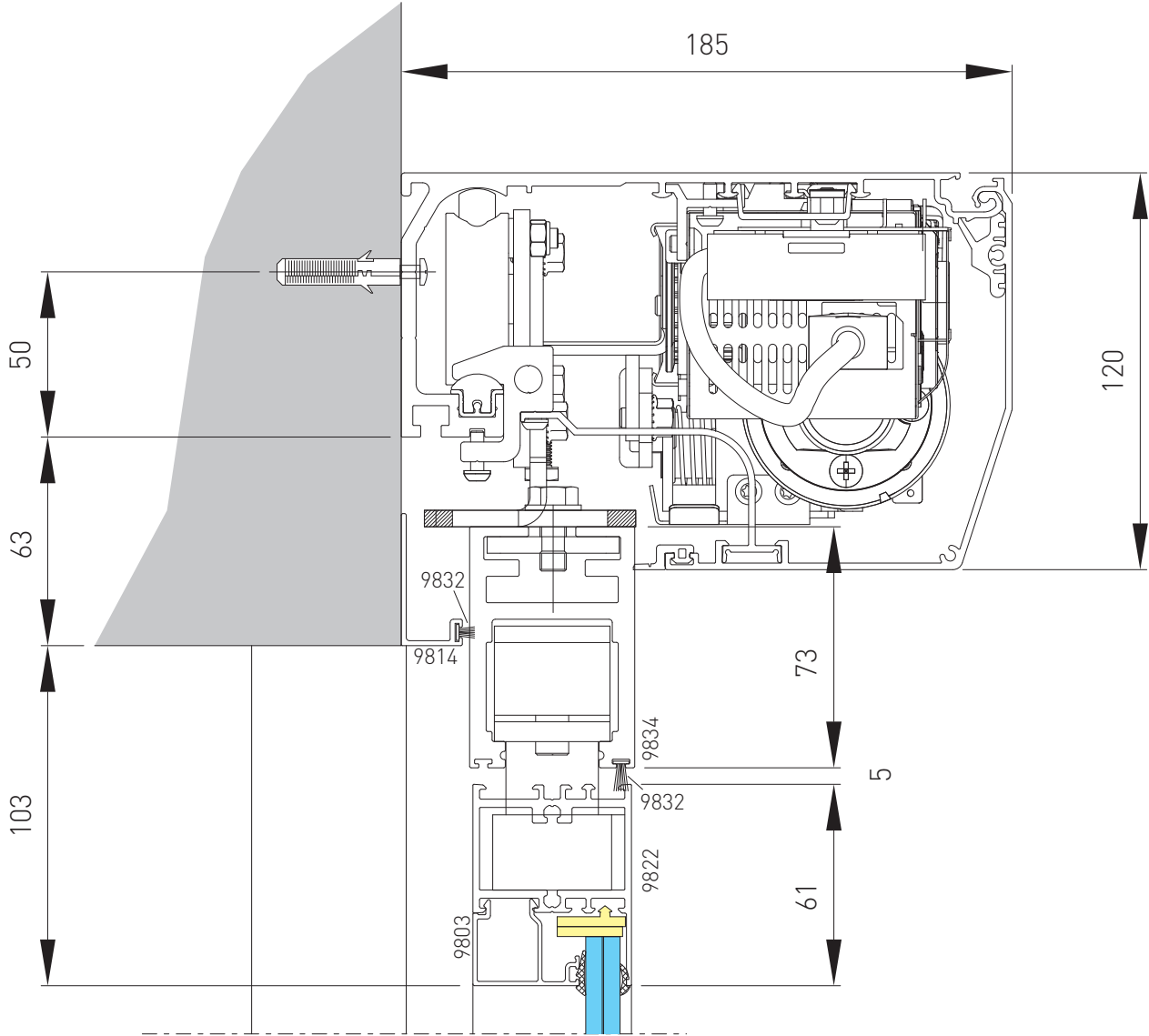
T33

Scale 1:1

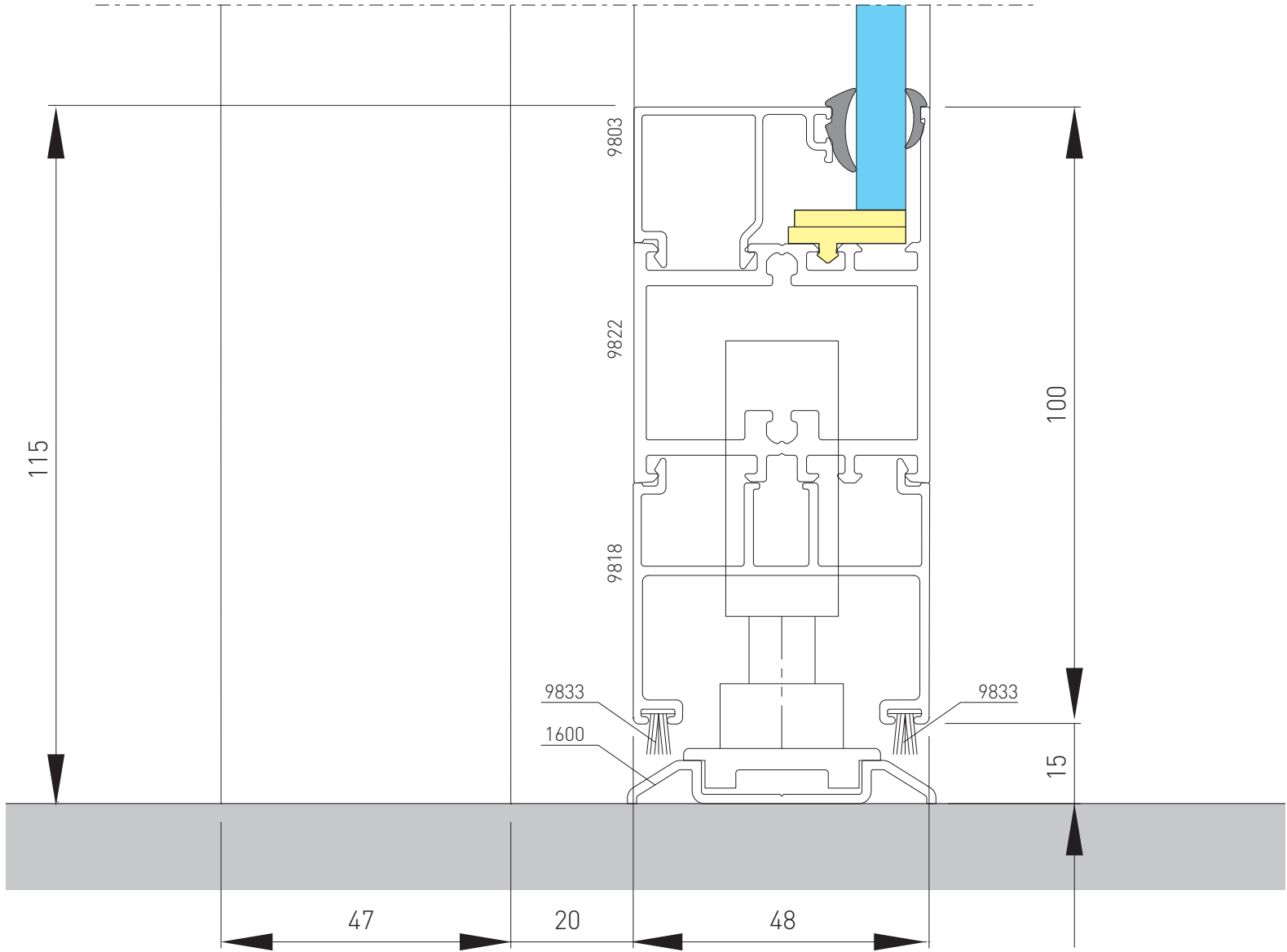


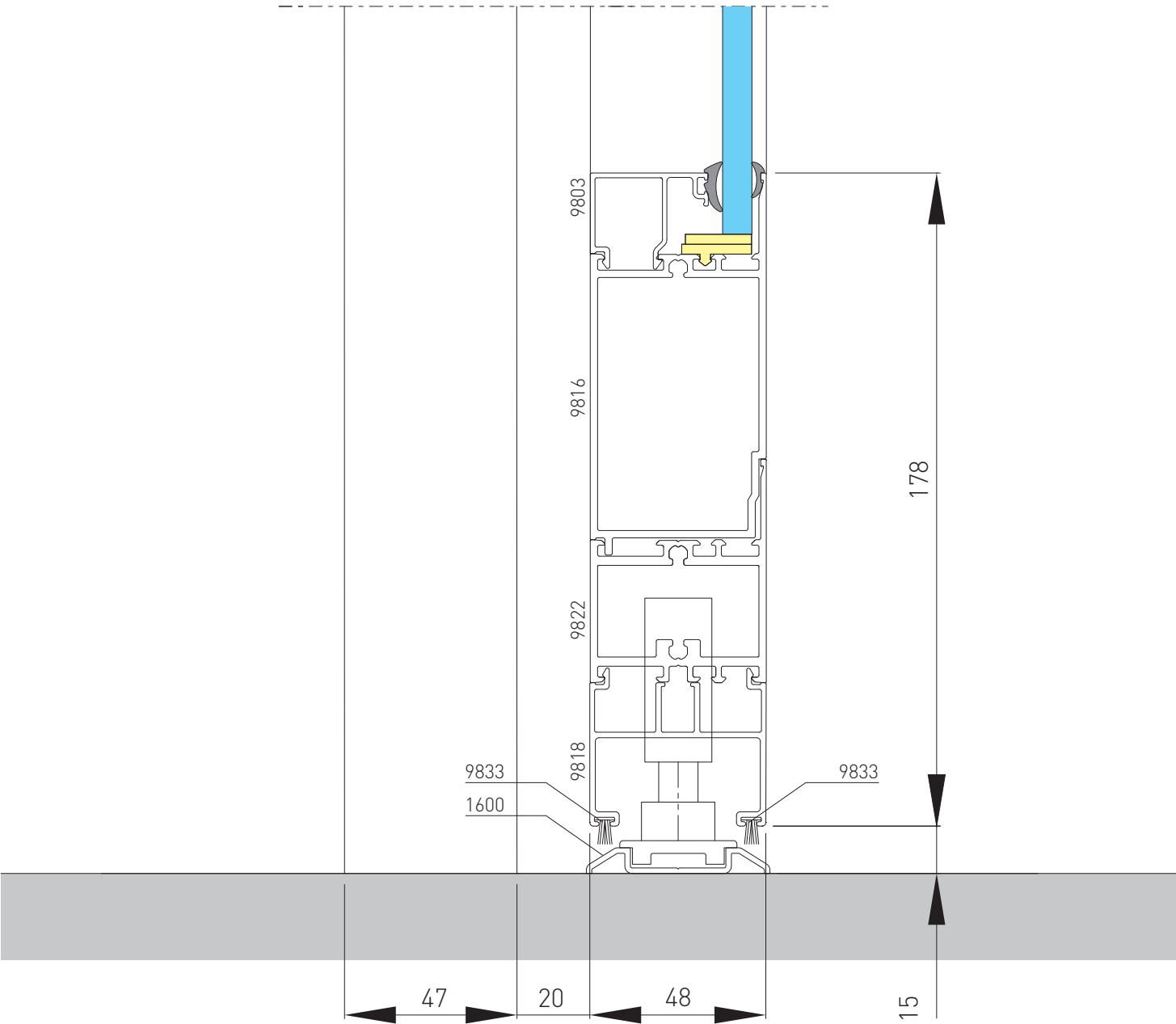
86





88



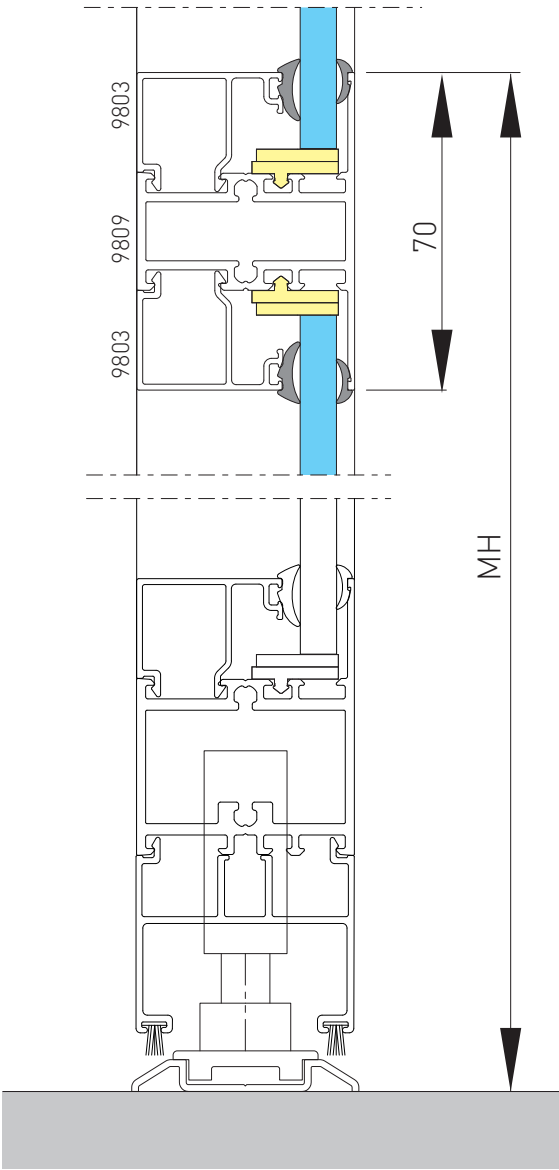
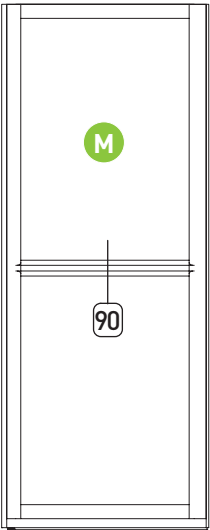


