

## KIT AUTOPORTANTE GUARDIAN TELESCOPICO GUARDIAN TELESCOPIC CANTILEVER KIT

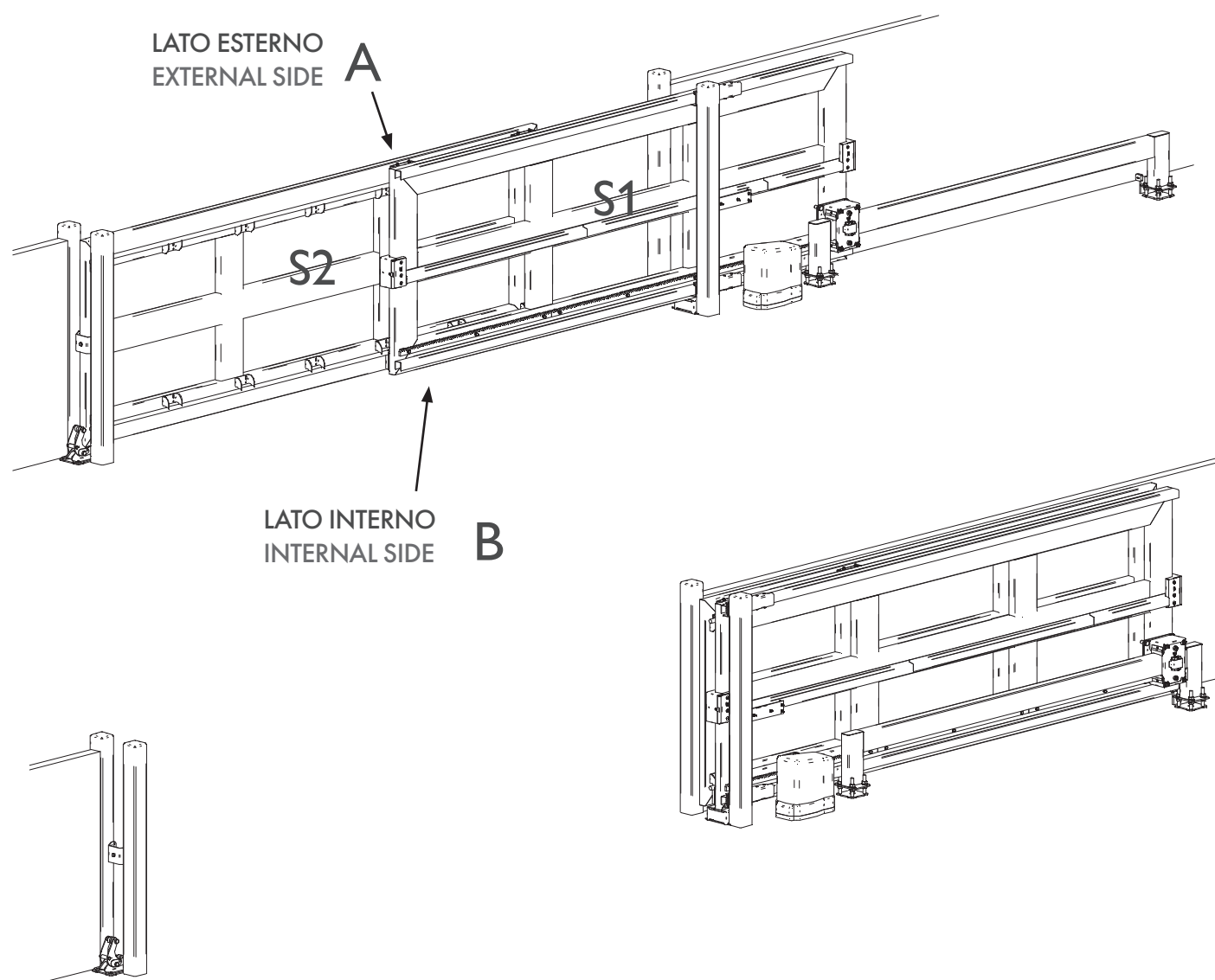
Kit di accessori in acciaio zincato per la realizzazione di cancelli autoportanti telescopici. Il movimento tra le semi-ante viene trasmesso da un sistema a fune in acciaio zincato con anima in polipropilene.  
 Il kit guardian telescopico unisce le caratteristiche di compattezza grazie alle ante telescopiche che in fase di apertura riducono notevolmente l'ingombro, ai vantaggi del sistema autoportante.

*Galvanized accessories Kit for the installation of cantilever telescopic gates. The movement between the leaves is provided by a galvanized cable system with core in propylene.*

*Our Guardian telescopic cantilever system combines the characteristics of compactness resulting from its telescopic leaves that significantly reduce the footprint during the opening phase, to all the advantages of the cantilever system.*

**VERSIONE DESTRA (PER LA VERSIONE SINISTRA VEDERE PAG. 11)**

**RIGHT VERSION (FOR THE LEFT VERSION SEE PAGE 11 )**



**KD2150.100 APERTURA FINO A 8m - OPENING UP TO 8m**



COMPONENTI  
COMPONENTS

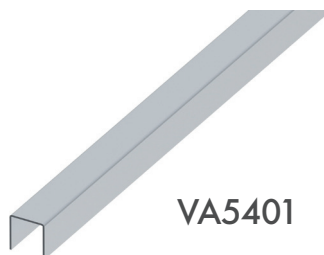
<p><b>x1</b></p> <p>LUBRIFICANTE INCLUSO OIL INCLUDED</p>	<p><b>x1</b></p>	<p><b>x1</b></p>
<p>KD5102.006</p>	<p>KD3100.075</p>	<p>VD2200.100</p>
<p><b>x1</b></p>	<p><b>x2</b></p>	<p><b>x2</b></p>
<p>VD2100.100</p>	<p>VD2501.100</p>	<p>VD2500.100</p>
<p><b>x1</b></p>		
<p>VA4101.100</p>		



