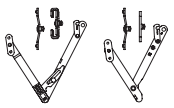
PRIMAT-FL 190
PRIMAT-A

- (D) **Montageanleitung**
- (GB) **Mounting instructions**
- (F) **Instructions de montage**
- (NL) **Montage handleiding**
- (I) **Istruzioni di montaggio**
- (E) **Instrucciones de montaje**
- (TR) **Montaj talimatı**
- (PL) **Instrukcja montażowa**
- (RUS) **Инструкция по монтажу**



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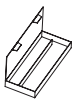

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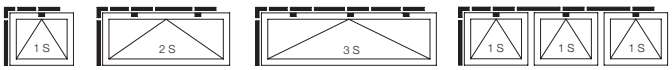

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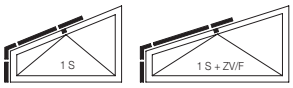

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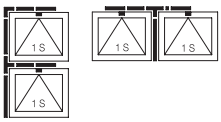

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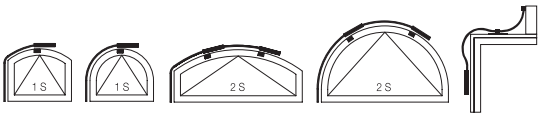
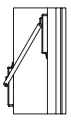


UE Flex 17



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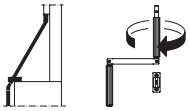

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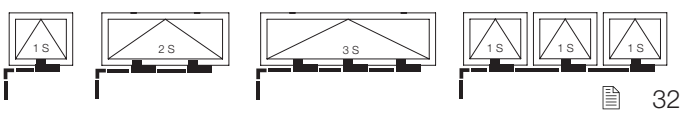
PRIMAT-A



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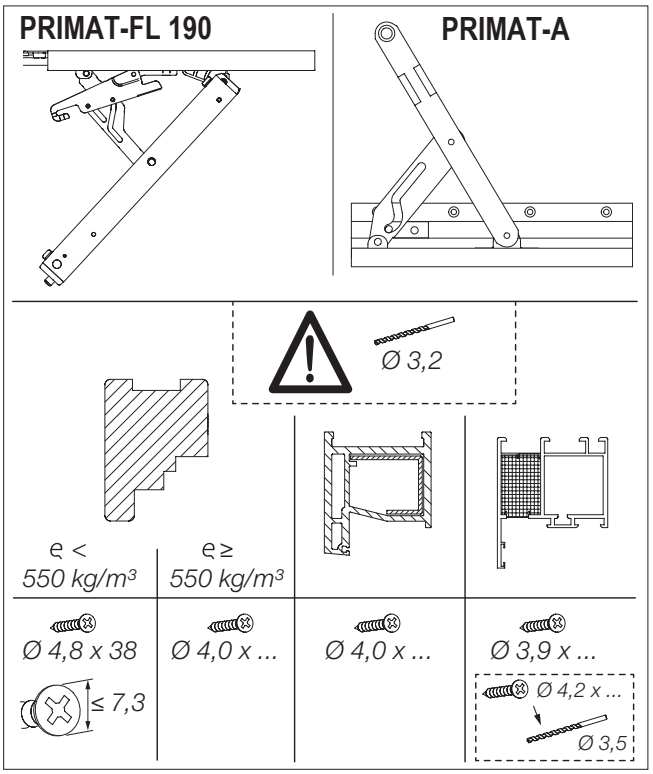

(D) Produkthaftungsvorschriften

Die Verklotzungs-Richtlinien für Verglasungstechnik sind einzuhalten.
Bei aggressiven Hölzern (z.B. Afzelia) sind die Beschlagausfräsungen vor der Beschlagmontage zum Schutz der Beschläge mit einem Schutzlack zu behandeln. Für die ständige Funktionssicherheit des Beschlages ist folgendes zu beachten:

1. Fachgerechte Montage des Beschlages gemäß der Anleitung.
2. Fachgerechte Montage der Elemente beim Fenstereinbau.
3. Beachtung der Wartungs- und Bedienungsanleitung.
4. Benutzer-Information gut sichtbar am eingebauten Fensterelement anbringen sowie Wartungs- und Bedienungsanleitung an Benutzer aushändigen.
5. Der Gesamtbeschlag darf nur aus original HAUTAU-Systemteilen bestehen. Bei Einsatz fremder Beschlagteile (z. B. Zentralverschluss, Griff) wird jegliche Haftung für diese Bauteile ausgeschlossen.
6. Für Ausführung SKG siehe Anweisungen:
   - PRIMAT-FL 190: Dokument 201253,
   - PRIMAT-A: Dokument 238058.

Produkthaftung-Haftungsausschluss:
Der Beschlaghersteller haftet nicht für Funktionsstörungen oder Beschädigungen der Beschläge sowie der damit ausgestatteten Fenster oder Fenstertüren, wenn diese auf den Einsatz fremder Beschlagteile, unzureichende Ausschreibung, Nichtbeachtung der Montagevorschriften oder Anwendungsdiagramme zurückzuführen sind.

Der Verarbeiter ist für die Einhaltung der in dieser Montageanleitung (bzw. der in der Werkstattzeichnung) angegebenen Funktionsmaße sowie für eine einwandfreie Beschlagmontage und sichere Befestigung aller Bauteile verantwortlich.

Schutzvermerk zur Beschränkung der Nutzung von Unterlagen nach DIN ISO 16016. © HAUTAU GmbH

Benutzerinformation

– Händigen Sie mit dem Produkt die Wartungs- und Bedienungsanleitung für Endanwender aus.
– Bewahren Sie diese Anleitung für einen späteren Gebrauch auf.
– Beachten Sie die “Vorgaben und Hinweise zum Produkt und zur Haftung (VHBH)”. Informieren Sie den Endanwender über den Inhalt der “Vorgaben und Hinweise für Endanwender (VHBE)”.

GB

Product liability instructions

The blocking guidelines for glazing techniques have to be adhered to.

The following points have to be observed for the continuous functional reliability of the hardware:

1. Professional installation of the hardware in accordance with these instructions.
2. Professional installation of the elements when the window is fitted.
3. Adherence to the maintenance and operating instructions.
4. Attach the user information well visibly to the built-in window element, and hand over the maintenance / operating instructions to the user.
5. The hardware shall only consist of genuine HAUTAU system parts. Use of any other hardware parts (e.g. central lock, handle) will exclude any liability for these components.

Exclusion from product liability:
The manufacturer of the hardware shall not be liable for any malfunctions of or damage to the hardware as well as the windows or French doors fitted, if the malfunctions of the tilt and slide hardware can be traced back to the use of bought-in sash fasteners, insufficient invitation to tender, non-observation of the rebating instructions or application diagrams.

The installing party shall be responsible for the adherence to these mounting instructions, respectively to the functional dimensions given in the workshop drawing as well as for a perfect installation of the hardware and safe attachment of all components.

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User information

– Hand out product together with maintenance and instruction manual to end-user.
– Keep these instructions in a safe place for later use.
– Please comply with the “Requirements/instructions on the product and on liability (VHBH)”. Please inform the end-user about the content of the “Requirements/instructions for end-users (VHBE)”.

F

Responsabilité produits

Les directives sur les butées pour la technique du vitrage doivent être respectées.
Pour une sécurité de fonctionnement constante de la ferrure, il faut tenir compte de ce qui suit:

1. Montage de la ferrure selon les règles de l’art, conformément à ces instructions.
2. Montage des éléments selon les règles de l’art lors du montage de la fenêtre.
3. Respect des instructions de maintenance et de service.
4. Apposer les informations destinées aux utilisateurs sur l’élément de fenêtre monté de manière à ce qu’elles soient bien visibles et remettre les instructions de maintenance / de service à l’utilisateur.
5. L’ensemble de la ferrure doit être exclusivement composé d’éléments de système HAUTAU originaux. L’utilisation d’éléments de ferrure autres (par ex. fermeture centrale, poignée) exclut toute garantie pour ces pièces.

Exclusion de responsabilité produits:
Le fabricant de ferrures ne peut être tenu responsable d’un mauvais fonctionnenment ou de la déterioration des ferrures ou des châssis lorsqu’ils sont imputables à l’utilisation d’autres composants, à un descriptif insuffisant, à la non-observation des consignes de montage ou des diagrammes d’application.

Le menuisier est tenu de respecter les côtes indiquées sur le plan de montage. Il est responsable de l’assemblage de la ferrure.

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Information pour l’utilisateur

– Avec le produit veuillez remettre à l´utilisateur final les instructions de maintence et le mode d´emploi.
– Veuillez garder les instructions pour un usage ultérieur.
– Veuillez noter la directive (VHBH) “Instructions/notices sur le produit et la responsabilité“. Veuillez informer l´utilisateur final sur le contenu de la directive (VHBE) “Instructions et notices pour l´utilisateur final“.

I

Norme per la garanzia del prodotto

Il produttore del serramento deve assicurarsi del corretto montaggio di tutte le parti. Sono da rispettare le direttive tecniche per il caricamento del vetro.

Nel caso di utilizzo di legni particolarmente aggressivi (p. es. Afzelia), eseguire tutte le fresate prima del montaggio della ferramenta e trattare le parti fresate con una vernice protettiva.

1. Montaggio a regola d’arte rispettando le istruzioni di montaggio.
2. Posa in opera a regola d’arte del serramento.
3. Utilizzo e rispetto delle istruzioni d’uso e manutenzione.
4. Applicare le informazioni d’utilizzo bene a vista sul serramento posato in opera e consegnare le istruzioni di uso e manutenzione all’utilizzatore.
5. La ferramenta deve essere composta solo da pezzi originali HAUTAU. HAUTAU non risponde per la ferramenta perimetrale, se diversa.

Garanzia del prodotto – esclusione di garanzia:
Il produttore di ferramenta non risponde per il cattivo funzionamento, danni della ferramenta o del serramento su cui questa è montata, se i motivi sono derivanti da: utilizzo di pezzi estranei di ferramenta, descrizione insufficiente di capitolato, non osservanza delle istruzioni di montaggio o dei diagrammi d’applicazione.

Il montatore è responsabile dell’osservanza di tutte le misure riportate in queste istruzioni di montaggio o nel disegno esecutivo, come anche, del montaggio a regola d’arte ed il giusto fissaggio di tutti i pezzi che compongono la ferramenta. Nota di sicurezza per l‘utilizzo delle documentazioi secondo DIN ISO 16016.

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Informazioni utente

– Vi preghiamo di consegnare all’utente finale, insieme al prodotto, le istruzioni di utilizzo e manutenzione.
– Vi preghiamo di conservare le istruzioni per il futuro.
– Vi preghiamo di osservare le “Norme e indicazioni del prodotto e della garanzia (VHBH)”. Per favore informare l’utente finale del contenuto delle “Norme e indicazioni per l’utente finale (VHBE)”.

E

Prescripciones para la responsabilidad del producto

Deberán cumplirse las líneas directrices de enganche para la técnica de acristalamiento. Para la seguridad de funcionamiento del herraje deberá de tenerse en cuenta lo siguiente:

1. Correcto montaje del herraje de acuerdo con estas instrucciones.
2. Correcto montaje de los elementos en la colocación de la ventana.
3. Observación de las instrucciones para el manejo y mantenimiento.
4. Colocar la información al usuario bien visible en el elemento de la ventana montado y entregar al usuario las instrucciones de manejo.
5. El herraje total sólo puede ser de piezas de sistema originales de HAUTAU. La utilización conjunta de piezas de herraje de otros fabricantes (p.e. cierre central, manilla) excluye toda responsabilidad para estos componentes.

Garantías del producto:
El fabricante del herraje no se hará responsable de fallos en el funcionamiento o daños en los herrajes ni de las ventanas o puertas con éstos equipadas, si dichos fallos o daños fuesen achacables a una licitación insuficiente, no-observación de las instrucciones de manejo o de los diagramas de utilización.

El montador es responsable del cumplimiento de las medidas de funcionamiento indicadas en estas instrucciones de manejo o bien en el plano de taller (de fabricación) así como del correcto montaje del herraje y fijación segura de todos los componentes.

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Información de usuario

– Entregar el producto junto con las instrucciones de uso y mantenimiento al usuario final.
– Guardar las instrucciones en un lugar seguro para su uso posterior.
– Por favor, siga las “Especificaciones e indicaciones relativas al producto y a la garantía (VHBH)“. Por favor, informe al usuario final acerca del contenido de las “Especificaciones e indicaciones para el usuario final (VHBE)“.

(NL)

Voorschriften voor produktaansprakelijkheid

De voorschriften voor het aanbrengen van steunklosjes voor de beglazing dienen te worden opgevolgd. Voor de permanente veilige werking van het beslag dient op de volgende punten te worden gelet:

1. Een vakkundige montage van het beslag volgens deze montagehandleiding.
2. Vakkundige montage van de elementen bij inbouw in de gevel.
3. Opvolgen van de voorschriften in de onderhouds- en bedieningshandleiding.
4. Bedieningsinformatie voor de gebruiker goed zichtbaar op het ingebouwde vensterelement aanbrengen en de onderhouds / bedieningshandleiding aan de gebruiker overhandigen.
5. Het complete beslag mag uitsluitend bestaan uit origineel HAUTAU systeemcomponenten. Gedeeltelijke toepassing van beslagdelen van derden (bijv. de centraalsluitlng, kruk) sluit iedere aansprakelijkheid voor deze onderdelen uit.
6. Voor SKG uitvoering zie instructie's:
   - PRIMAT-FL 190: instructie 201253,
   - PRIMAT-A: instructie 238058.

Uitsluitingen van de produktaansprakelijkheid:
De fabrikant van het beslag is niet aansprakelijk voor storingen in de werking of beschadigingen aan het beslag, en van vensters of deuren die met het beslag zijn uitgevoerd, indien de storingen te wijten zijn aan gebruiik van beslag van derden, een ontoereikend bestek, of het niet in acht nemen van de voorschriften of toepassingstekeningen voor het bevestigen van het beslag.

De verwerker is verantwoordelijk voor het aanhouden van de in deze montagehandleiding respectievelijk de in de werkplaatstekening aangegeven afmetingen, alsmede voor een foutloze montage van het beslag en een veilige bevestiging van alle onderdelen.
Wettelijk gedeponeerd ter beperking voor het gebruik van documenten naar DIN ISO 16016. © HAUTAU GmbH

Gebruikers informatie

– Overhandigd U bij het Product de Onderhouds instructie en de Bedienings handleiding aan de Eindgebruiker.
– Bewaar deze Handleidingen op een goede plaats, voor later gebruik.
– Let u op de "Richtlijnen en Aanwijzingen bij het Product en de Aansprakelijkheid (VHBH)", Informeerd U alstublieft de Eindgebruiker over de inhoud van de "Richtlijnen en Aanwijzingen voor de Eindgebruiker (VHBE)".

(PL)

Warunki prawidłowego montażu

Należy również zadbać o prawidłowe osadowienie przeszklenia w oknie. W celu zapewnienia stałego i bezpiecznego funkcjonowania okucia, wymagane jest spełnienie następujących warunków:

1. Prawidłowy montaż okucia, zgodny z niniejszą instrukcją.
2. Prawidłowe zamontowanie okna w budynku.
3. Prawidłowa, zgodna z instrukcją konserwacja i obsługa okna (okucia).
4. Poinformowanie i przeszkolenie użytkownika o prawidłowej konserwacji i obsłudze okna (okucia).
5. Zastosowanie do okuwania okna wyłącznie części oryginalnych firmy HAUTAU. Zastosowanie części innych niż oryginalne (np. zamek centralny, klamka itp.) wykluczają odpowiedzialność producenta za tak zamontowane okucie.

Warunki gwarancji i odpowiedzialności producenta okucia
Producent okucia nie odpowiada za nieprawidłowe funkcjonowanie lub uszkodzenie okucia oraz pozostałych elementów okna lub drzwi balkonowych, jeżeli do okuwania nie zastosowano oryginalnych części firmy HAUTAU lub też nieprawidłowo zamontowano okucie nie przestrzegając warunków prawidłowego montażu i diagramu ograniczeń technicznych zastosowania okucia.
Producent okien montujący okucie, odpowiedzialny jest za montaż okucia zgodny z instrukcją, a w szczególności zastosowanie odpowiedniego kompletu okucia, bezbłędny montaż tego okucia oraz pewne (bezpieczne) zamocowanie wszystkich jego części.
Adnotacja ochronna do ograniczenia używania dokumentacji DIN ISO 16016.
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Informacje użytkownika

– Podręcznik informacyjny dt. produktu, konserwacji i instrukcji obsługi dla indywidualnego użytkownika.
– Proszę przechować powyższą informację w razie potrzeby.
– Przestrzegać należy "Zaleceń i wskazówek dt. produktu i odpowiedzialności związanej z (VHBH)". Proszę informować użytkowników o treści "Zaleceń i wskazówek dla użytkowników (VHBE)".

(TR)

Ürün Mesuliyet Talimatı

Cam takma tekniklerinin, takozlama normlarına uymak gerekiyor. Agresif ahşapların aksesuar montajı için frezelenmiş yerlerini, koruma nedeniyle, aksesuar montajı öncesi cilalyınız.
Aksesuarın daima çalşma emniyeti için:

1. Montaj talimatına uyarak, bir Uzman tarafından aksesuarın monte edilmesi gerekmektedir.
2. Pencere takılırken, bir uzman tarafından parçaların monte edilmesi.
3. Bakım ve kullanma kılavuzunun dikkate alınması.
4. Kullanıcı bilgilerini, iyi görünür bir şekilde monte edilmiş Pencere parçasına takınız. Bakım ve Kulanma Kılavuzunu, kullanıcıya teslim ediniz.
5. Aksesuar, sadece Havalandırma ve Sürme aksesuar sistem parçalarından oluşabilir. Yabancı aksesuar kulanıldığında (örnek: merkezi killt, kol v. s), bu yapi malzemelerinin mesuliyeti kabul edilmez.

Ürün Mesuliyeti – Mesuliyet Bitimi
Aksesuar imalatcısı, kapı ve pencereler`deki mekanizma hatalarını, aksesuar hasarını, yabanci aksesuar kullanı ldığında, yetersiz hale ilan yapıldıysa, verilen talimatlara dikkat edilmemiş veya kullanma diyagramlarında uygunsuzluk var ise, aksesuar, kapı ve pencerelerin mesuliyetini kabul etmez.
Montaj kılavuzunun doğru kullanılması veya teknik çizimlerdeki mekanizma ölçülerinin dikkate alınması, problemsiz bir aksesuar montajı ve tüm yapı parçalarının monte edilmesinden sadece montaji yapan kişi sorumlu tutulur.
DIN ISO 16016'ye uygun olan belgelerin kullanılmasının sınırlanması için önlem işareti.
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Kullanım klavuzu

– Bakım ve kullanım talimatı klavuzunu, ürünle birlikte son kullanıcıya veriniz.
– Talimatı ileriki dönemlerde kullanmak üzere saklayınız.
– "Üretim ve sorumlulukta, ön koşul ve bilgiler (VHBH)" e dikkat ediniz. Son kullanıcıları da "Son kullanıcılar için ön koşul ve bilgiler (VHBE)" konusunda bilgilendirin.

(RUS)

Гарантийные предписания

Должны соблюдаться требования по остеклению. При использовании химически активных пород древесины (например, махагон) перед установкой фурнитуры места фрезеровки под ответные планки должны быть обработаны защитным лаком.

Для эффективной работы фурнитуры должны соблюдаться следующие правила:

1. Технически правильный монтаж фурнитуры в соответствии с данным руководством.
2. Технически верный монтаж оконных конструкций в проем.
3. Соблюдение требований руководства по уходу и эксплуатации.
4. Информация для пользователя должна быть наклеена на видном месте оконной конструкции, а руководства по уходу и эксплуатации должны выдаваться каждому пользователю.
5. Фурнитура для окон должна полностью состоять из элементов фирмы HAUTAU. При использовании элементов других систем (обвязка, ручка и т.д.) претензии по гарантии не принимаются.

Ответственность за продукт - оговорки
Фирма HAUTAU не несет ответственности при рекламациях на фурнитуру или готовые оконные конструкции в случаях использования элементов фурнитуры других систем или несоблюдения требований монтажа и эксплуатации.

Производитель готовых конструкций несет ответственность за соблюдение технических размеров, содержащихся в данном руководстве по монтажу или в технических чертежах, а также за безупречный монтаж фурнитуры.

Защитная отметка для ограничения использования документации согласно DIN ISO 16016.

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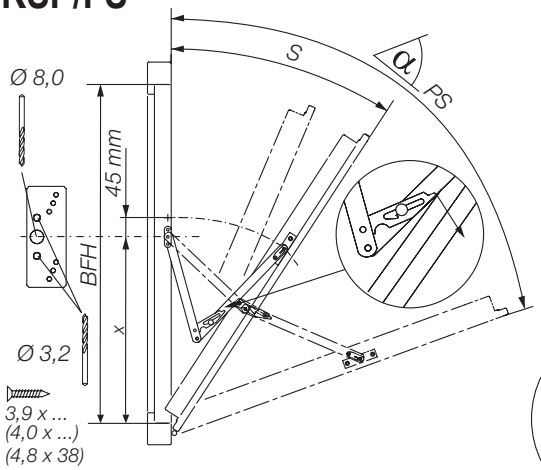
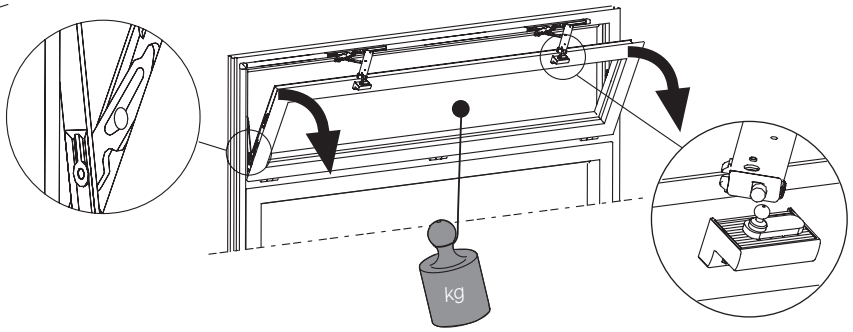
Информация для пользователя

– Вручите вместе с продуктом руководство по обслуживанию и эксплуатации для конечных пользователей.
– Сохраните это руководство для дальнейшего пользования.
– Обратите внимание на "Заданные величины и на указания к продукту и к ответственности (VHBH)". Информируйте конечного пользователя о содержании "Заданных величин и указаний для конечного пользователя (VHBE)".