17. Technical sections

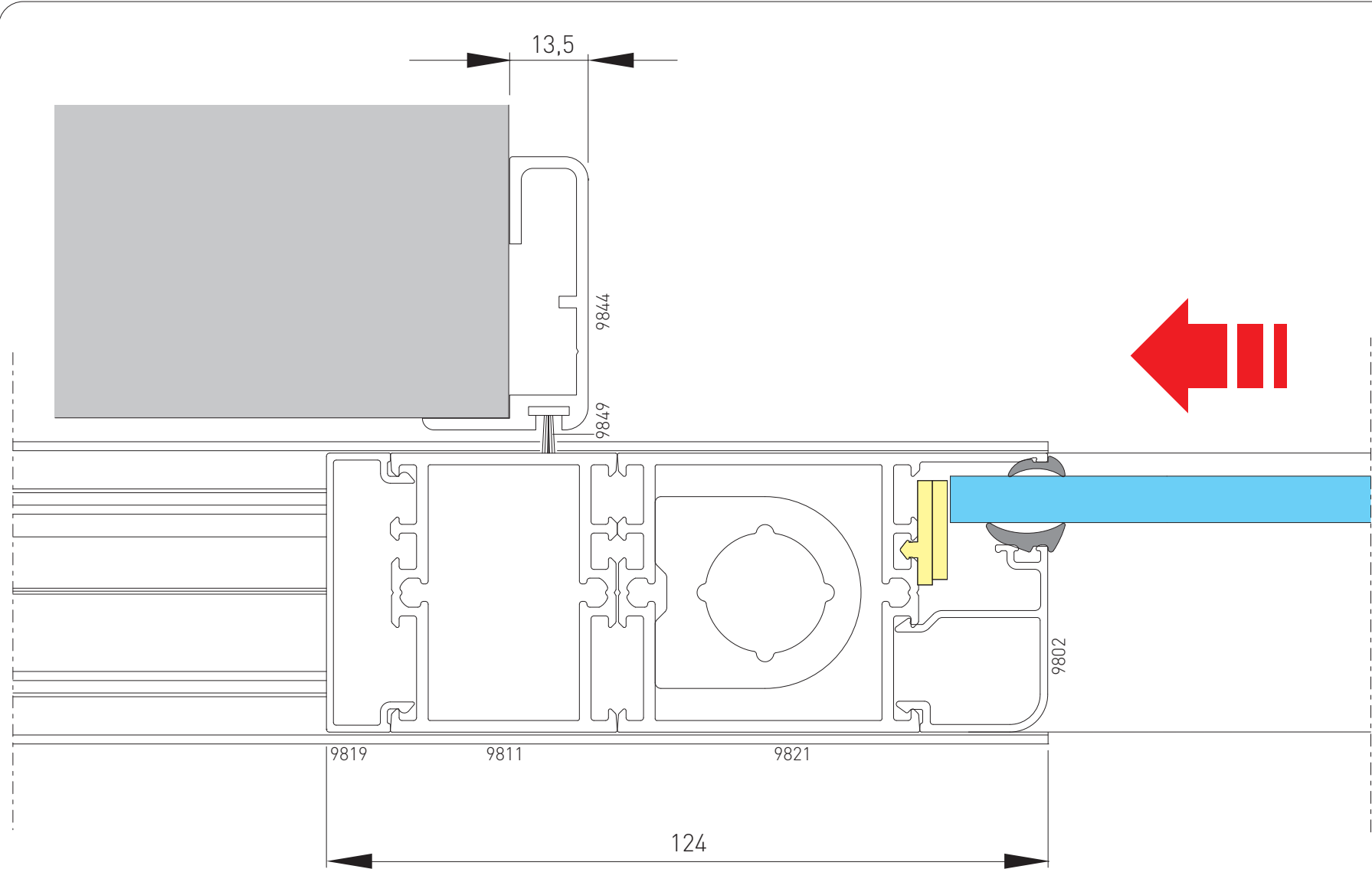
T38

Out of scale

90



92

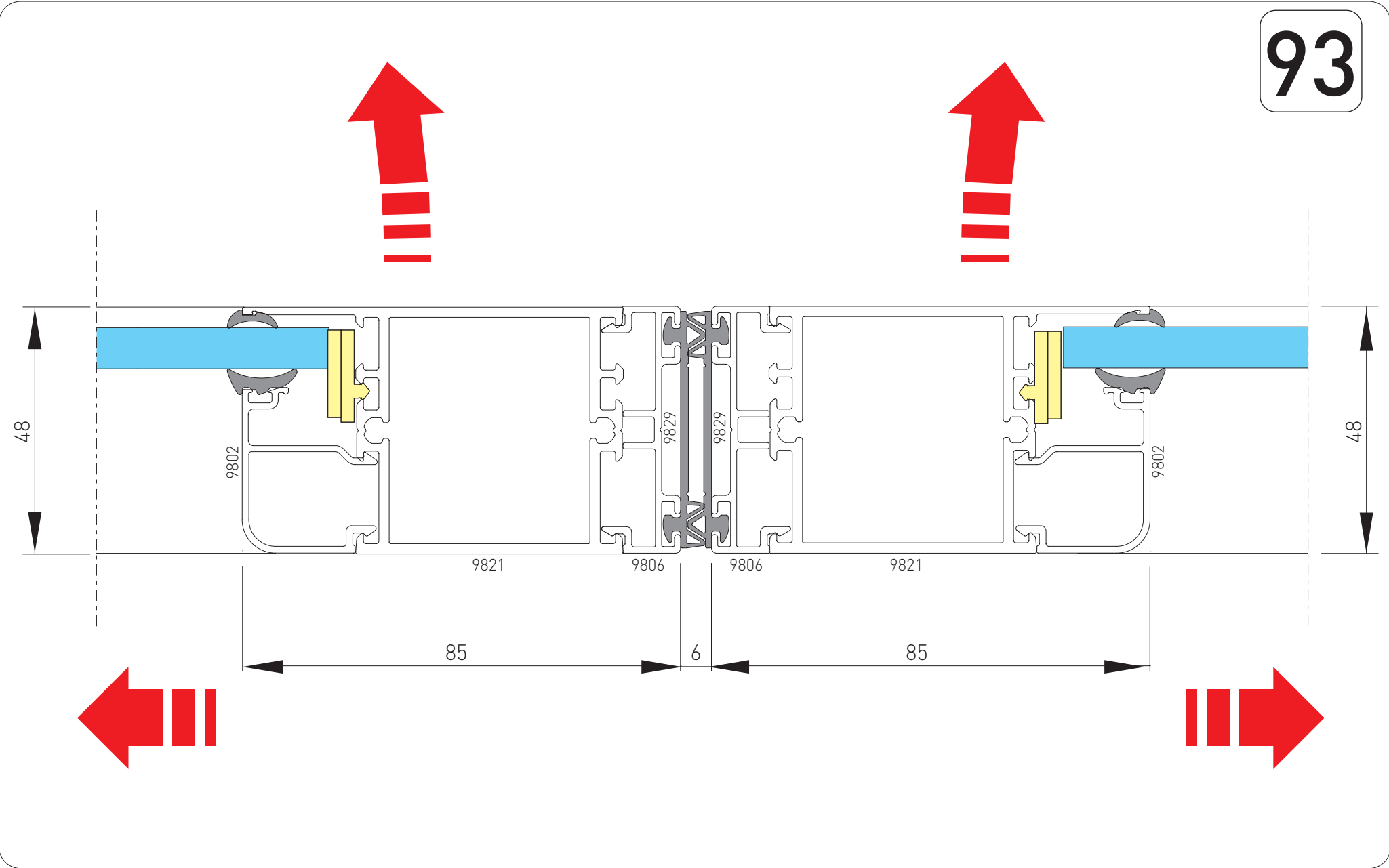


17. Technical sections

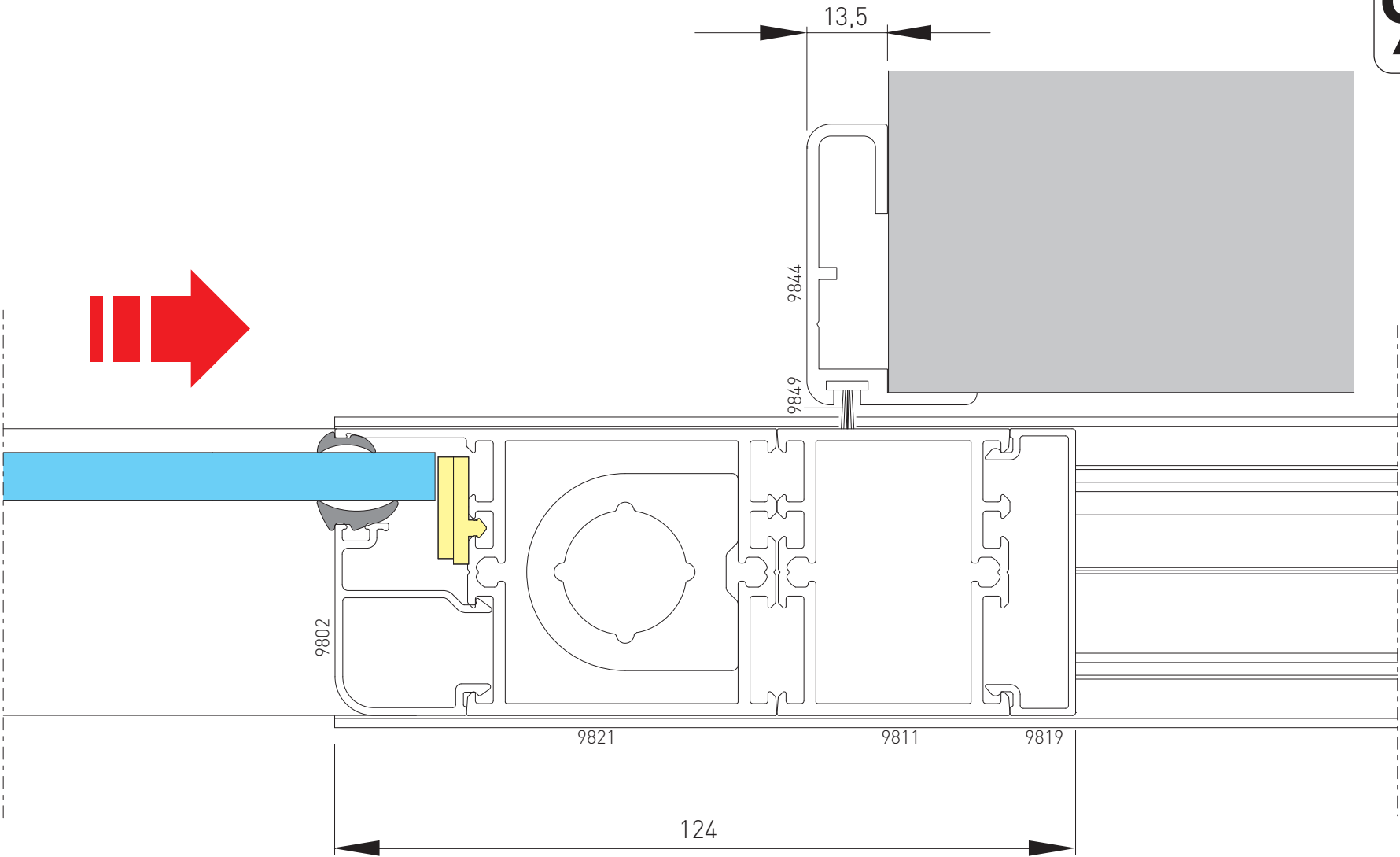
T40

Scale 1:1

93



94

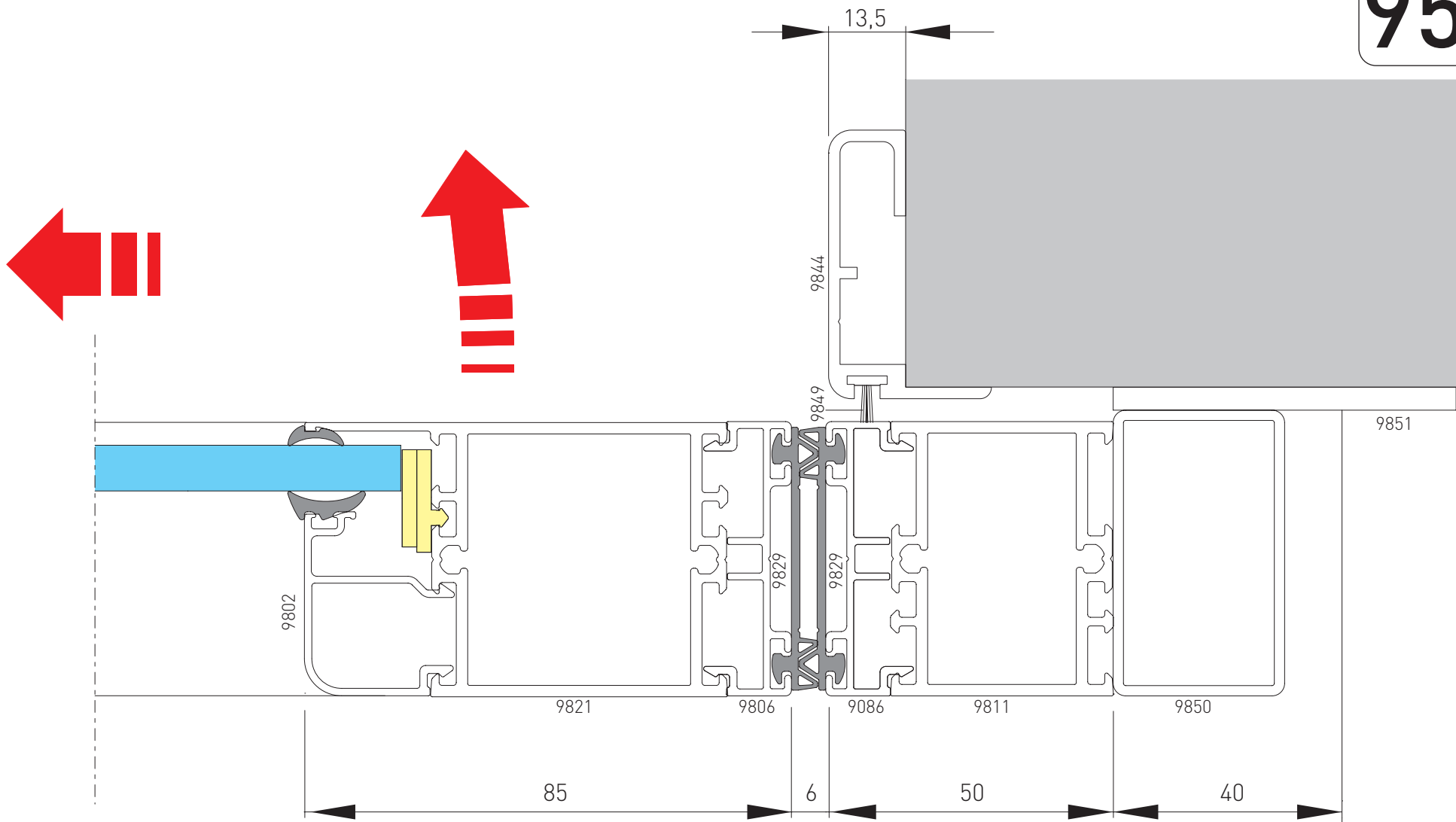


17. Technical sections

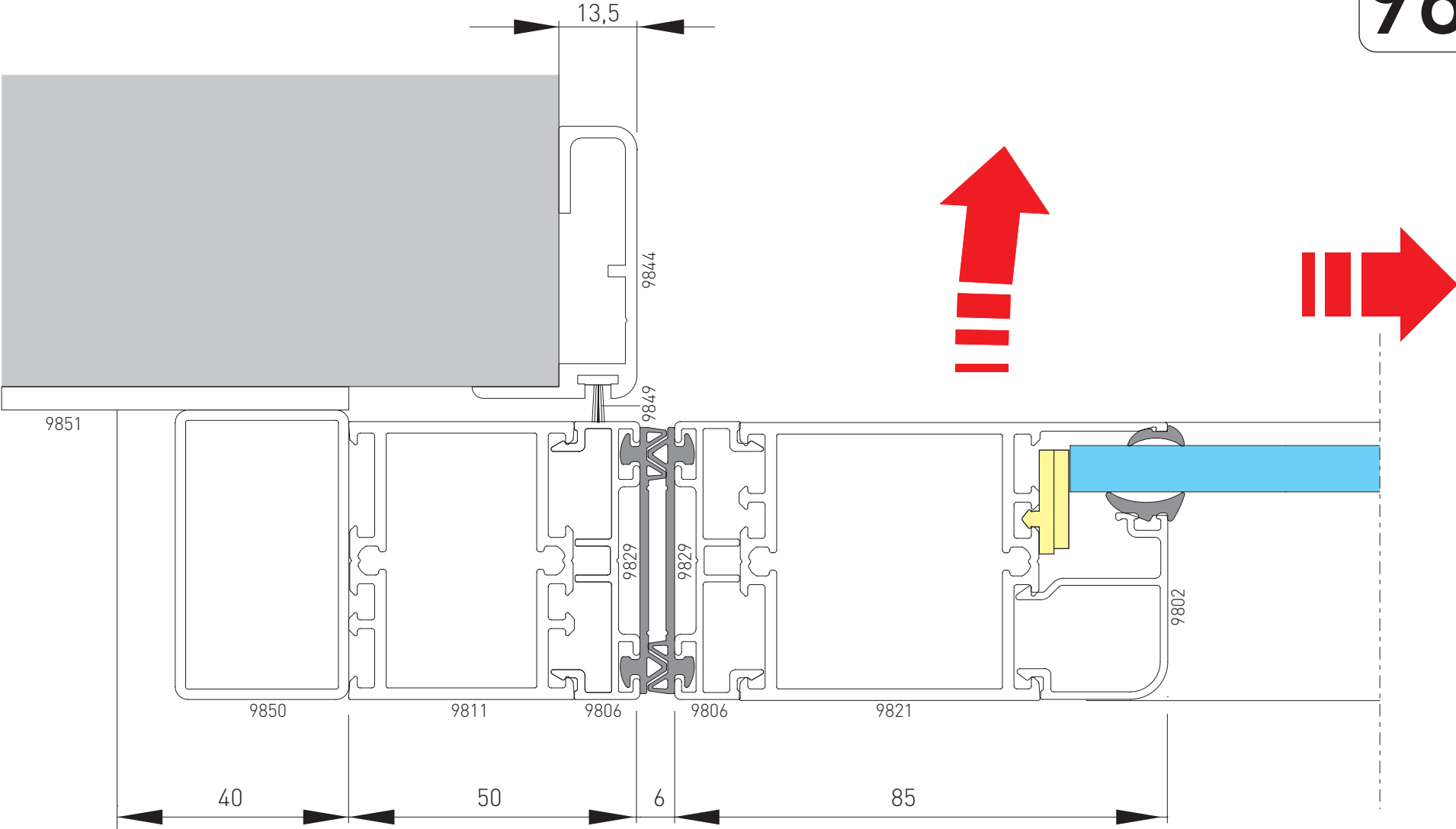
T42

Scale 1:1

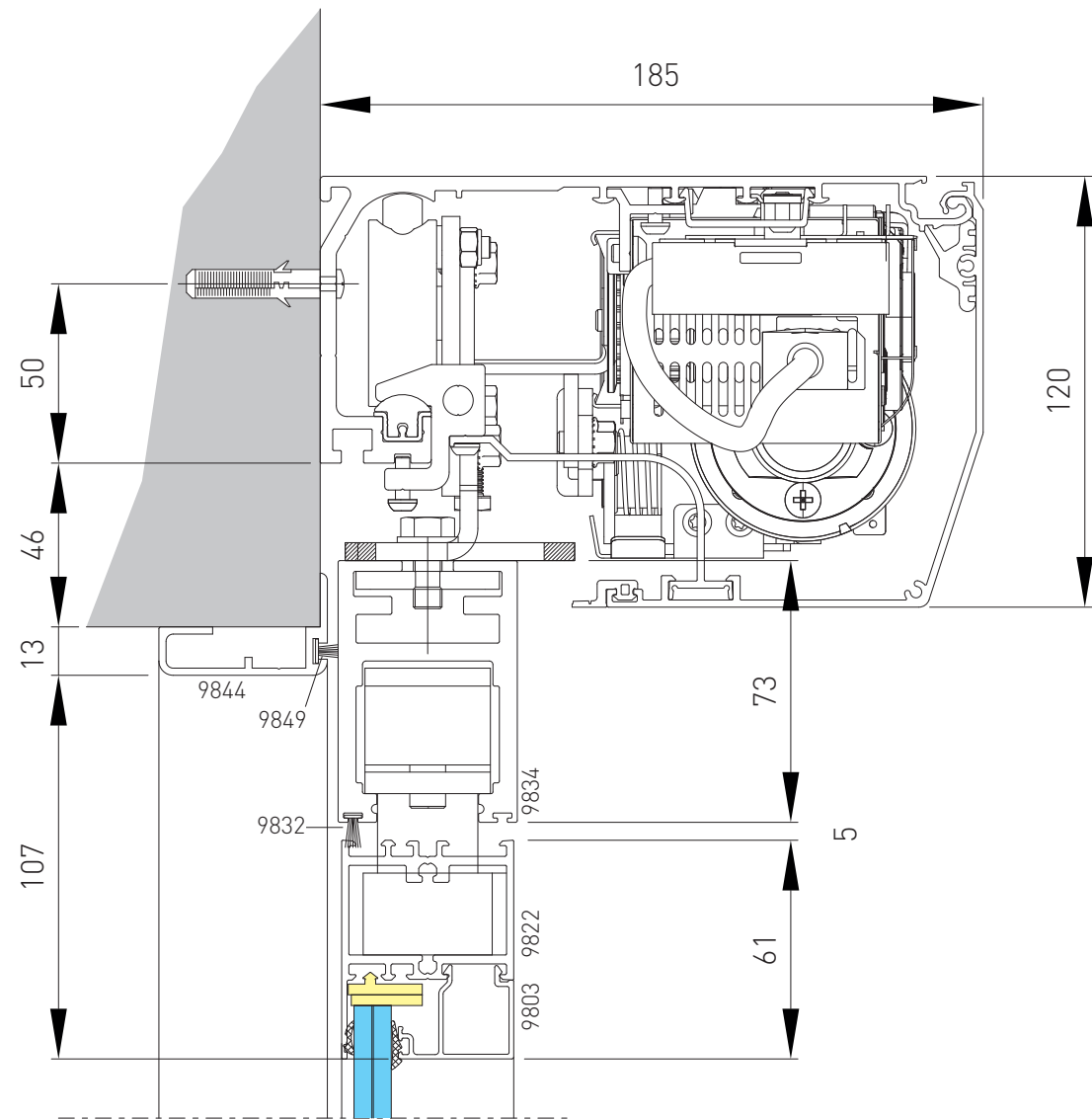
95



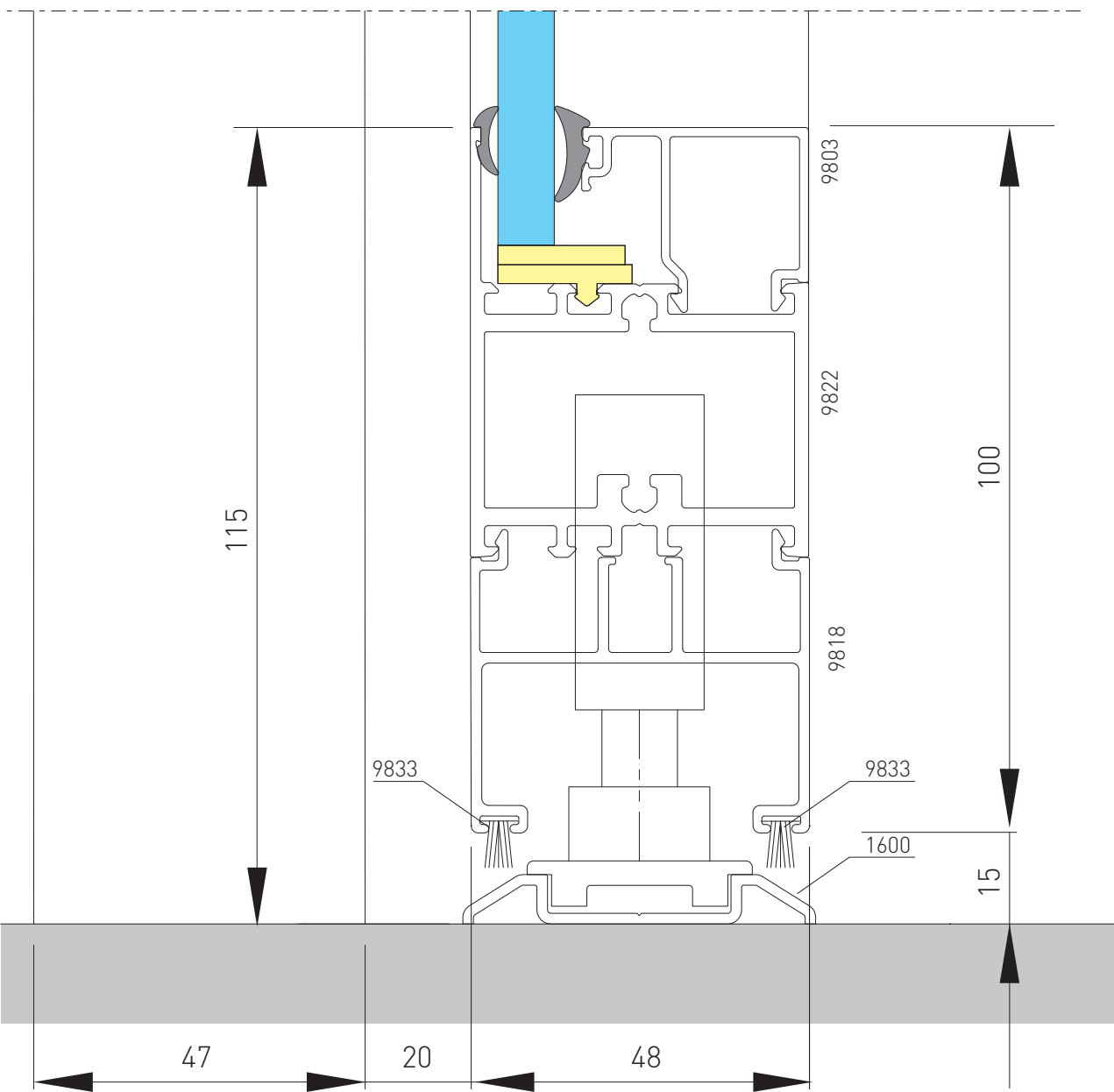
96



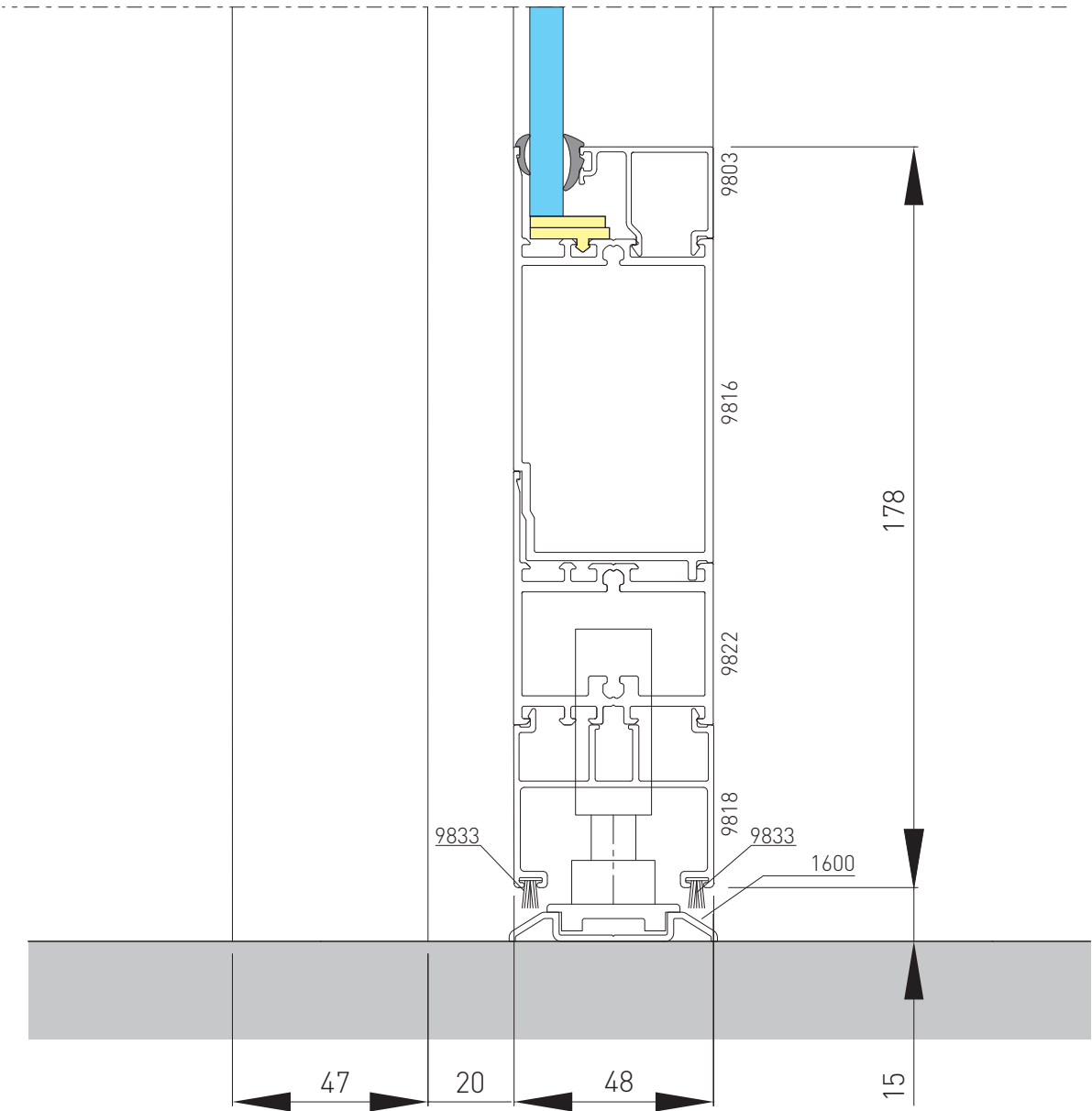
97



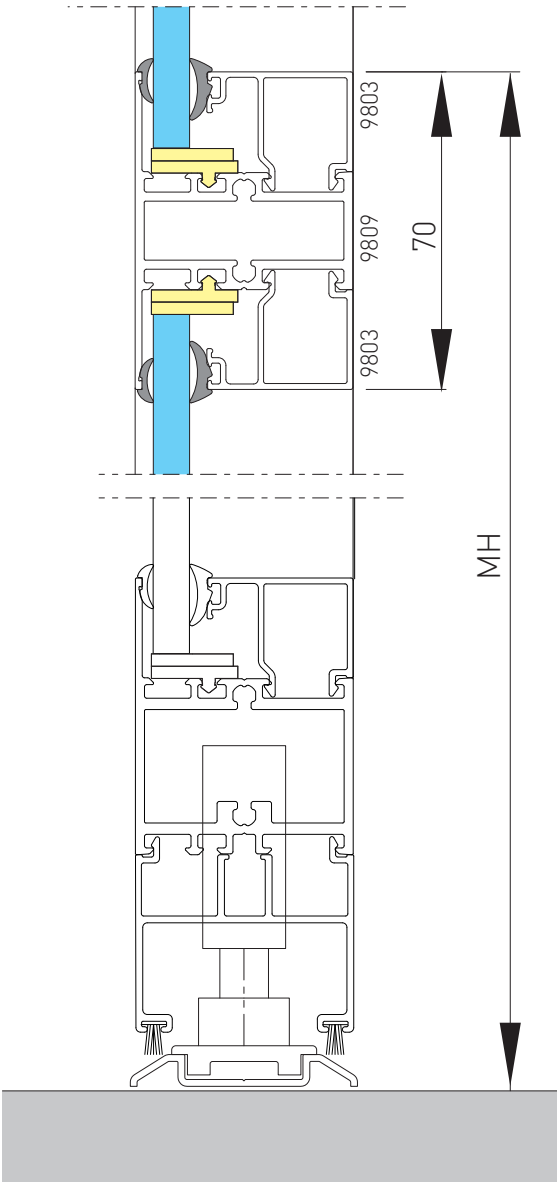
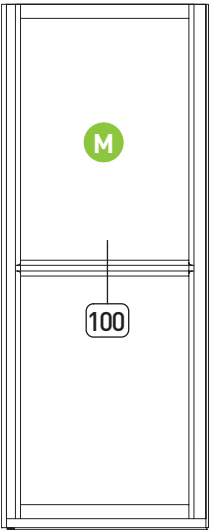
98



99



100



18. Processes



RBO Moving door wing (**NOTE 2** see page 10)

Anta mobile RBO

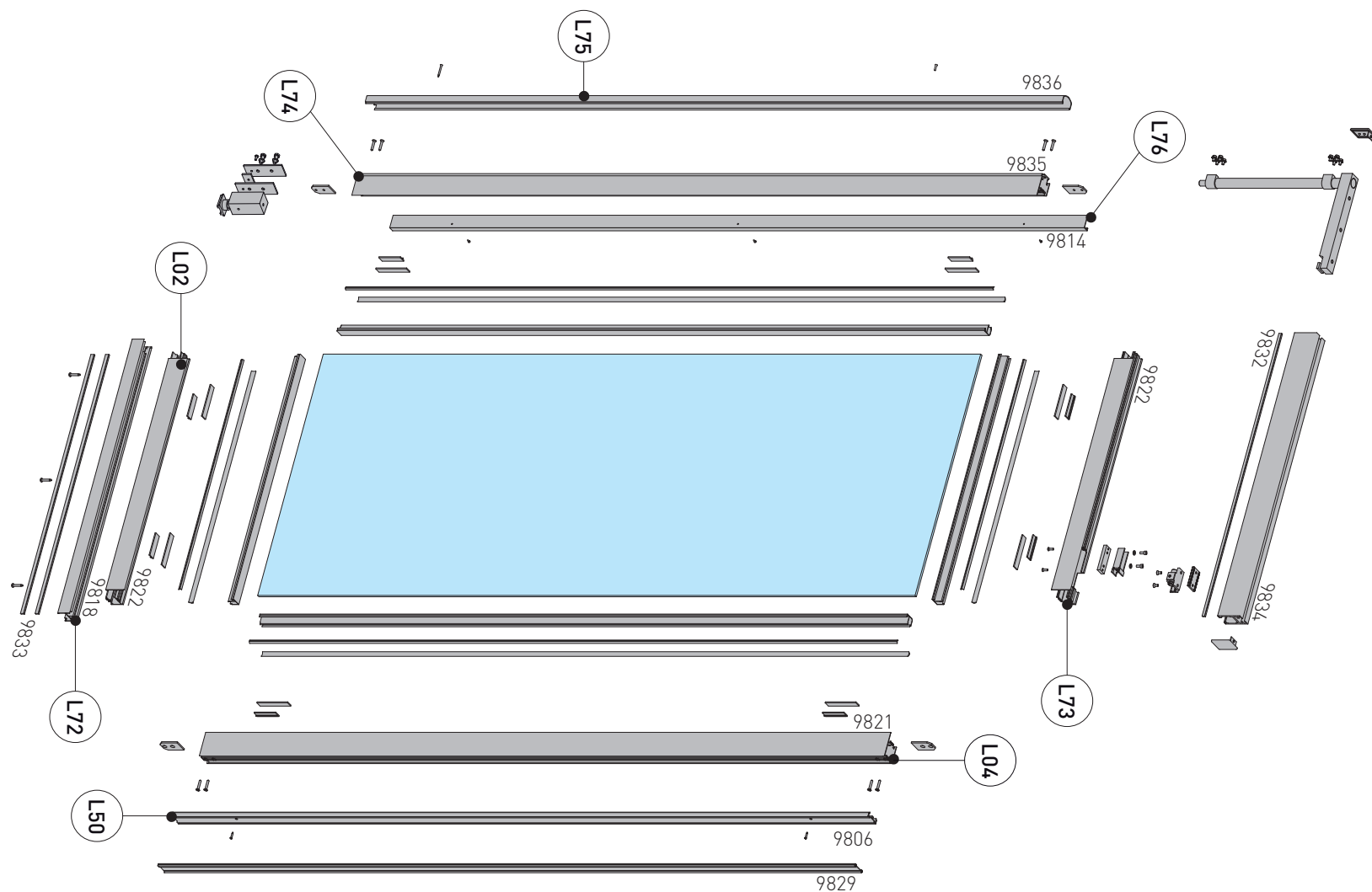
RBO Fahrflügel

Vantail mobile RBO

Hoja móvil RBO

Portinhola móvel RBO

T48



18. Processes



SBO Moving door wing (**NOTE 2** see page 10)