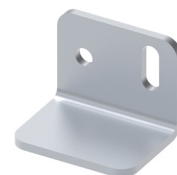
ARTICOLI CORRELATI  
RELATED ITEMS



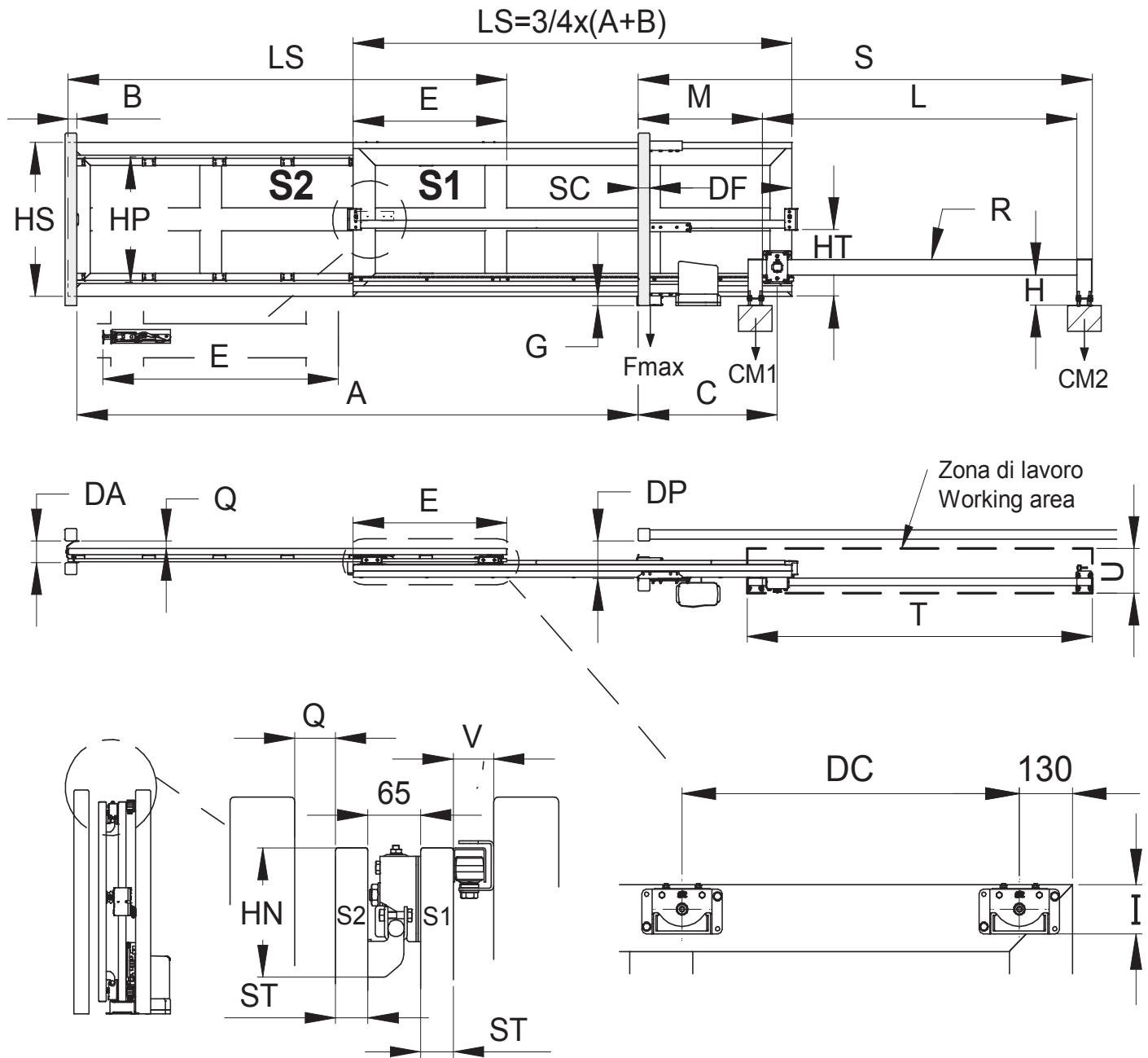
VD2350



VA5401



VA54011



**DIMENSIONAMENTO ANTE / LEAVES DIMENSIONING**

G min (m)	H min (m)	V min (mm)	HS min (m)	HN min (mm)	HT min (m)	I min (mm)	R (mm)	ST (mm)	F max (kg)	S2 max (kg)	S1+S2 max (kg)	CM1 min (kg)	CM2 min (kg)	U (m)
0,06	0,200	50	0,6	140	0,300	100	100x50 sp.3	40÷80	950	250	500	1000	100	0,29÷0,37

I valori in tabella sono calcolati con B=0,1 m  
The values in the following table are calculated with B=0.1 m

A [m]	LS [m]	E [m]	C [m]	DC [m]	Smin [m]	L [m]	M [m]	T [m]	Q [mm]	DT [m]
3,5	2,70	0,9	0,8	0,64	~2,9	2,02	0,7	2,3	50	0,85
4	3,08	1,03	0,93	0,76	~3,28	2,27	0,83	2,55	50	0,97
4,5	3,45	1,15	1,05	0,89	~3,65	2,52	0,95	2,80	50	0,11
5	3,83	1,28	1,18	1,01	~4,03	2,77	1,08	3,05	50	1,22
5,5	4,20	1,40	1,3	1,14	~4,4	3,02	1,2	3,3	50	1,35
6	4,58	1,53	1,43	1,26	~4,78	3,27	1,33	3,55	60	1,47
6,5	4,95	1,65	1,55	1,39	~5,15	3,52	1,45	3,8	60	1,60
7	5,33	1,78	1,68	1,51	~5,53	3,77	1,58	4,05	60	1,72
7,5	5,70	1,90	1,80	1,64	~5,9	4,02	1,7	4,3	60	1,85
8	6,08	2,03	1,93	1,76	~6,28	4,27	1,83	4,55	60	1,97

**ESEMPIO MISURE FUORI TABELLA  
EXAMPLE OF OUT-OF-TABLE MEASUREMENTS**

A = 4,2 m  
B = 0,1 m  
LS = 3/4x (A+B)  
LS = 3/4x (4,2+0,1) = 3,225 m

**ALTRE FORMULE UTILI  
OTHER USEFUL FORMULAS**

E (m) = LS/3  
M (m) = C-0,1  
S (m) = LS+0,2  
DA (mm) = Q+AT+60  
HP (mm) = HS-(2xI) + 30  
DC (m) = E-0,25