KSP/FS





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BFH	KSP 1	KSP 2	x [mm]	S	α PS
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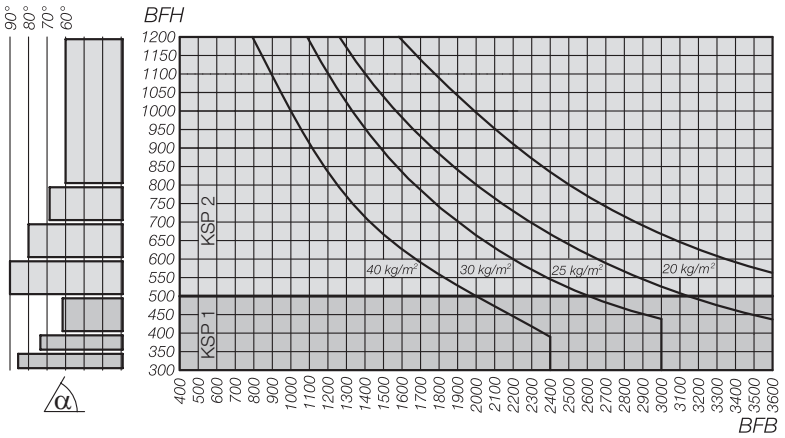
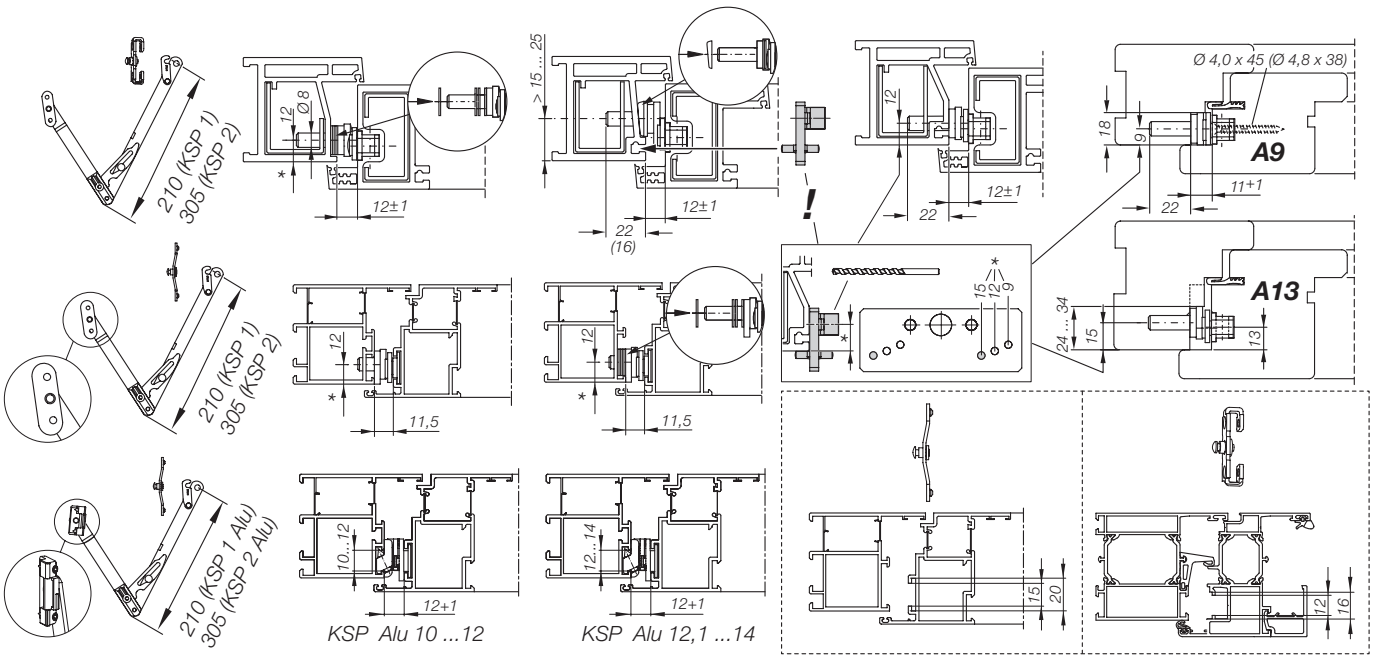
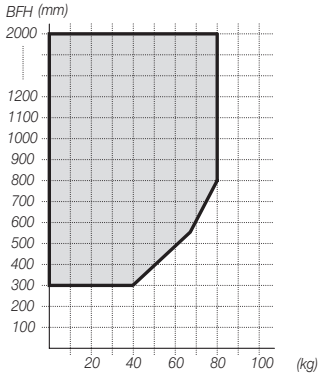
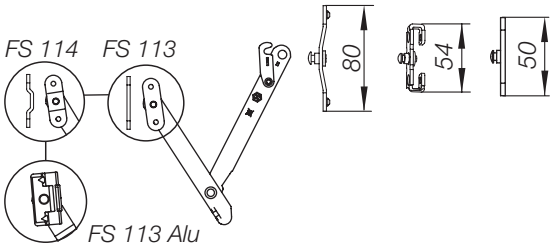
350 ... 400	x		250	ca. 220 ... 255	ca. 73°
400 ... 500	x		290	ca. 220 ... 270	ca. 62°
500 ... 600		x	320	ca. 220 ... 255	ca. 90°
600 ... 700		x	370	ca. 220 ... 255	ca. 80°
700 ... 800		x	440	ca. 220 ... 250	ca. 68°
800 ...1200		x	500	ca. 230 ... 350	ca. 60°

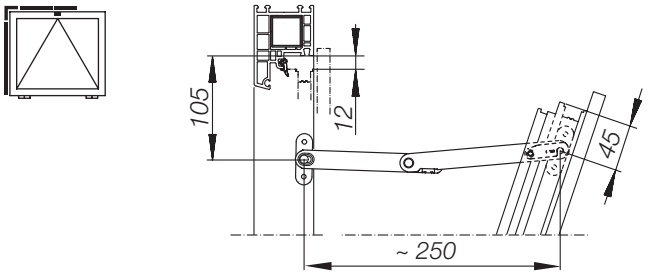


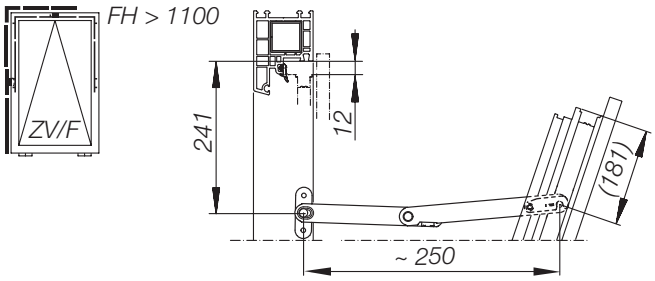


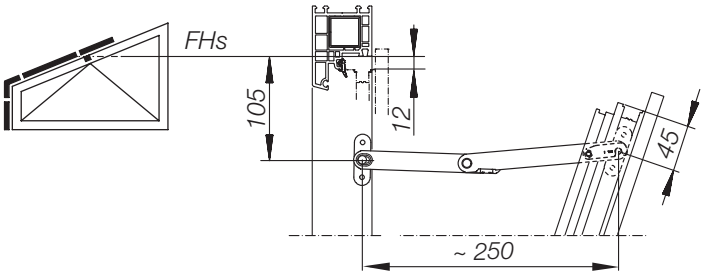
FS 113 / FS 114


BFH (mm)
2000
1200
1100
1000
900
800
700
600
500
400
300
200
100
20
40
60
80
100
(kg)


FS 114
FS 113
FS 113 Alu
80
54
50


105
12
45
~ 250


FH > 1100
ZV/F
241
12
(181)
~ 250


FHs
105
12
45
~ 250

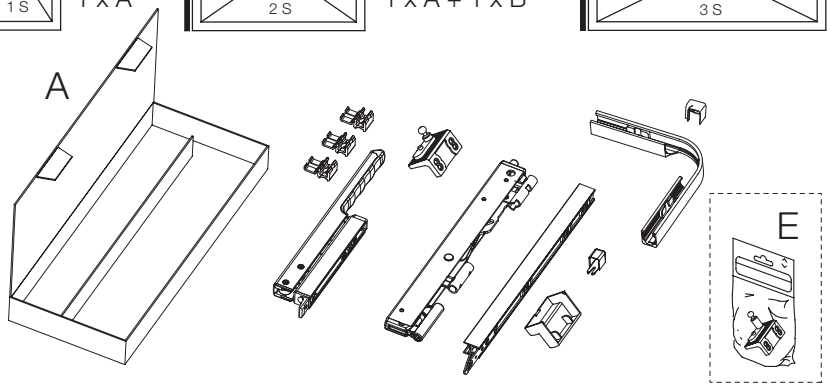
PRIMAT-FL 190

1 x A

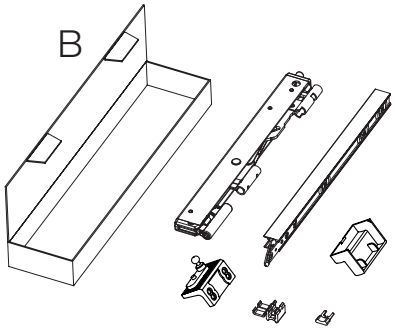
1 x A + 1 x B

1 x A + 2 x B

A

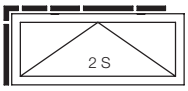


B

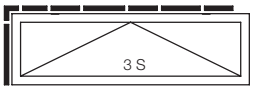


---

1 x C

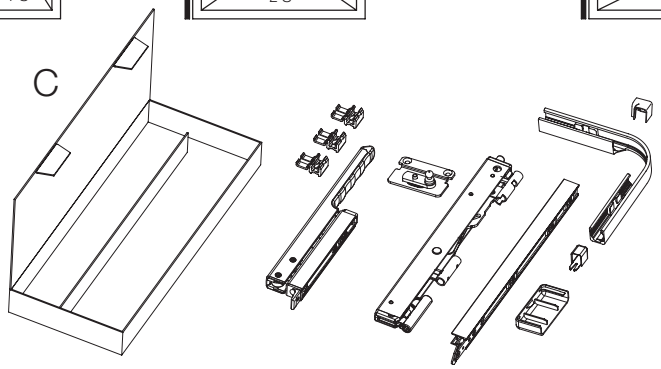


1 x C + 1 x D

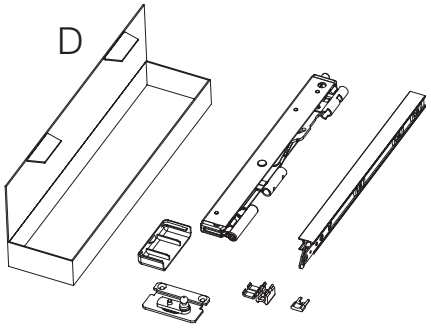


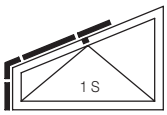
1 x C + 2 x D

C

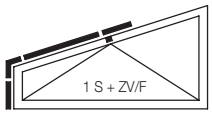


D



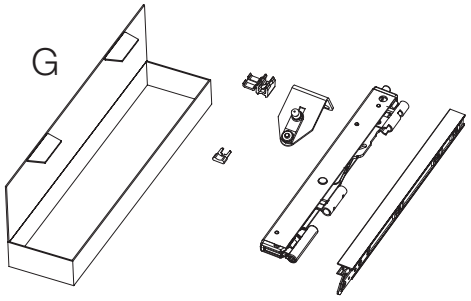


1 x G + 1 x F + 1 x I



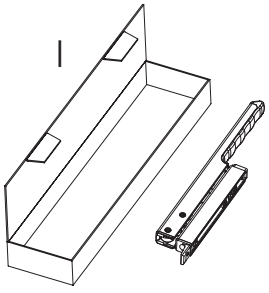
1 x G + 1 x F + 1 x I + 1 x H

G

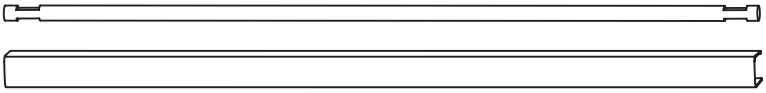


F

I



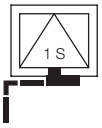
H



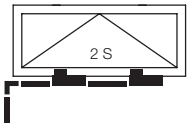
1000, 2000, 2500, 3000, 3750 mm

2000, 3000, 6000 mm

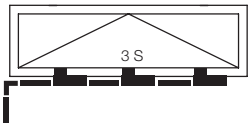
PRIMAT-A

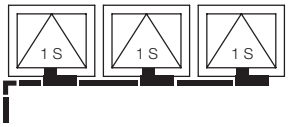


1 x I + 1 x F + 1 x K



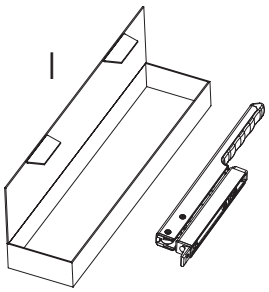
1 x I + 1 x F + 2 x K





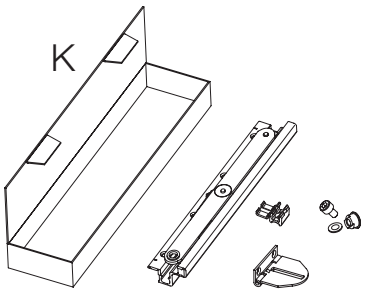
1 x I + 1 x F + 3 x K

I



F

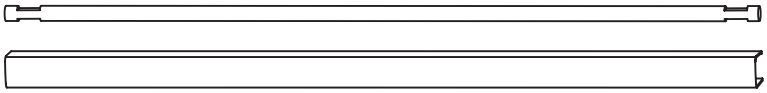
K



ZV-A

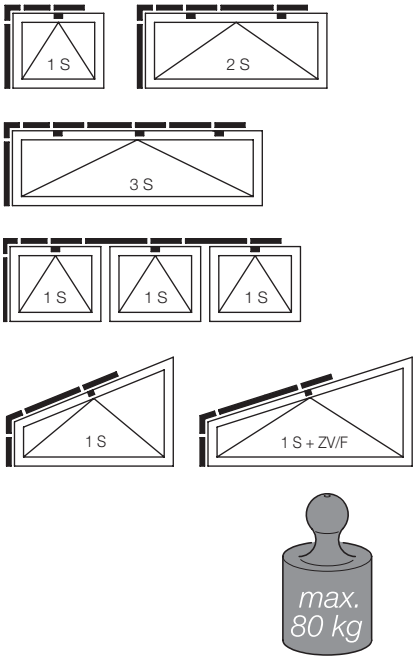
X x K => X x P

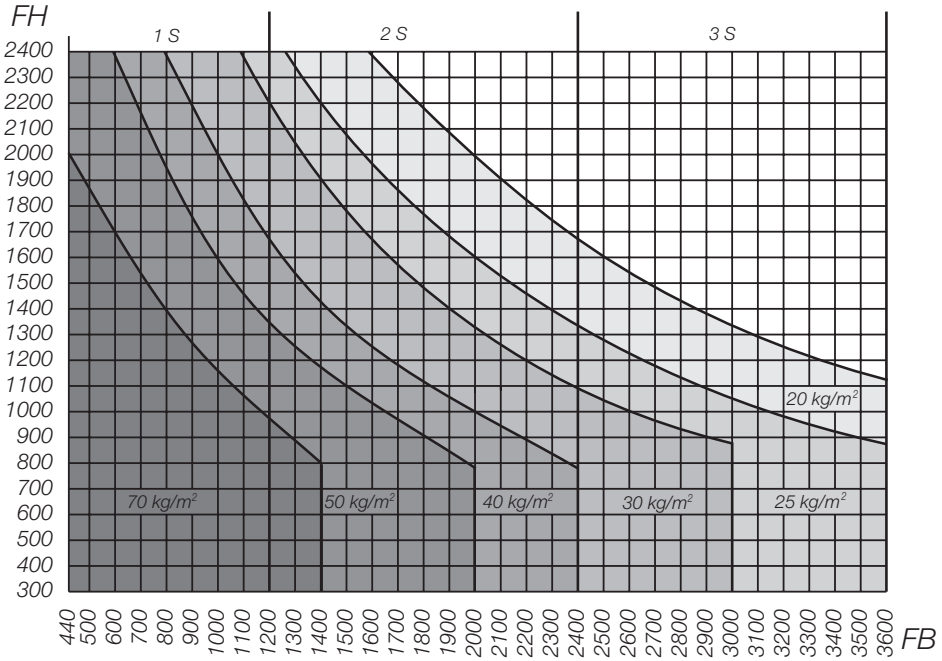
P

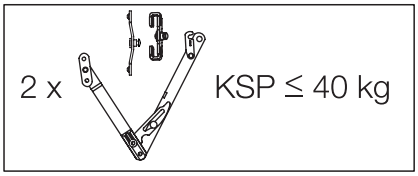


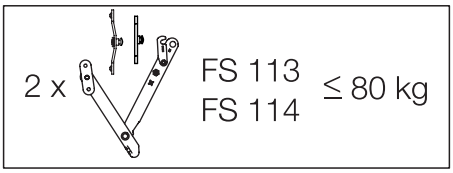
1000, 2000, 2500, 3000, 3750 mm

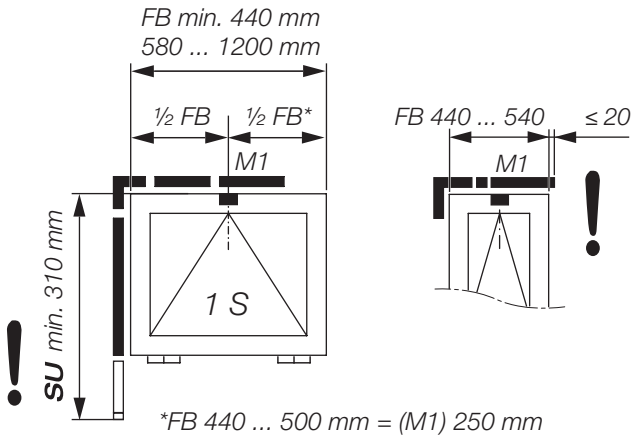
2000, 3000, 6000 mm

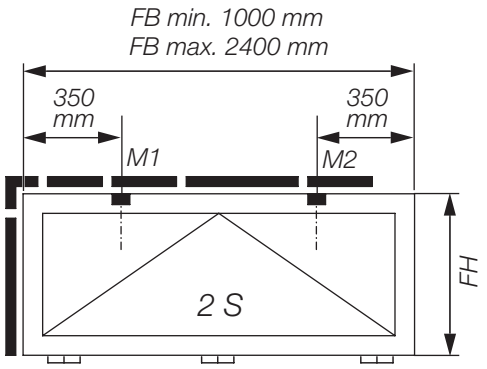

1 S
2 S
3 S
1 S
1 S
1 S
1 S
1 S + ZV/F
max.
80 kg

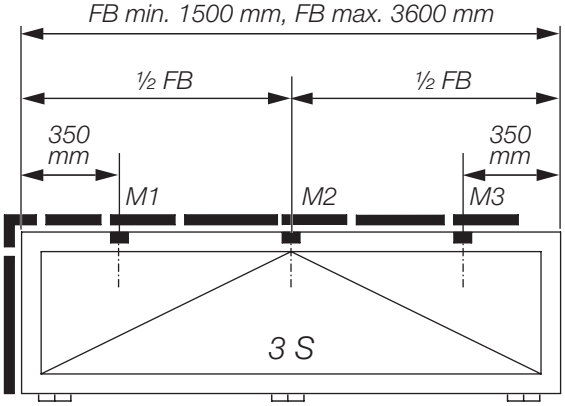

FH
1 S
2 S
3 S
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
20 kg/m²
70 kg/m²
50 kg/m²
40 kg/m²
30 kg/m²
25 kg/m²
440
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
FB

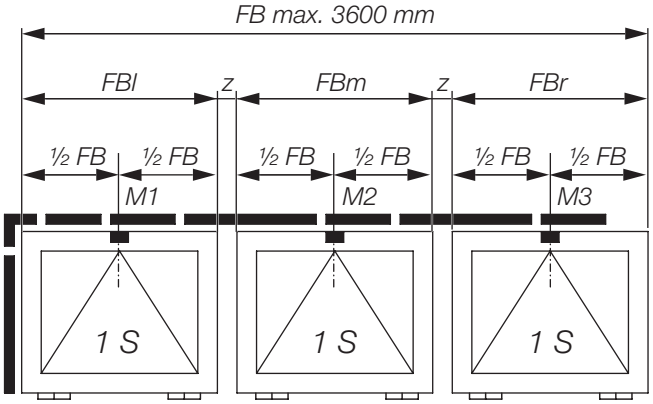

2 x
KSP ≤ 40 kg

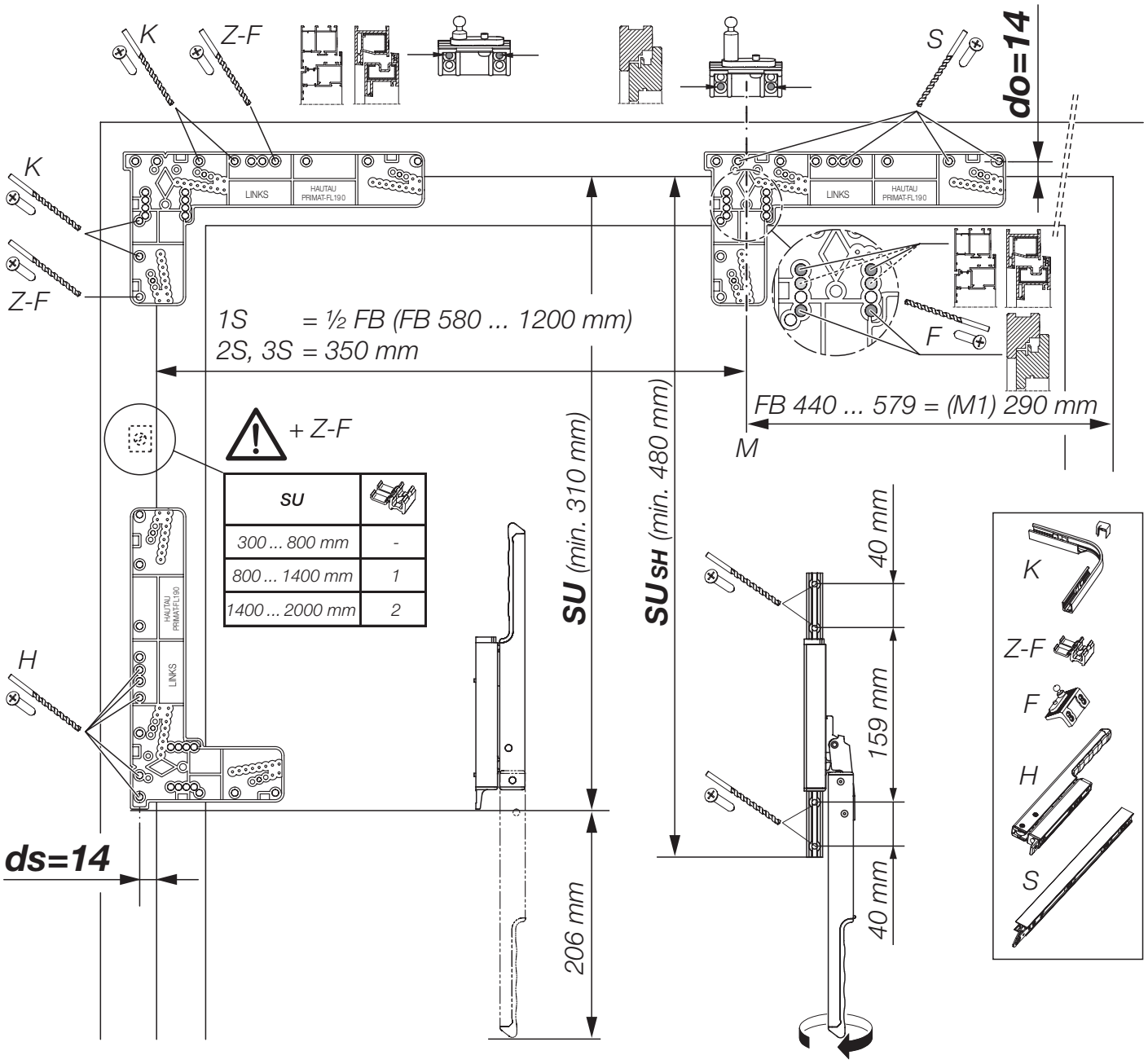

2 x
FS 113
FS 114
≤ 80 kg

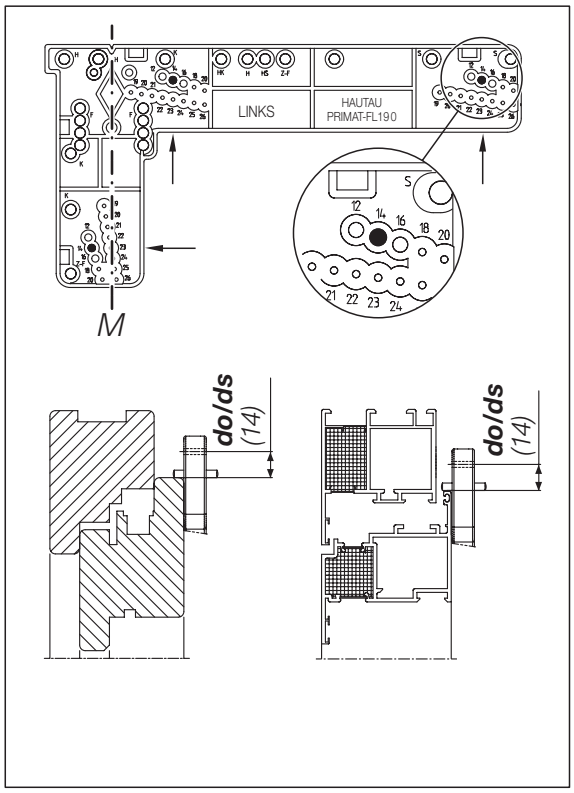

FB min. 440 mm
580 ... 1200 mm
½ FB
½ FB*
M1
1 S
SU min. 310 mm
FB 440 ... 540
≤ 20
M1
*FB 440 ... 500 mm = (M1) 250 mm