Anta mobile SB0

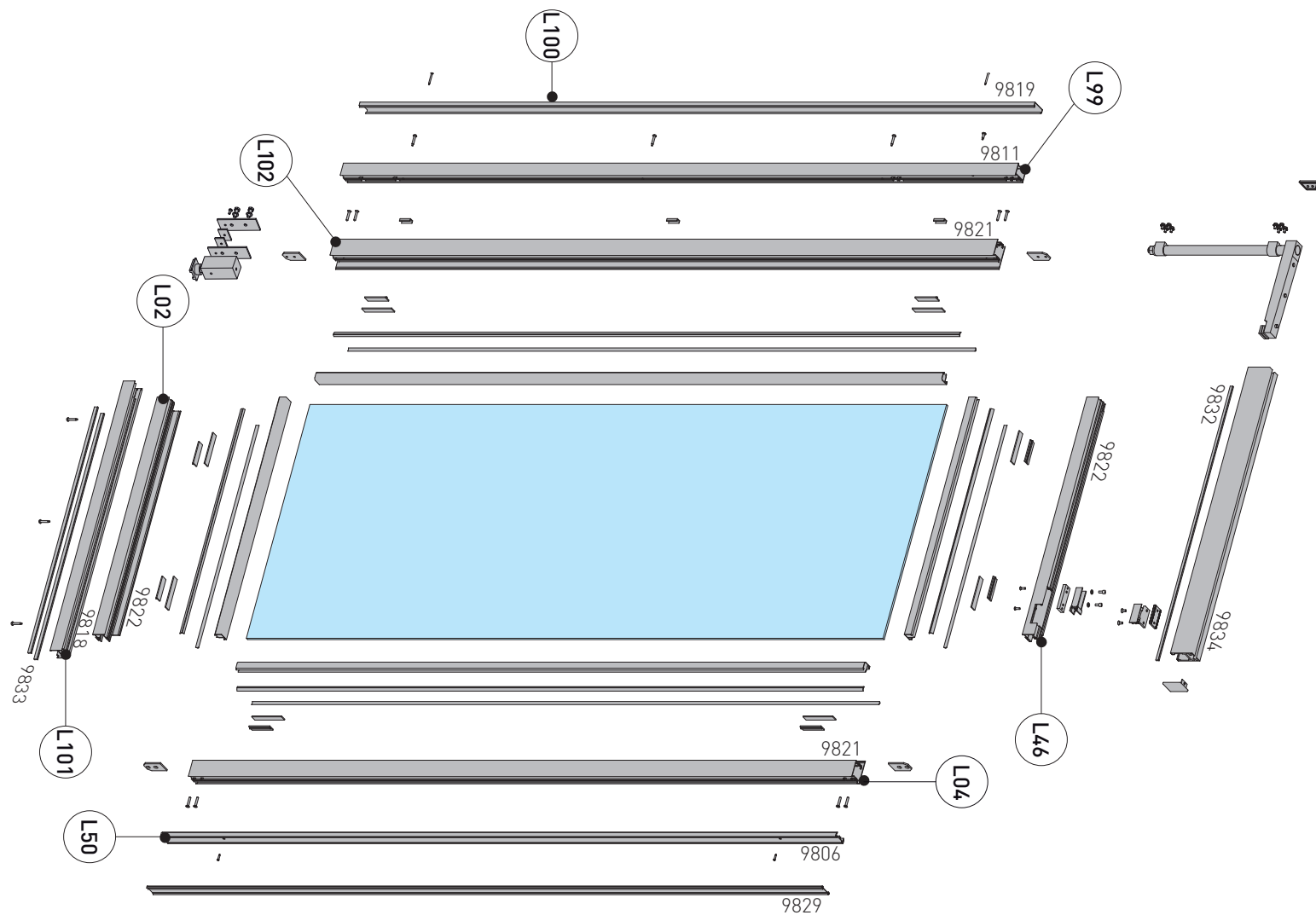
SB0 Fahrflügel

Vantail mobile SB0

Hoja móvil SB0

Portinhola móvel SB0

T49

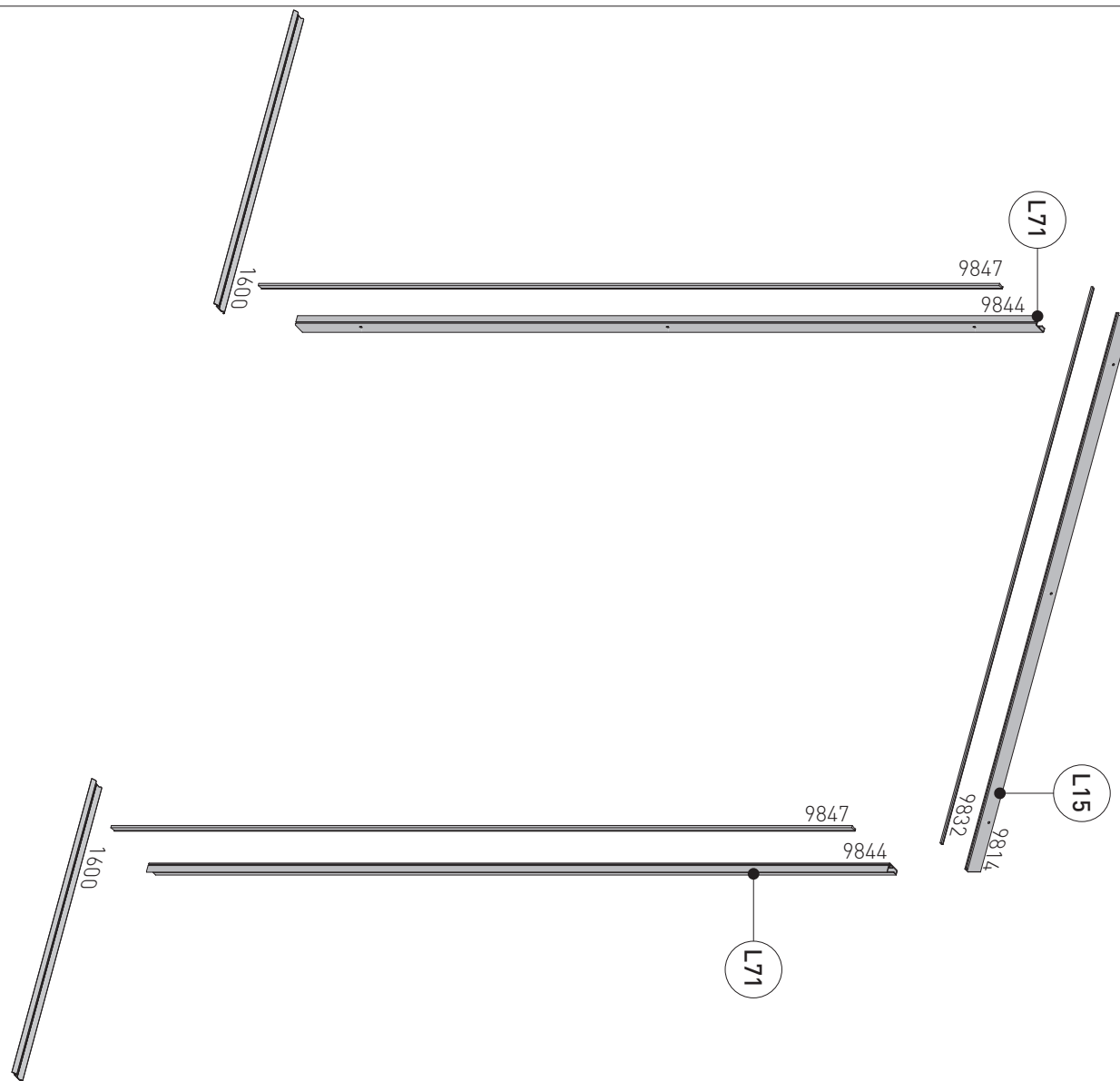


18. Processes



Frame for two moving door wings RBO
Cornice due ante mobili RBO
Rahmen für zwei Fahrflügel RBO
Cadre deux vantaux mobiles RBO
Marco de dos hojas móviles RBO
Caixilho de duas portinholas móveis RBO

T50

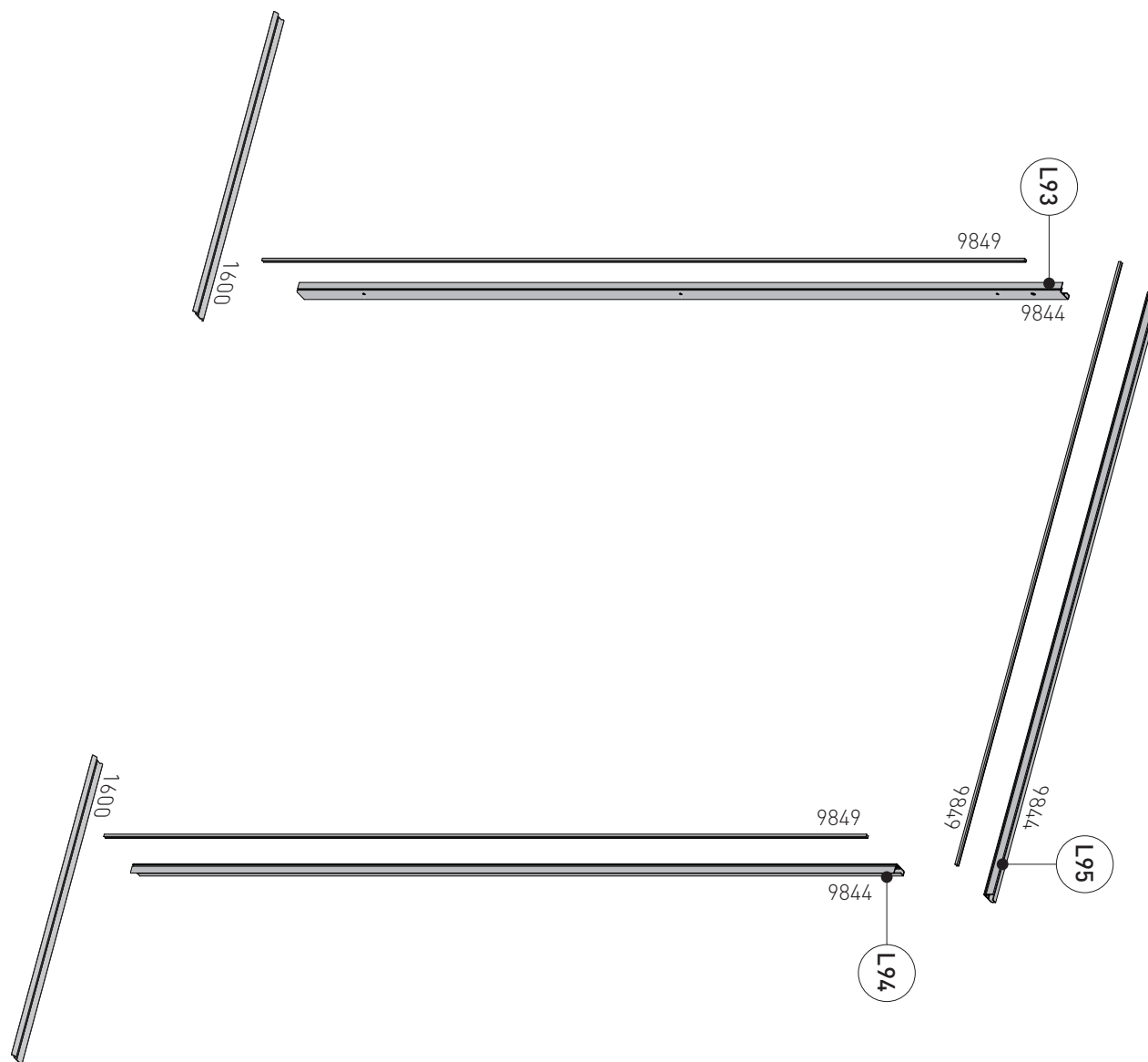


18. Processes



Frame for two moving door wings SB0
Cornice due ante mobili SB0
Rahmen für zwei Fahrflügel SB0
Cadre deux vantaux mobiles SB0
Marco de dos hojas móviles SB0
Caixilho de duas portinholas móveis SB0

T51



18. Processes



Frame for one moving door wing RBO (**NOTE 2** see page 10)

Cornice una anta mobile RBO

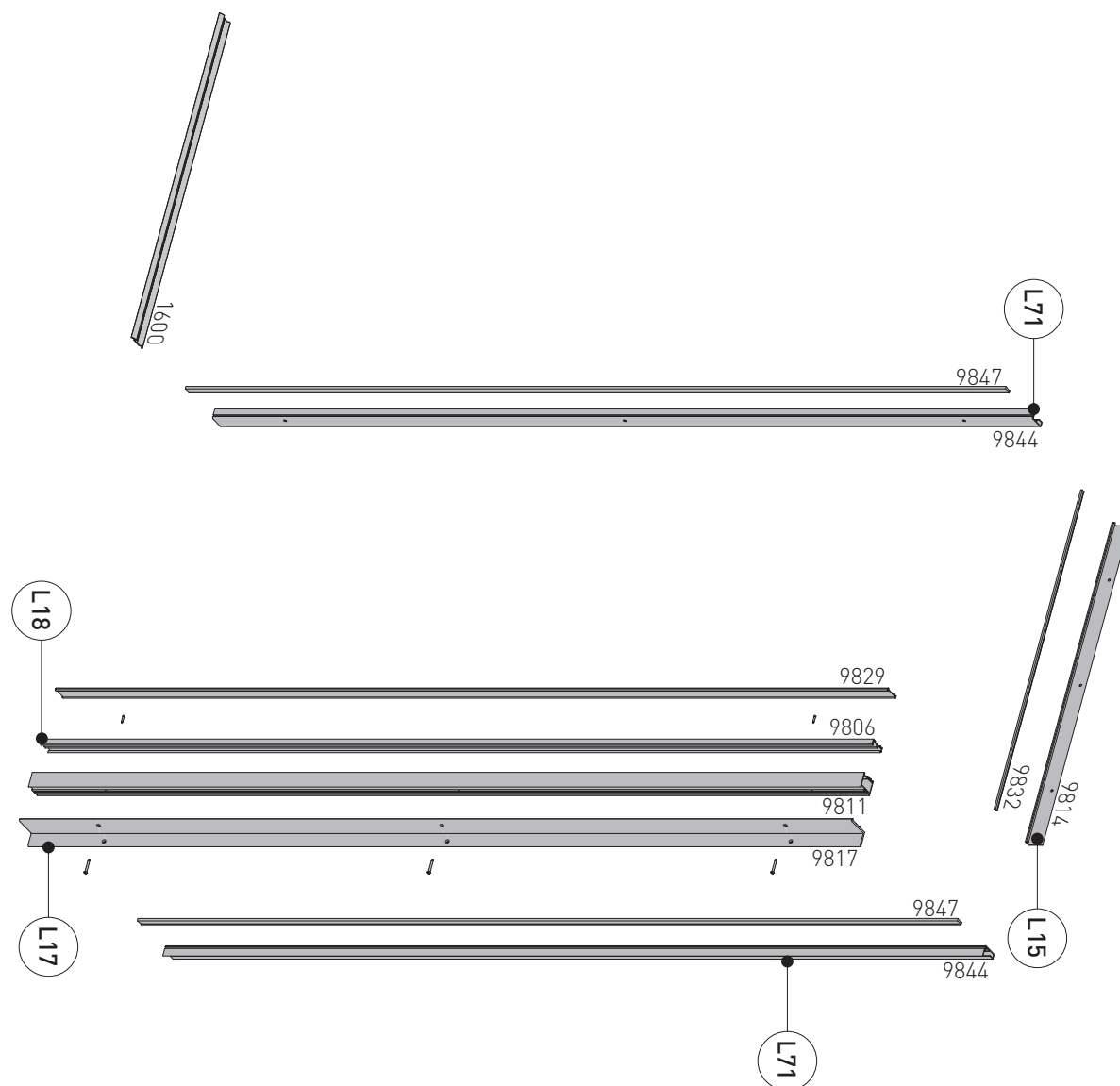
Rahmen für einen Fahrflügel RBO

Cadre un vantail mobile RBO

Marco de una hoja móvil RBO

Caixilho de uma portinhola móvel RBO

T52



18. Processes



Frame for one moving door wing SBO (**NOTE 2** see page 10)