L (m) = 1/2 (A+B) + 0,22  
T (m) = L+0,28  
C (m) = E-0,1  
DP (mm) = (2xST)+V+Q+65  
DC (m) = E-0,26  
DF (m) = E-SC



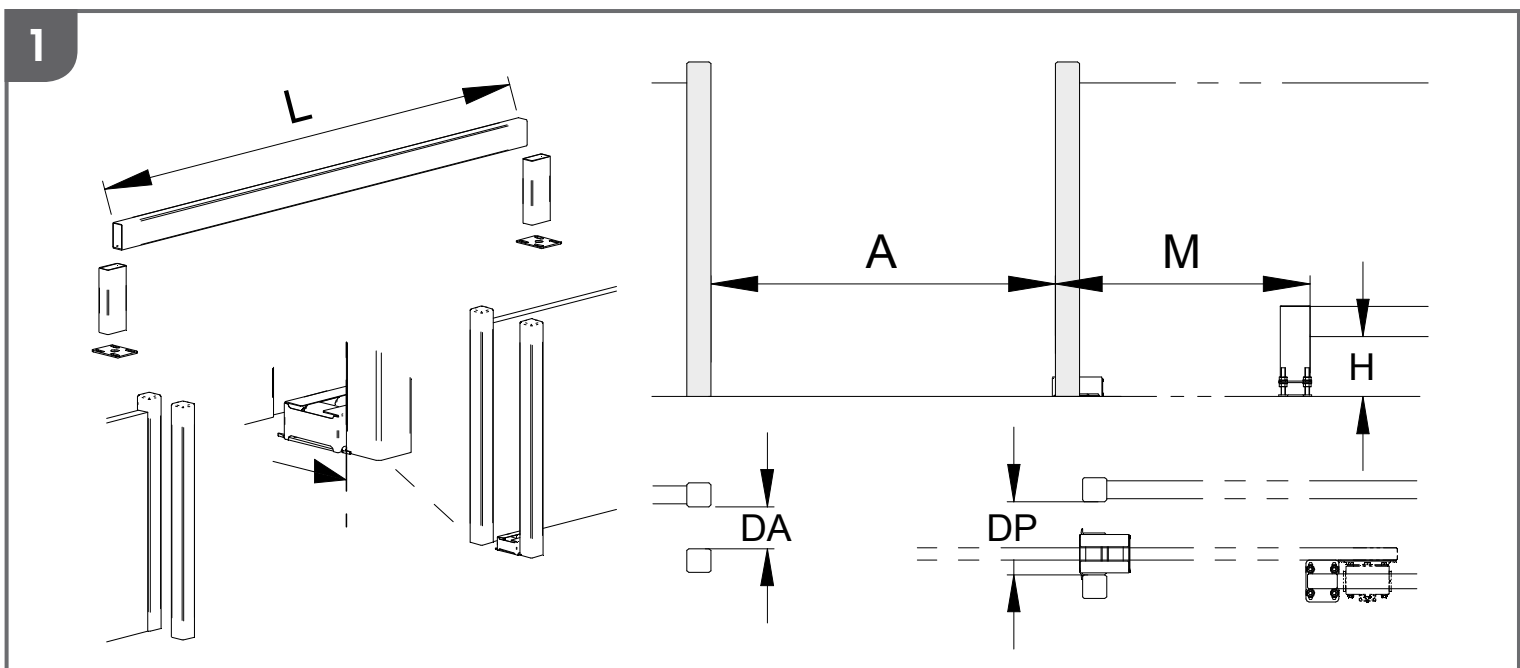
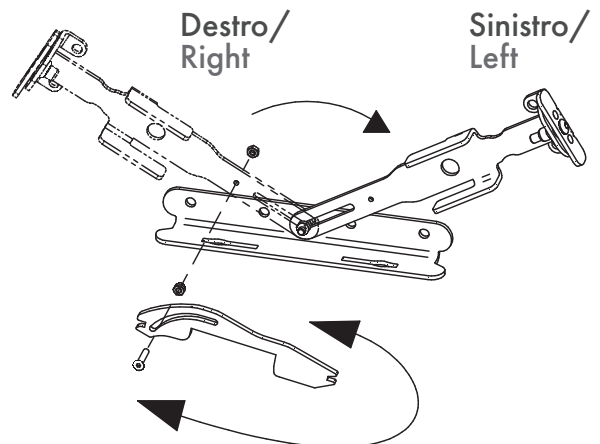
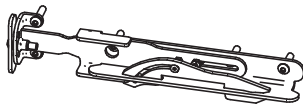
INFO TECNICHE  
TECHNICAL INFO

1. È obbligatorio l'utilizzo di battenti di fine corsa e l'installazione di viti di sicurezza ( fig. 25)
2. Per la scelta del motore : considerare il peso su cui andrà ad agire, diversamente da come avviene normalmente. Massa di riferimento per la scelta motore = 2x (Peso anta S1+ Peso anta S2)
3. Tipologia motore consigliato: 24Volt DC
4. Tensione ottimale della fune: sufficiente a mantenere la fune orizzontale, una tensione superiore o inferiore ne abbrevia la durata
5. Velocità di chiusura max. anta S2 = 0.18m/s
6. Arresti e partenze bruschi stressano il sistema riducendone la durata, inoltre possono causare malfunzionamenti e rotture
7. Accelerazioni, decelerazioni e variazioni di velocità elevate possono causare l'effetto elastico tra le ante durante il movimento.

1. The use of limit stops and the installation of safety screws is compulsory.
2. For the motor choice : you have to consider the weight that the motor has to support, unlike the normal cases. Reference weight for the choice of the motor = 2x (weight leaf S1 + weight Sleaf S2)
3. Recommended motor: 24-volt DC
4. Optimal tension of the cable: the ideal traction is the one necessary to keep the wire in a horizontal position. A lower or higher tension of the cable can shorten its duration.
5. Second and third leaf maximum closing speed = 0,18m/s
6. Abrupt variations in speed can cause elastic effects between the leaves.
7. Accelerations, decelerations and high-speed variations can shorten the system duration and can cause malfunctions and disruptions.