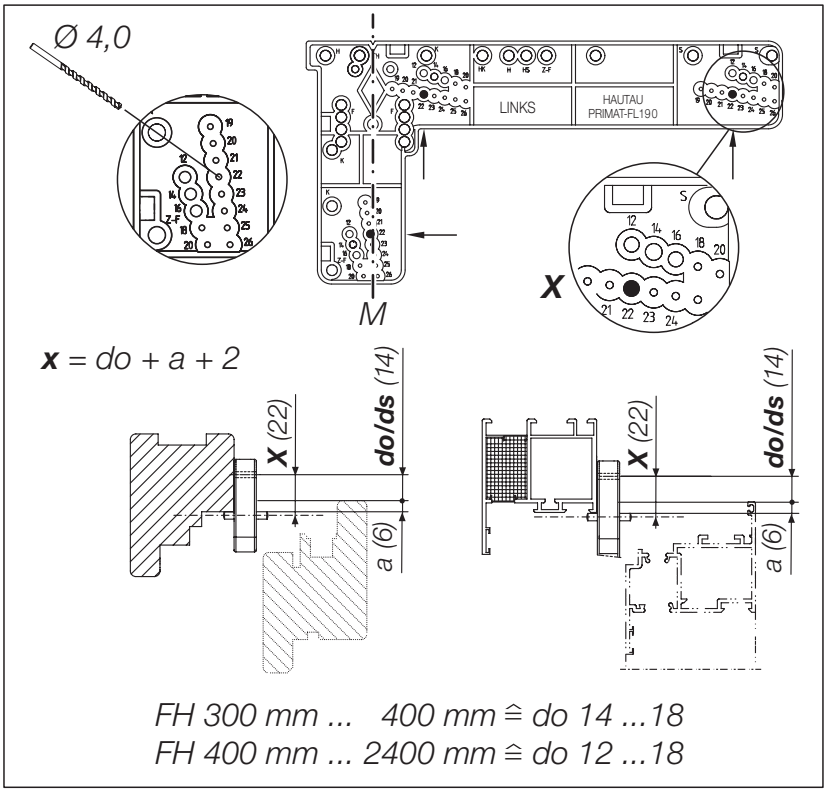

FB min. 1000 mm
FB max. 2400 mm
350
mm
350
mm
M1
M2
2 S
FH


FB min. 1500 mm, FB max. 3600 mm
½ FB
½ FB
350
mm
350
mm
M1
M2
M3
3 S

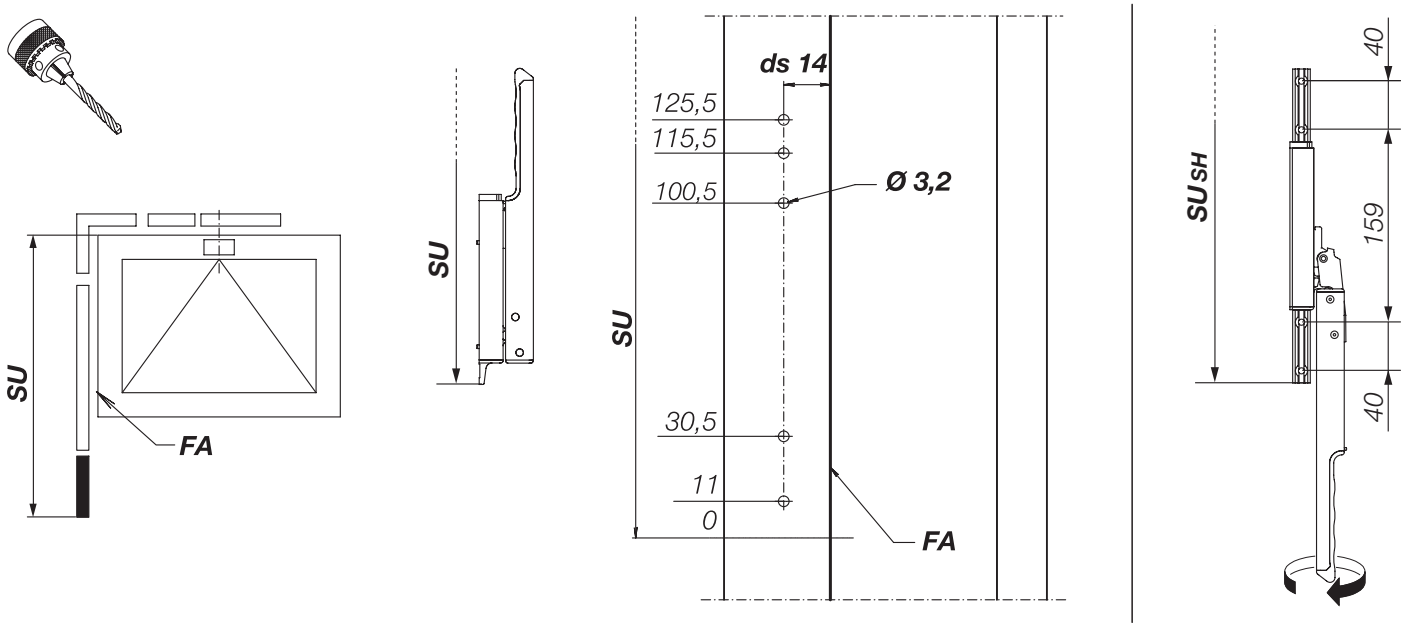

FB max. 3600 mm
FBl
z
FBm
z
FBr
½ FB
½ FB
½ FB
½ FB
½ FB
½ FB
M1
M2
M3
1 S
1 S
1 S

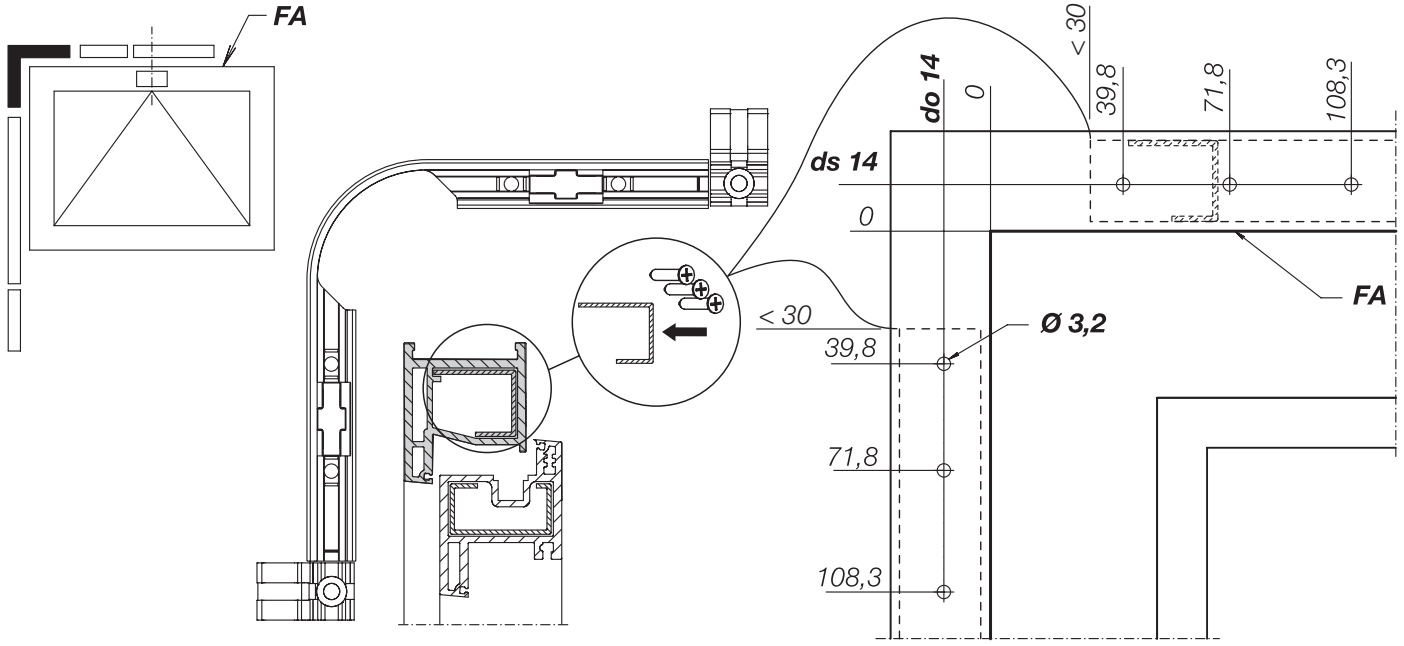


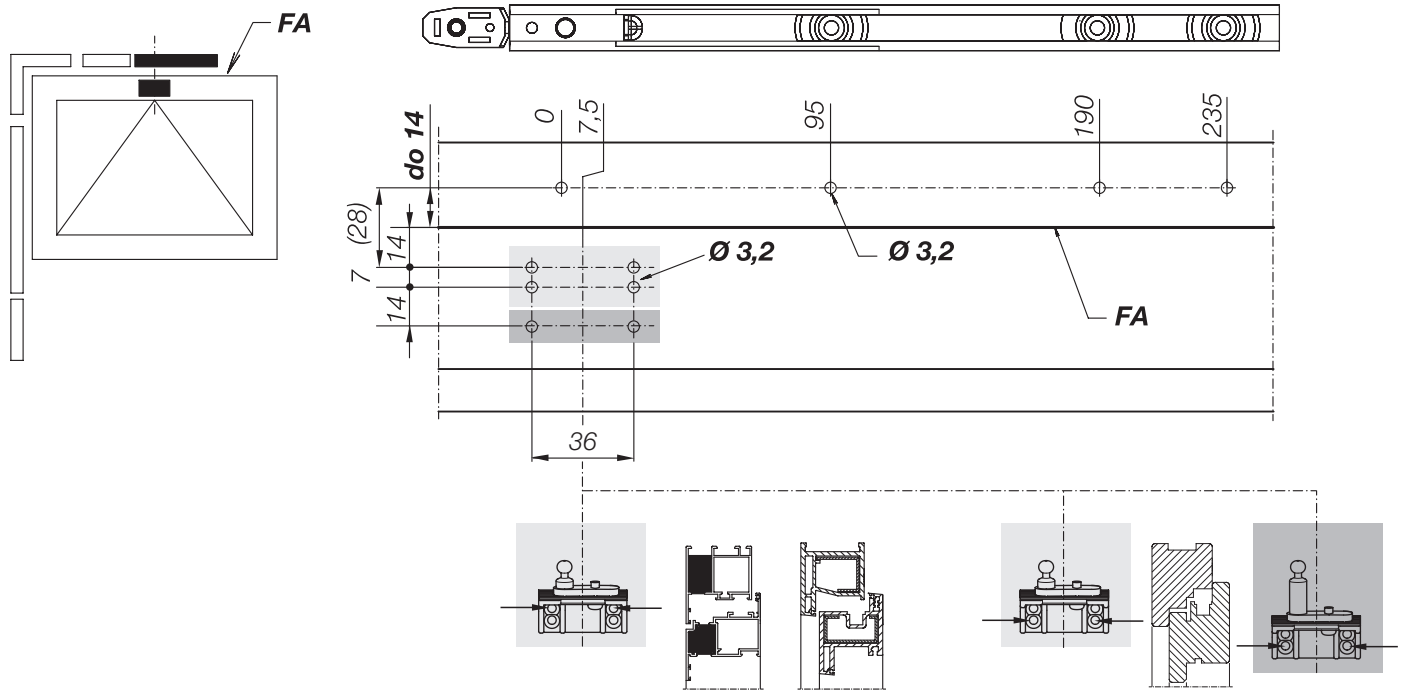


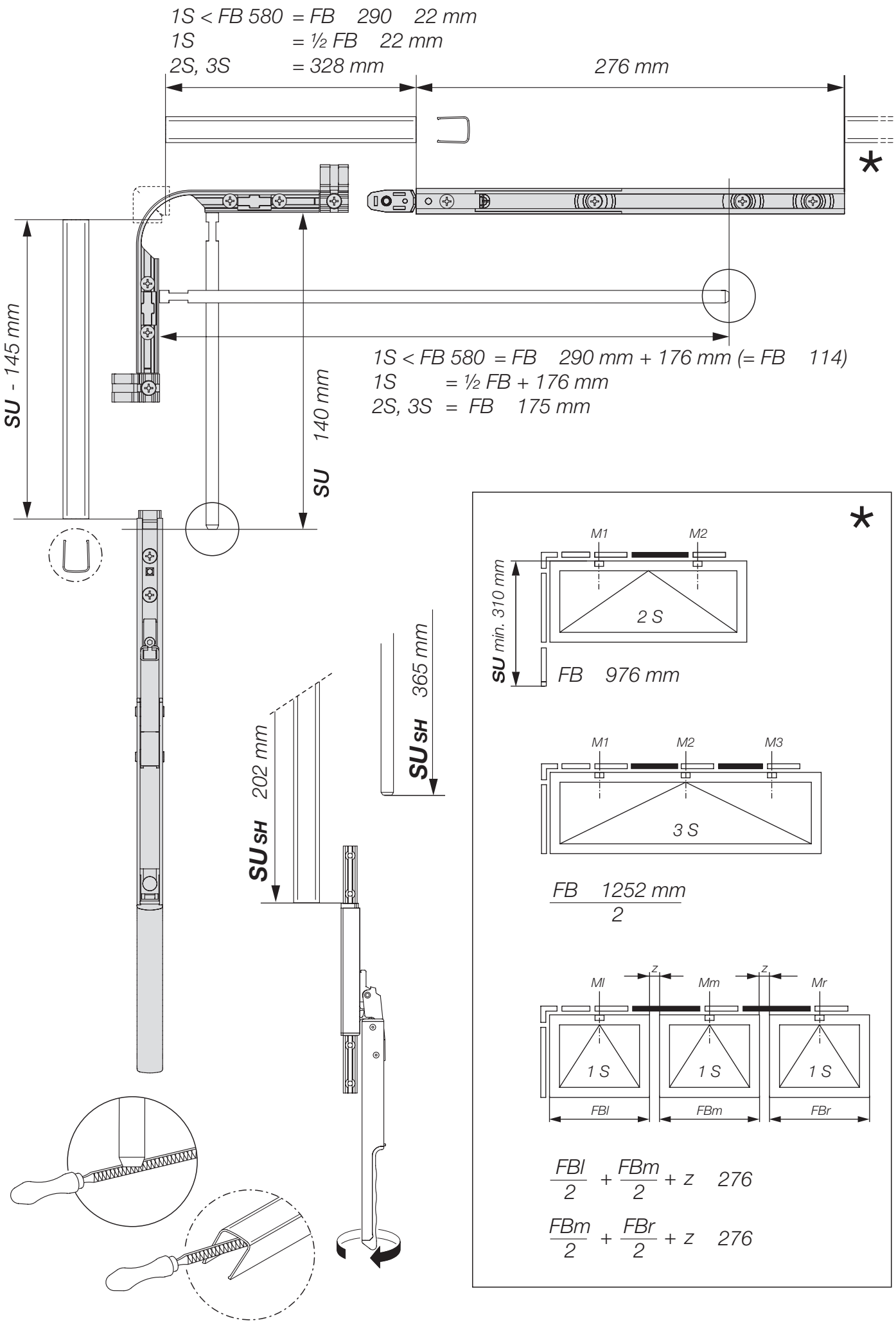


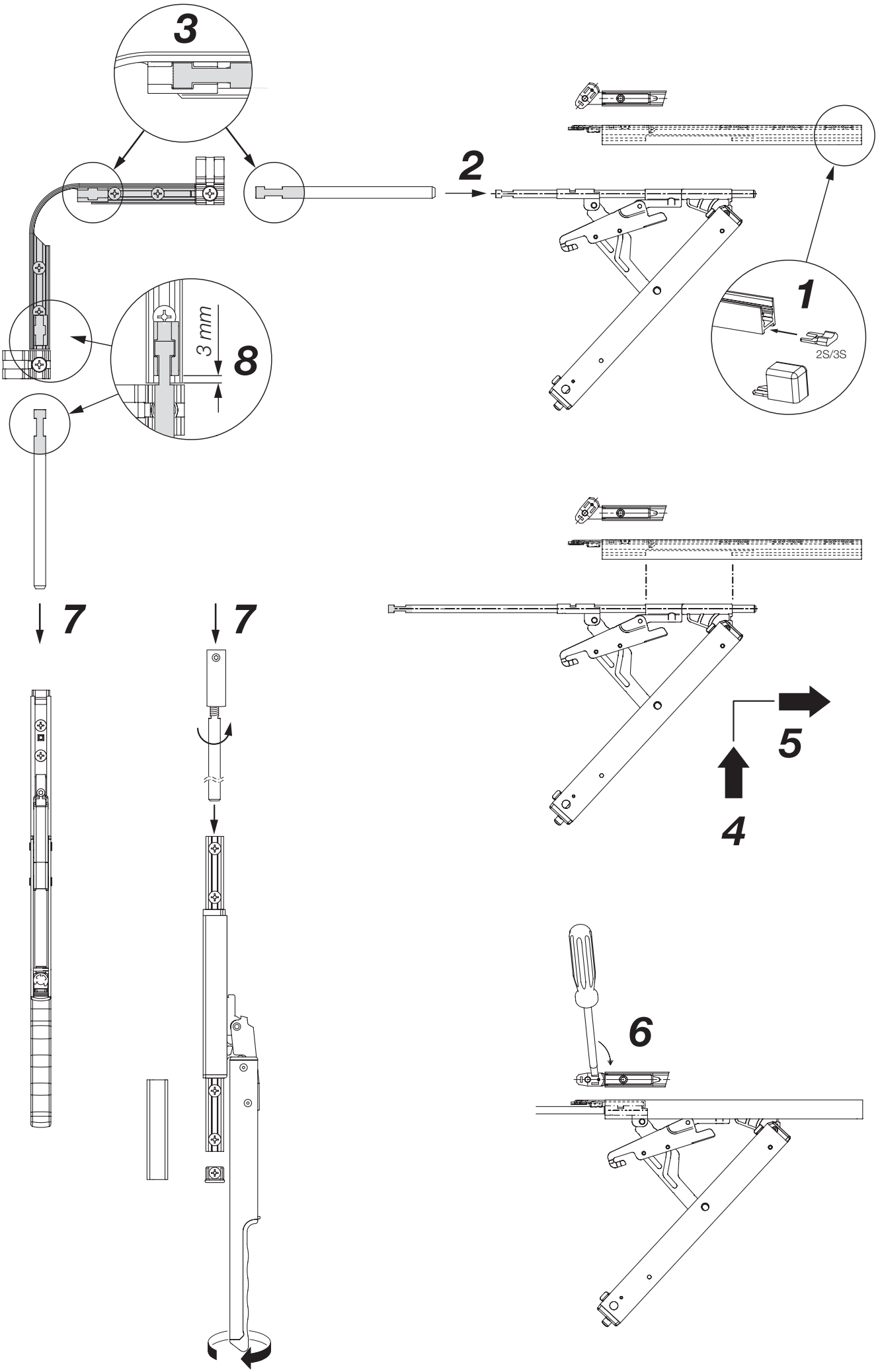
FH 300 mm ... 400 mm ≙ do 14 ...18
FH 400 mm ... 2400 mm ≙ do 12 ...18

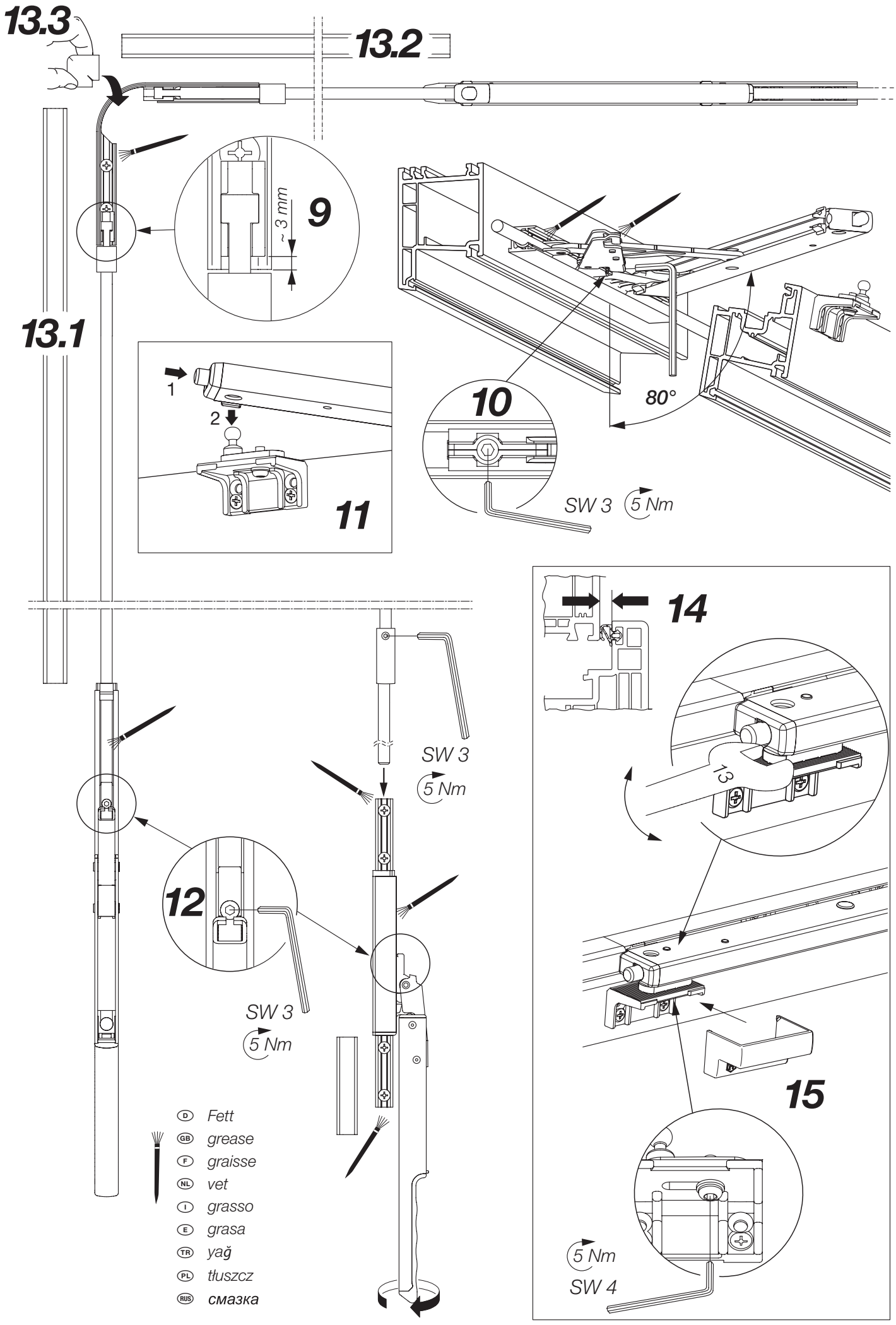

SU
FA
SU
ds 14
125,5
115,5
100,5
Ø 3,2
SU
30,5
11
0
FA
SUSH
40
159
40


FA
< 30
39,8
71,8
108,3
do 14
0
ds 14
0
FA
< 30
Ø 3,2
39,8
71,8
108,3

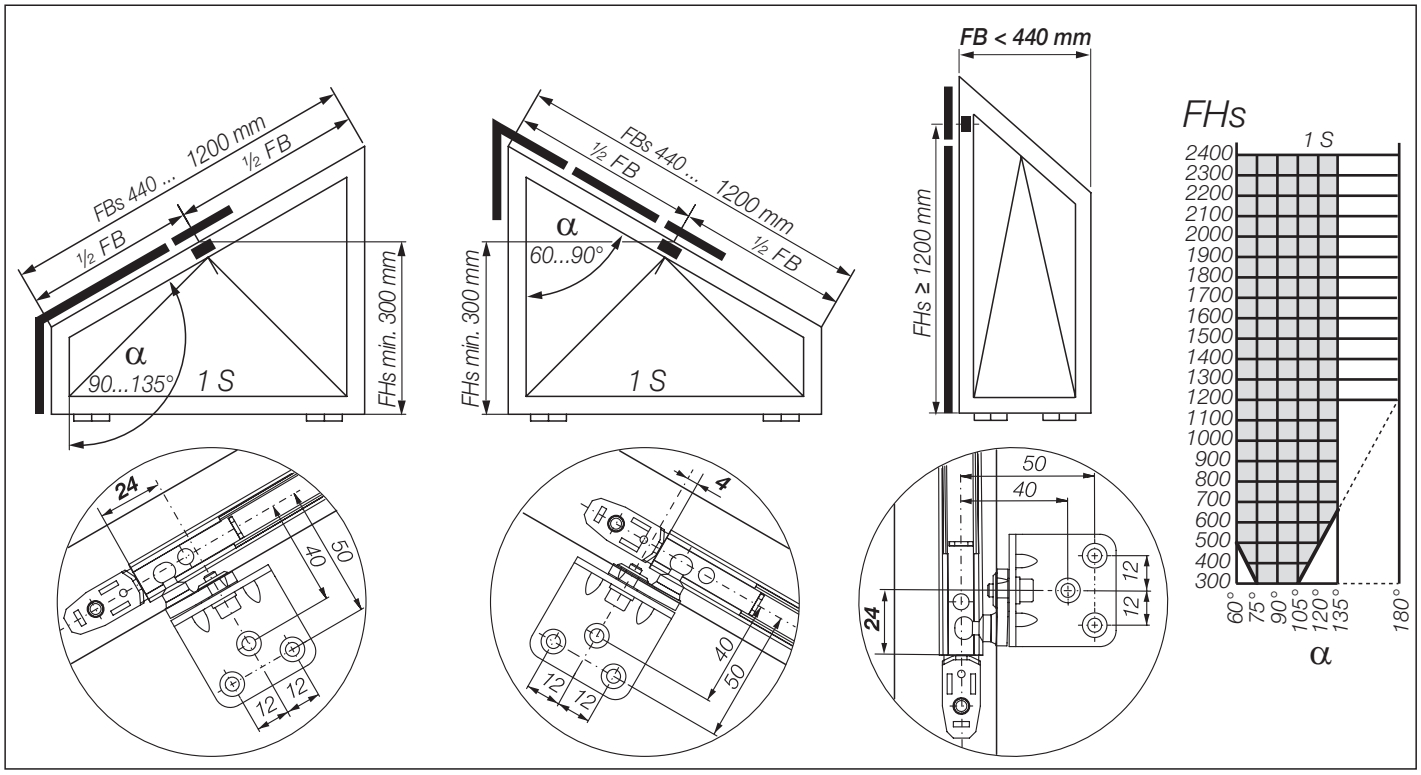

FA
0
7,5
95
190
235
do 14
(28)
14
7
14
Ø 3,2
Ø 3,2
FA
36

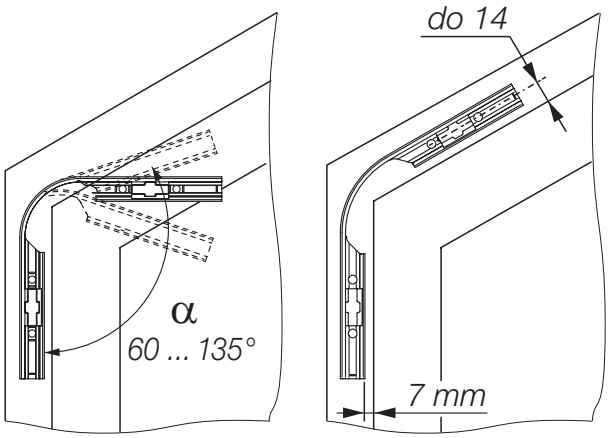

1S < FB 580 = FB 290 22 mm
1S = ½ FB 22 mm
2S, 3S = 328 mm
276 mm
*
SU - 145 mm
140 mm
SU
1S < FB 580 = FB 290 mm + 176 mm (= FB 114)
1S = ½ FB + 176 mm
2S, 3S = FB 175 mm
365 mm
SUSH
202 mm
SUSH
*
M1
M2
SU min. 310 mm
2 S
FB 976 mm
M1
M2
M3
3 S
FB 1252 mm
2
z
z
Ml
Mm
Mr
1 S
1 S
1 S
FBl
FBm
FBr
FBl/2 + FBm/2 + z 276
FBm/2 + FBr/2 + z 276