Cornice una anta mobile SBO

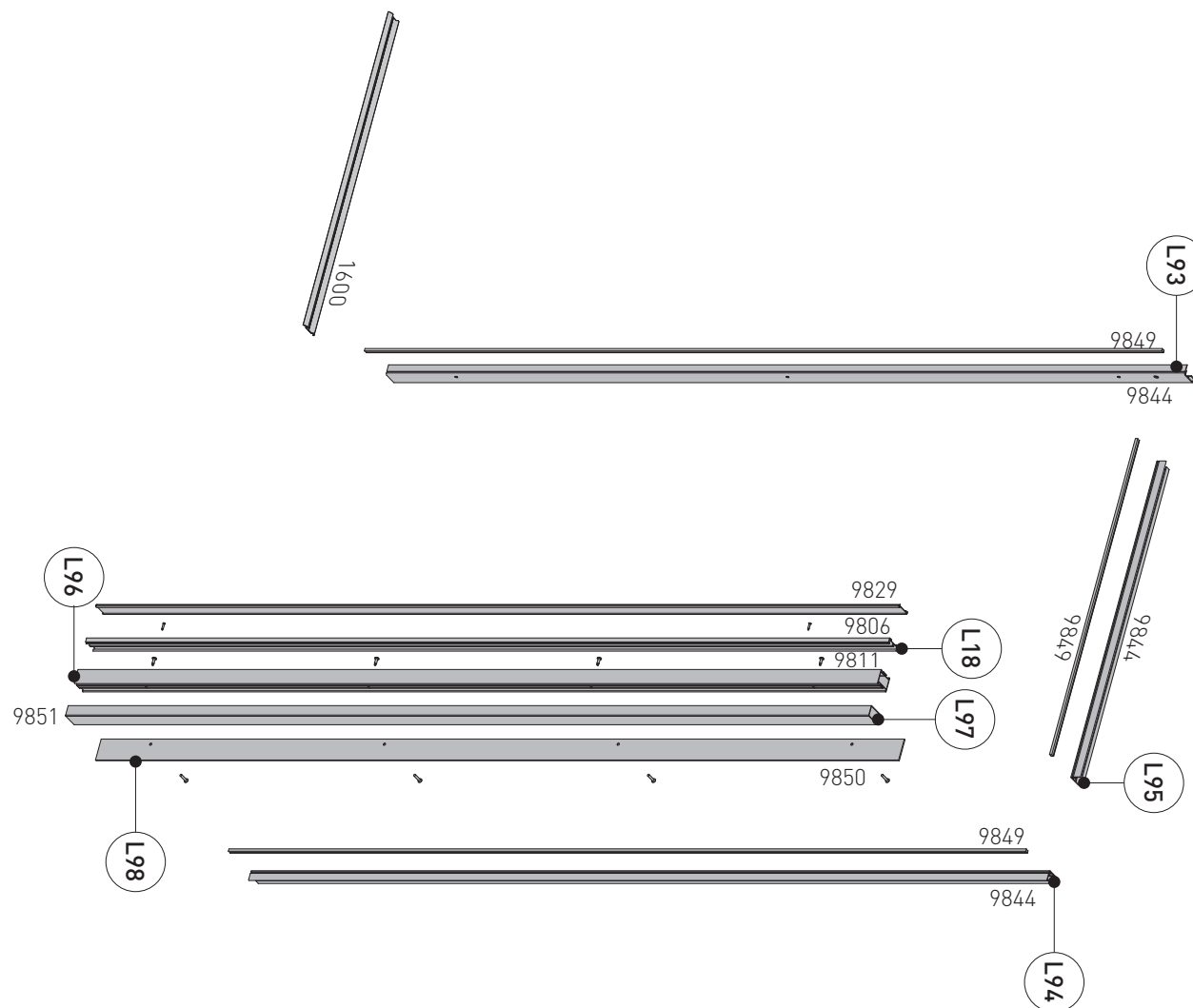
Rahmen für einen Fahrflügel SBO

Cadre un vantail mobile SBO

Marco de una hoja móvil SBO

Caixilho de uma portinhola móvel SBO

T53



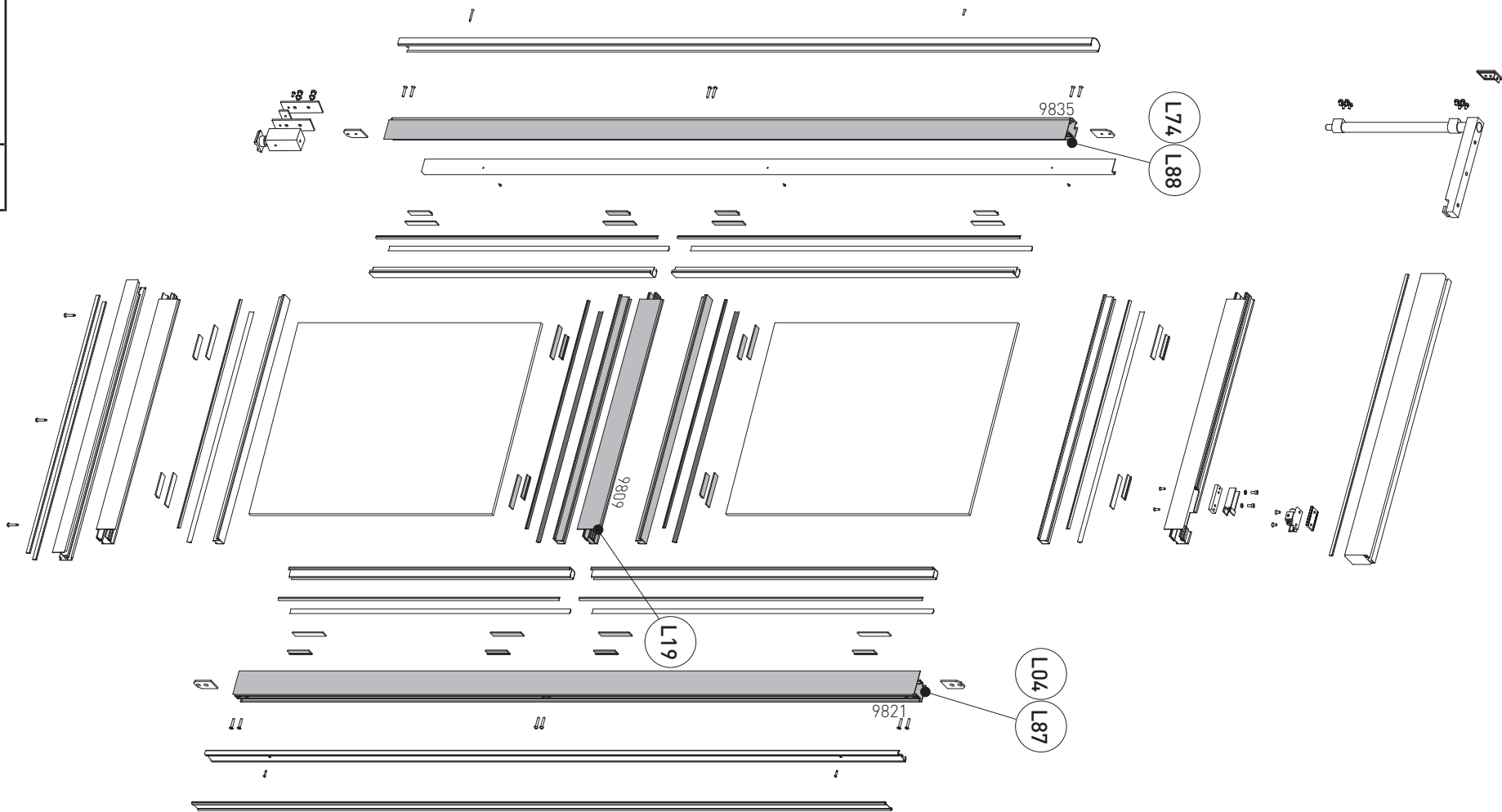
18. Processes



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

T54

KIT	Q.TY
KT48	1
KSv48	1



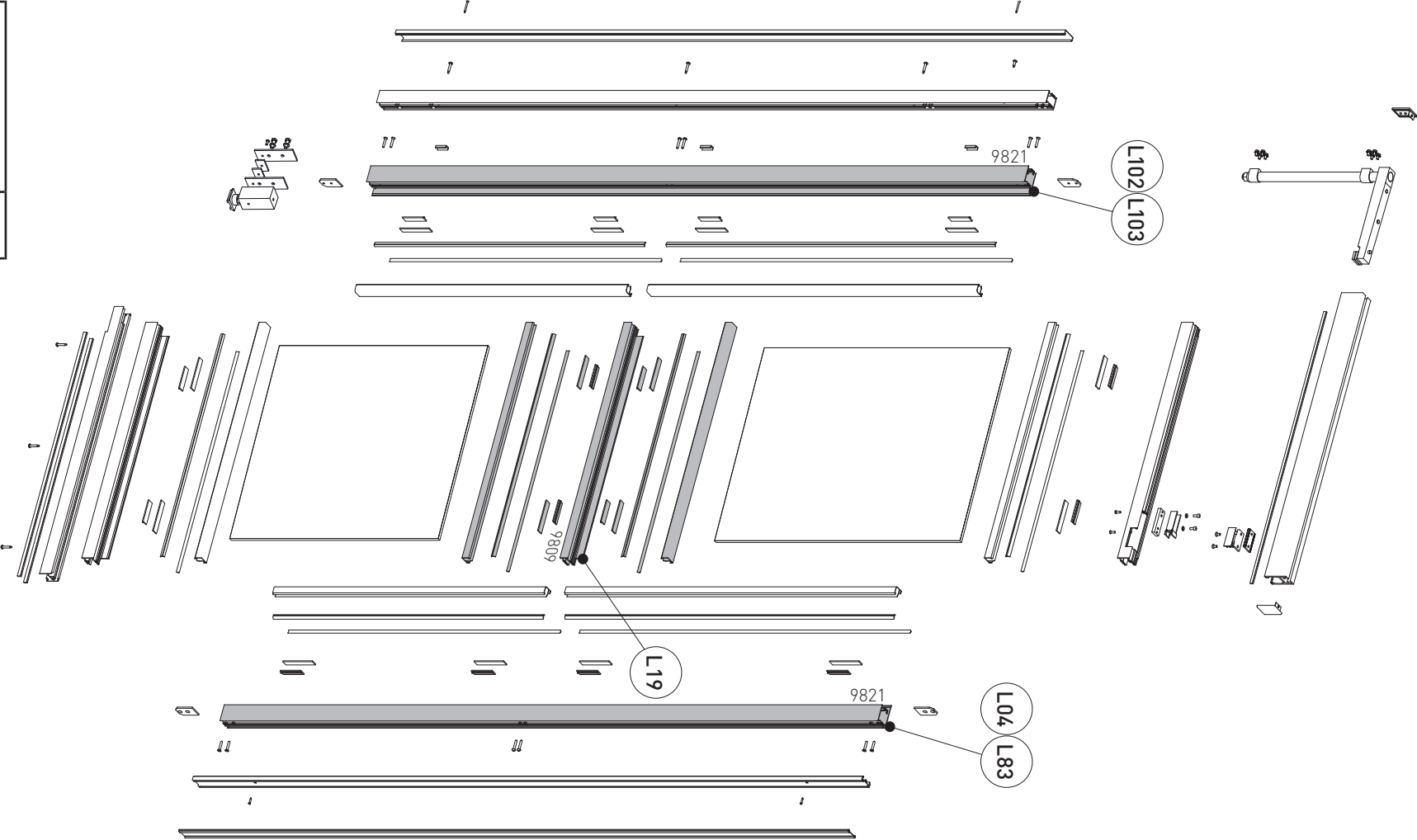
18. Processes

M

Moving door wing crosspiece SBO (NOTE 2 see page 10 and T50)
Traverso anta mobile SBO
Querträger des Fahrflügels SBO
Traverse vantail mobile SBO
Travesero de hoja móvil SBO
Trave da portinhola móvel SBO

T55

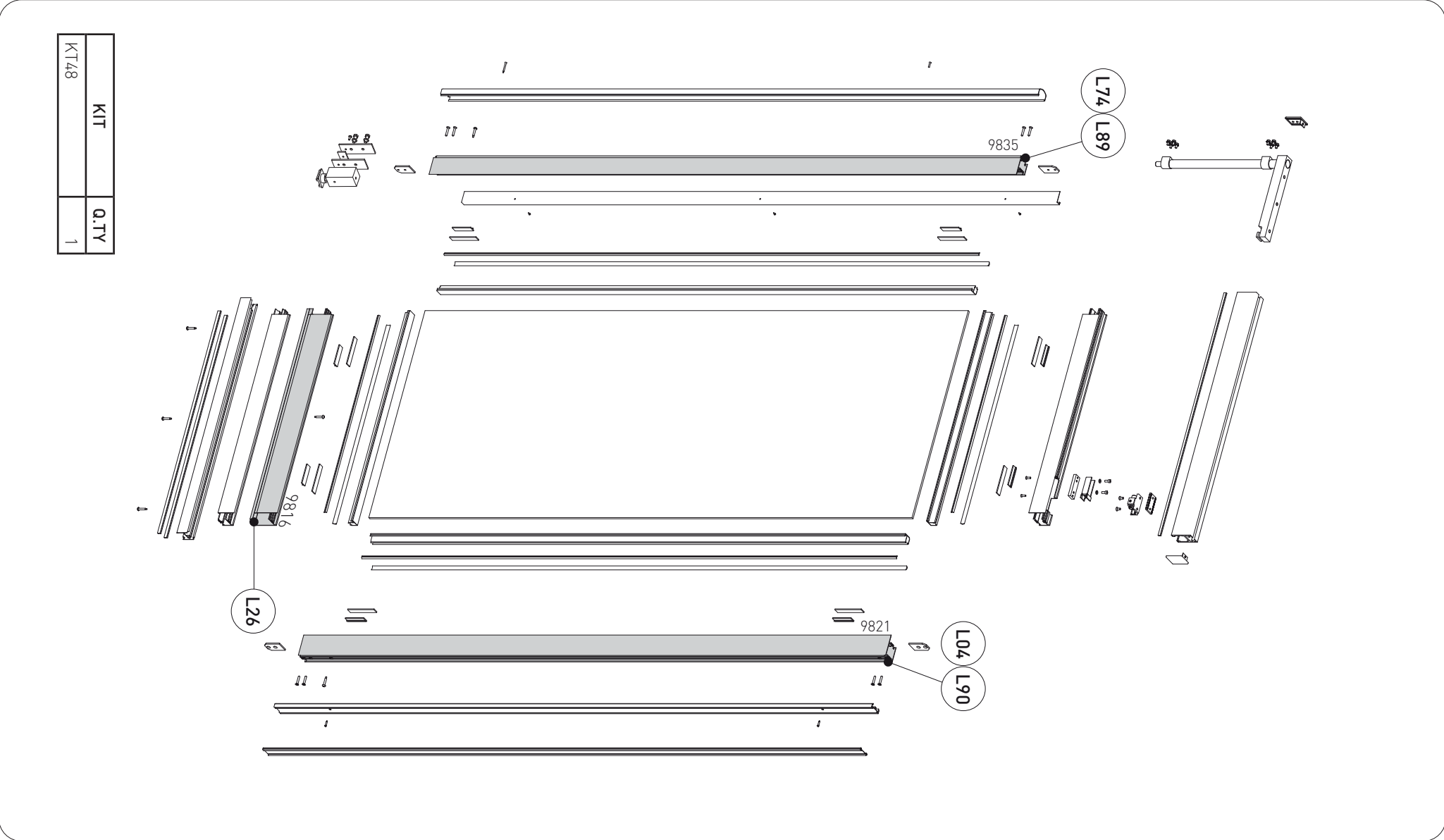
KIT	Q.TY
KT48	1
KSV48	1



18. Processes

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

T56



18. Processes

M

Mobile door wing base with left-hand opening SB0 (**NOTE 2** see page 10 and T50)

Zoccolo anta mobile con apertura a sinistra SB0

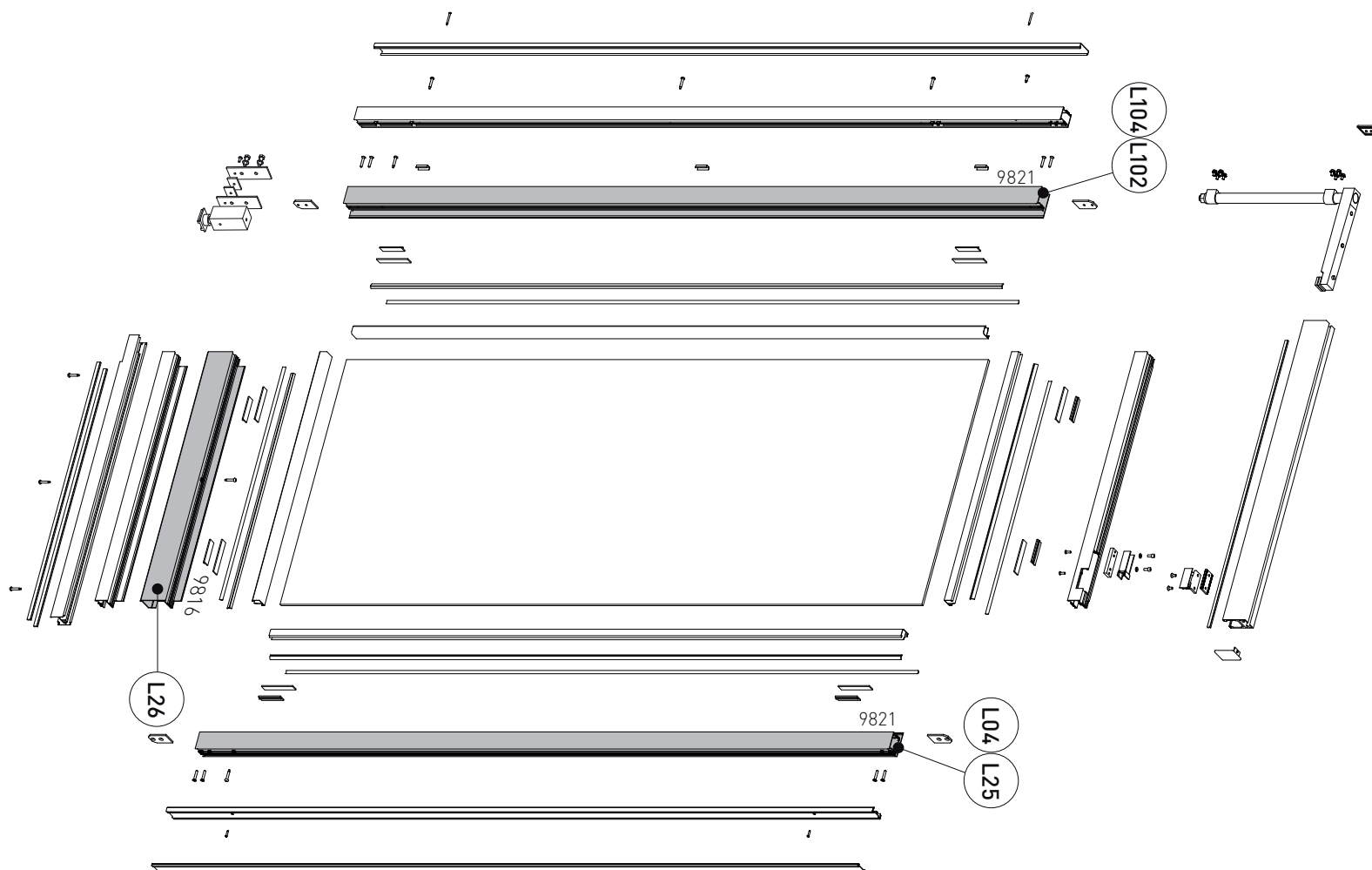
Sockel des Fahrflügels mit Linksöffnung SB0

Socle vantail mobile avec ouverture à gauche SB0

Zócalo de hoja móvil con apertura a la izquierda SB0

Base da portinhola móvel com abertura à esquerda SB0

T57

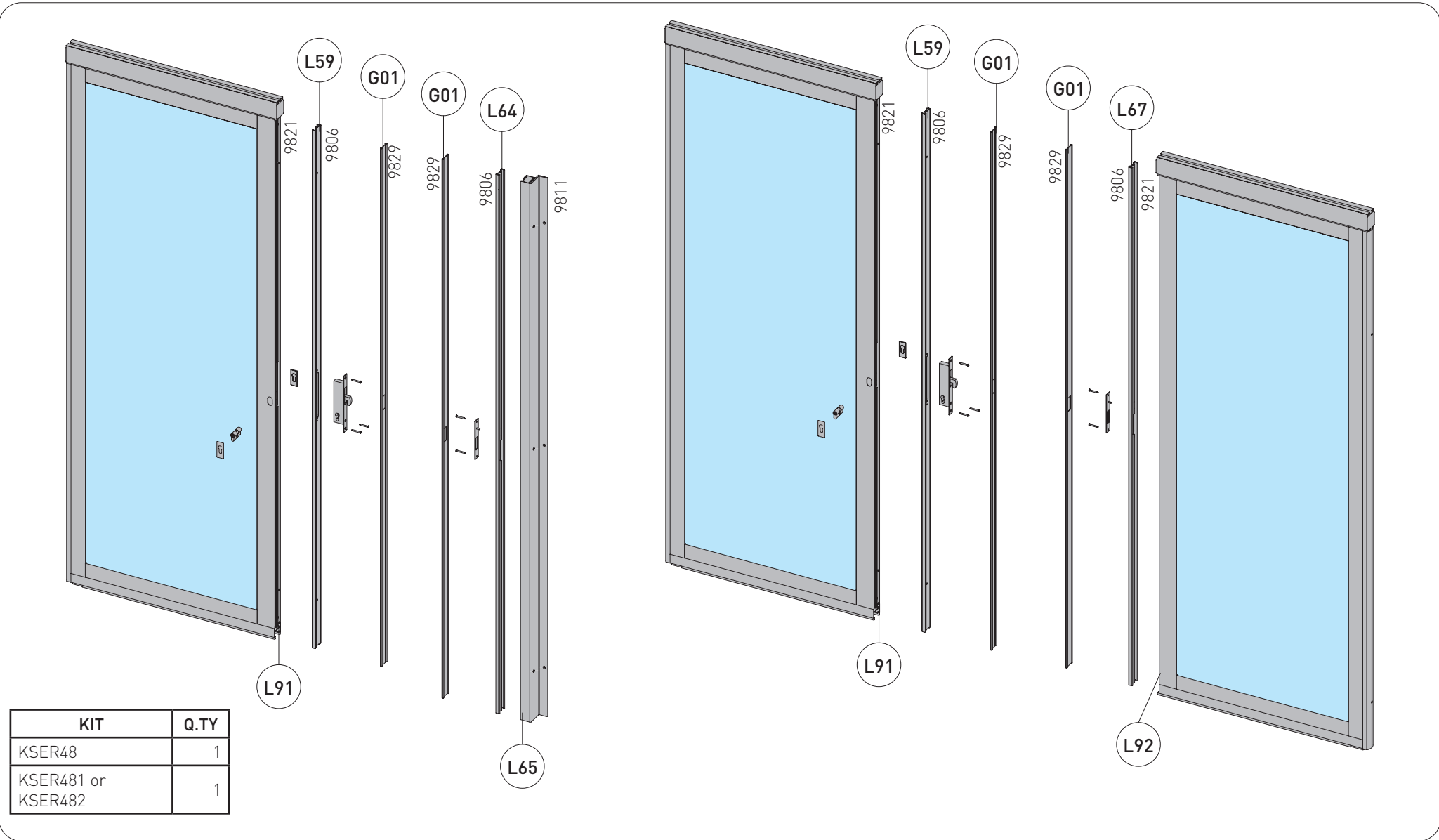


18. Processes



Mechanical hook bolt lock RBO (NOTE 2 see page 10)
Serrature RBO
Schlösser RBO
Serrures RBO
Cerraduras RBO
Ferragens RBO

T58



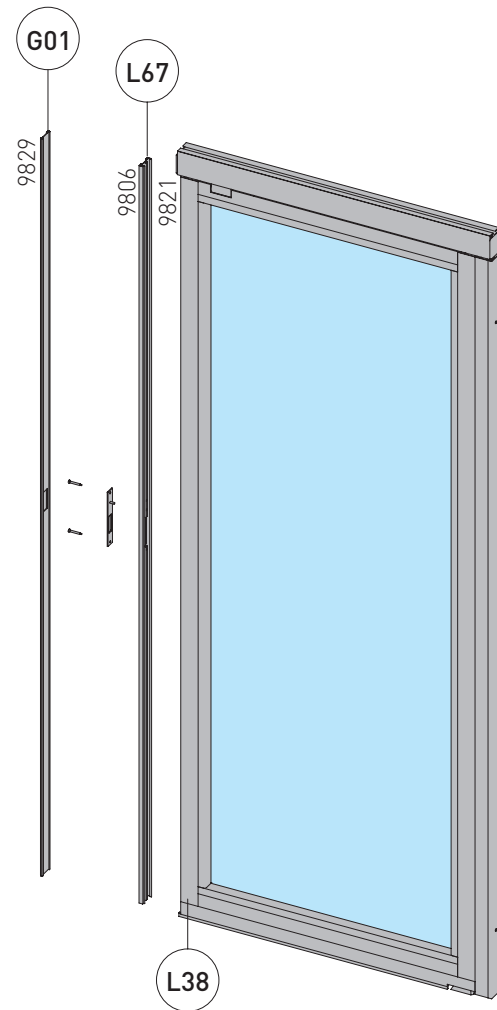
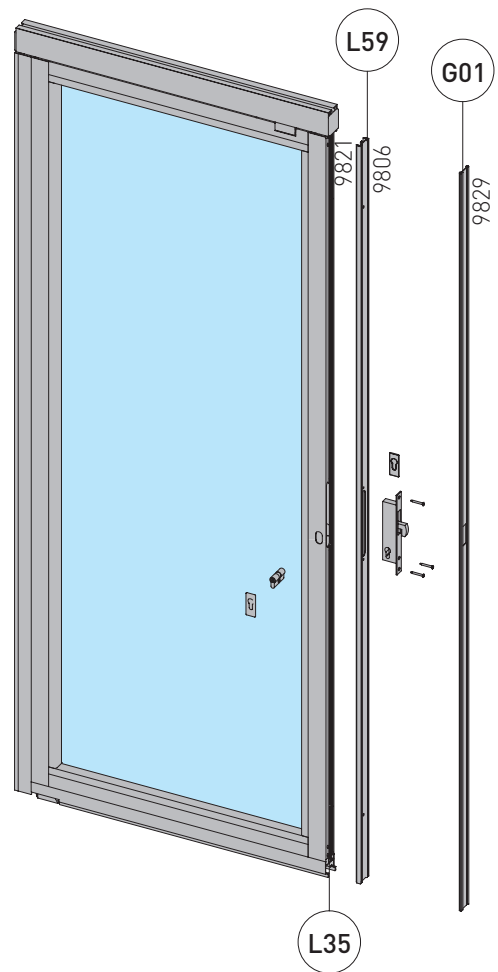
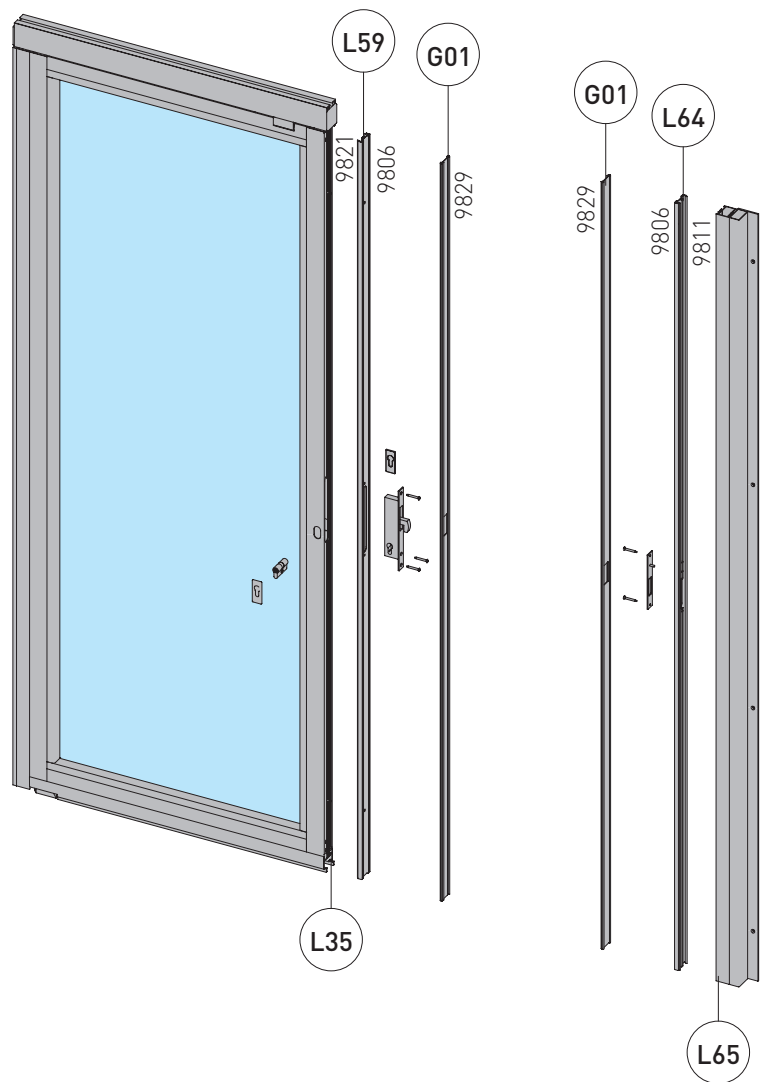
18. Processes **M C** Mechanical hook bolt lock SBO (**NOTE 2** see page 10)
Serratura SBO