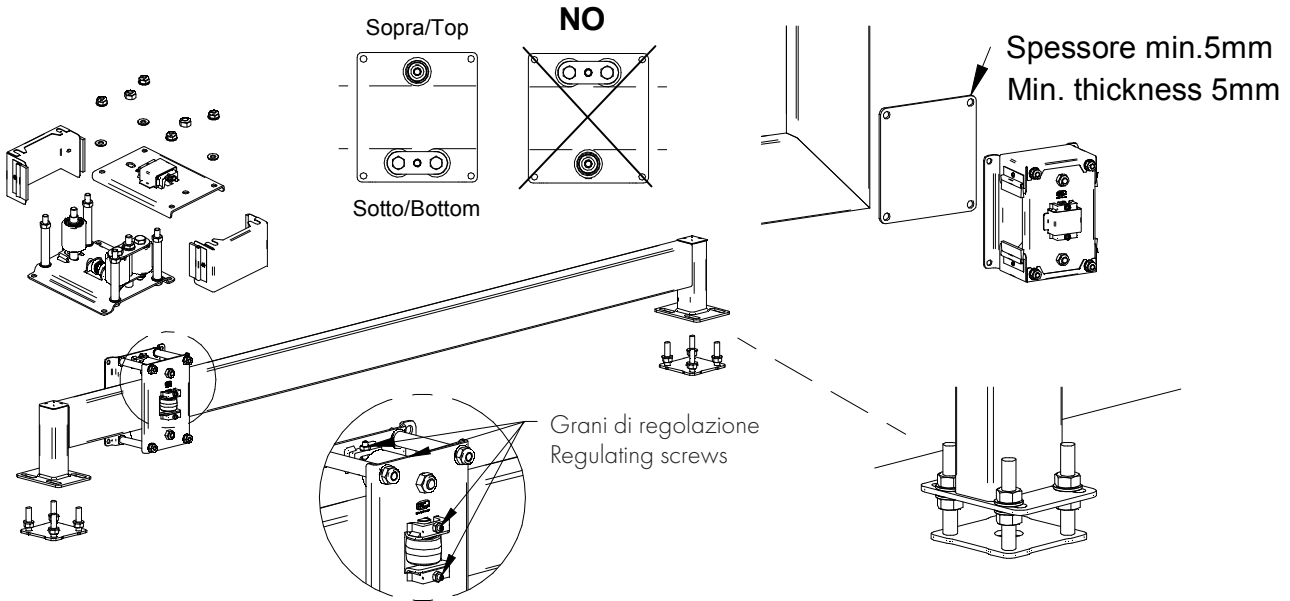
Preparare gli sganci Destri e Sinistri nelle quantità indicate:  
Prepare the right and left hitches in the indicated quantities:

2x  
Destro/Right





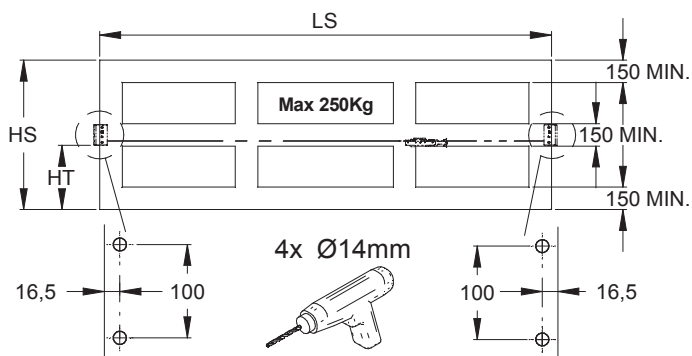
2



3

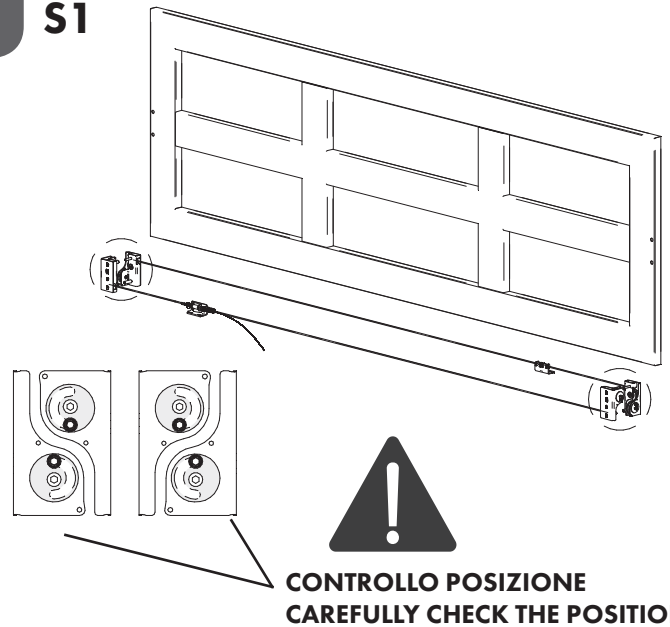
S1

MISURE CONSIGLIATE  
RECOMMENDED MEASURES



4

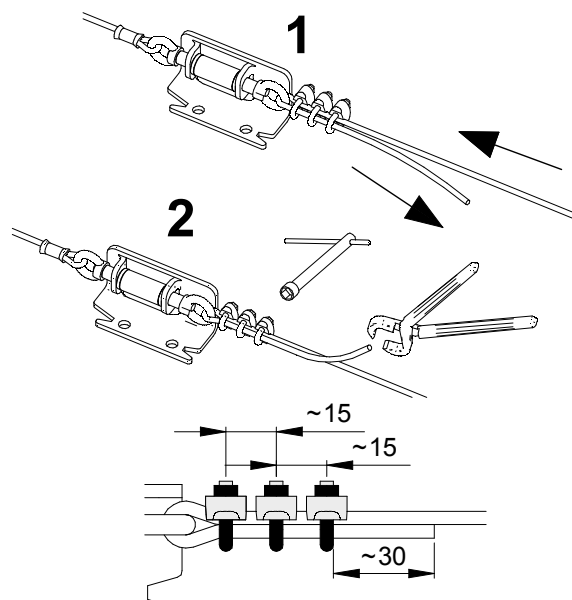
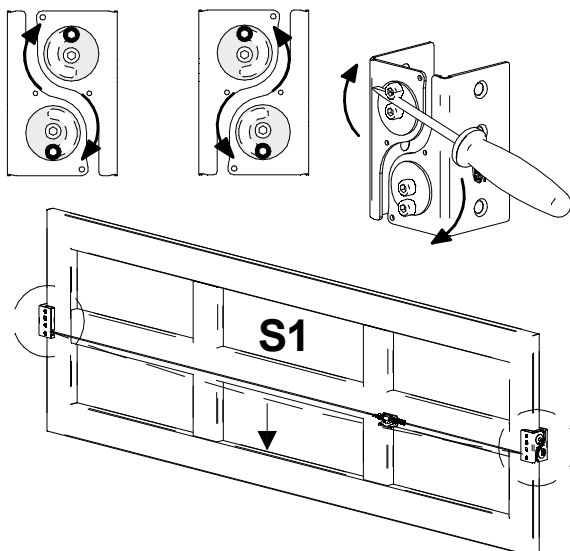
S1