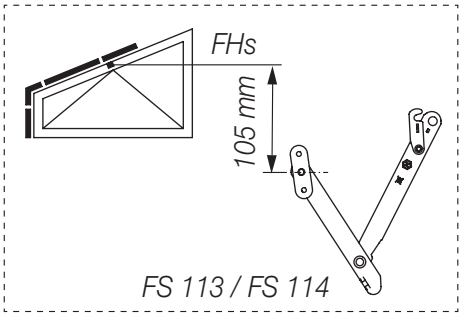

3
2
1
2S/3S
3 mm
8
7
7
5
4
6


13.3
13.2
13.1
9
~ 3 mm
10
80°
SW 3
5 Nm
11
1
2
12
SW 3
5 Nm
SW 3
5 Nm
14
13
15
5 Nm
SW 4
D Fett
GB grease
F graisse
NL vet
I grasso
E grasa
TR yağ
PL tłuszcz
RUS смазка

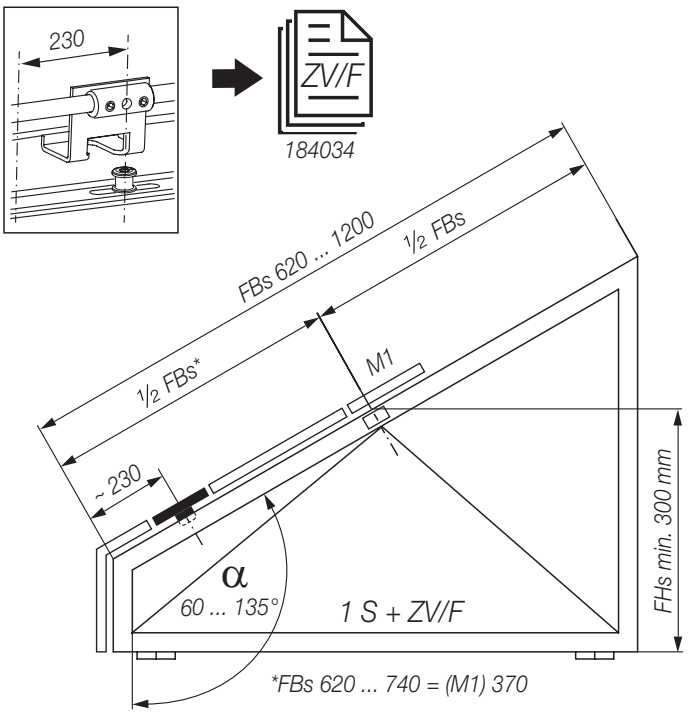
SF



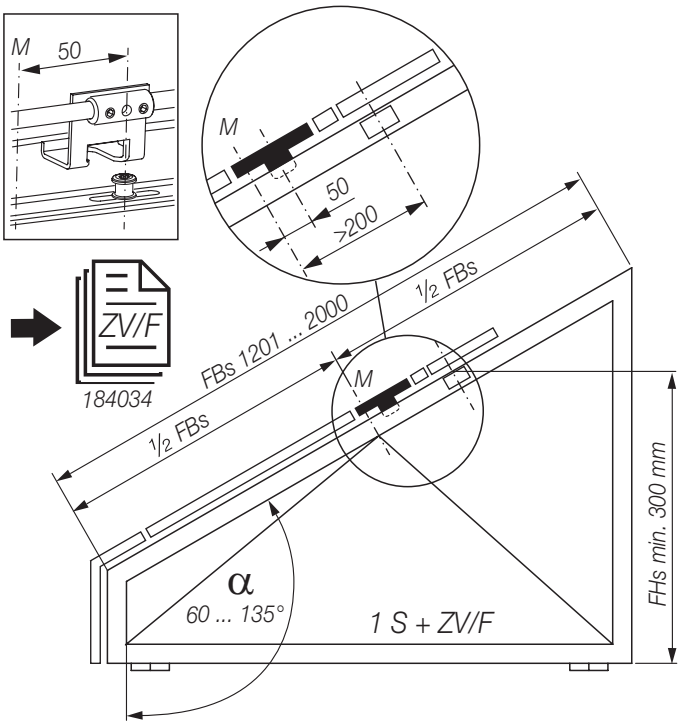




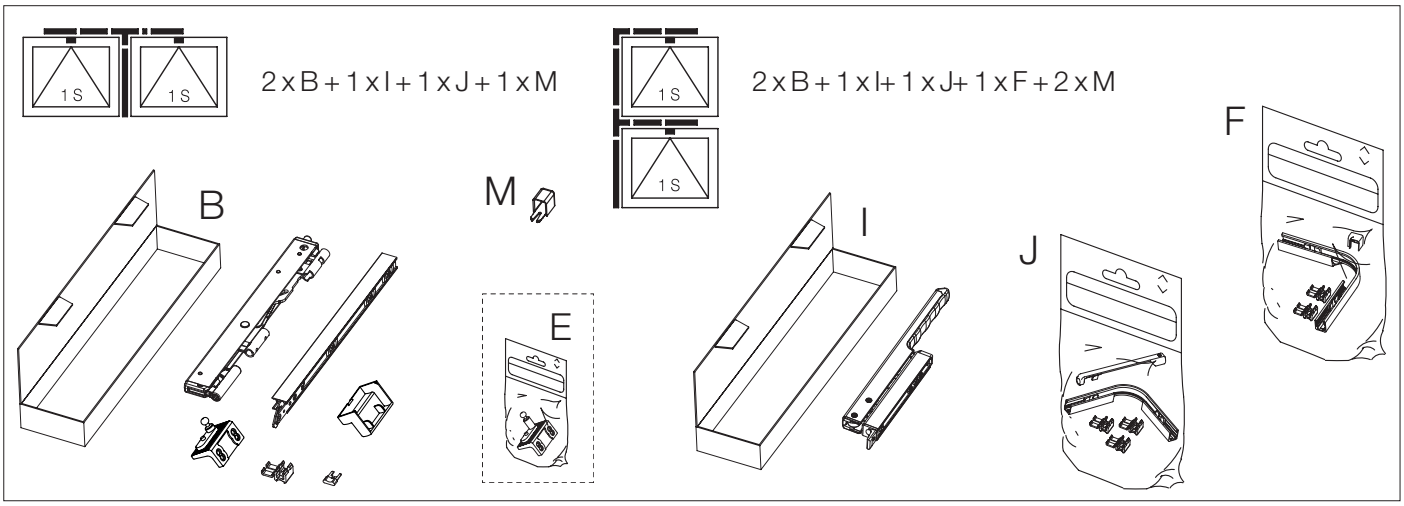
FBs 620 ... 1200

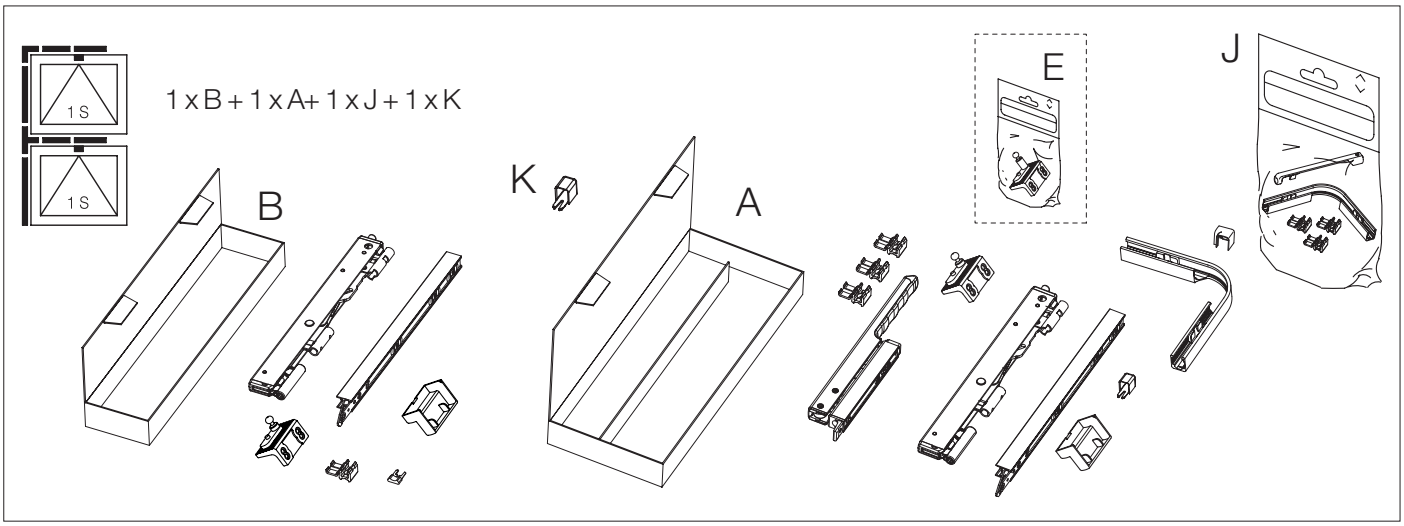


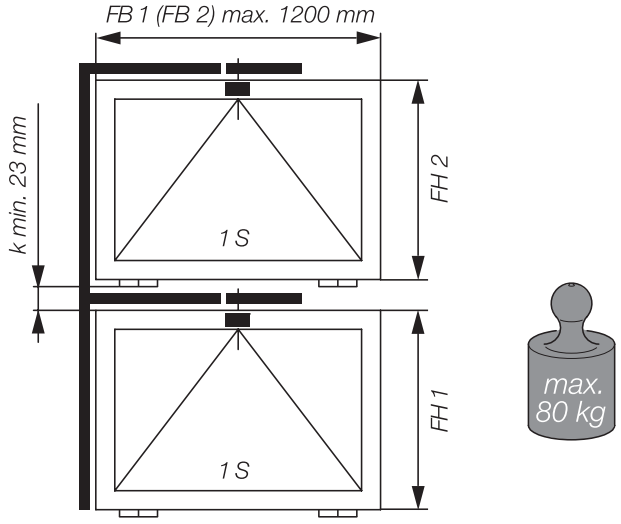
FBs 1201 ... 2000

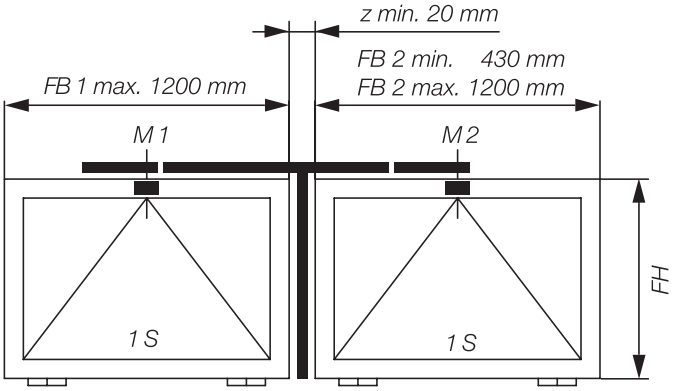


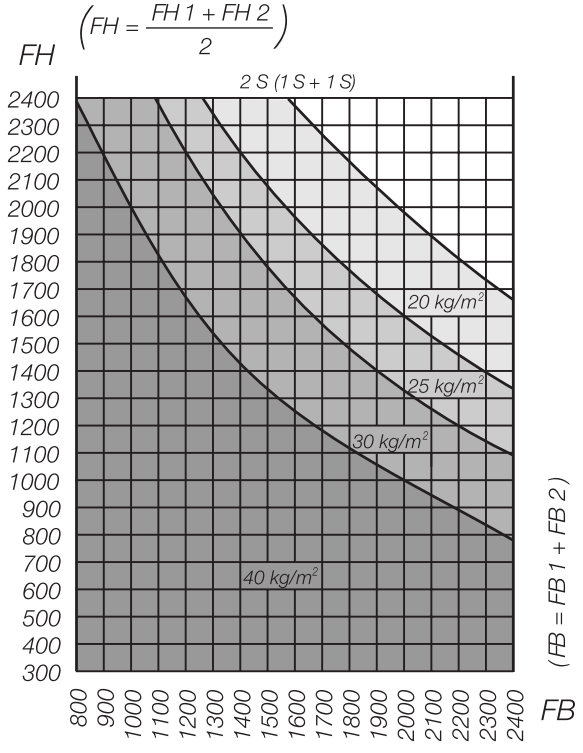
E2F

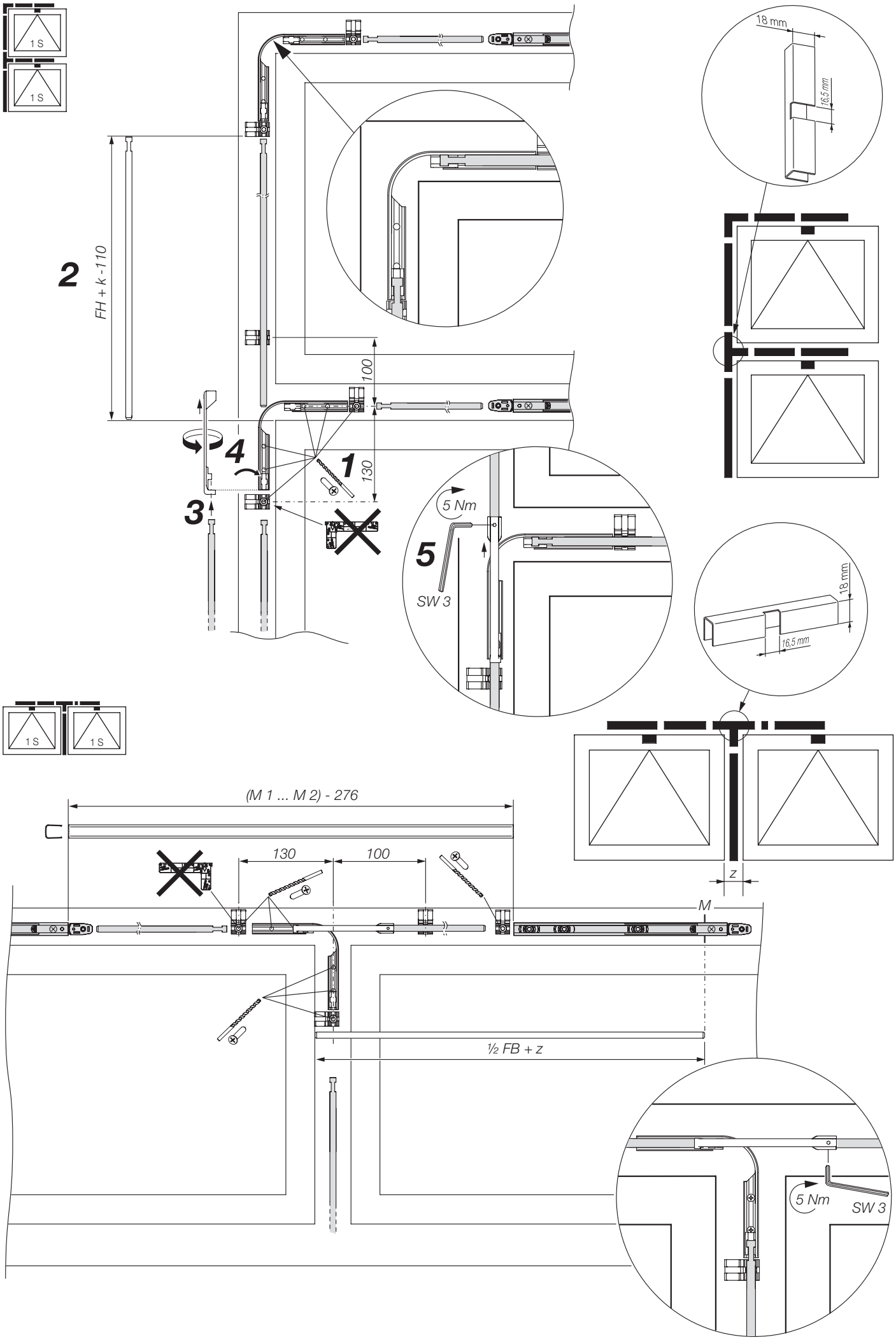

1 S
1 S
2 x B + 1 x I + 1 x J + 1 x M
B
M
E
1 S
1 S
2 x B + 1 x I + 1 x J + 1 x F + 2 x M
I
J
F


1 S
1 S
1 x B + 1 x A + 1 x J + 1 x K
B
K
A
E
J

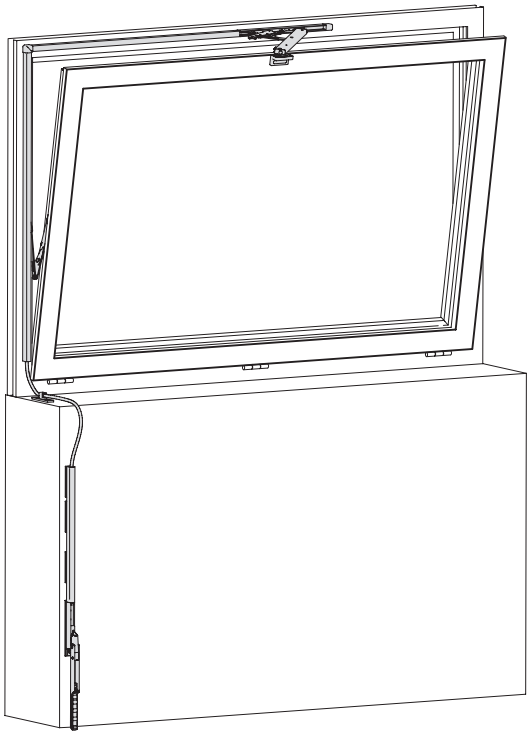

FB 1 (FB 2) max. 1200 mm
k min. 23 mm
FH 2
FH 1
1 S
1 S
max. 80 kg

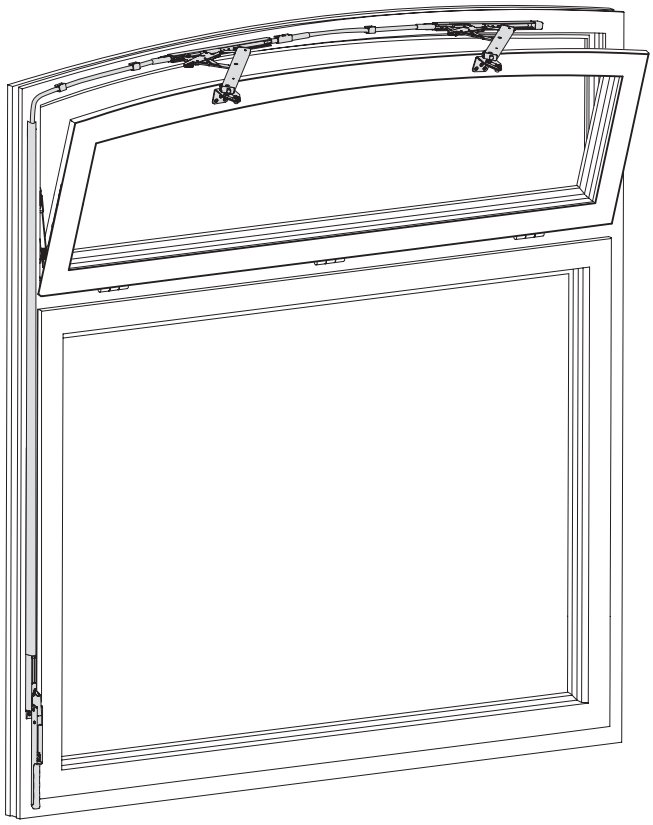

z min. 20 mm
FB 2 min. 430 mm
FB 2 max. 1200 mm
FB 1 max. 1200 mm
M 1
M 2
FH
1 S
1 S


(FH = FH 1 + FH 2 / 2)
FH
2 S (1 S + 1 S)
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
20 kg/m²
25 kg/m²
30 kg/m²
40 kg/m²
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
FB
(FB = FB 1 + FB 2)


1 S
1 S
2
FH + k -110
100
130
4
1
3
5 Nm
5
SW 3
18 mm
16,5 mm
1 S
1 S
(M 1 ... M 2) - 276
130
100
z
M
½ FB + z
5 Nm
SW 3

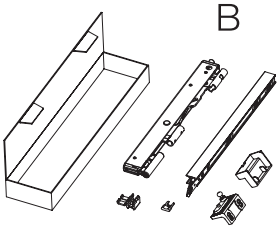
UE Flex

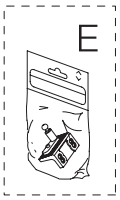


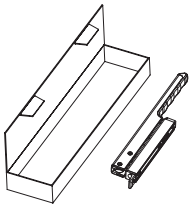


1 x L + 1 x B +
1 x I + 1 x M

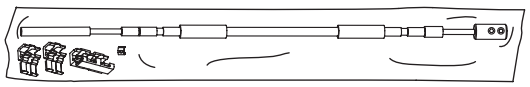
M

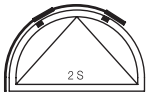


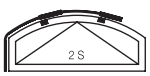




L

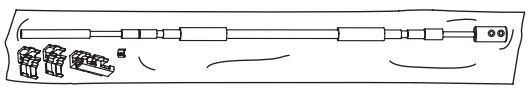




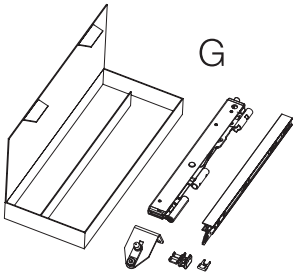


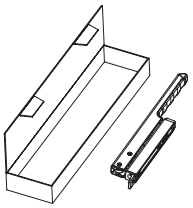
2 x L + 2 x G +
1 x I + 1 x M

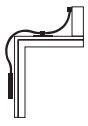
L



M

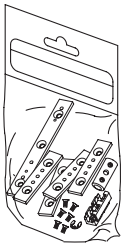




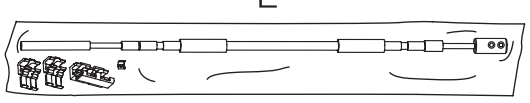


1 x L + 1 x N

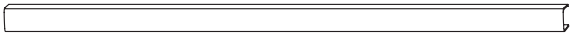
N



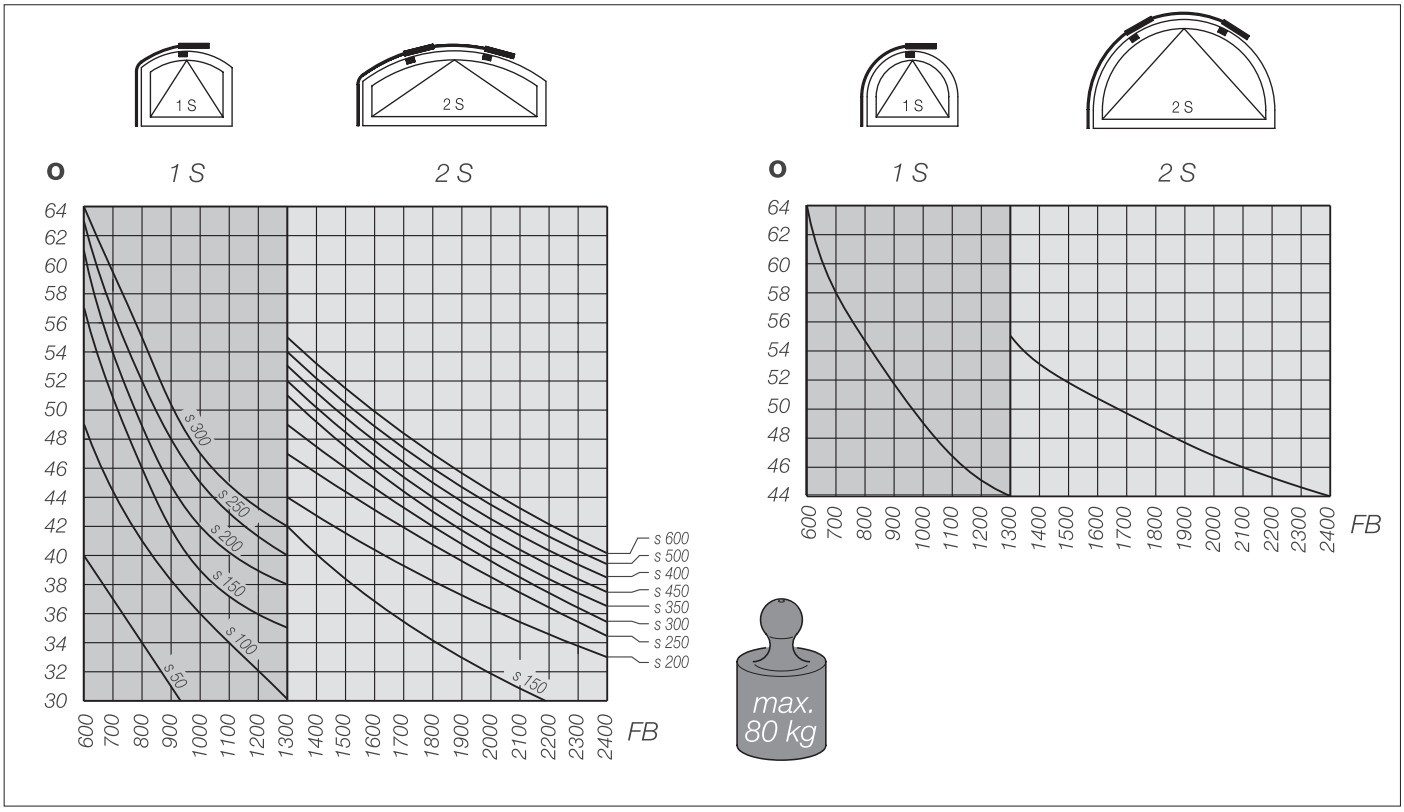
L

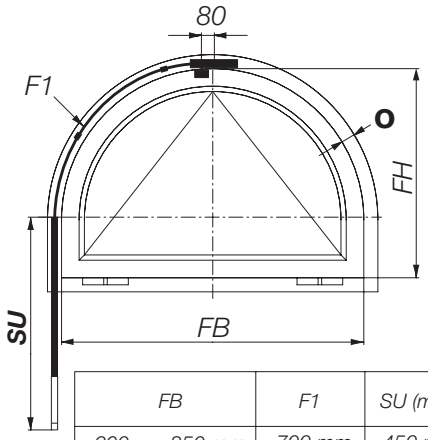


1000, 2000, 2500, 3000, 3750 mm

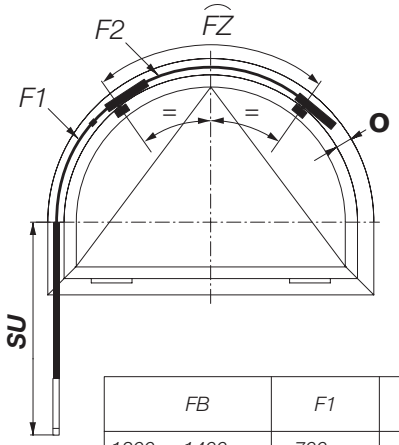


2000, 3000, 6000 mm

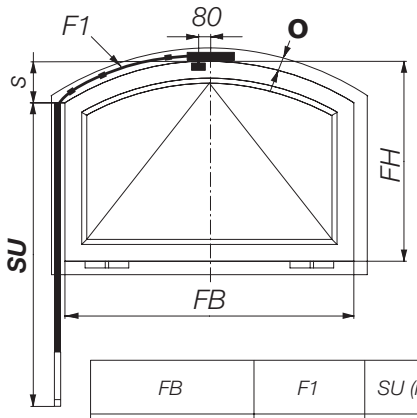




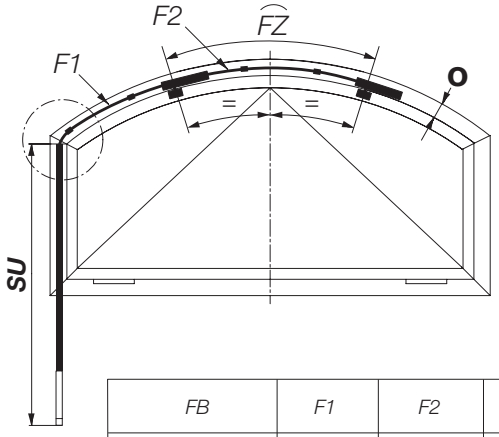
FB	F1	SU (min.)
600 ... 850 mm	700 mm	450 mm
851 ... 1200 mm	1000 mm	550 mm
1201 ... 1300 mm	1250 mm	500 mm