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

Schlösser SB0

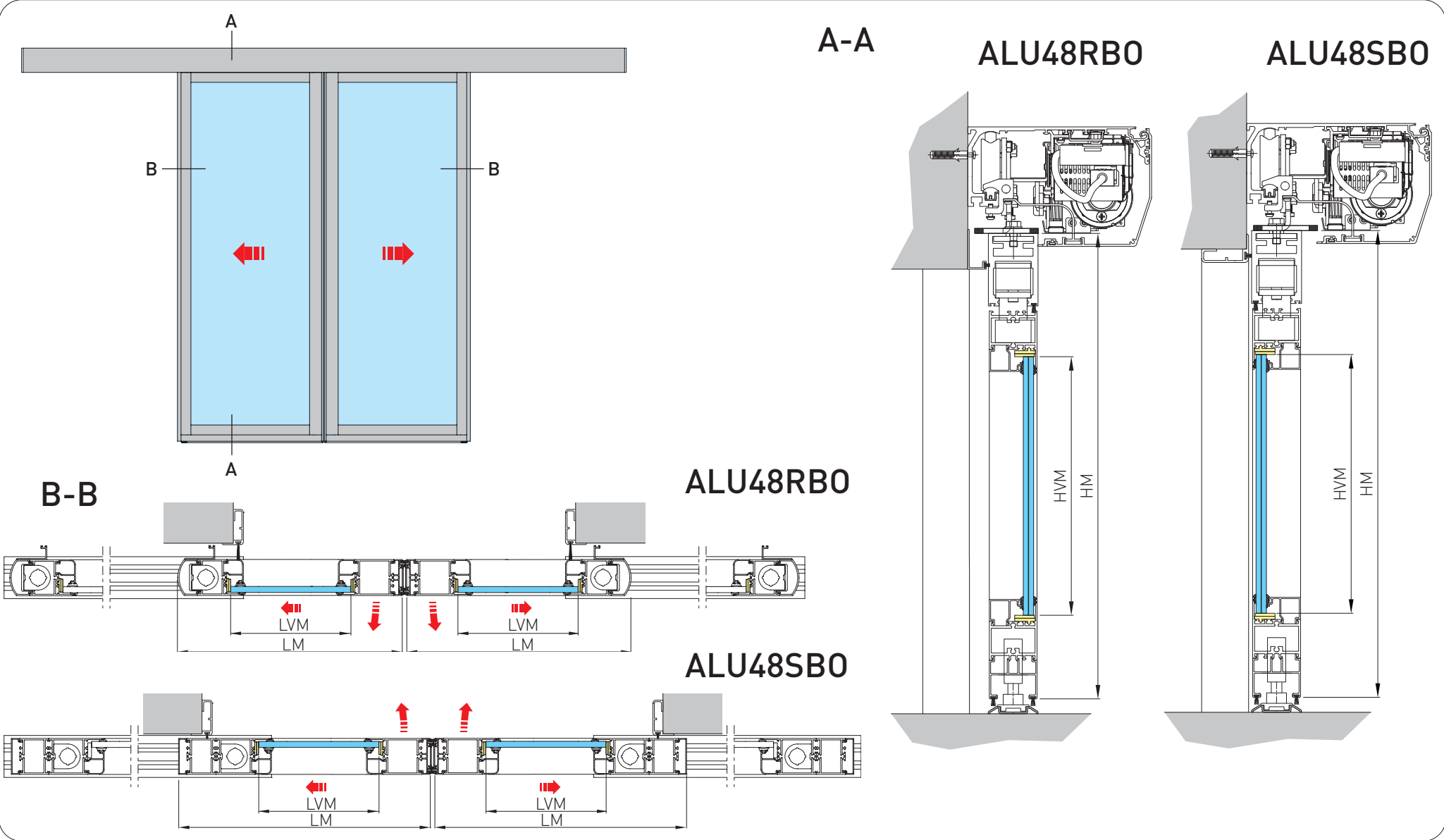
Cerraduras SBO

T59

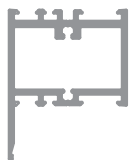


19. Details of additional dimensions

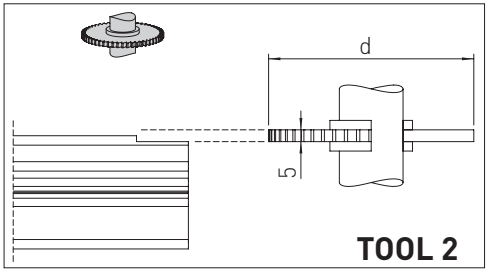
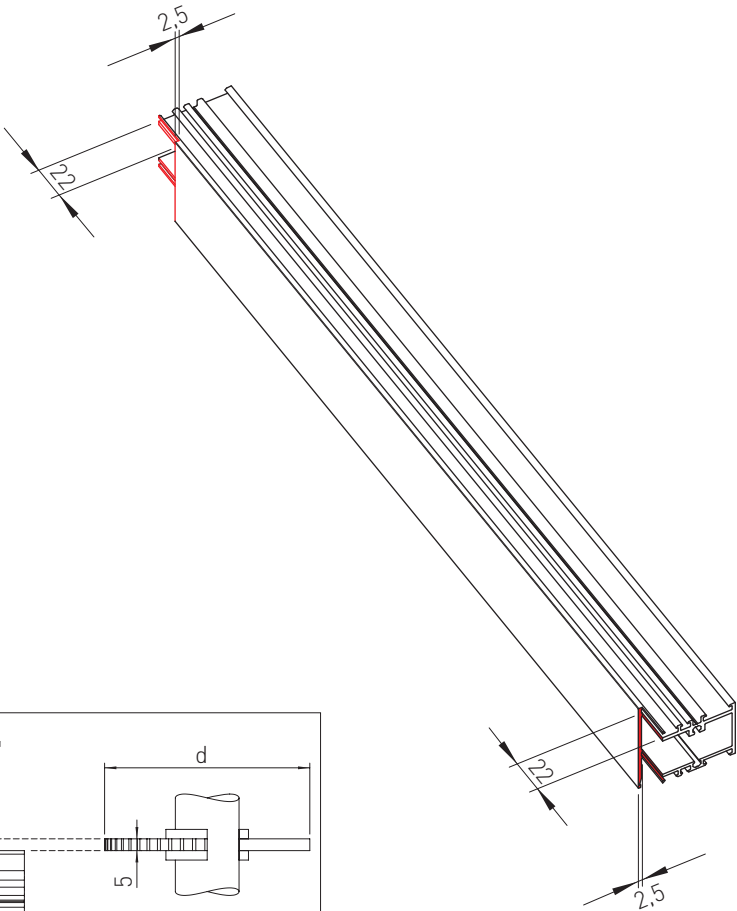
T60



L02

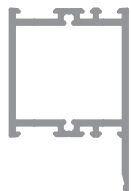


9822

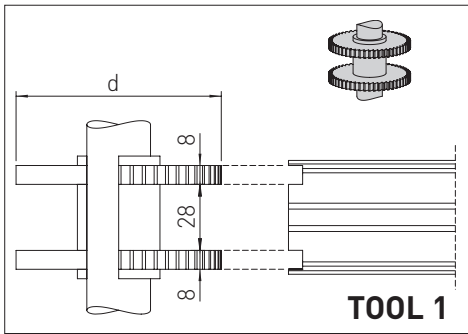
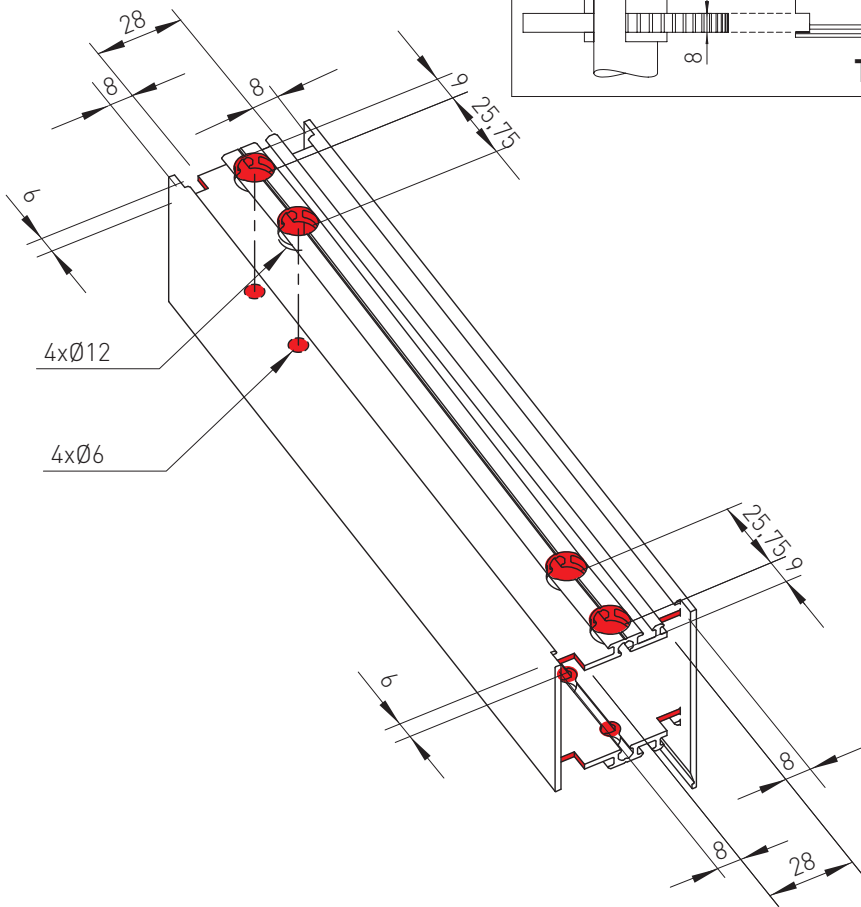


TOOL 2

L04



9821



TOOL 1

L15

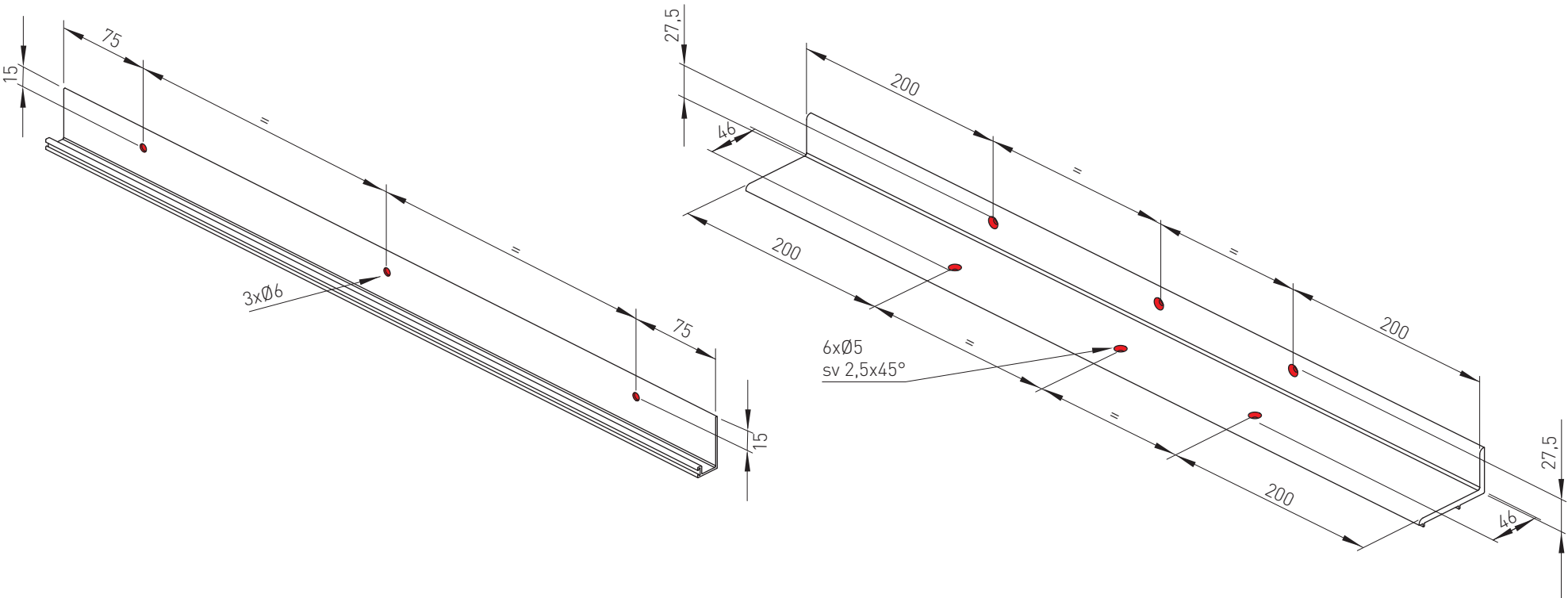


9814

L17



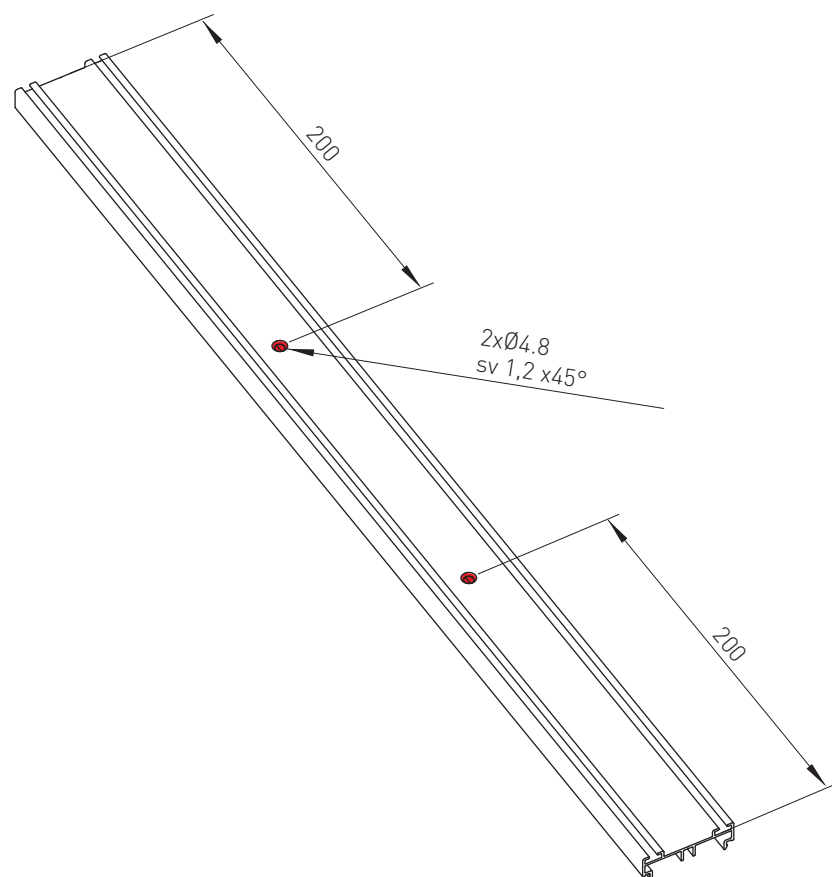
9817



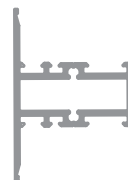
L18



9806

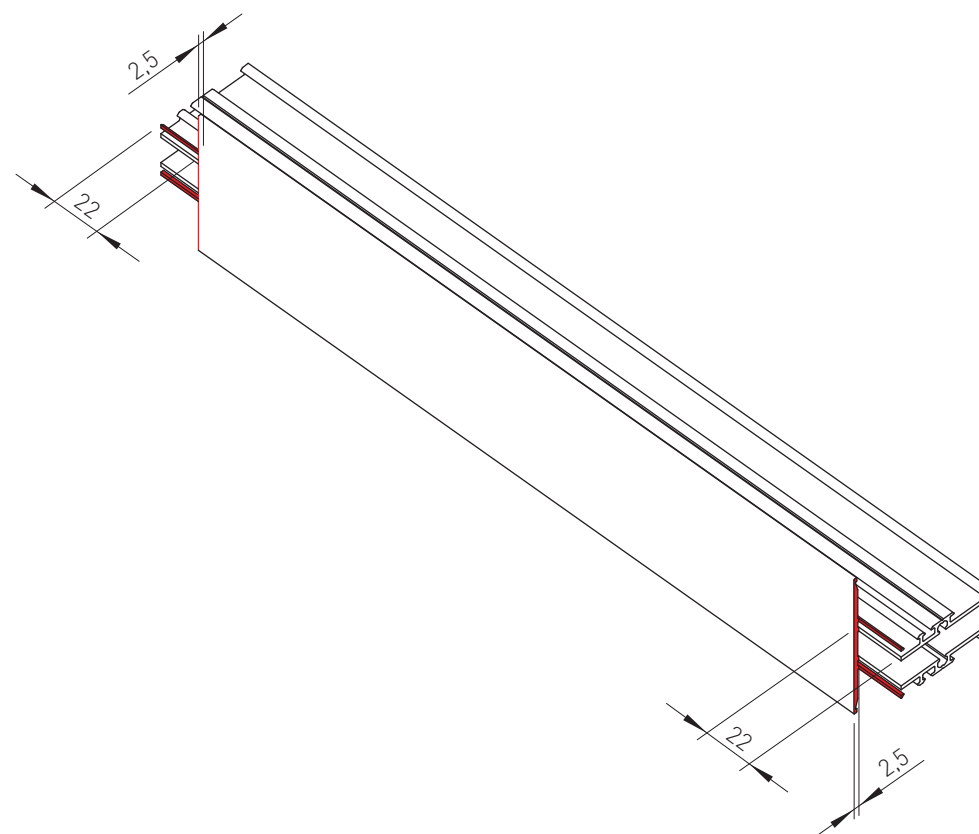


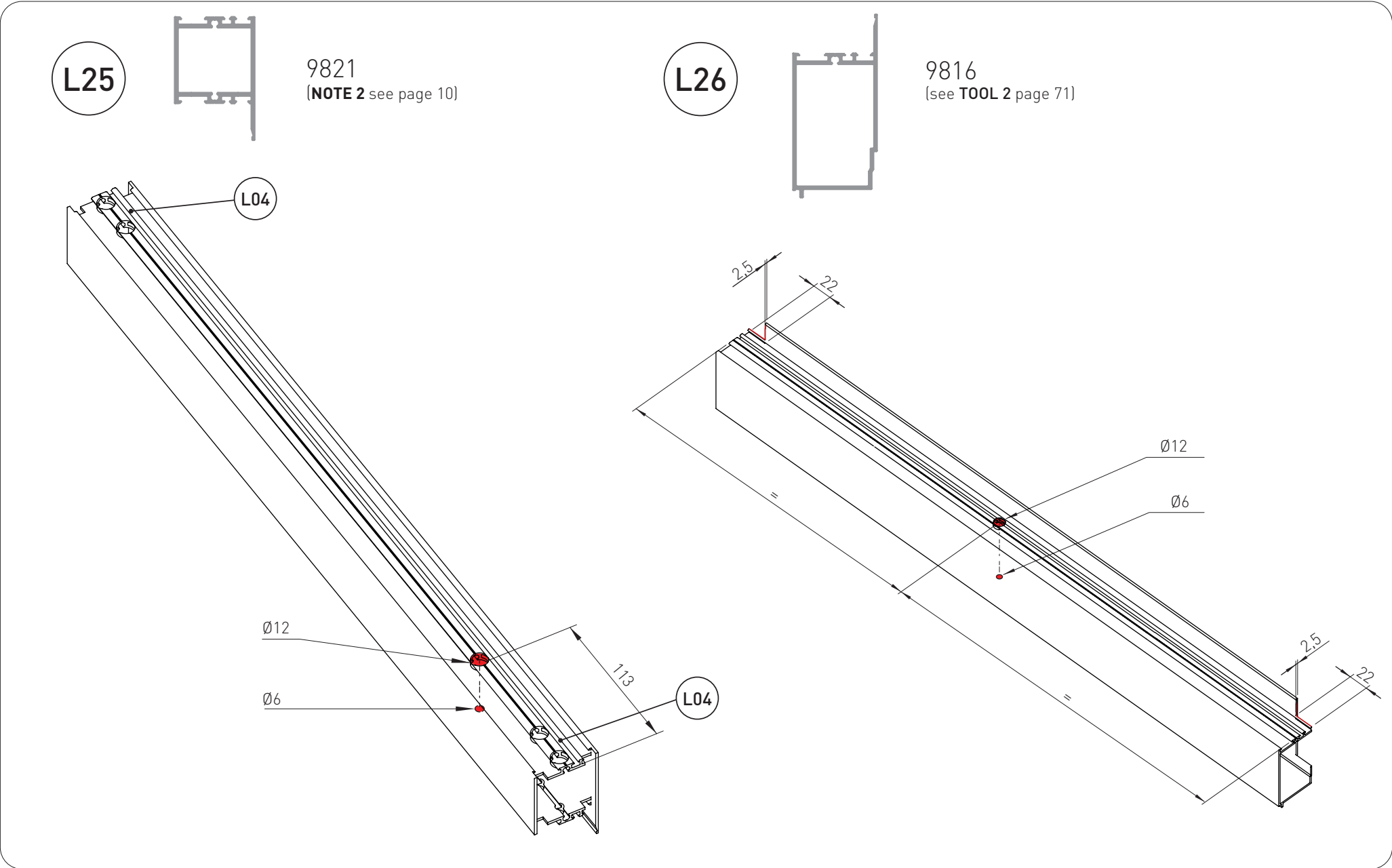
L19

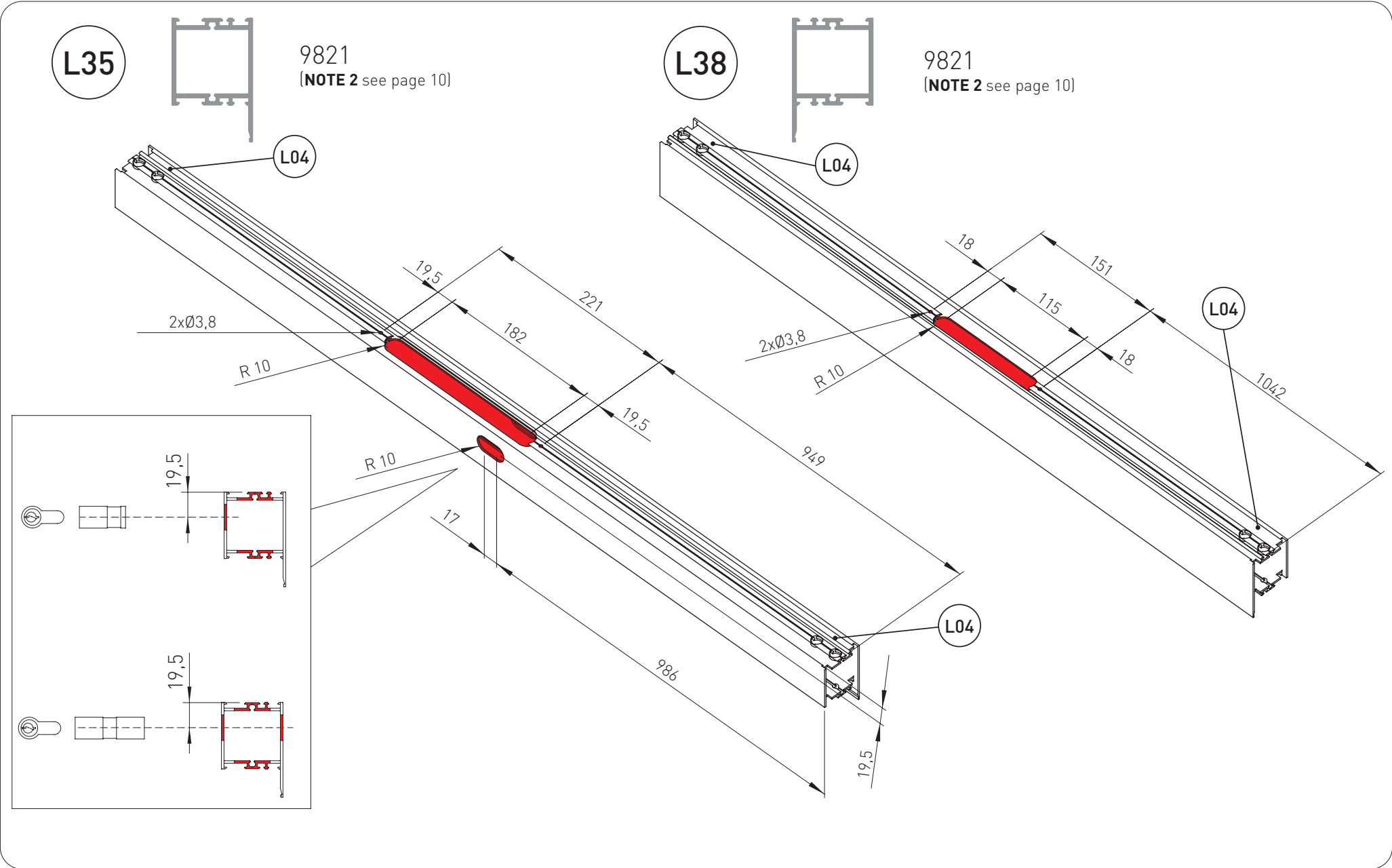


9809

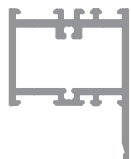
(see T00L 2 page 71)