5

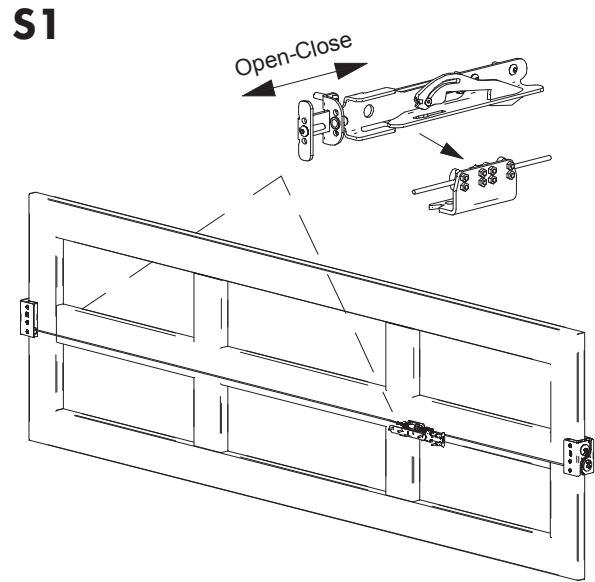
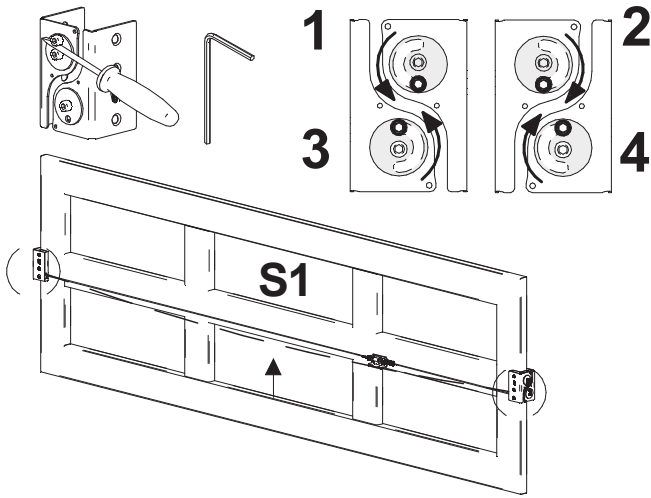
S1