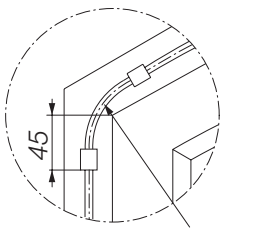


FB	F1	F2	FZ	SU (min.)
1300 ... 1400 mm	700 mm	400 mm	785 mm	400 ... 350 mm
1401 ... 1600 mm	1000 mm	400 mm	785 mm	650 ... 550 mm
1601 ... 2000 mm	1000 mm	700 mm	1085 mm	700 ... 500 mm

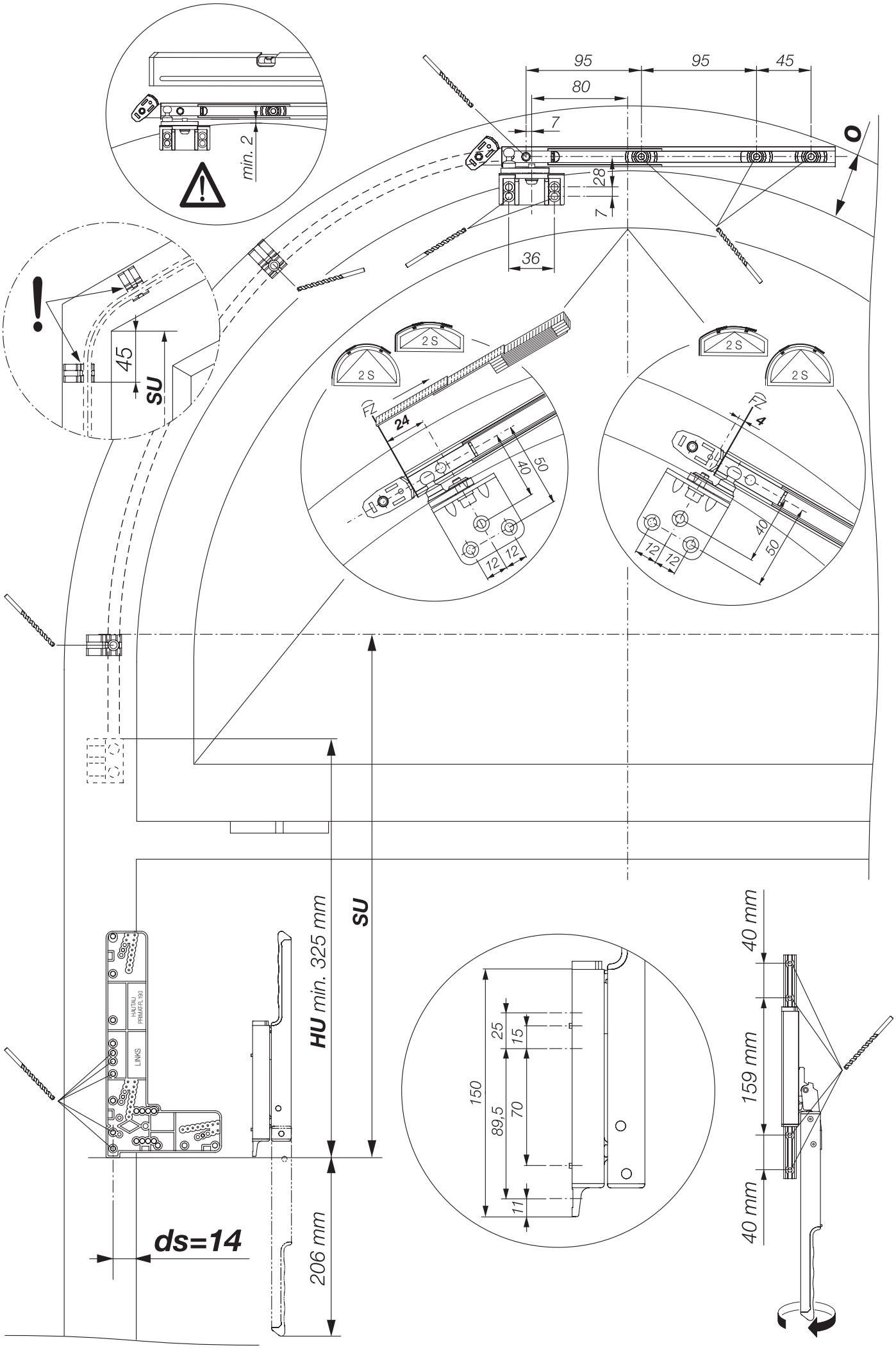


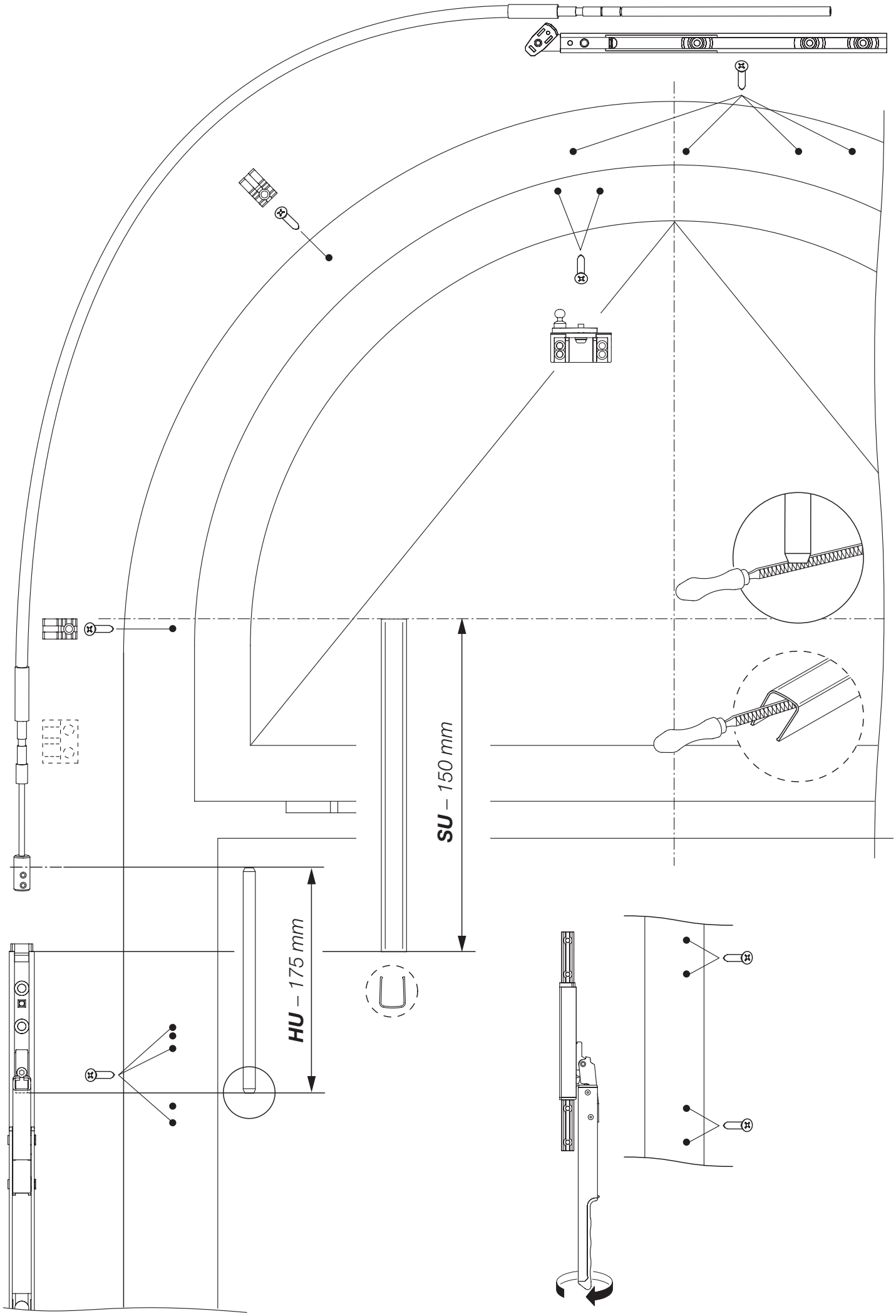
FB	F1	SU (min.)
600 ... 700 mm	700 mm	500 mm
701 ... 800 mm		450 mm
801 ... 1100 mm		300 mm
1101 ... 1200 mm	1000 mm	600 mm
1201 ... 1300 mm		550 mm

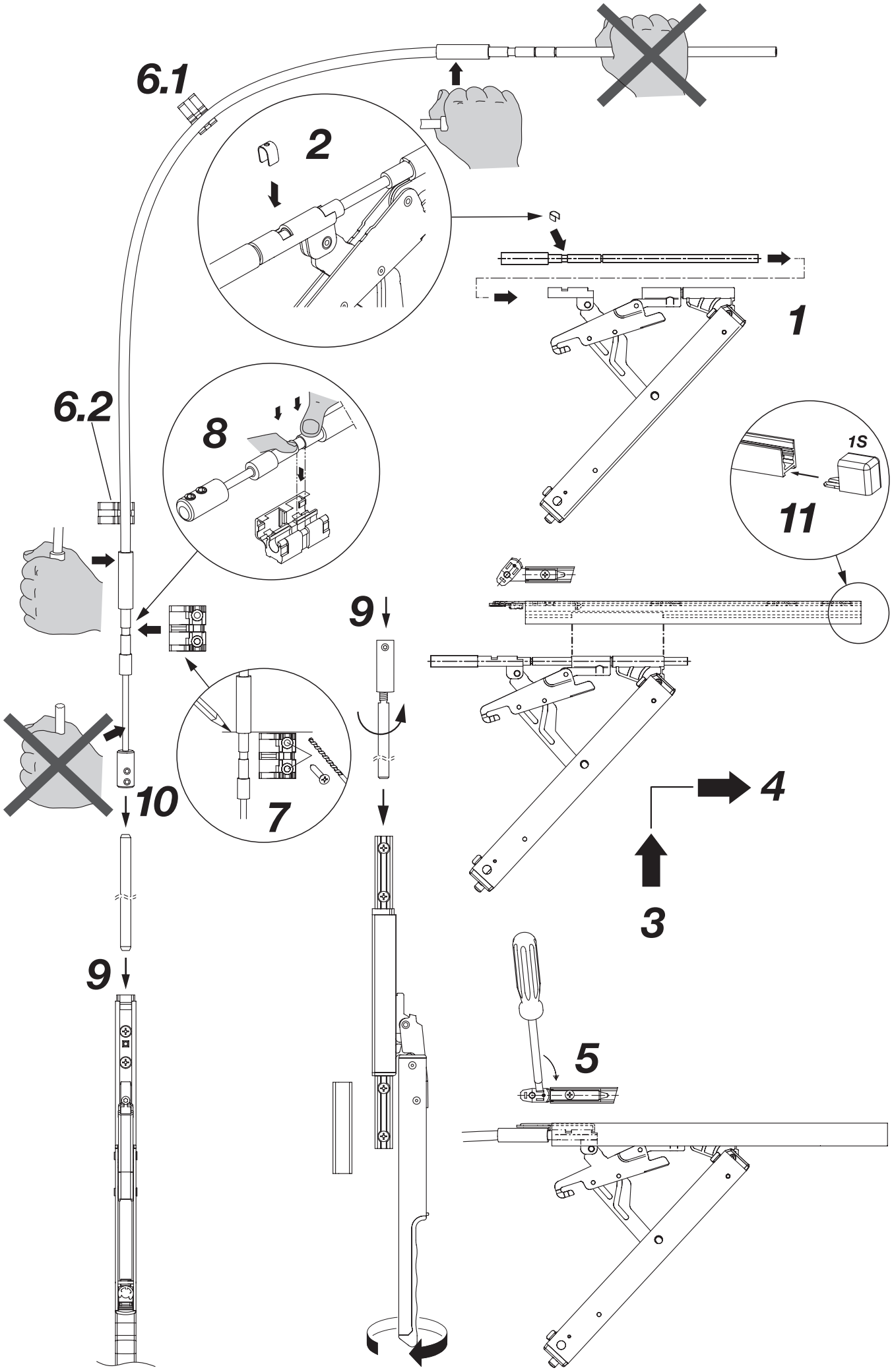


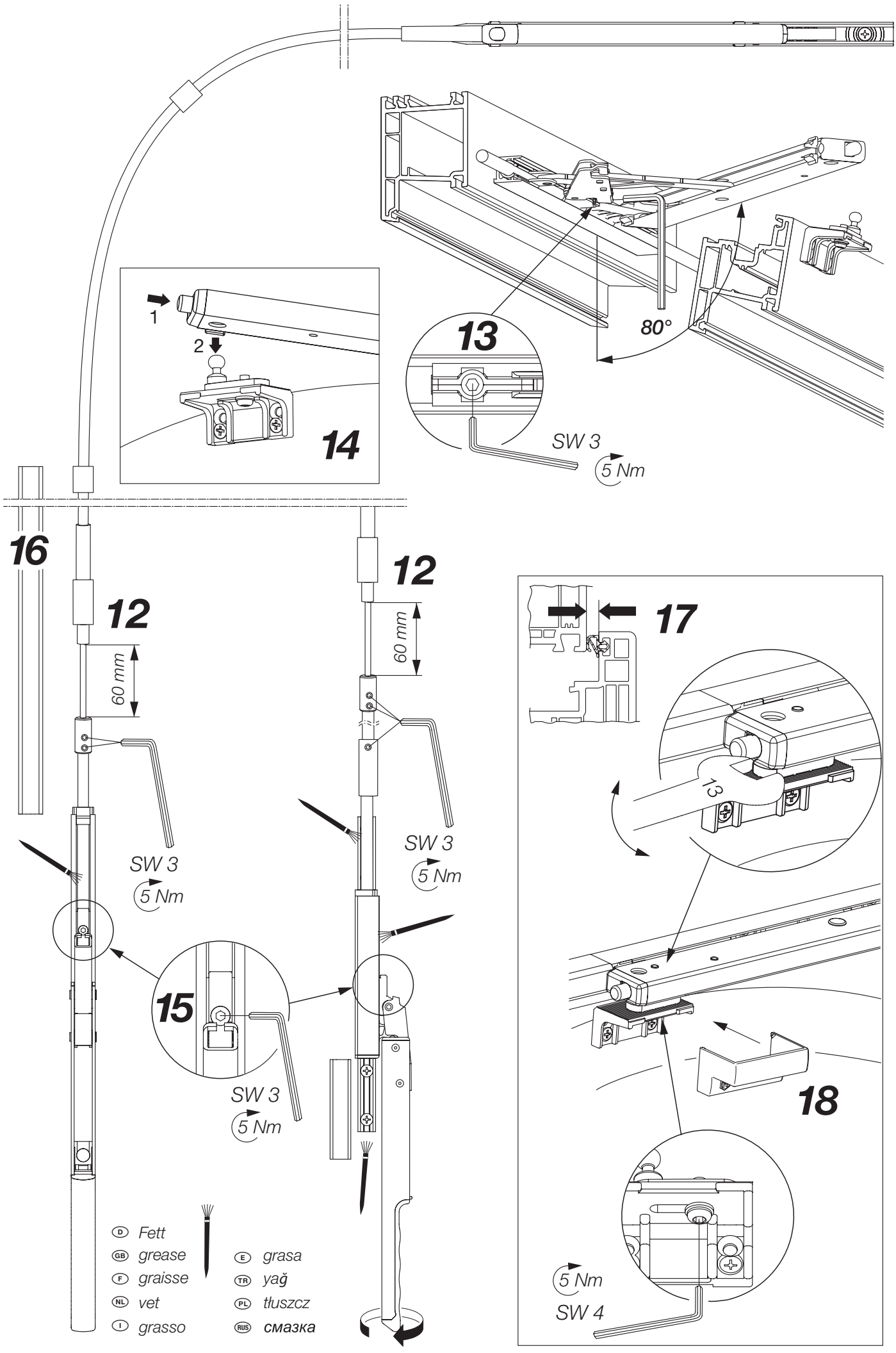


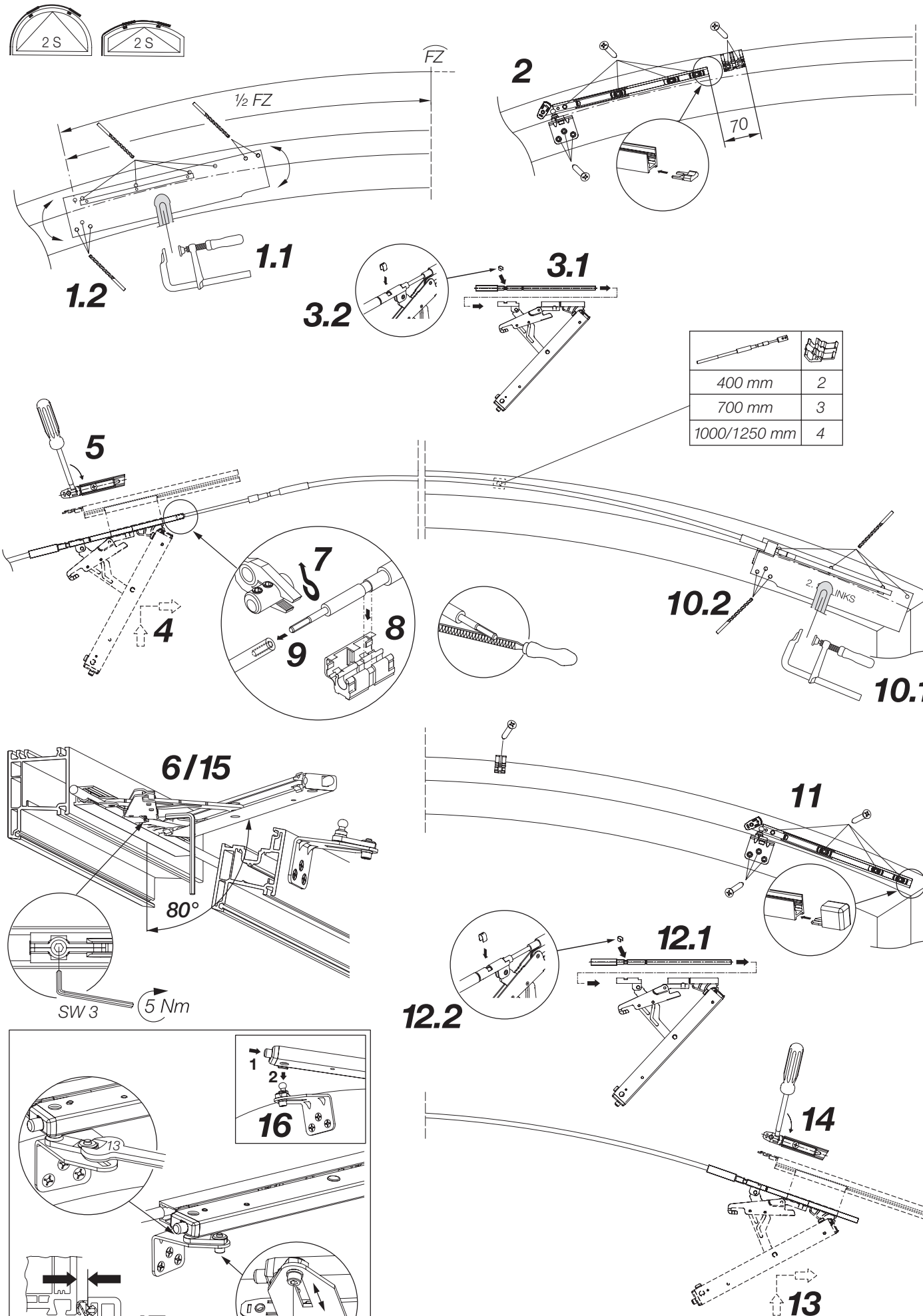
FB	F1	F2	FZ	SU (min.)
1300 ... 1500 mm	700 mm	400 mm	785 mm	730 ... 630 mm
1501 ... 1800 mm	700 mm	700 mm	1085 mm	780 ... 630 mm
1801 ... 2100 mm	700 mm	1000 mm	1385 mm	780 ... 630 mm
2101 ... 2400 mm	700 mm	1250 mm	1635 mm	750 ... 600 mm

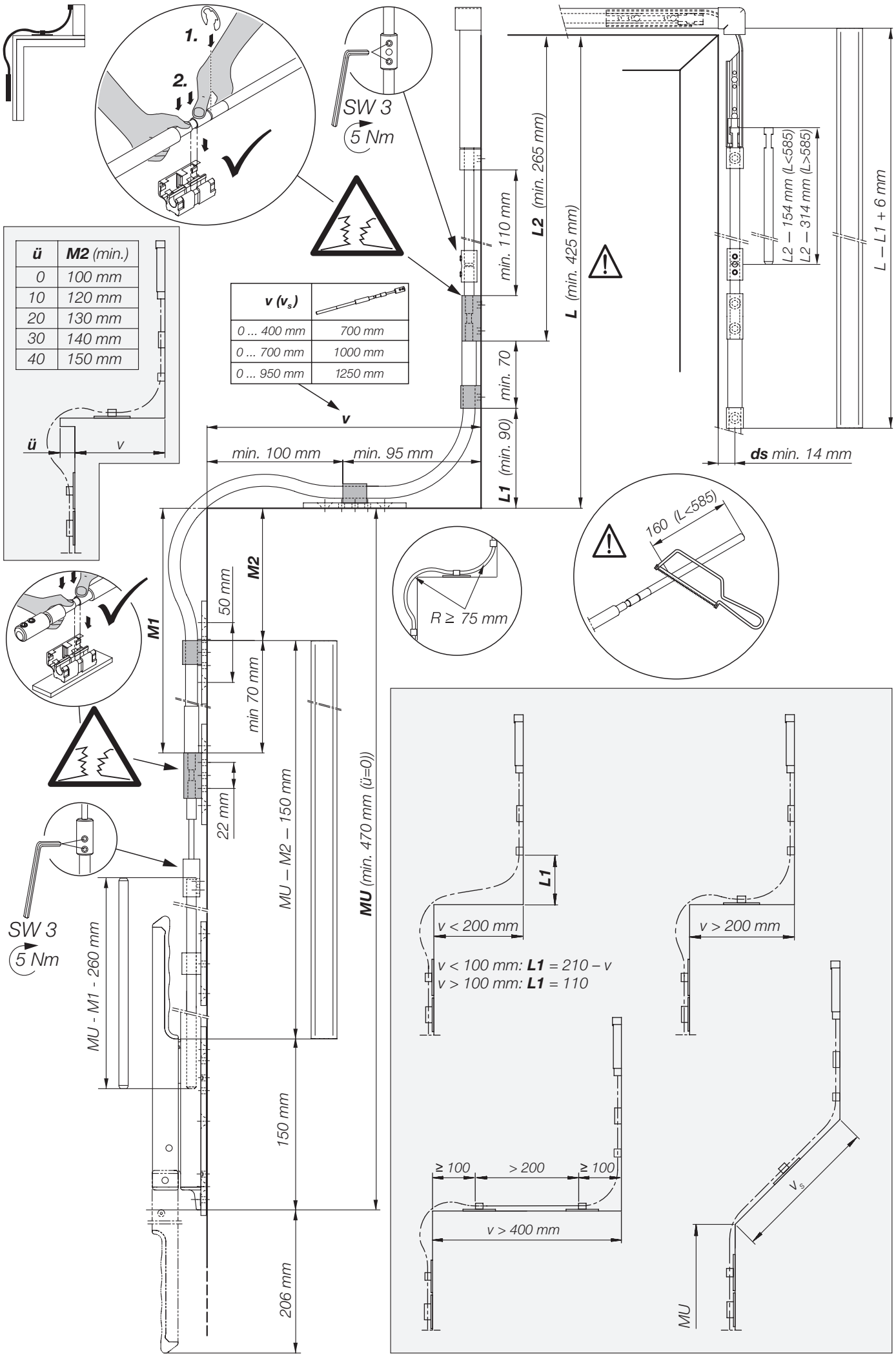

min. 2
95
95
45
80
7
28
7
36
O
45
SU
2 S
2 S
FZ
24
40
50
12
12
2 S
2 S
FZ
4
40
50
12
12
HU min. 325 mm
SU
206 mm
ds=14
HAUTAU
PRIMAT-FL 190
LINKS
150
89,5
25
15
70
11
40 mm
159 mm
40 mm