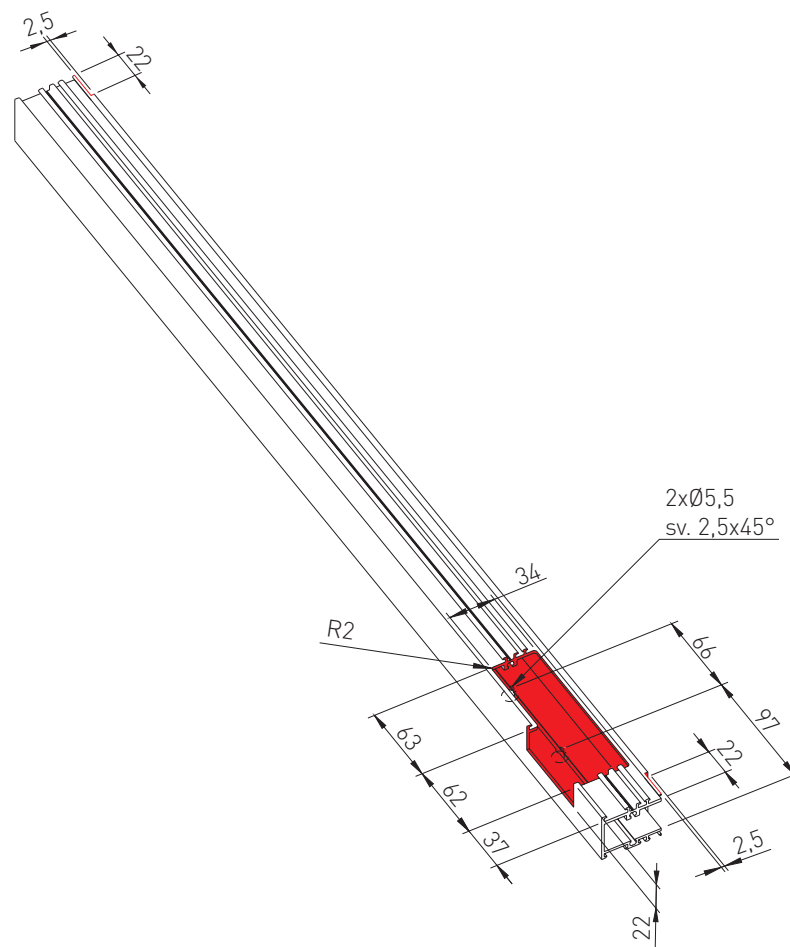
L46



9822

(NOTE 2 see page 10)

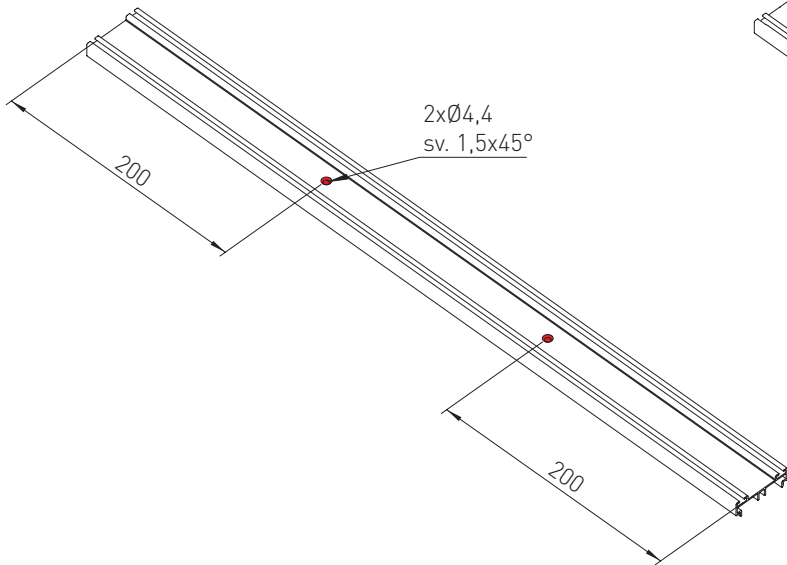
(see TOOL 2 page 71)



L50



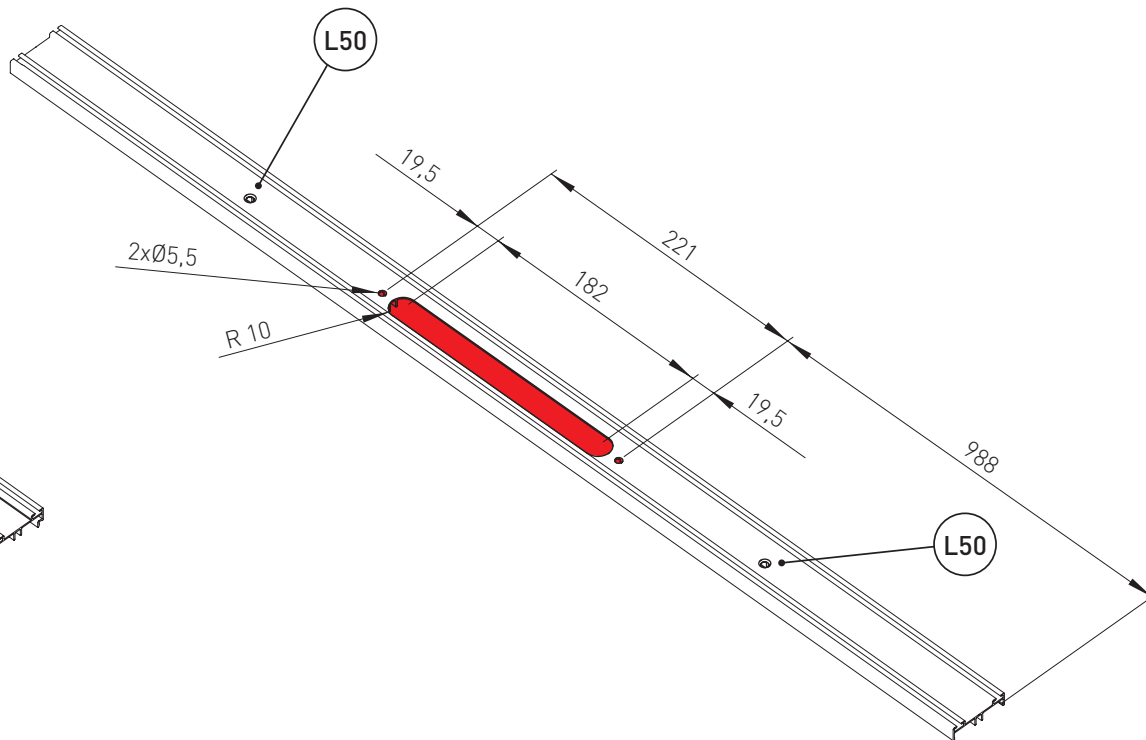
9806



L59



9806

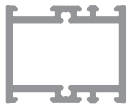


L64

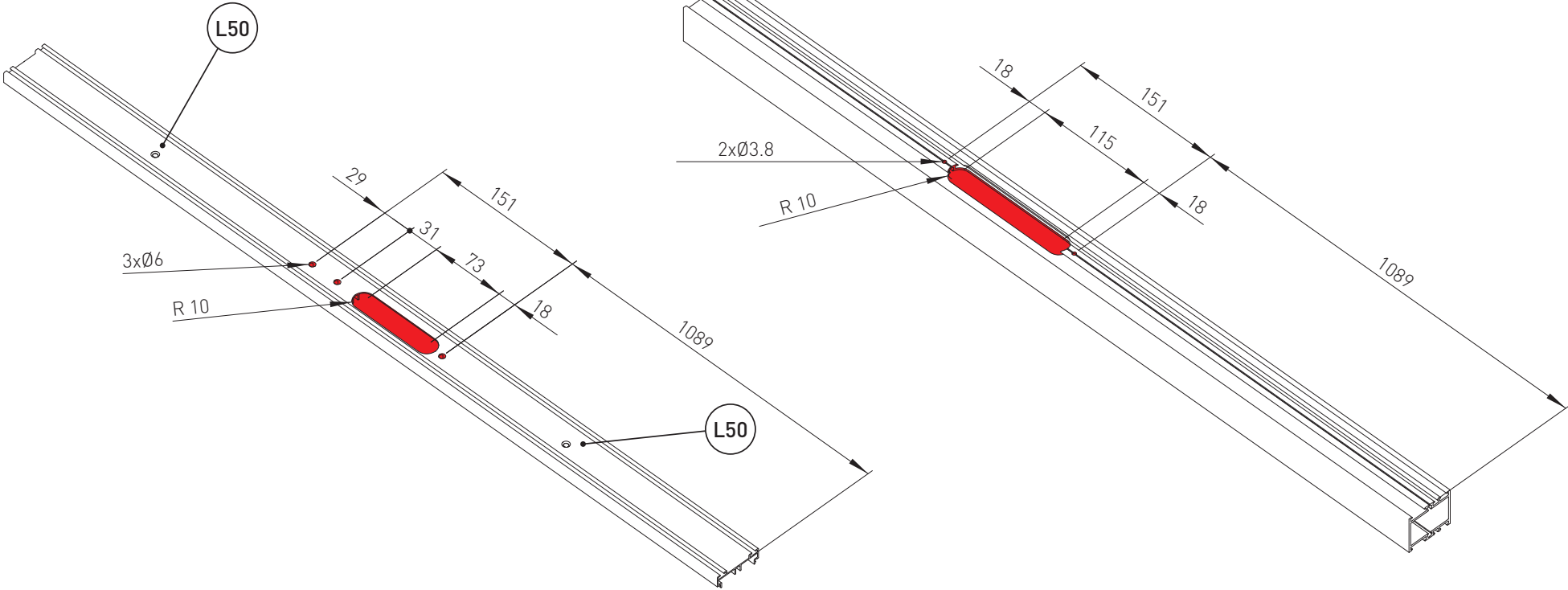


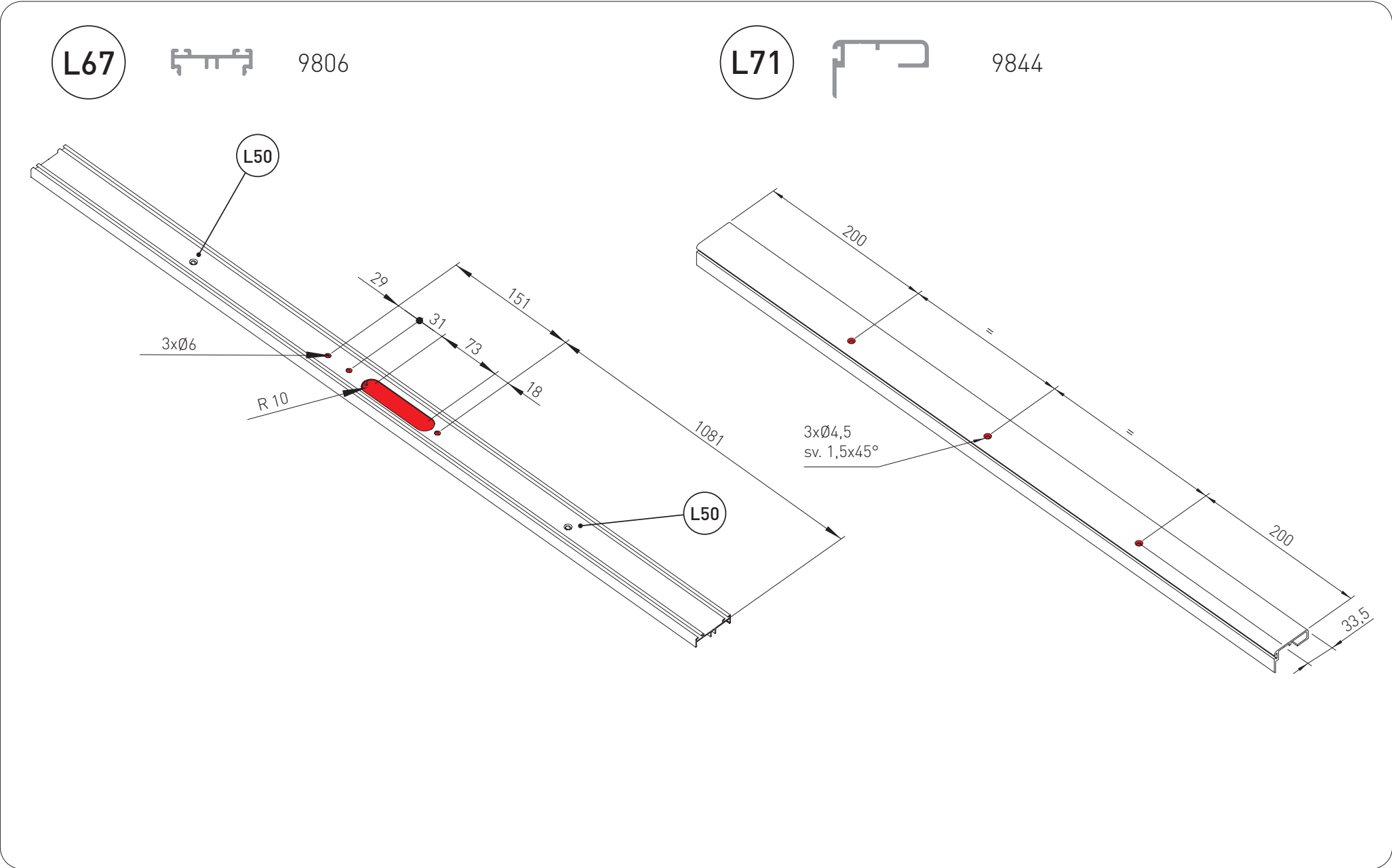
9806

L65



9811
[NOTE 2 see page 10]

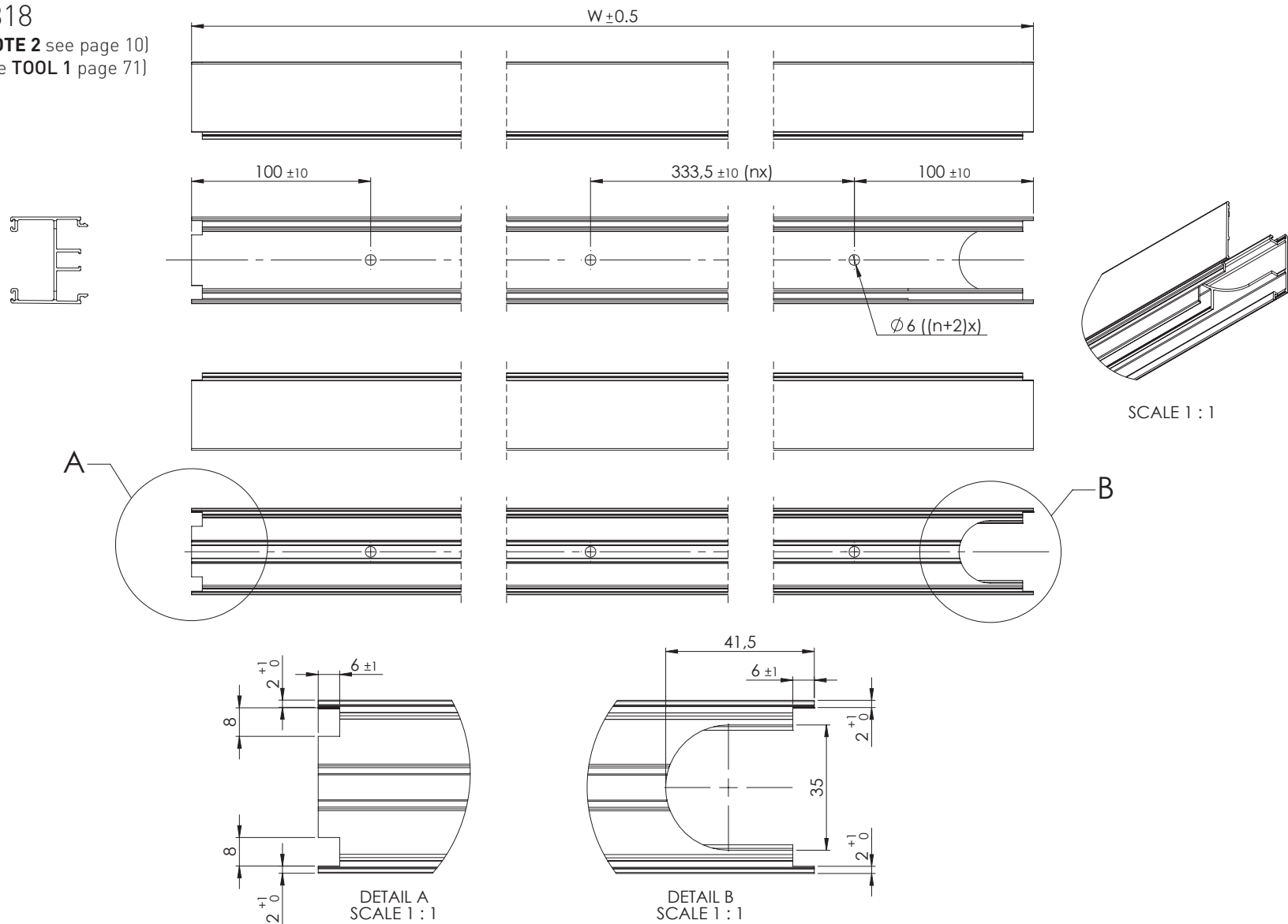




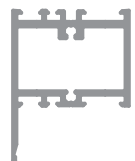
L72



9818
[NOTE 2] see page 10)
(see **TOOL 1** page 71)

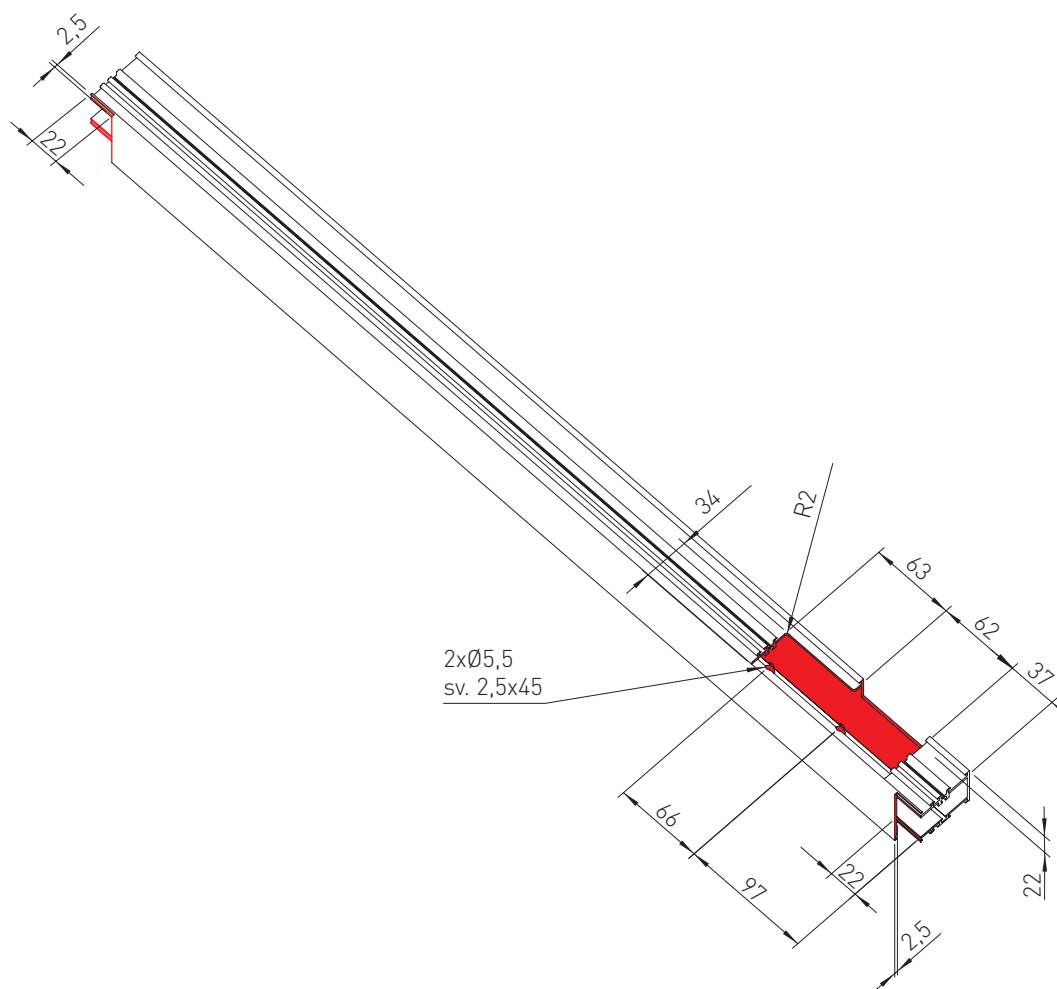


L73

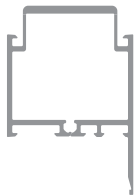


9822

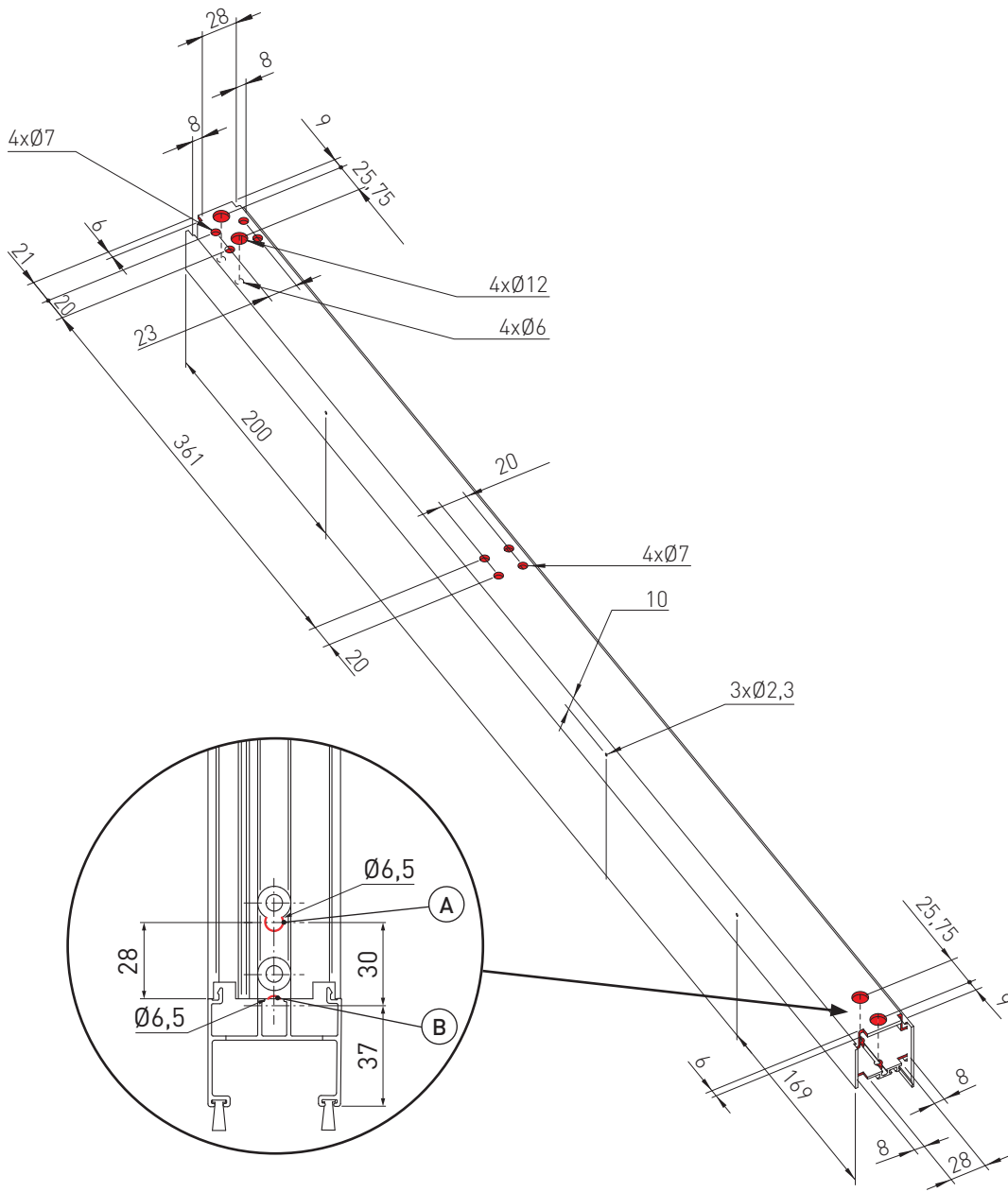
[NOTE 2] see page 10)
(see **TOOL 2** page 71)