Allentare / Loosen



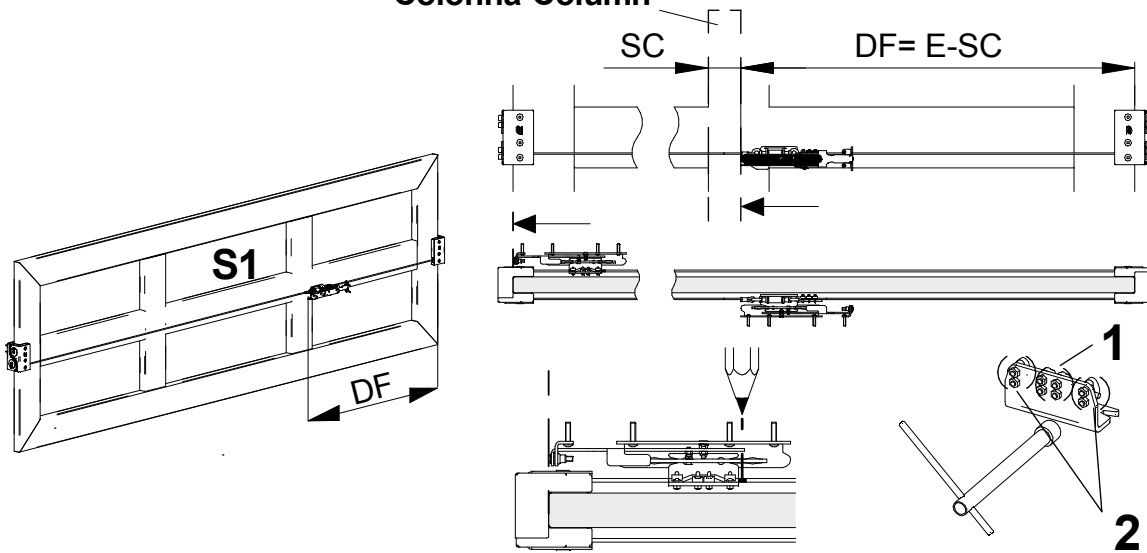


**6 S1** Tendere in sequenza a bisogno e fissare  
*Stretch in sequence if needed and fix*



**7 S1**

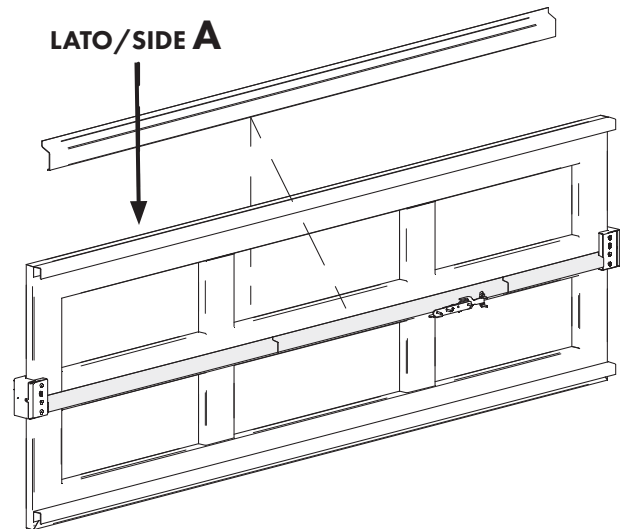
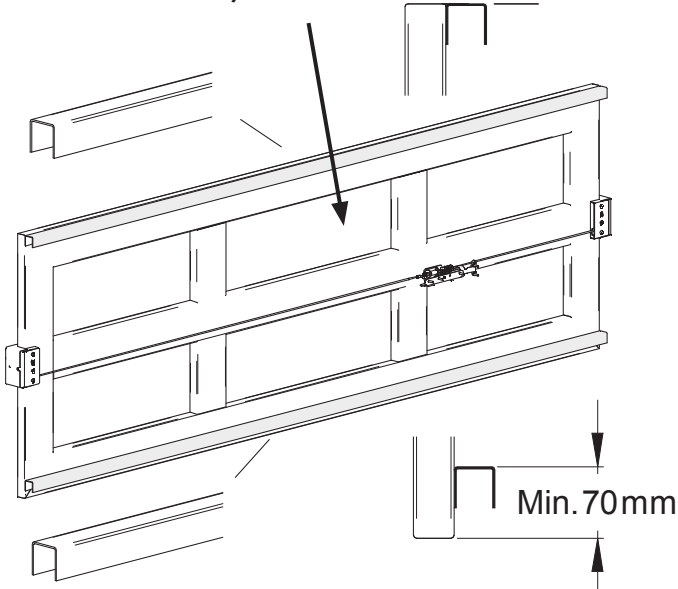
Colonna-Column