SU – 150 mm
HU – 175 mm

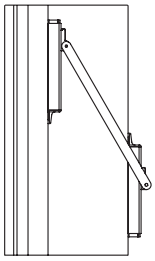

6.1
2
1
6.2
8
1S
11
9
7
10
4
3
9
5

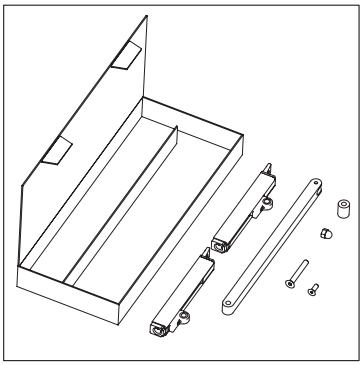

13
80°
SW 3
5 Nm
1
2
14
16
12
60 mm
SW 3
5 Nm
12
60 mm
SW 3
5 Nm
15
SW 3
5 Nm
17
13
18
5 Nm
SW 4
D Fett
GB grease
F graisse
NL vet
I grasso
E grasa
TR yağ
PL tłuszcz
RUS смазка

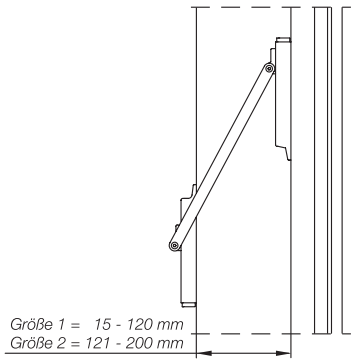

2 S
2 S
FZ
½ FZ
1.1
1.2
2
70
3.1
3.2
400 mm 2
700 mm 3
1000/1250 mm 4
5
4
7
8
9
10.2
10.1
6/15
80°
SW 3
5 Nm
11
12.1
12.2
14
13
1
2
16
13
17
5 Nm
SW 4

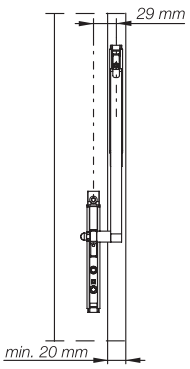

1.
2.
SW 3
5 Nm
ü | M2 (min.)
0 | 100 mm
10 | 120 mm
20 | 130 mm
30 | 140 mm
40 | 150 mm
ü
v
v (v_s) | 700 mm | 1000 mm | 1250 mm
0 ... 400 mm
0 ... 700 mm
0 ... 950 mm
v
min. 110 mm
L2 (min. 265 mm)
L (min. 425 mm)
min. 70
L1 (min. 90)
min. 100 mm
min. 95 mm
L2 – 154 mm (L<585)
L2 – 314 mm (L>585)
L – L1 + 6 mm
ds min. 14 mm
160 (L<585)
R ≥ 75 mm
M1
M2
50 mm
min 70 mm
22 mm
MU – M2 – 150 mm
MU (min. 470 mm (ü=0))
MU - M1 - 260 mm
150 mm
206 mm
SW 3
5 Nm
L1
v < 200 mm
v > 200 mm
v < 100 mm: L1 = 210 – v
v > 100 mm: L1 = 110
≥ 100
> 200
≥ 100
v > 400 mm
v_s
MU

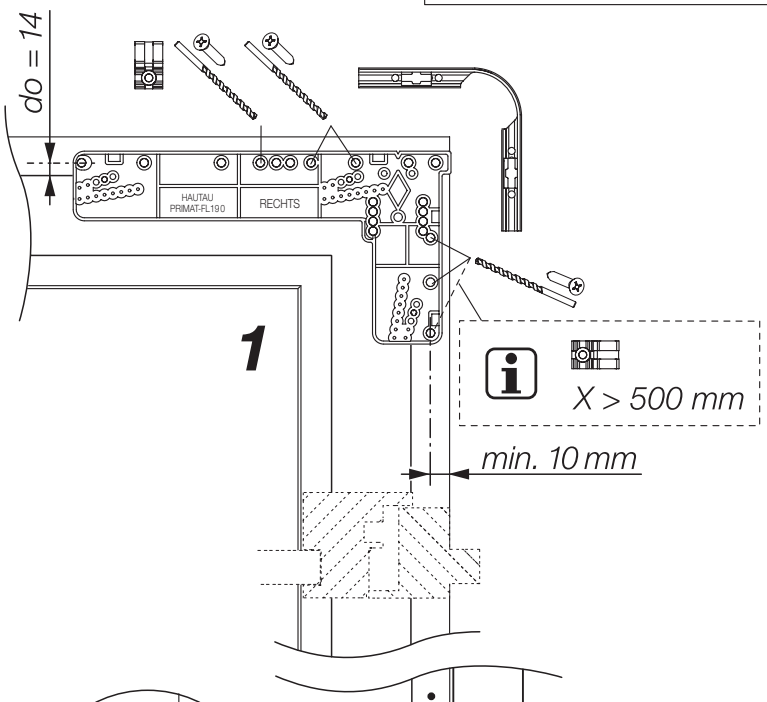
UE PFRiegel

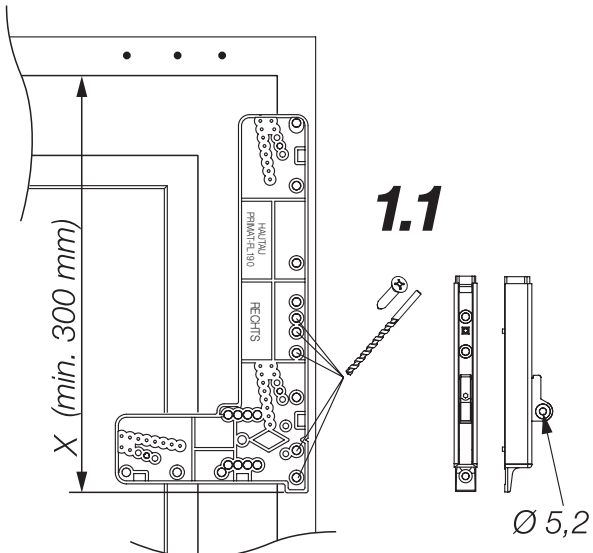


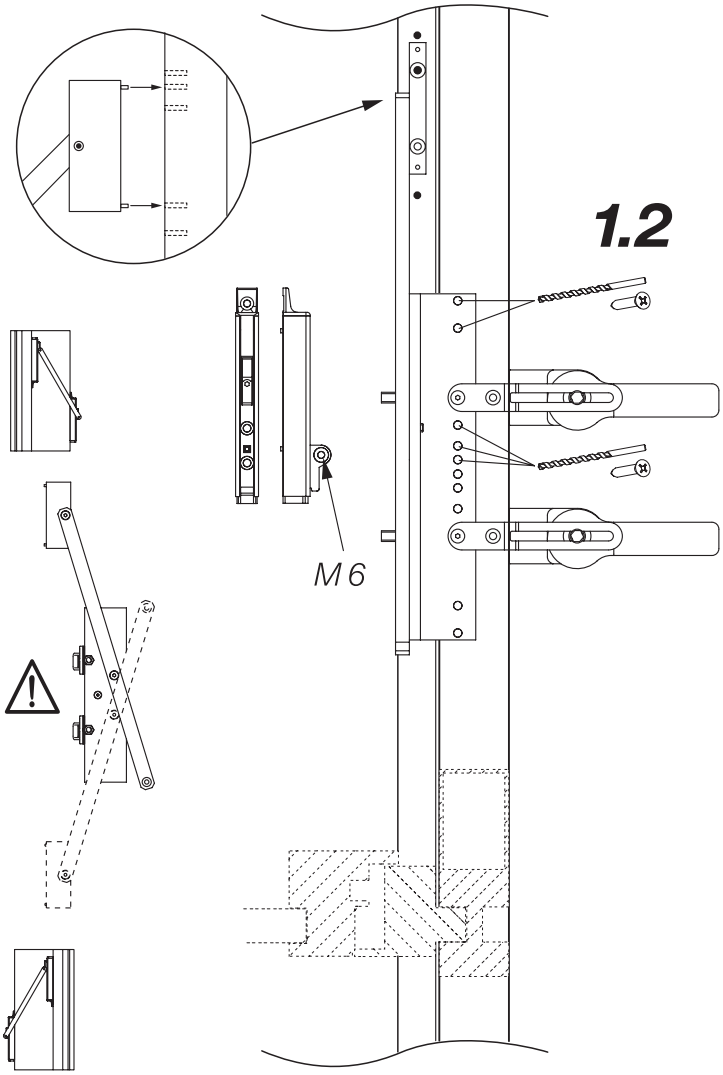


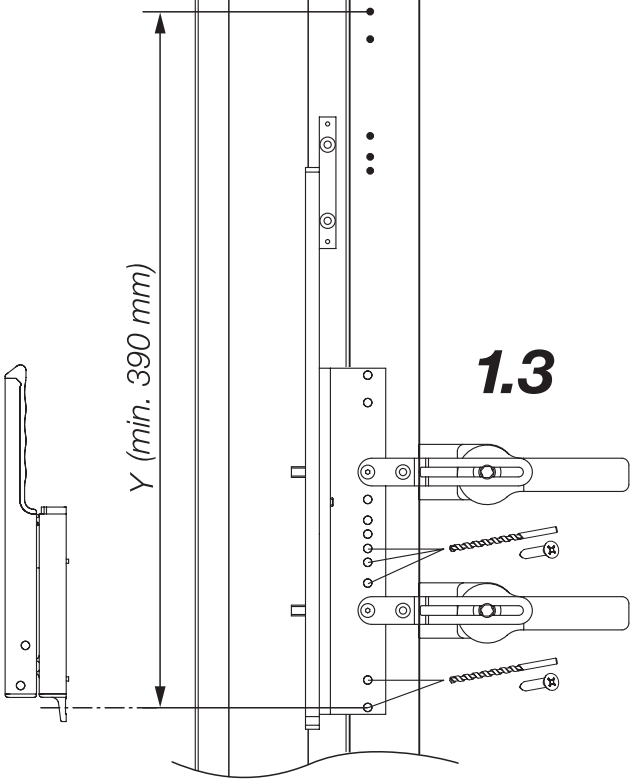

Größe 1 = 15 - 120 mm
Größe 2 = 121 - 200 mm

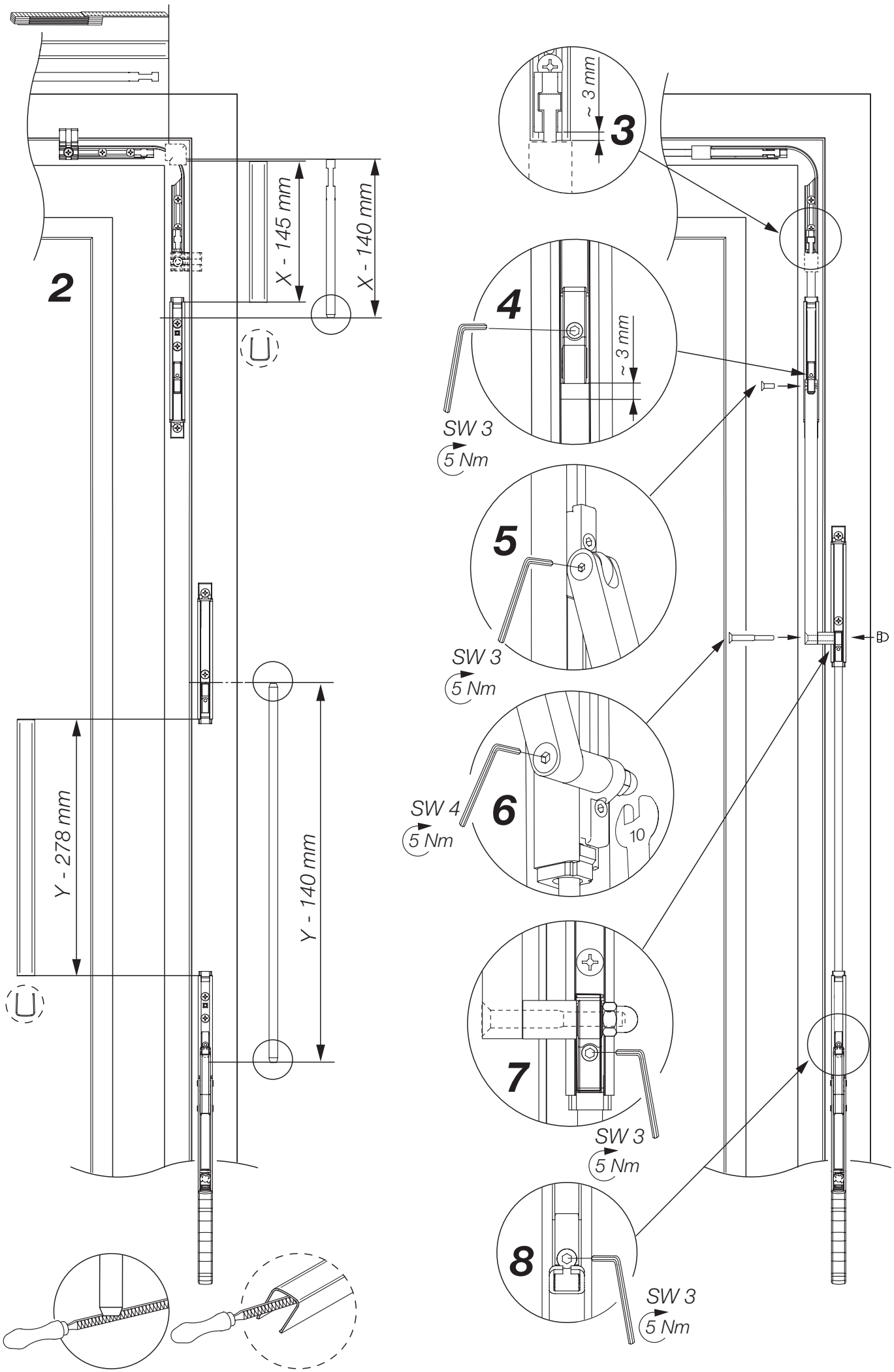

29 mm
min. 20 mm


do = 14
HAUTAU PRIMAT-FL190
RECHTS
1
X > 500 mm
min. 10 mm

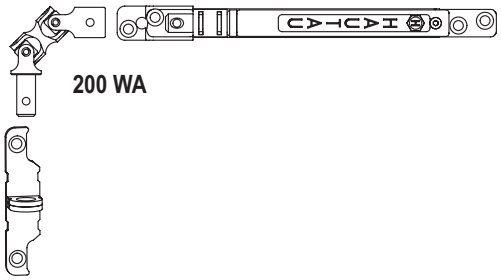

1.1
X (min. 300 mm)
HAUTAU PRIMAT-FL190
RECHTS
Ø 5,2


1.2
M 6

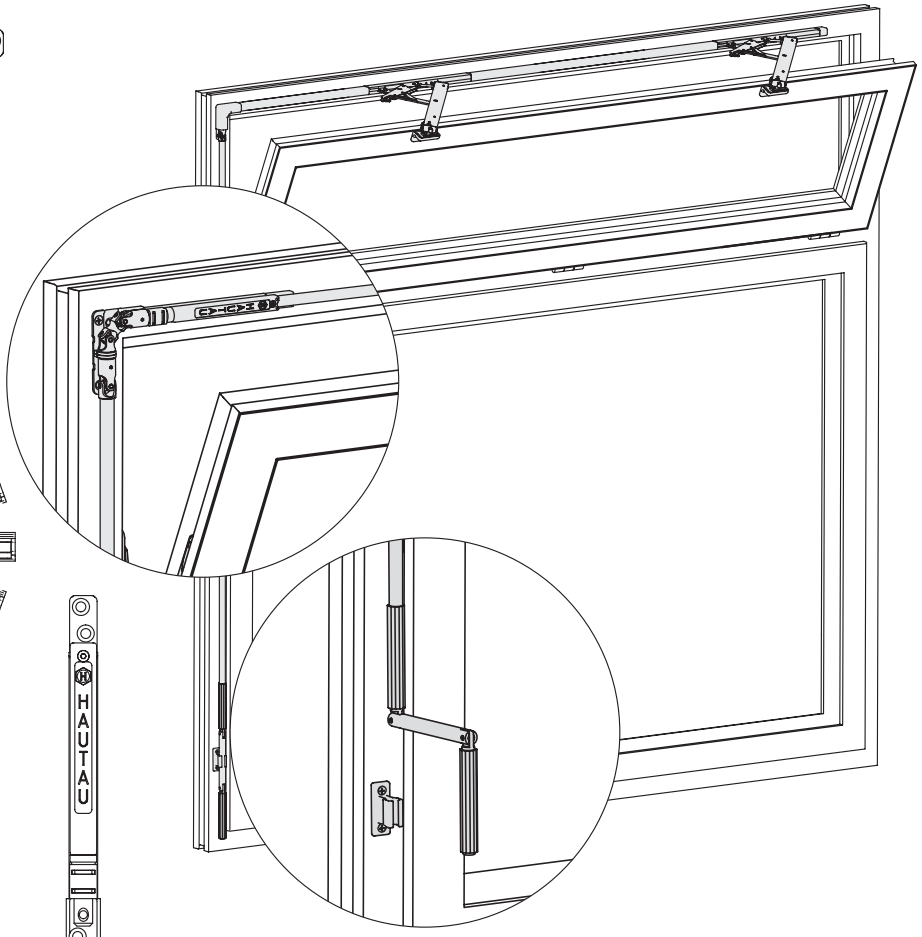

1.3
Y (min. 390 mm)

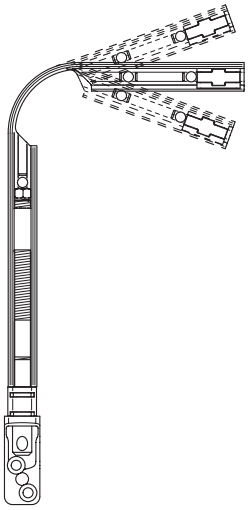

2
X - 145 mm
X - 140 mm
Y - 278 mm
Y - 140 mm
3
~ 3 mm
4
~ 3 mm
SW 3
5 Nm
5
SW 3
5 Nm
6
SW 4
5 Nm
10
7
SW 3
5 Nm
8
SW 3
5 Nm

200 A, 200 WA, 201 E

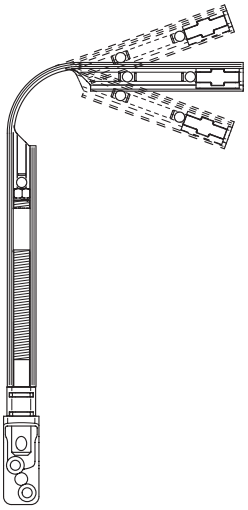


200 WA





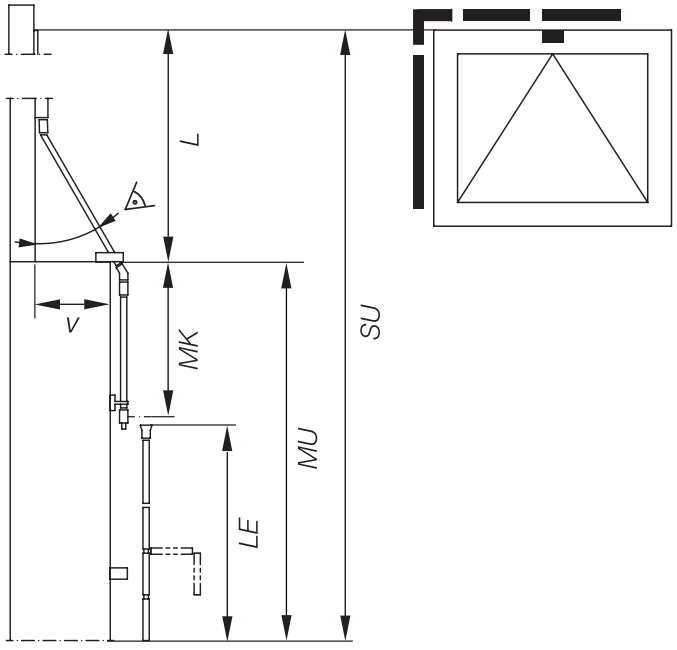
201 E,
H38

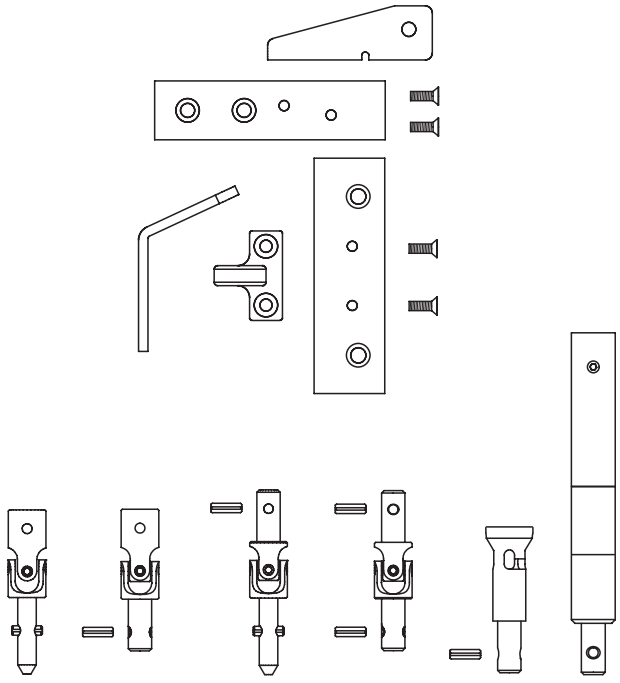


201 E,
H57

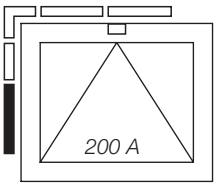
200A

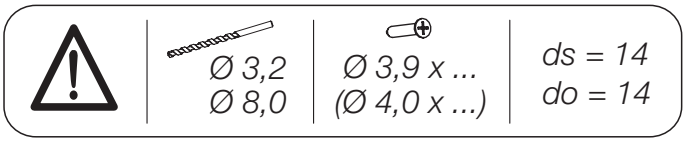
L / R	L / R
☐ 303940 / 303941	☐ 228505 / 228502
■ 303942 / 303943	■ 228511 / 228508