L74



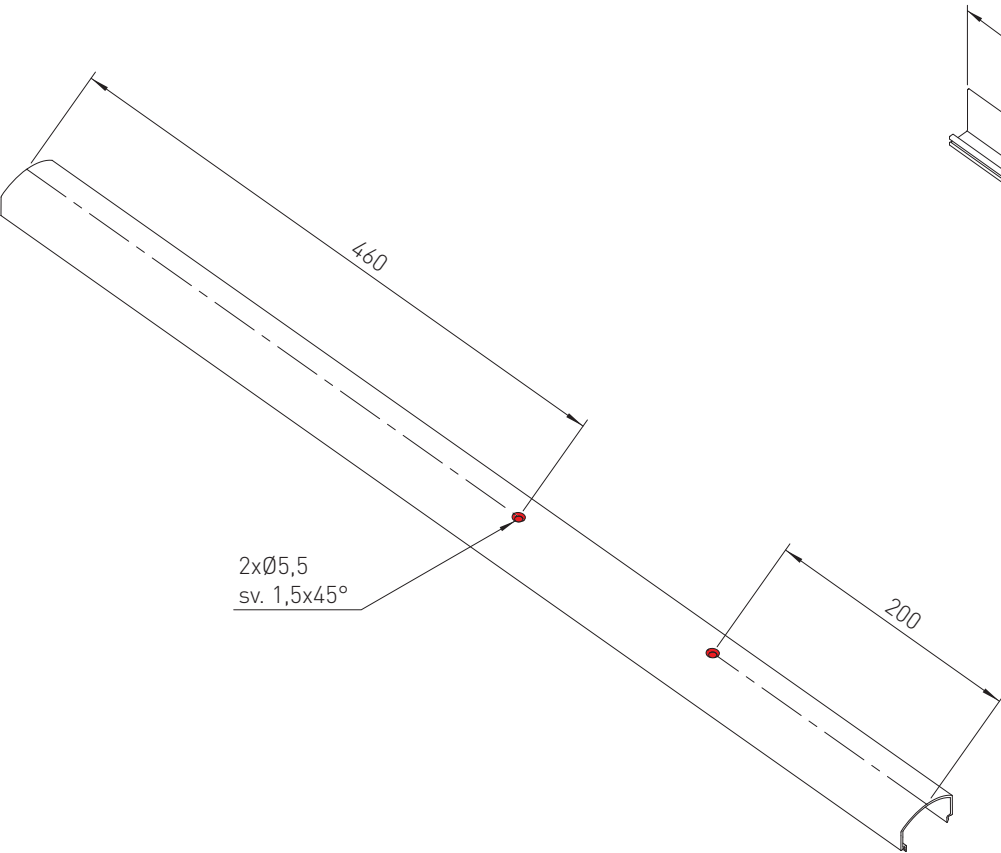
9835
(NOTE 2 see page 10)
(see TOOL 1 page 71)