**8 S1**

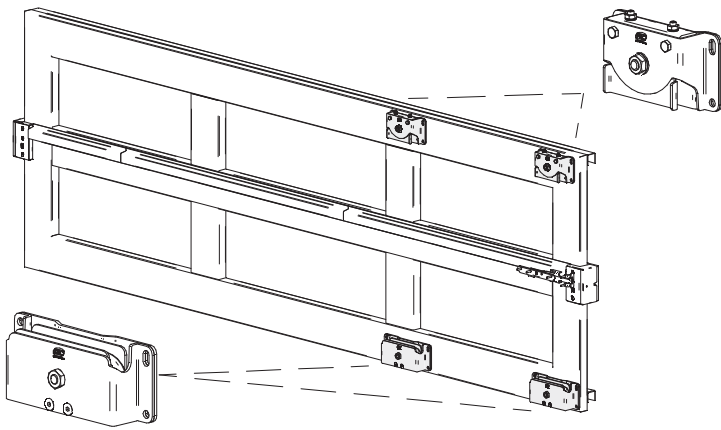
LATO/SIDE B

LATO/SIDE A

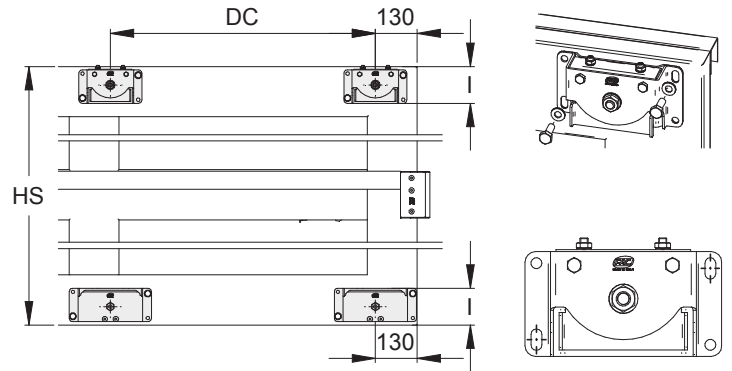




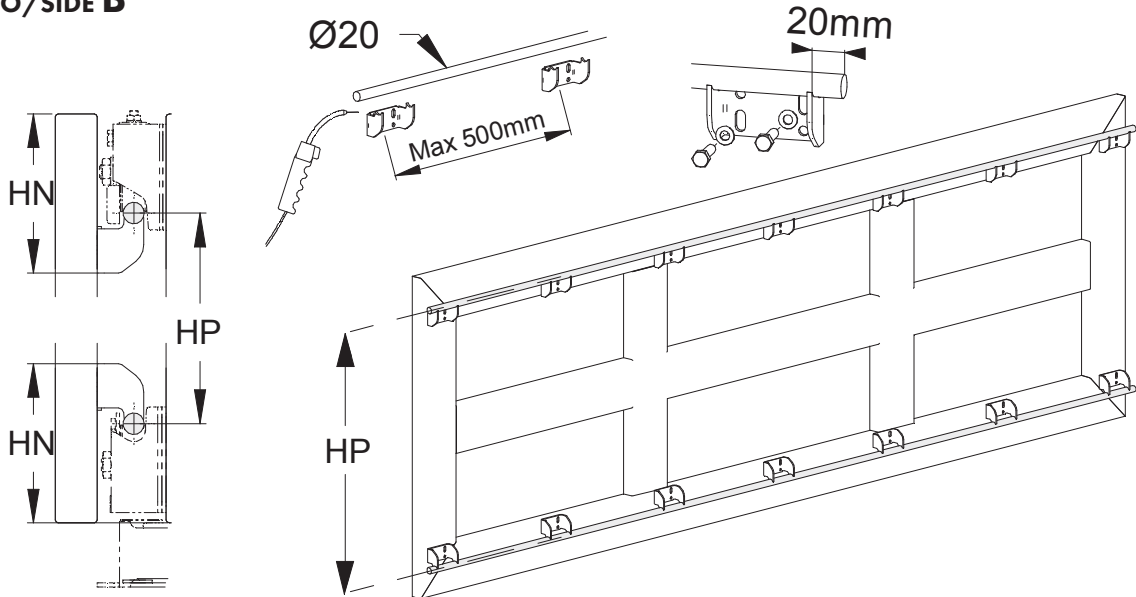
**9 S1 LATO/SIDE A**



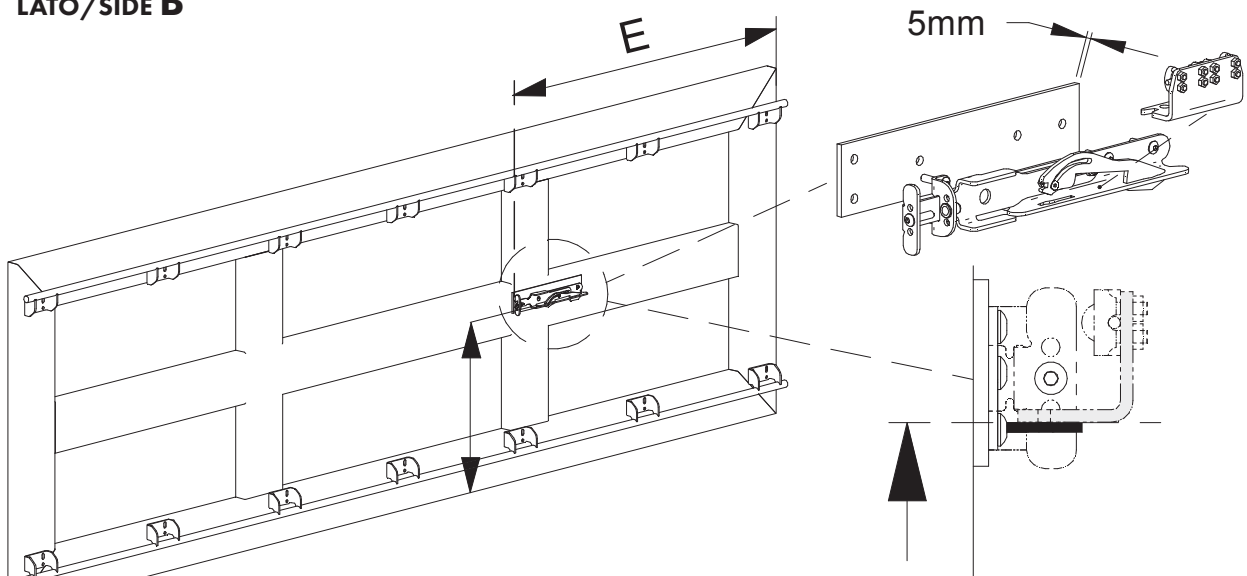
**10 S1 LATO/SIDE A**



**11 S2 LATO/SIDE B**



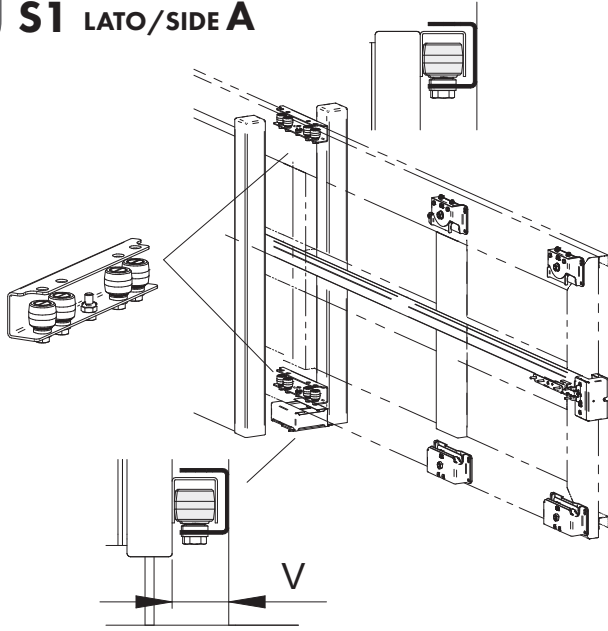