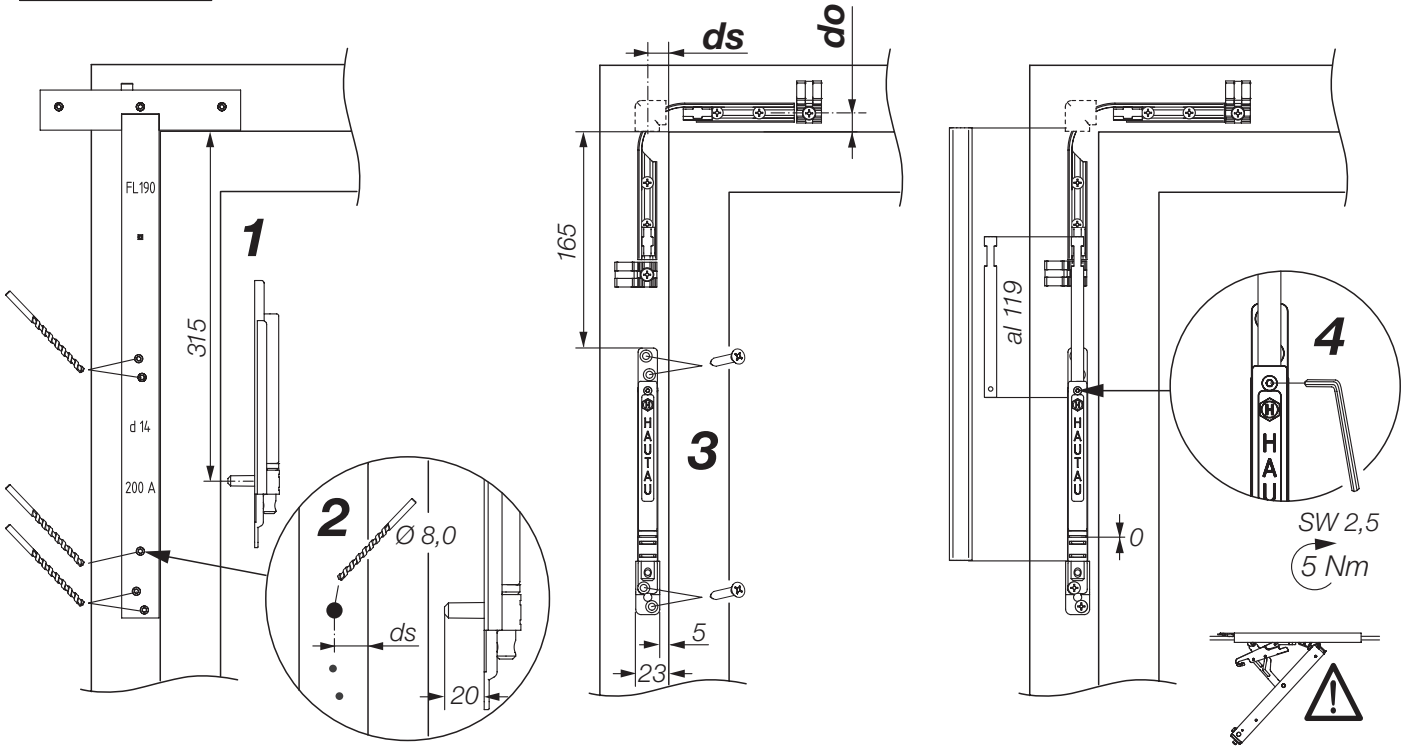


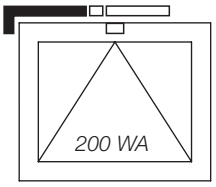


8/16 10/16 8/10 10/10

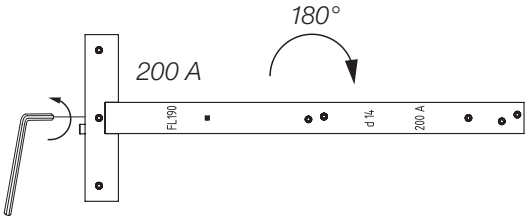


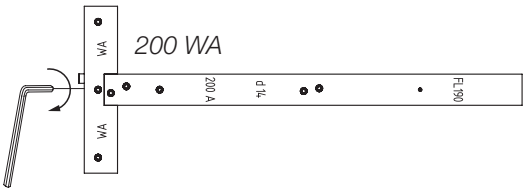






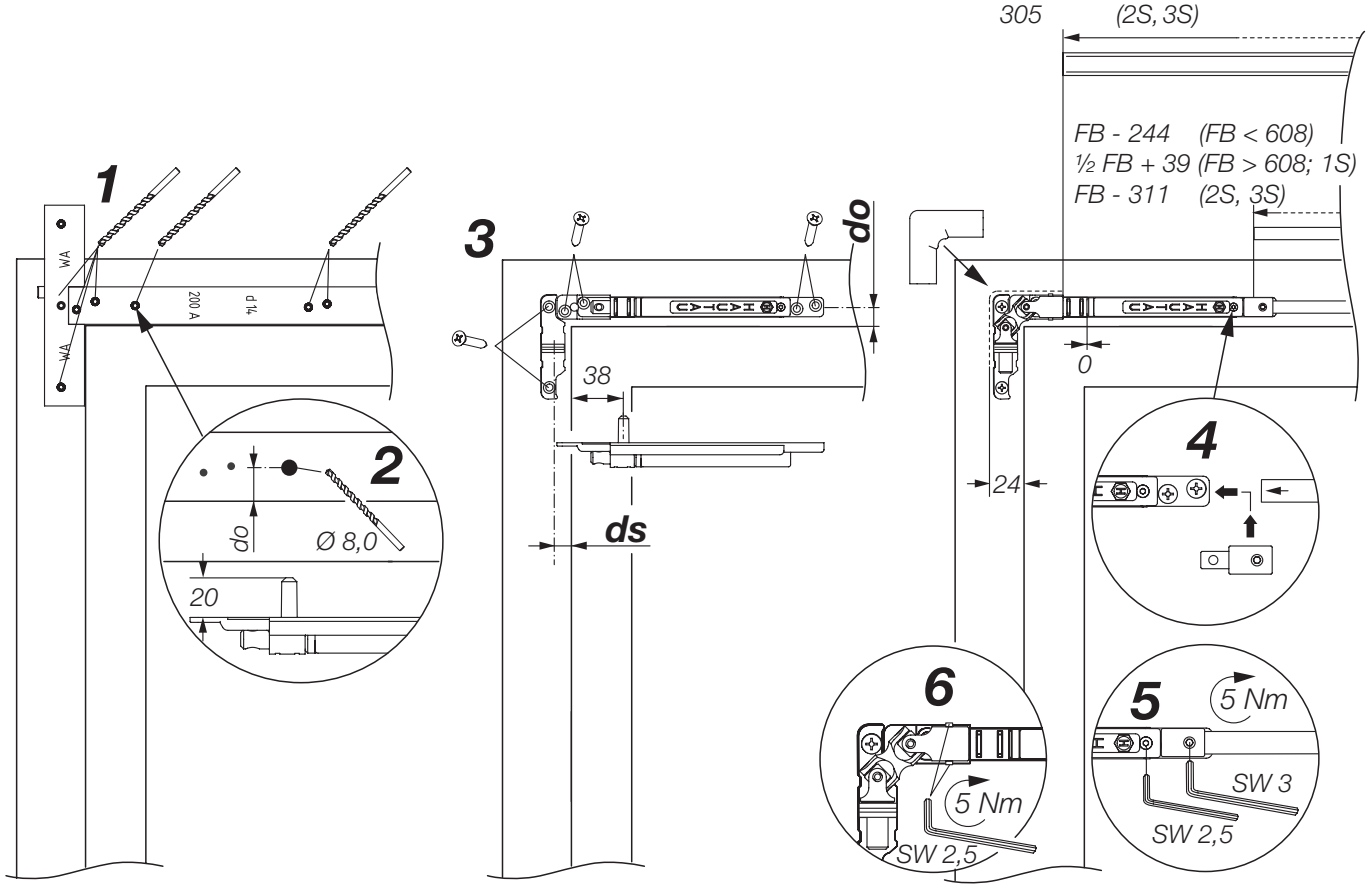
FB min. 565 mm

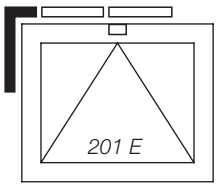


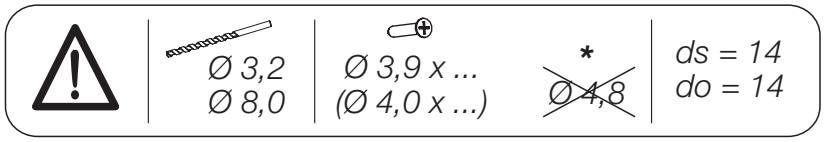


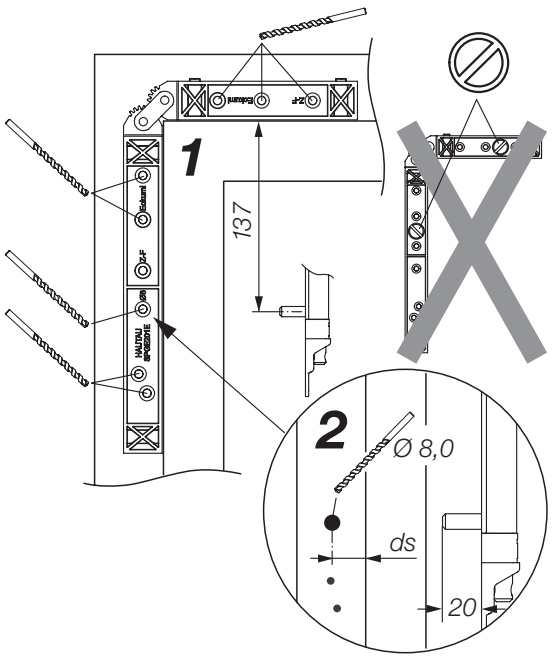
FB - 350 (FB < 608)
½ FB - 45 (FB > 608; 1S)
305 (2S, 3S)

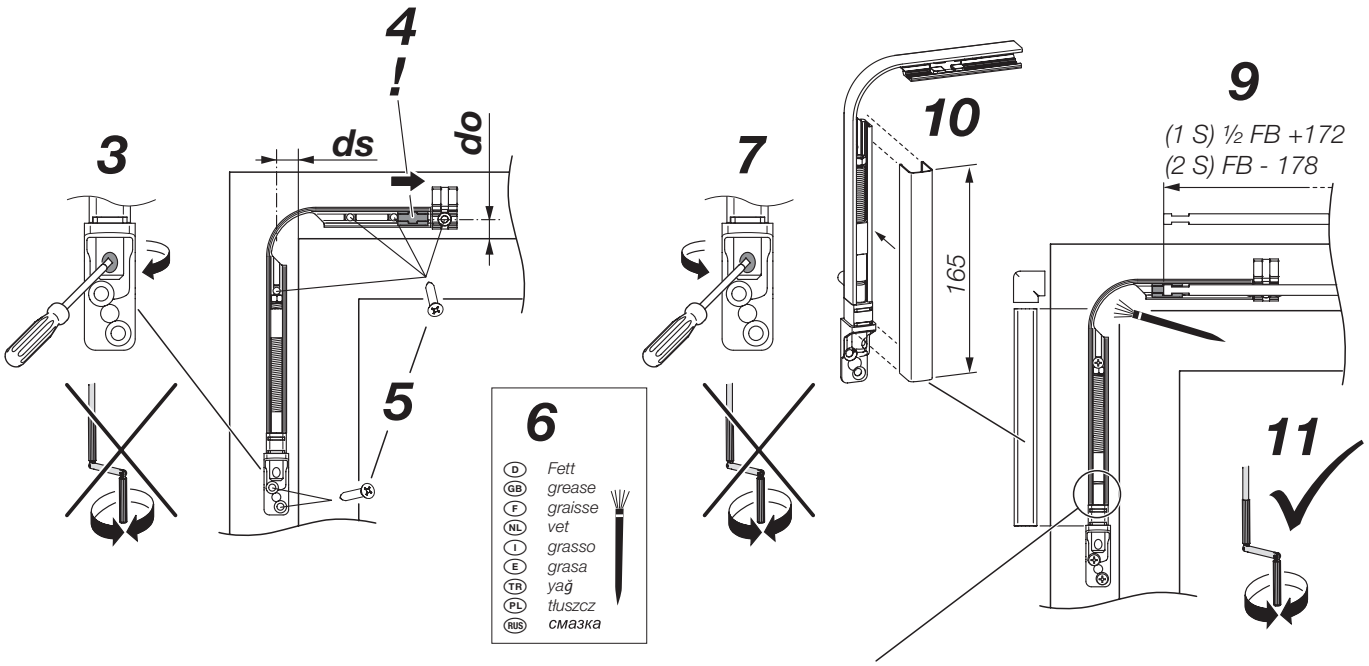
FB - 244 (FB < 608)
½ FB + 39 (FB > 608; 1S)
FB - 311 (2S, 3S)

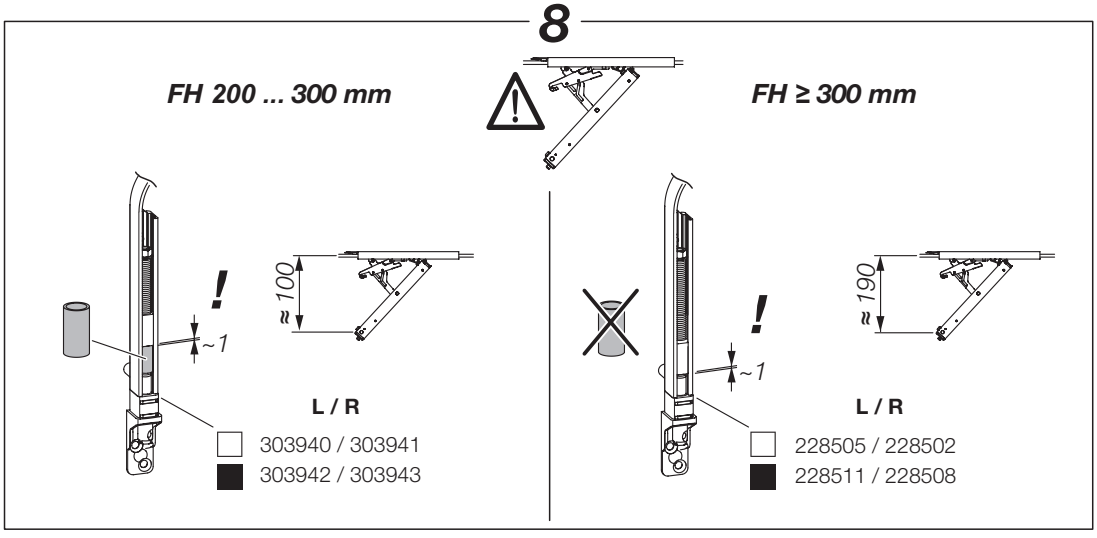


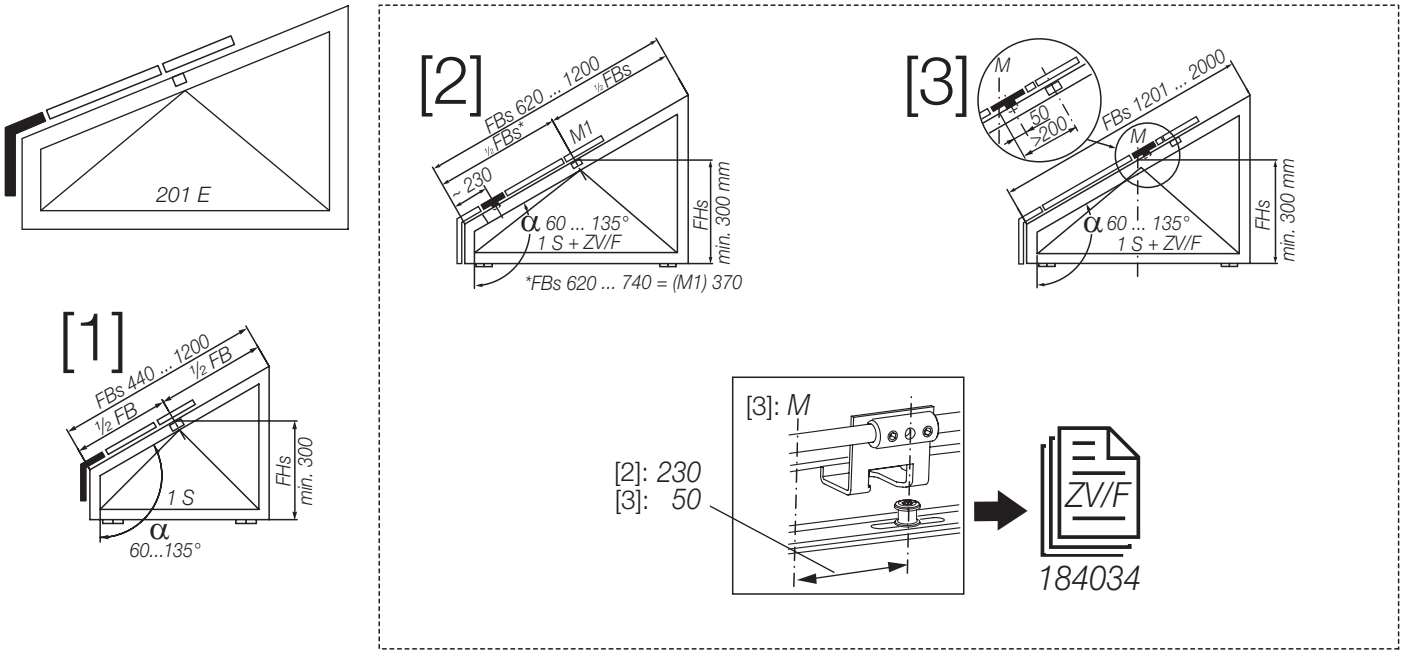

201 E

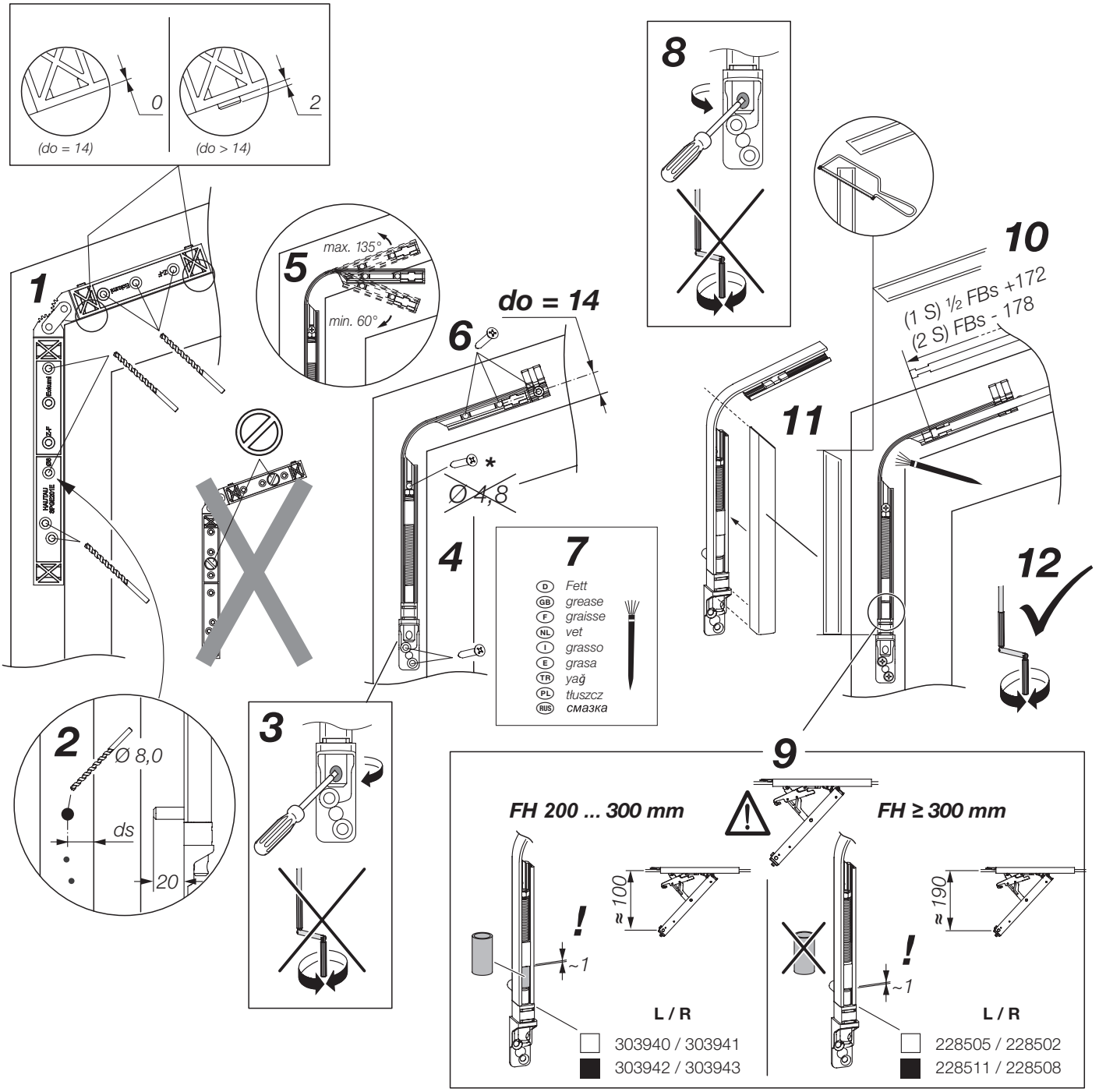

Ø 3,2
Ø 8,0
Ø 3,9 x ...
(Ø 4,0 x ...)
*
Ø 4,8
ds = 14
do = 14

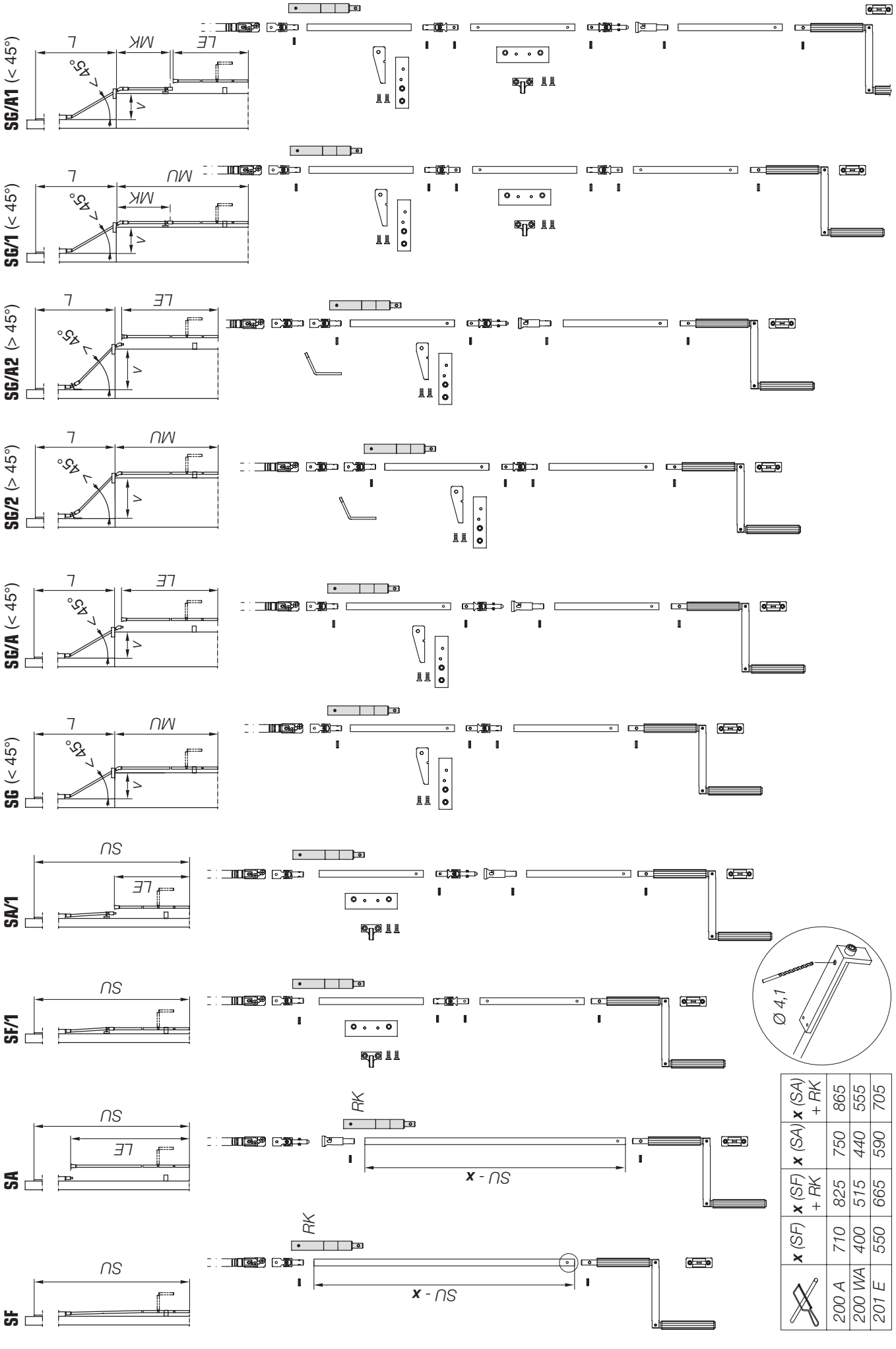

1
137
2
Ø 8,0
ds
20


4
!
3
ds
do
5
6
Fett
grease
graisse
vet
grasso
grasa
yağ
tłuszcz
смазка
7
10
165
9
(1 S) ½ FB +172
(2 S) FB - 178
11