L75



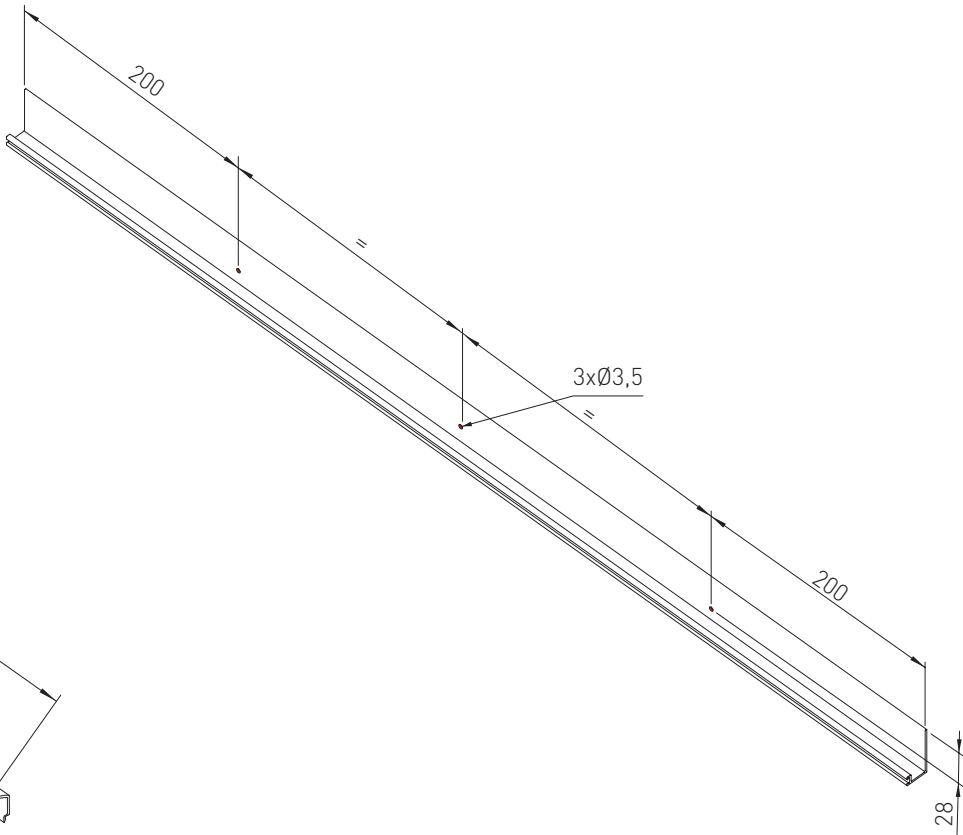
9836

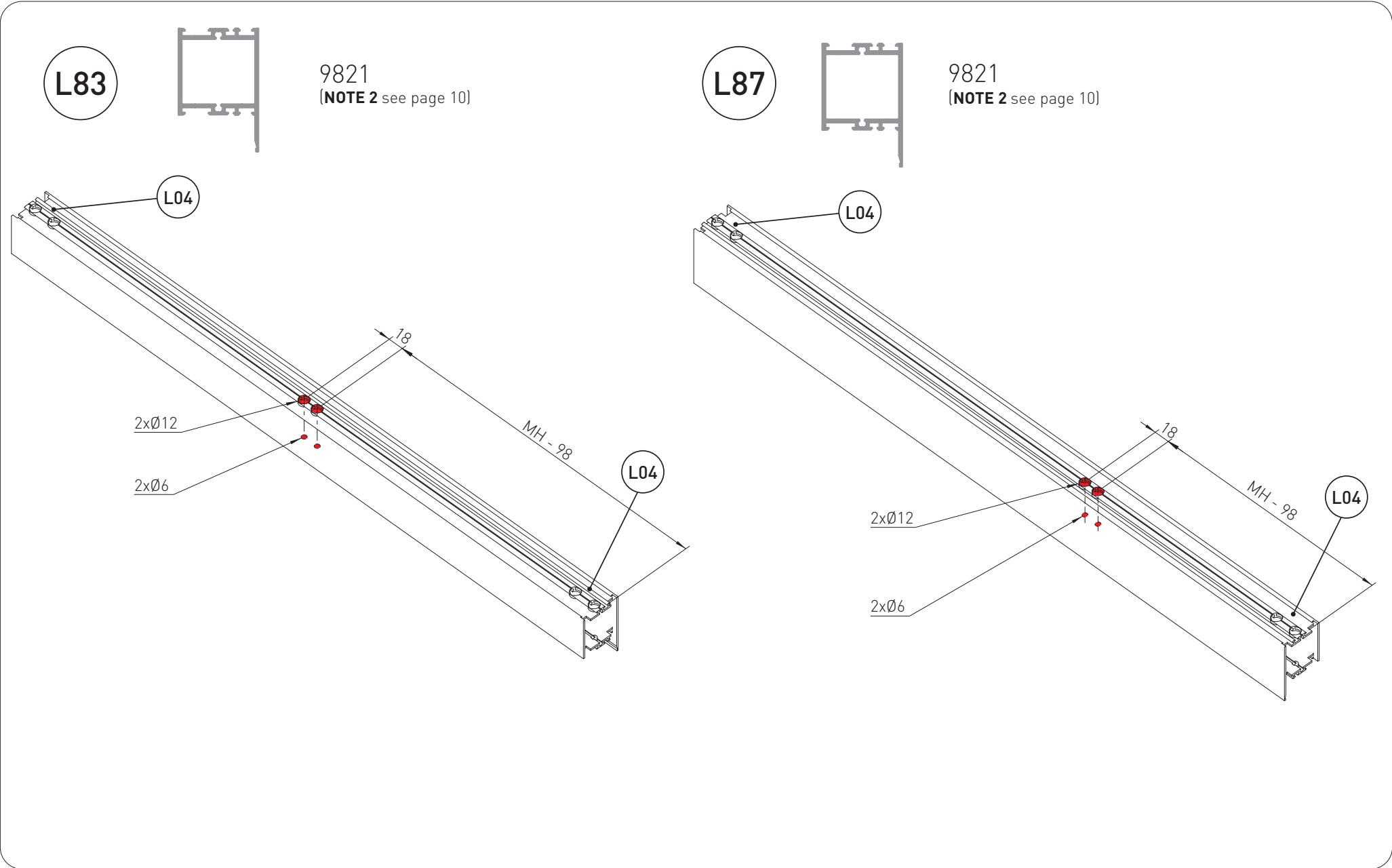


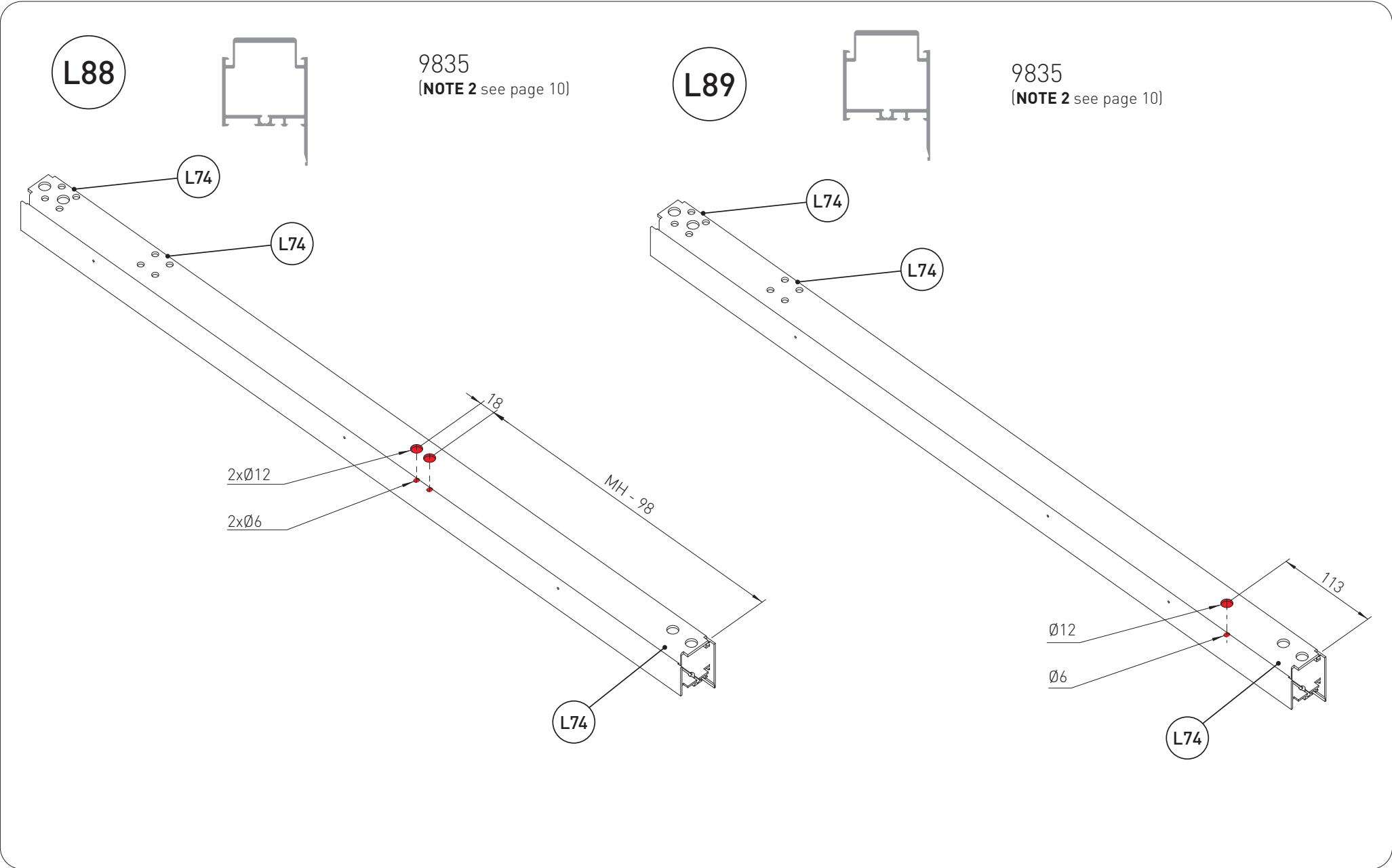
L76



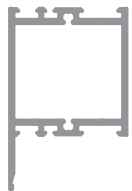
9814



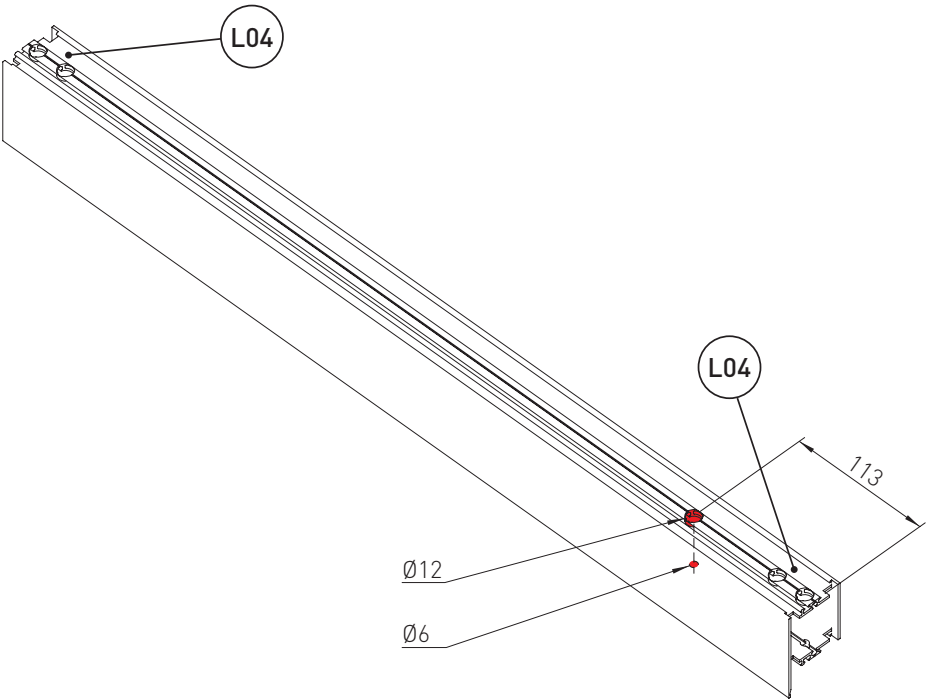


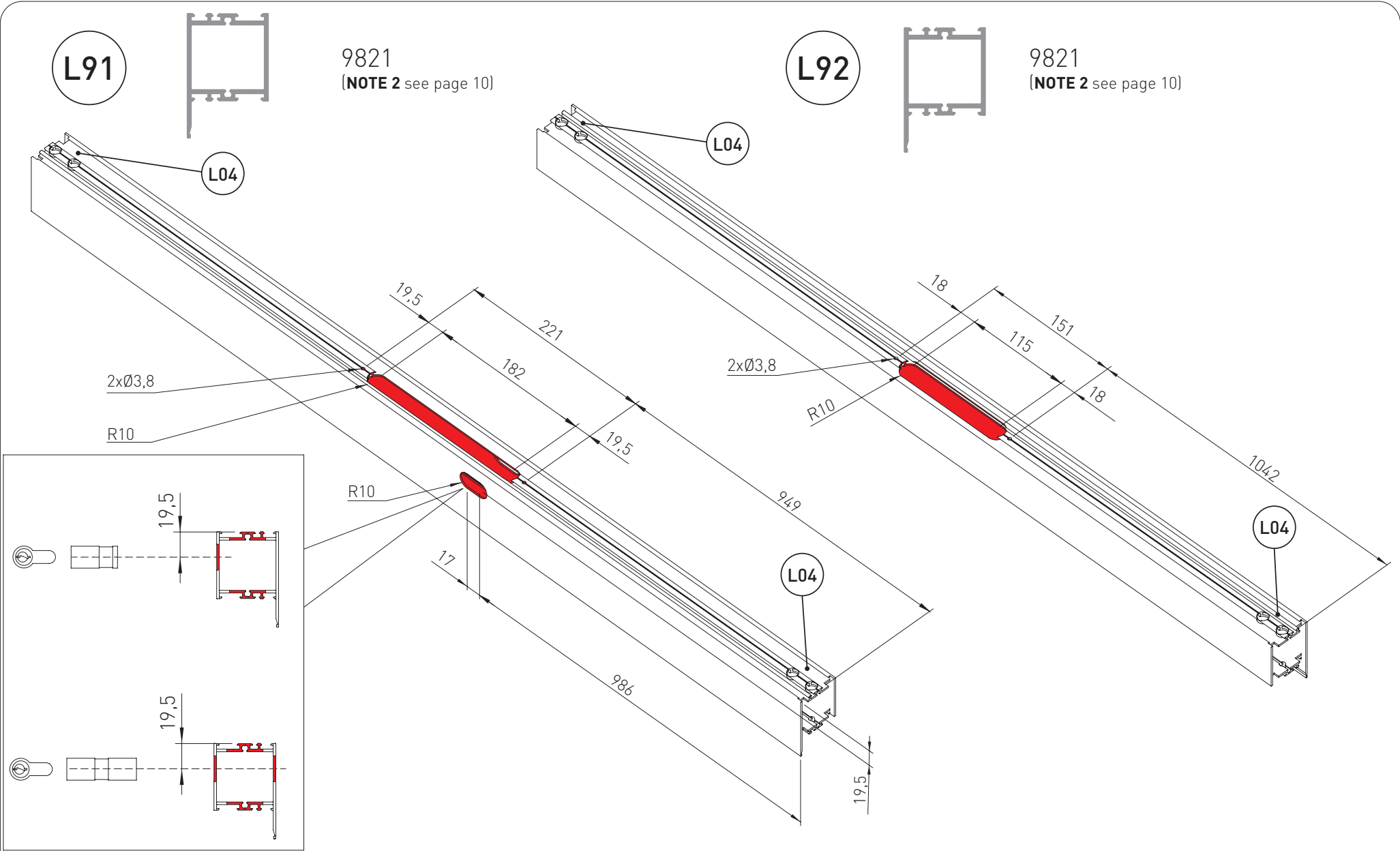


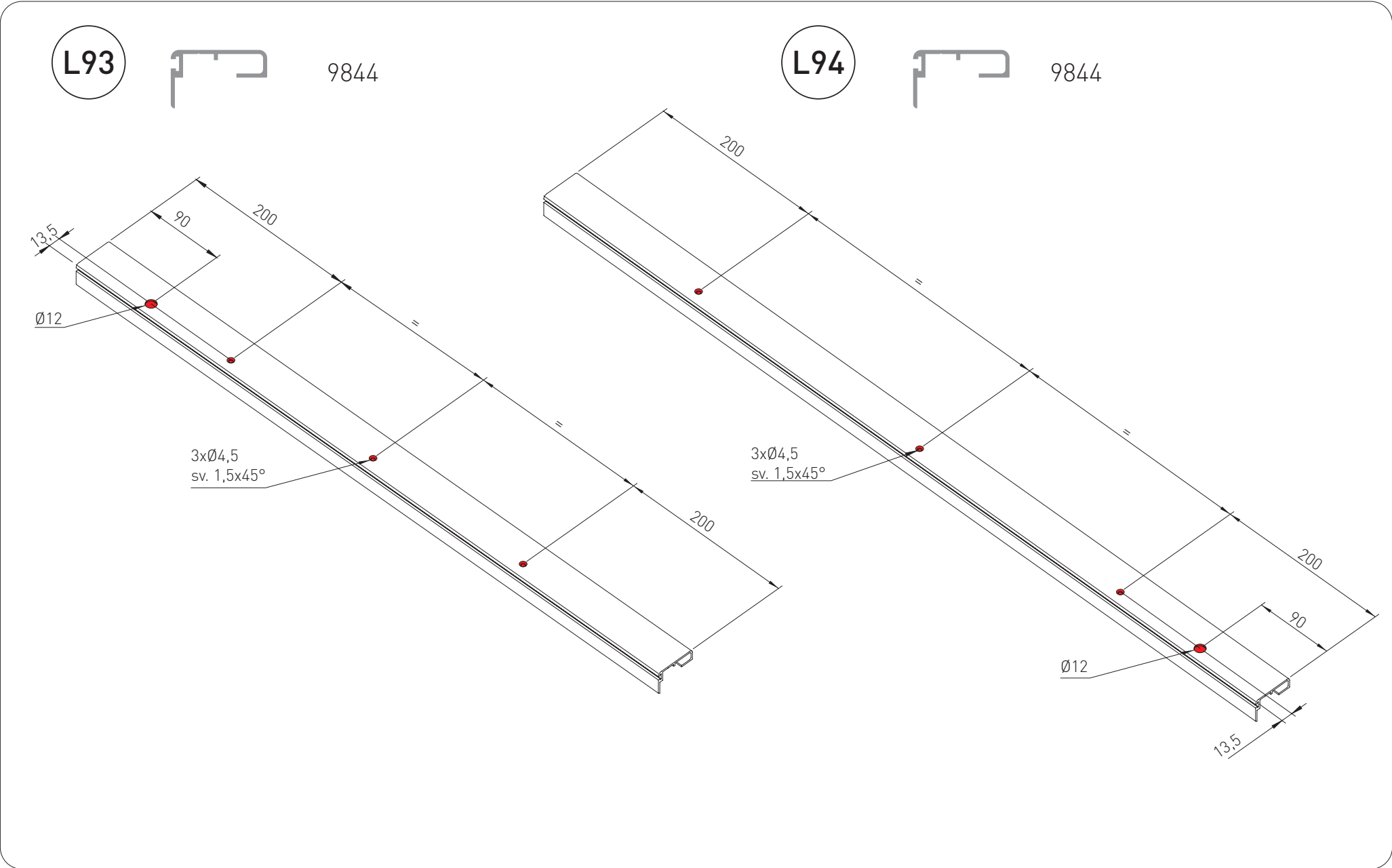
L90

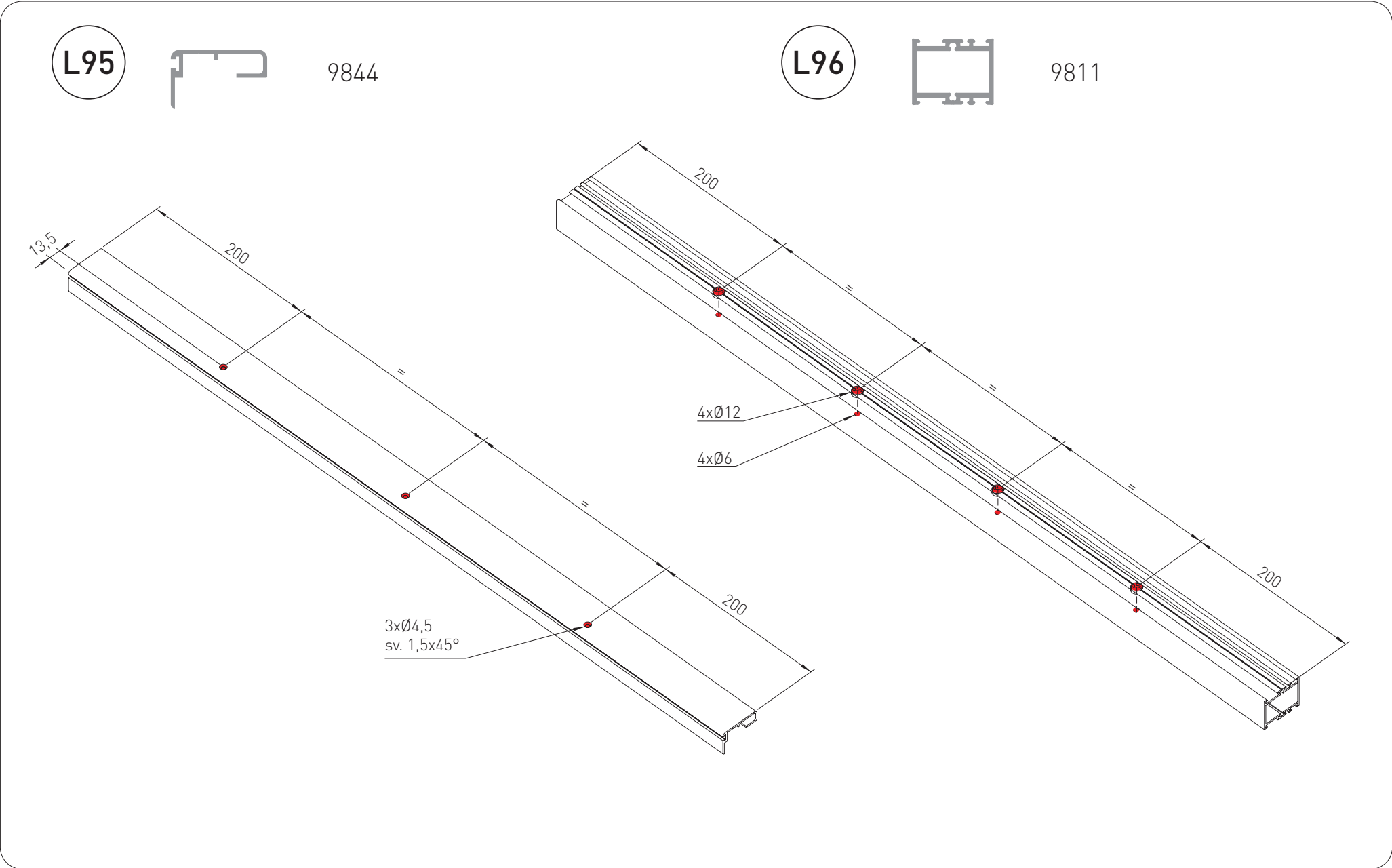


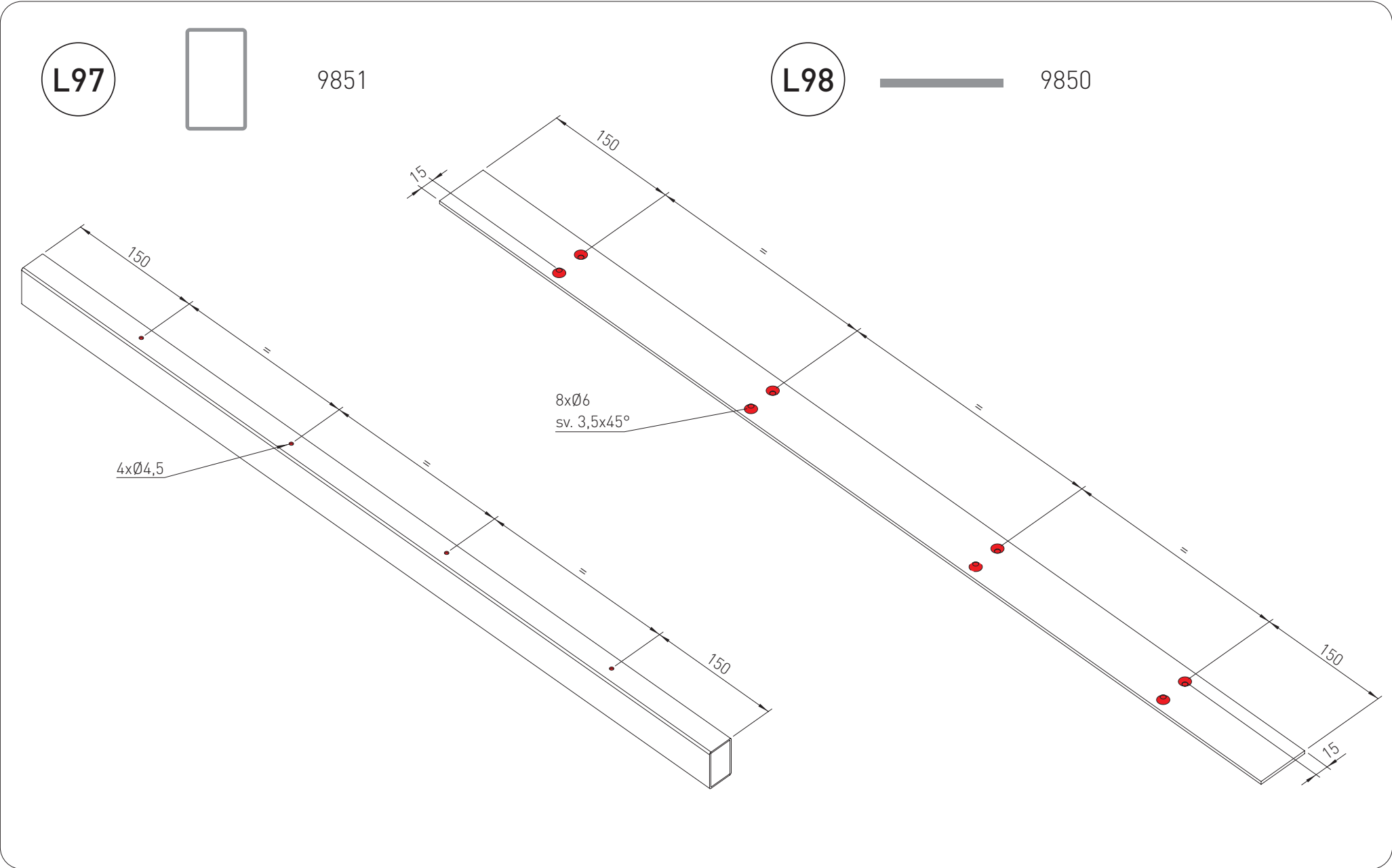
9821
[NOTE 2 see page 10]



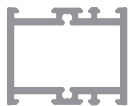




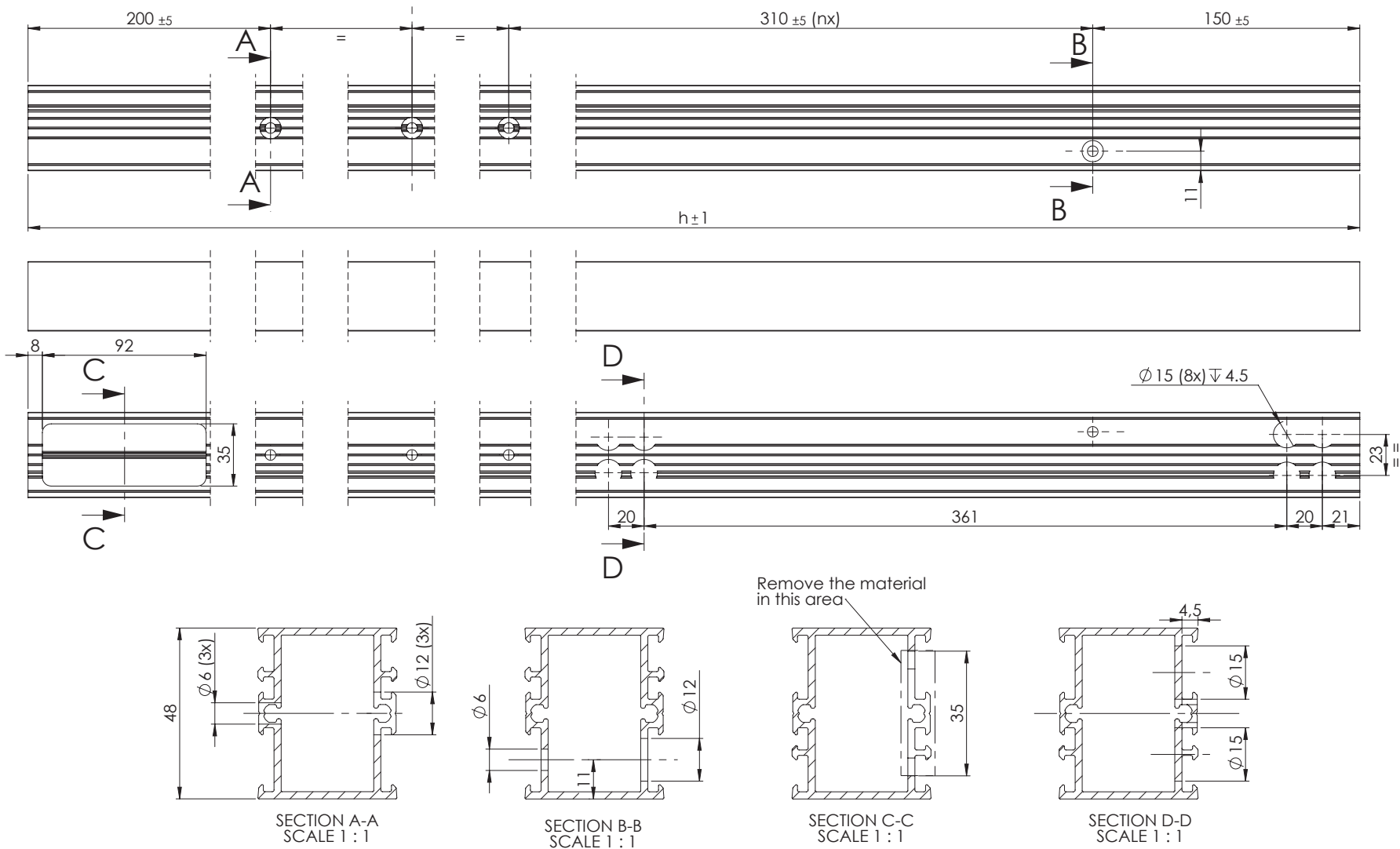




L99



9811



L100

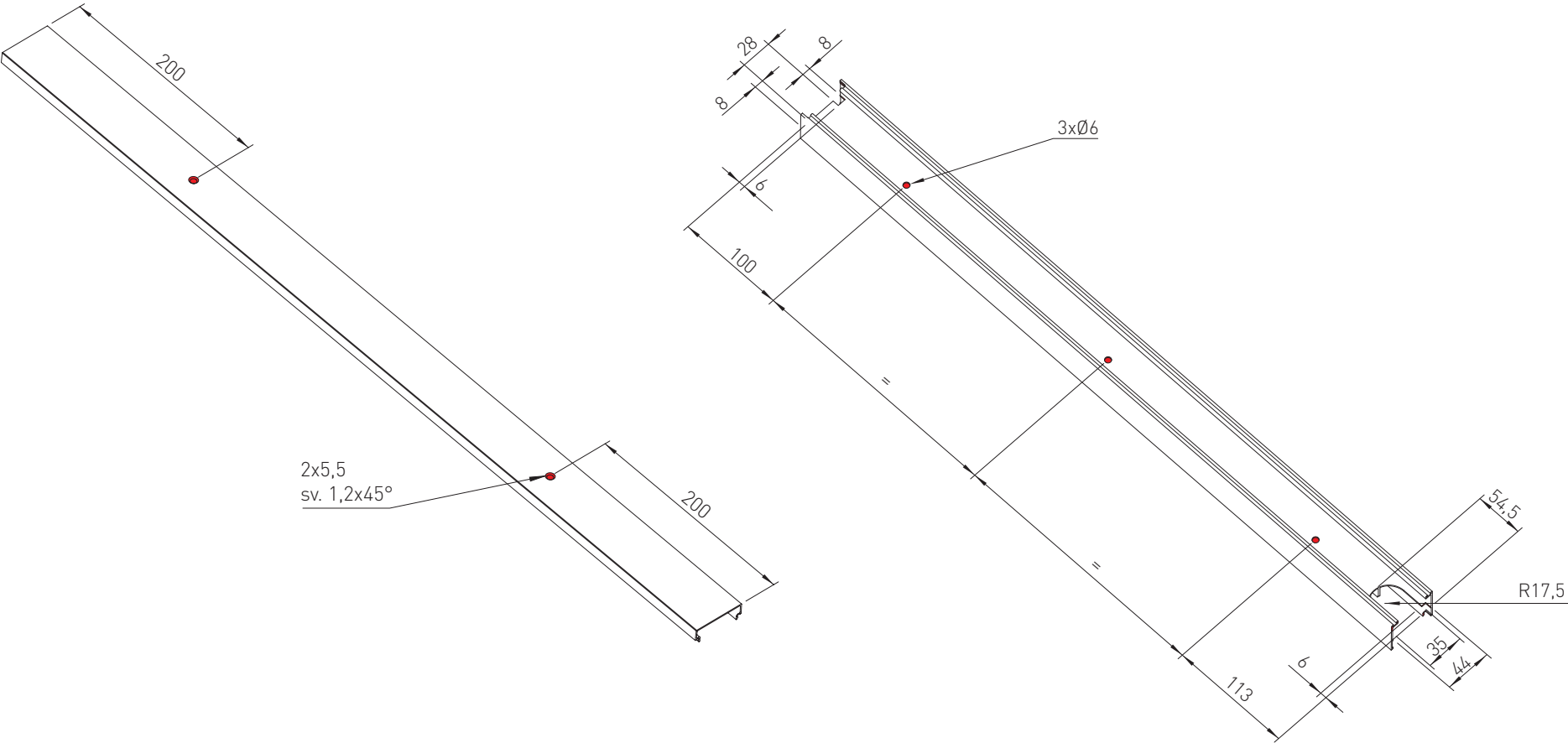


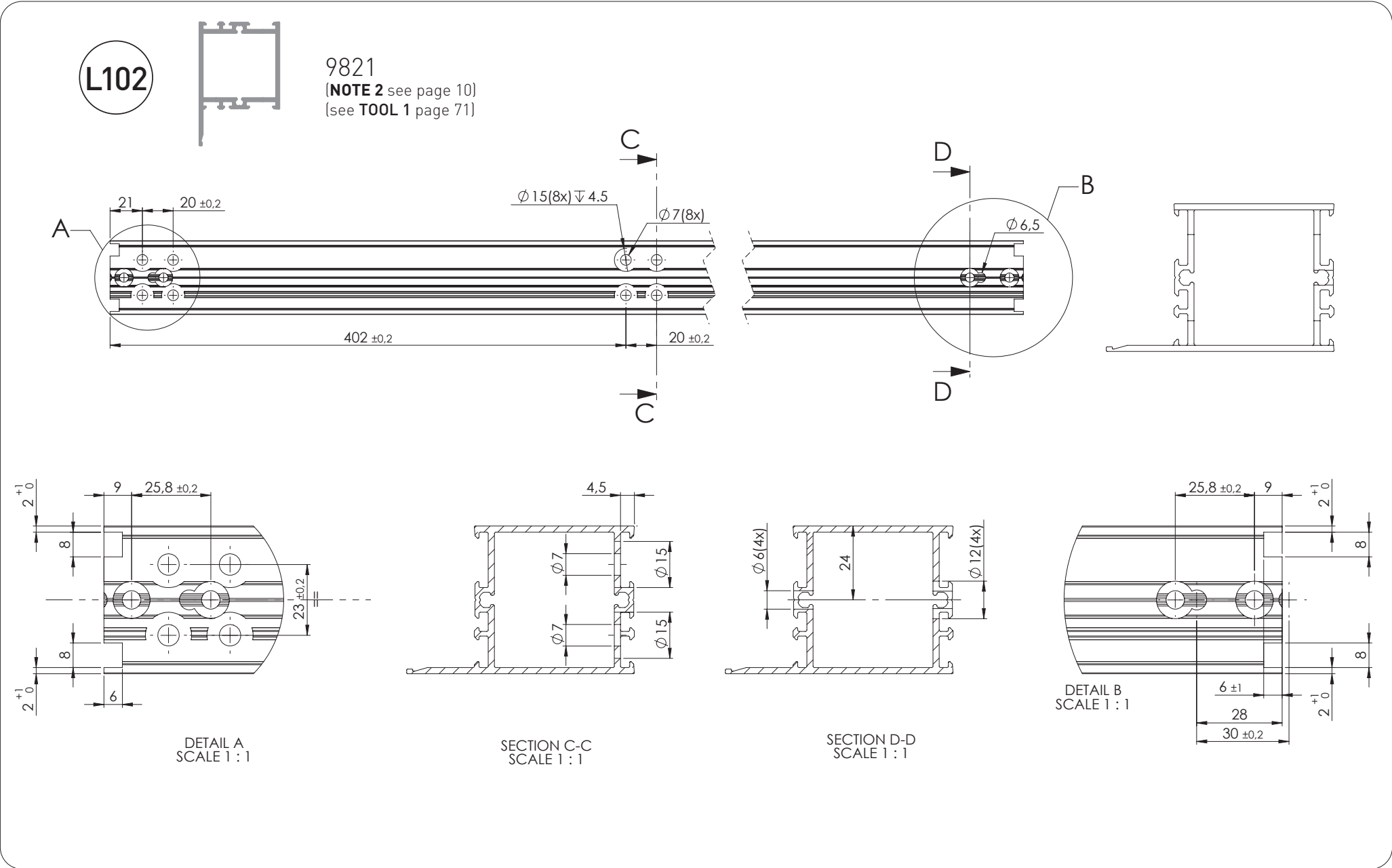
9819

L101

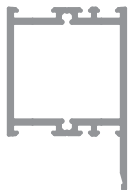


9818
(NOTE 2 see page 10)
(see **TOOL 1** page 71)

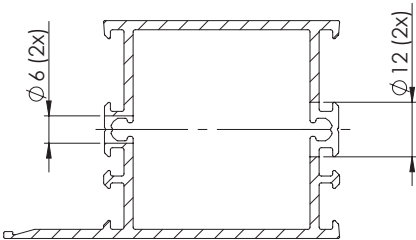
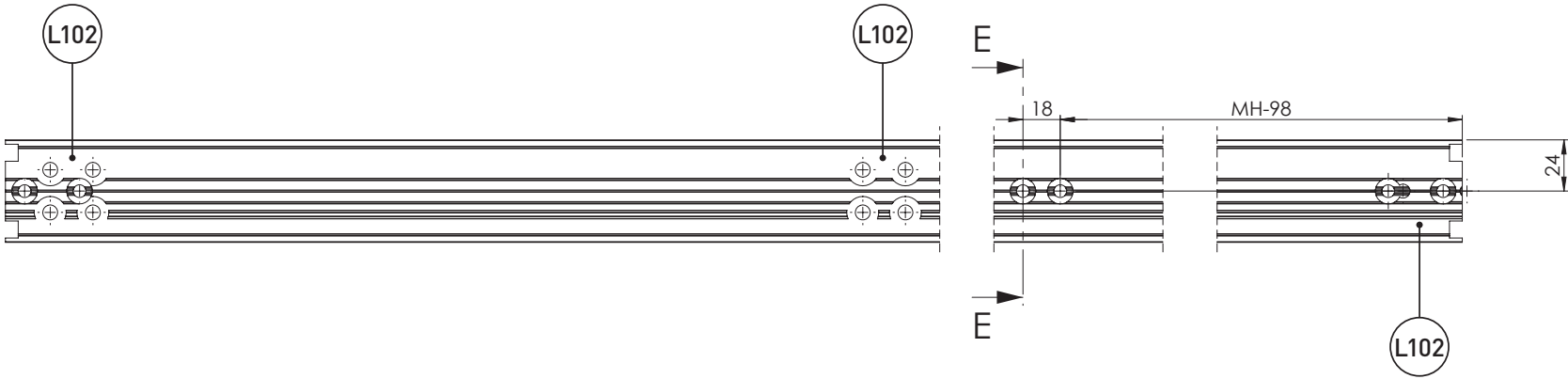




L103

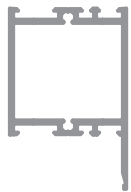


9821
[NOTE 2 see page 10]

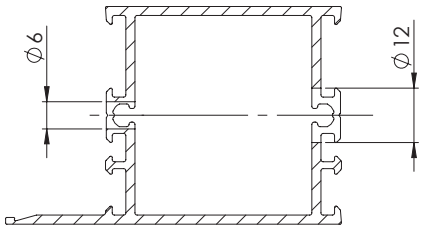
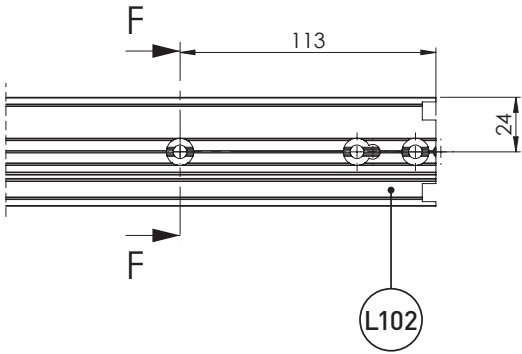


SECTION E-E
SCALE 1 : 1

L104



9821
[NOTE 2 see page 10]

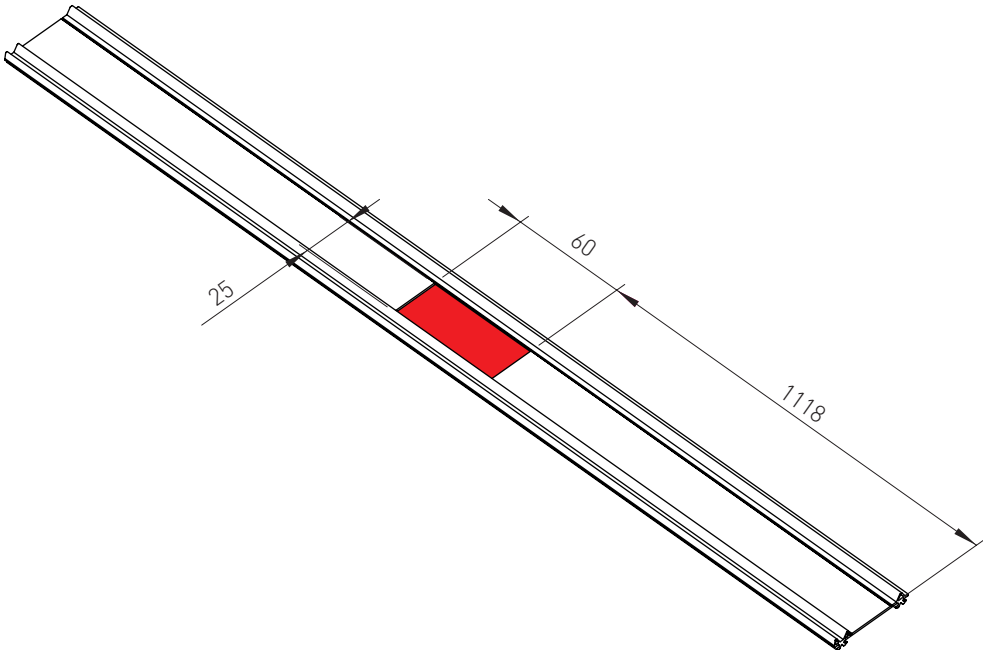


SECTION F-F
SCALE 1 : 1

G01



9829



- EN**  The crossed-out wheeled bin symbol indicates that the product should be disposed of separately from household waste. The product should be handed in for recycling in accordance with local environmental regulations for waste disposal. By separating a marked item from household waste, you will help reduce the volume of waste sent to incinerators or landfill and minimize any potential negative impact on human health and the environment.
- IT**  Il simbolo del cassonetto barrato indica che il prodotto non può essere eliminato con i comuni rifiuti domestici. Il prodotto deve essere riciclato nel rispetto delle norme ambientali locali per lo smaltimento dei rifiuti. Separando un prodotto contrassegnato da questo simbolo dai rifiuti domestici, si aiuterà a ridurre il volume dei rifiuti destinati agli inceneritori o alle discariche, minimizzando così qualsiasi possibile impatto negativo sulla salute umana e sull'ambiente.
- FR**  Le symbole de la poubelle barrée indique que le produit ne peut pas être éliminé avec les ordures ménagères ordinaires. Il doit être recyclé conformément à la réglementation environnementale locale en matière de déchets. En triant les produits portant ce pictogramme, vous contribuez à réduire le volume des déchets incinérés ou enfouis, et à diminuer tout impact négatif sur la santé humaine et l'environnement.
- DE**  Das Symbol mit der durchgestrichenen Abfalltonne bedeutet, dass das Produkt getrennt vom Haushaltsabfall entsorgt werden muss. Das Produkt muss gemäß der örtlichen Entsorgungsvorschriften der Wiederverwertung zugeführt werden. Durch separate Entsorgung des Produkts tragen Sie zur Minderung der Verbrennung oder Menge des Deponieabfalls bei und reduzieren eventuelle negative Auswirkungen auf die menschliche Gesundheit und die Umwelt.
- ES**  La imagen del cubo de basura tachado indica que el producto no debe formar parte de los residuos habituales del hogar. Se debe reciclar según la normativa ambiental local de eliminación de residuos. Cuando se separan los productos que llevan esta imagen, se contribuye a reducir el volumen de residuos que se incineran o se envían a vertederos y se minimiza el impacto negativo sobre la salud y el medio ambiente.
- PT**  O símbolo do caixote do lixo com o sinal de proibição indica que esse artigo deve ser separado dos resíduos domésticos convencionais. Deve ser entregue para reciclagem de acordo com as regulamentações ambientais locais para tratamento de resíduos. Ao separar um artigo assinalado dos resíduos domésticos, ajuda a reduzir o volume de resíduos enviados para os incineradores ou aterros, minimizando o potencial impacto negativo na saúde pública e no ambiente.

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