8
FH 200 ... 300 mm
FH ≥ 300 mm
!
~1
100
190
L / R
303940 / 303941
303942 / 303943
228505 / 228502
228511 / 228508

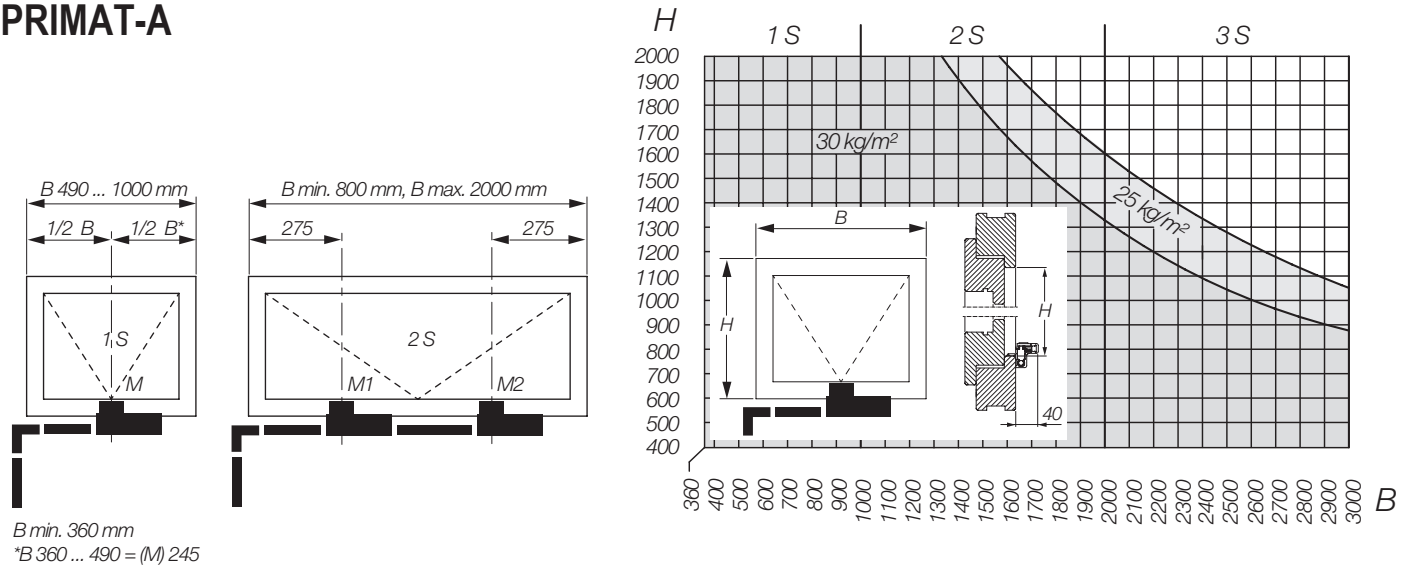

201 E
[2]
FBs 620 ... 1200
½ FBs
½ FBs*
M1
~ 230
α 60 ... 135°
1 S + ZV/F
FHs
min. 300 mm
*FBs 620 ... 740 = (M1) 370
[3]
M
~ 50
~ 200
FBs 1201 ... 2000
[1]
FBs 440 ... 1200
½ FB
1 S
60...135°
[3]: M
[2]: 230
[3]: 50
ZV/F
184034

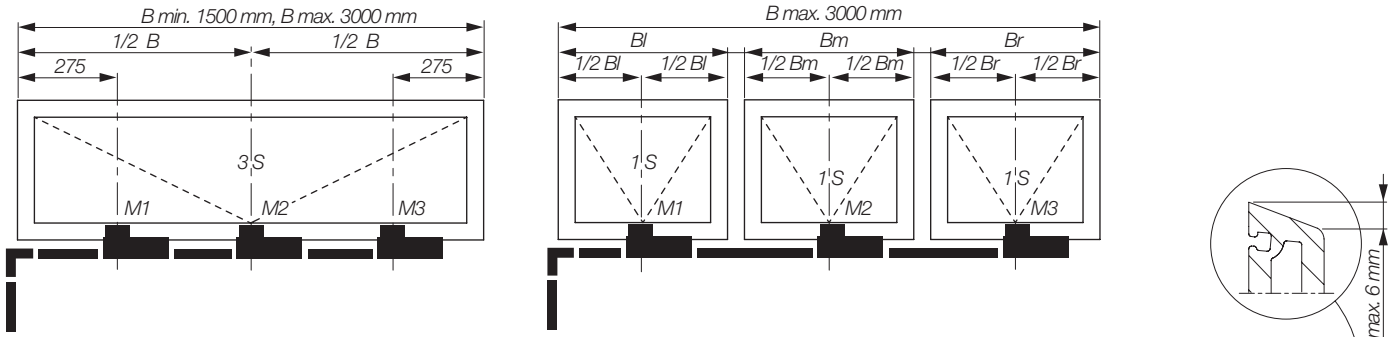

(do = 14)
(do > 14)
1
2
Ø 8,0
ds
20
3
4
5
max. 135°
min. 60°
6
do = 14
Ø 4,8
7
D Fett
GB grease
F graisse
NL vet
I grasso
E grasa
TR yağ
PL tłuszcz
RUS смазка
8
9
FH 200 ... 300 mm
FH ≥ 300 mm
≈ 100
≈ 190
~1
L / R
303940 / 303941
303942 / 303943
228505 / 228502
228511 / 228508
10
(1 S) ½ FBs +172
(2 S) FBs - 178
11
12

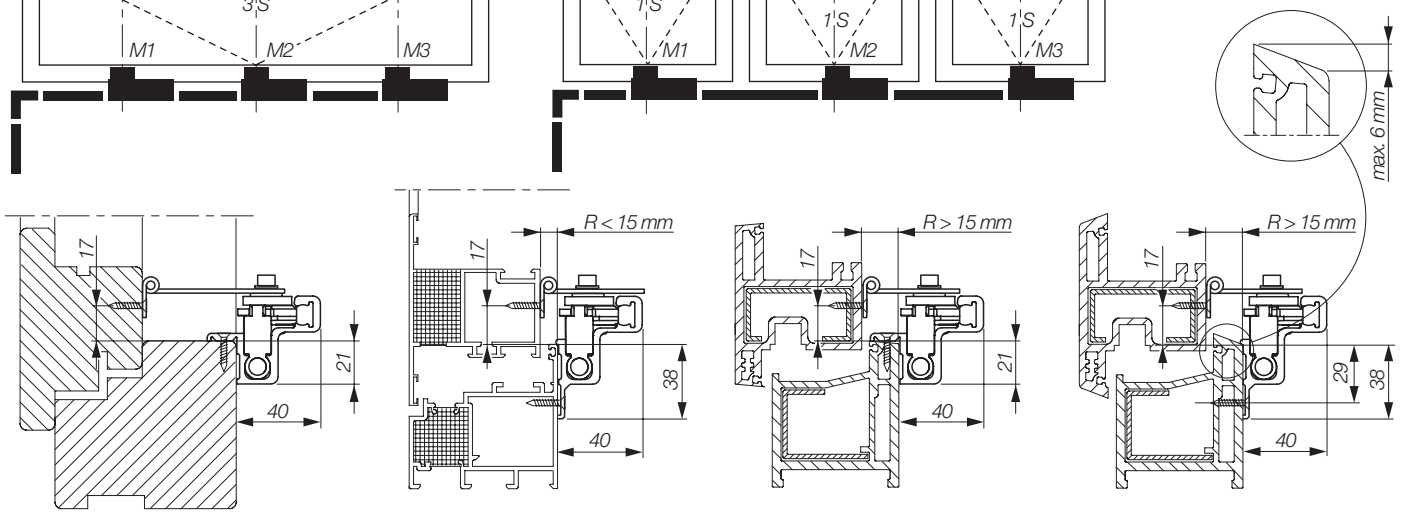


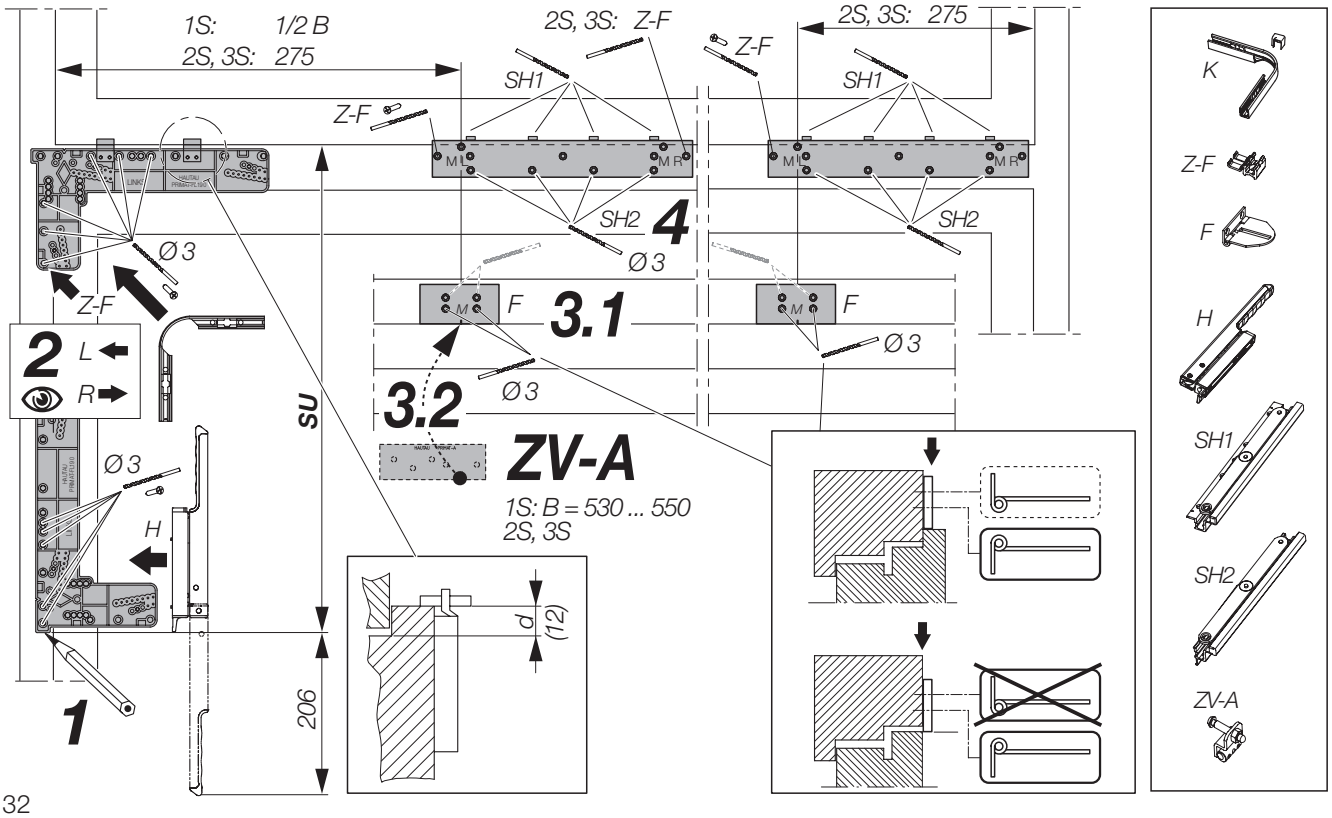
	x (SF)	x (SF) + RK	x (SA)	x (SA) + RK
200 A	710	825	750	865
200 WA	400	515	440	555
201 E	550	665	590	705

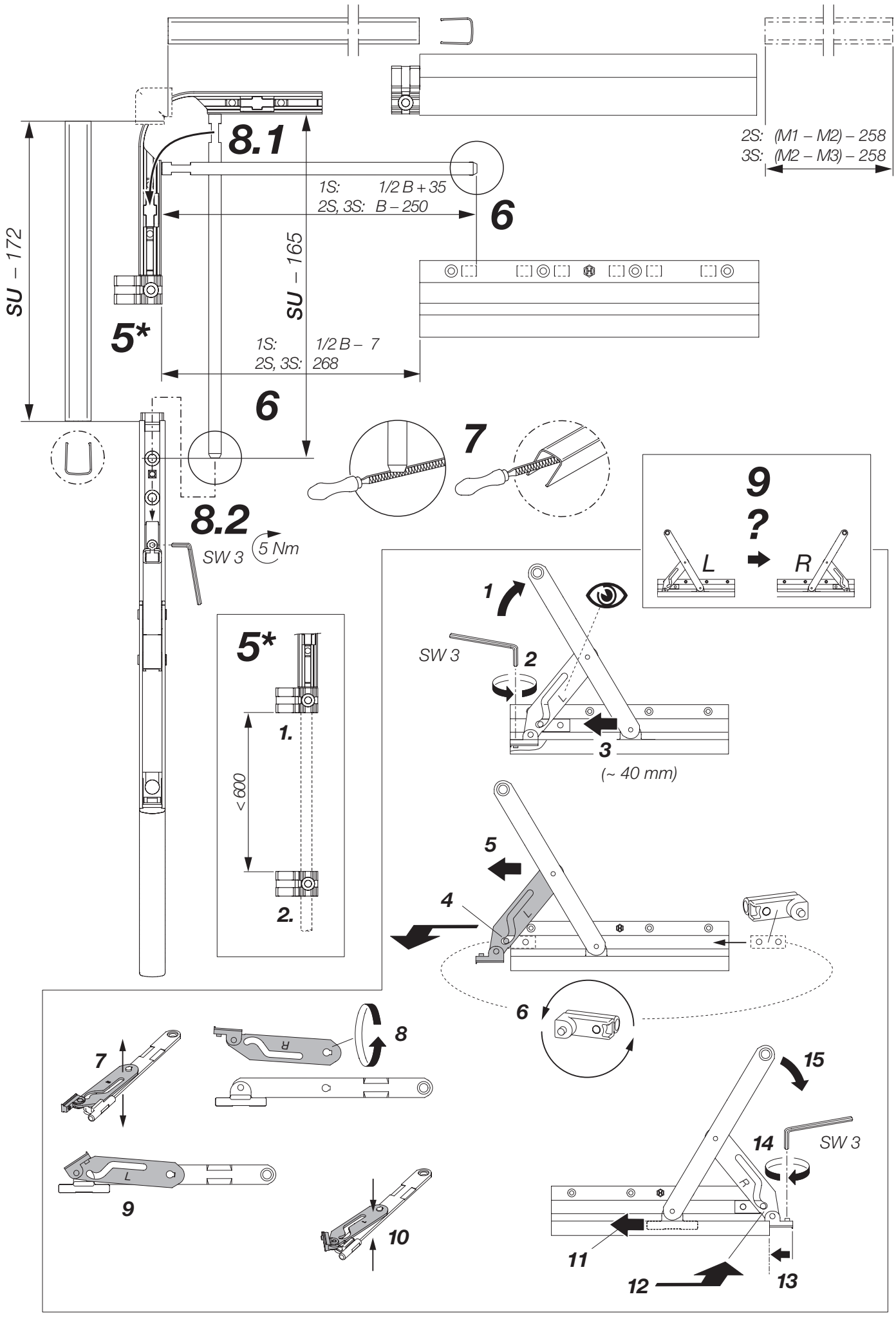
PRIMAT-A

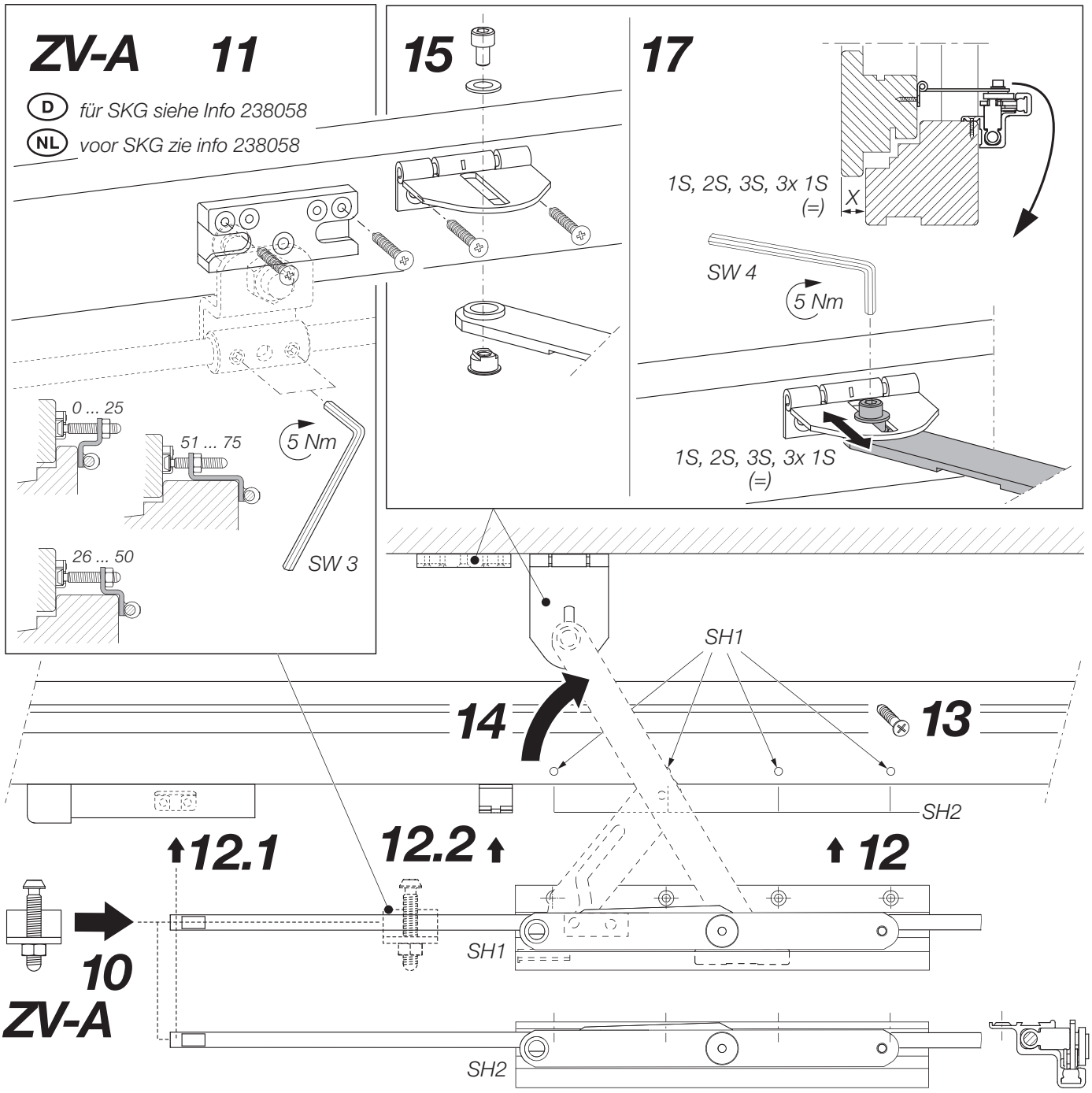

H
1 S
2 S
3 S
30 kg/m²
25 kg/m²
B
H
40
B 490 ... 1000 mm
1/2 B
1/2 B*
1 S
M
B min. 800 mm, B max. 2000 mm
275
275
2 S
M1
M2
B min. 360 mm
*B 360 ... 490 = (M) 245

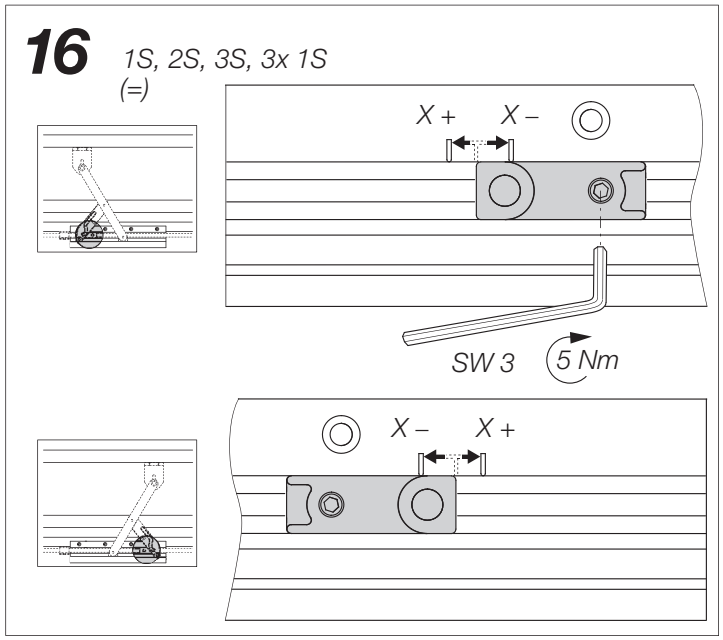

B min. 1500 mm, B max. 3000 mm
1/2 B
1/2 B
275
275
3 S
M1
M2
M3
B max. 3000 mm
Bl
Bm
Br
1/2 Bl
1/2 Bl
1/2 Bm
1/2 Bm
1/2 Br
1/2 Br
1 S
M1
1 S
M2
1 S
M3

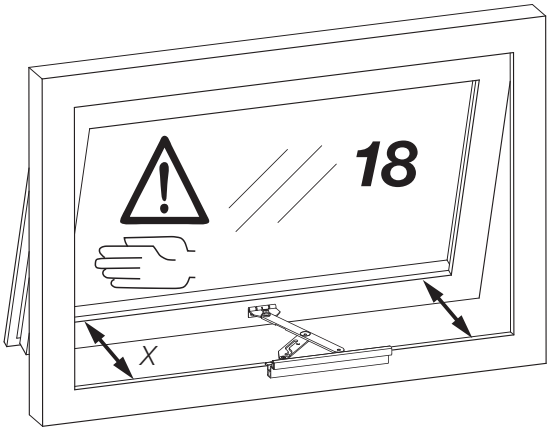

max. 6 mm
17
21
40
R < 15 mm
38
R > 15 mm
29

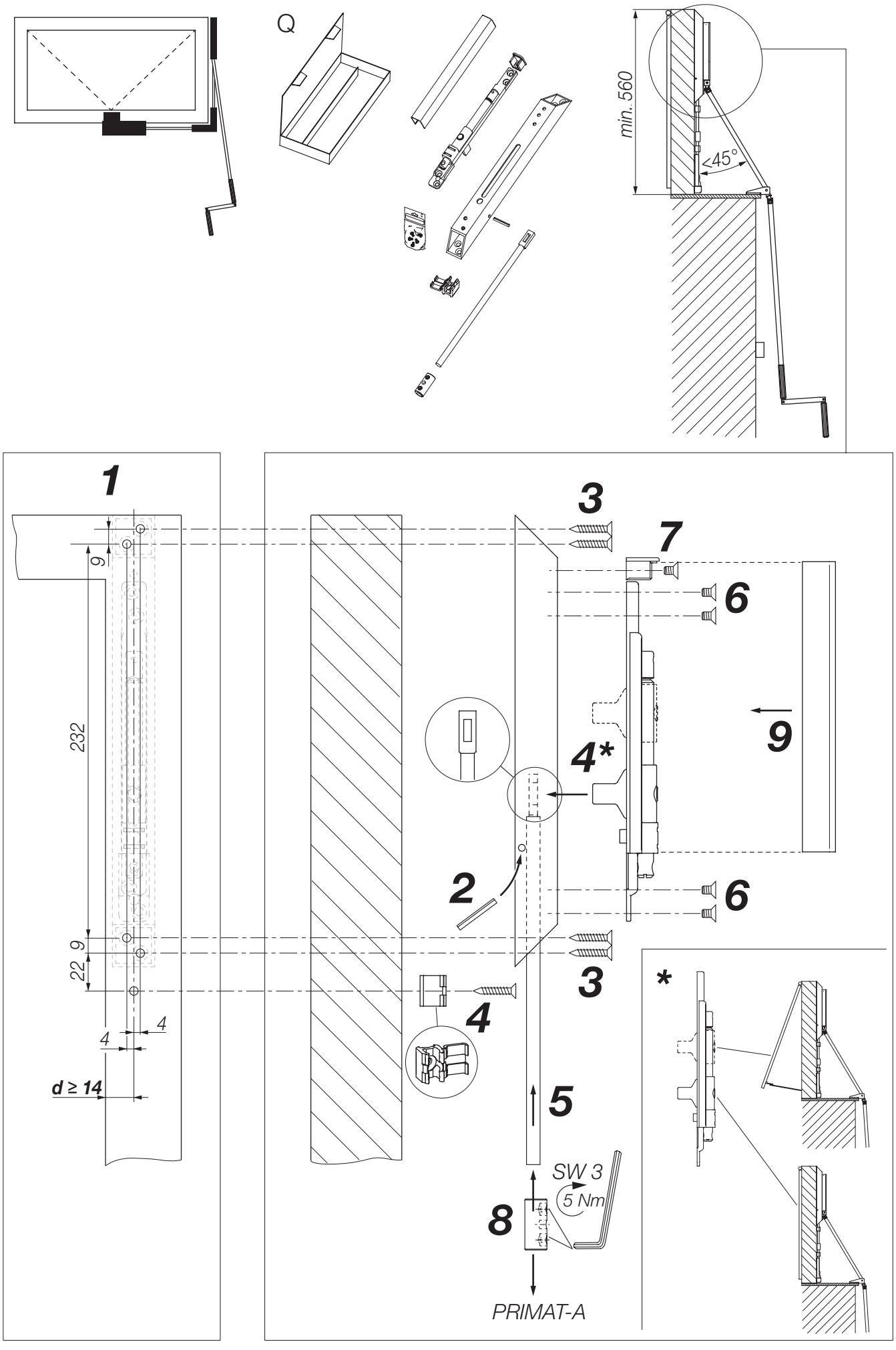

1S: 1/2 B
2S, 3S: 275
2S, 3S: Z-F
2S, 3S: 275
SH1
SH2
Z-F
4
3.1
3.2
Ø 3
2
L
R
1
su
206
H
d
(12)
ZV-A
1S: B = 530 ... 550
2S, 3S
K
F


8.1
1S: 1/2 B + 35
2S, 3S: B – 250
6
SU – 172
SU – 165
5*
1S: 1/2 B – 7
2S, 3S: 268
6
2S: (M1 – M2) – 258
3S: (M2 – M3) – 258
7
8.2
SW 3
5 Nm
9
?
L
R
5*
1.
< 600
2.
1
SW 3
2
3
(~ 40 mm)
5
4
6
7
8
9
10
11
12
13
14
SW 3
15


ZV-A
11
D für SKG siehe Info 238058
NL voor SKG zie info 238058
0 ... 25
51 ... 75
26 ... 50
5 Nm
SW 3
15
17
1S, 2S, 3S, 3x 1S
(=)
X
SW 4
5 Nm
1S, 2S, 3S, 3x 1S
(=)
SH1
14
13
SH2
12.1
12.2
12
10
ZV-A
SH1
SH2


16
1S, 2S, 3S, 3x 1S
(=)
X +
X –
SW 3
5 Nm
X –
X +


18
X


Q
min. 560
<45°
1
3
7
6
9
4*
2
6
3
4
5
SW 3
5 Nm
8
PRIMAT-A
232
9
22
9
4
4
d ≥ 14
*

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