**12 S2 LATO/SIDE B**



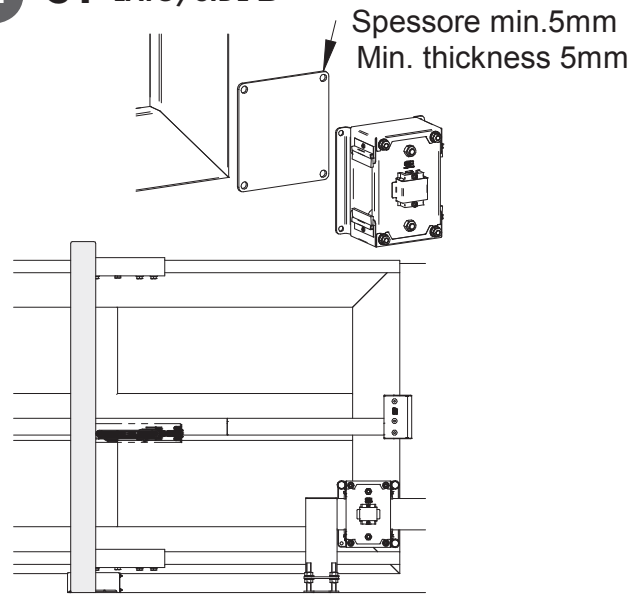




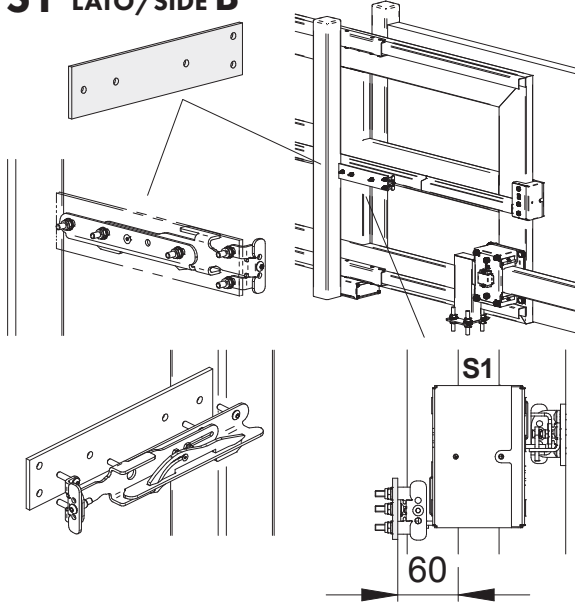
**13 S1 LATO/SIDE A**



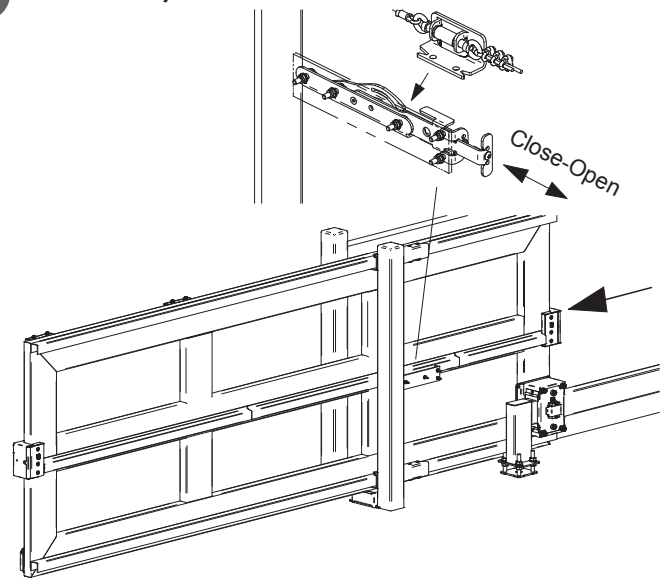
**14 S1 LATO/SIDE B**



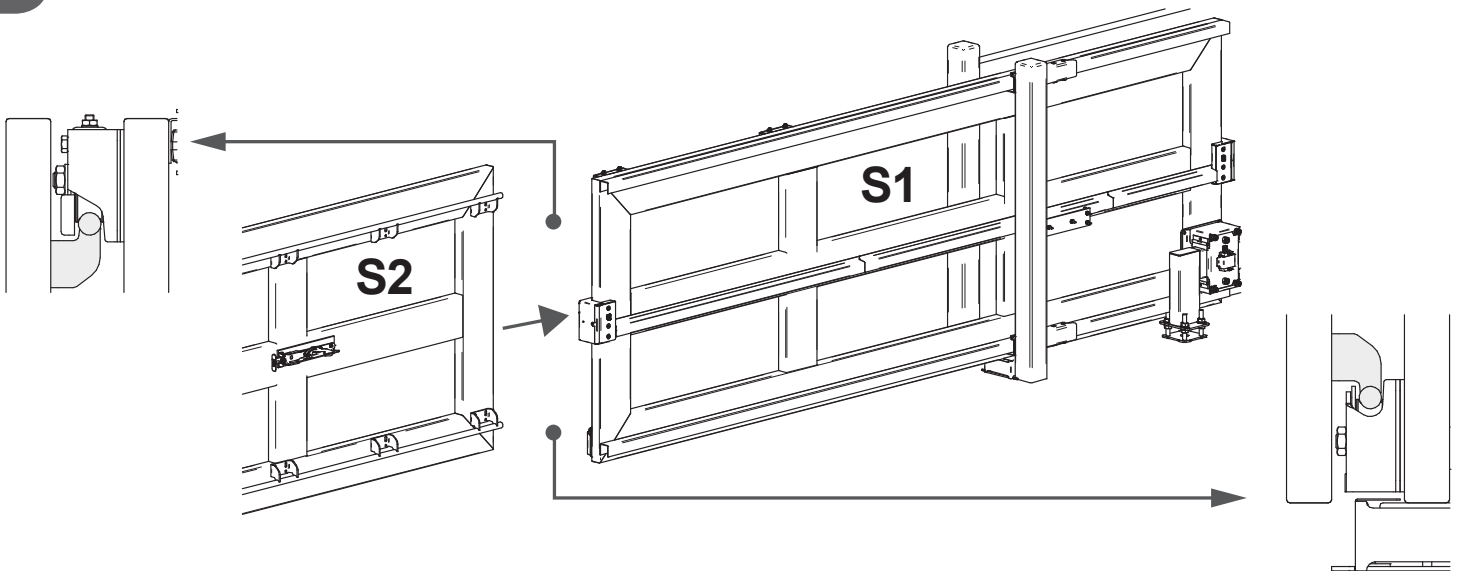
**15 S1 LATO/SIDE B**



**16 S1 LATO/SIDE B**

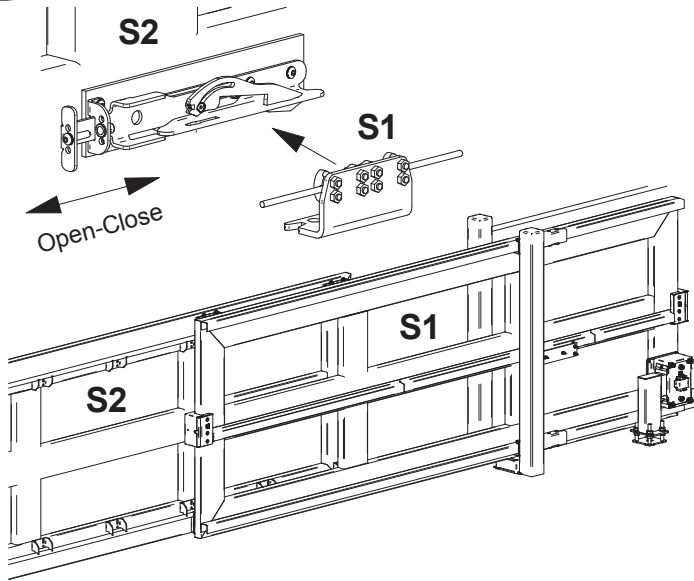


**17**

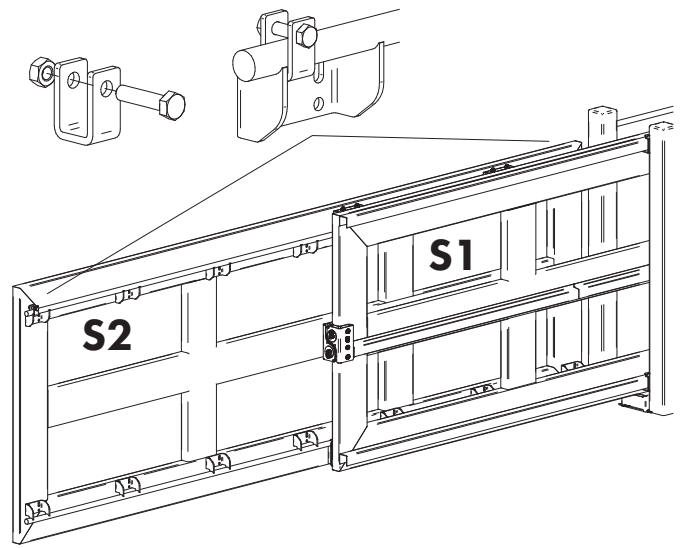




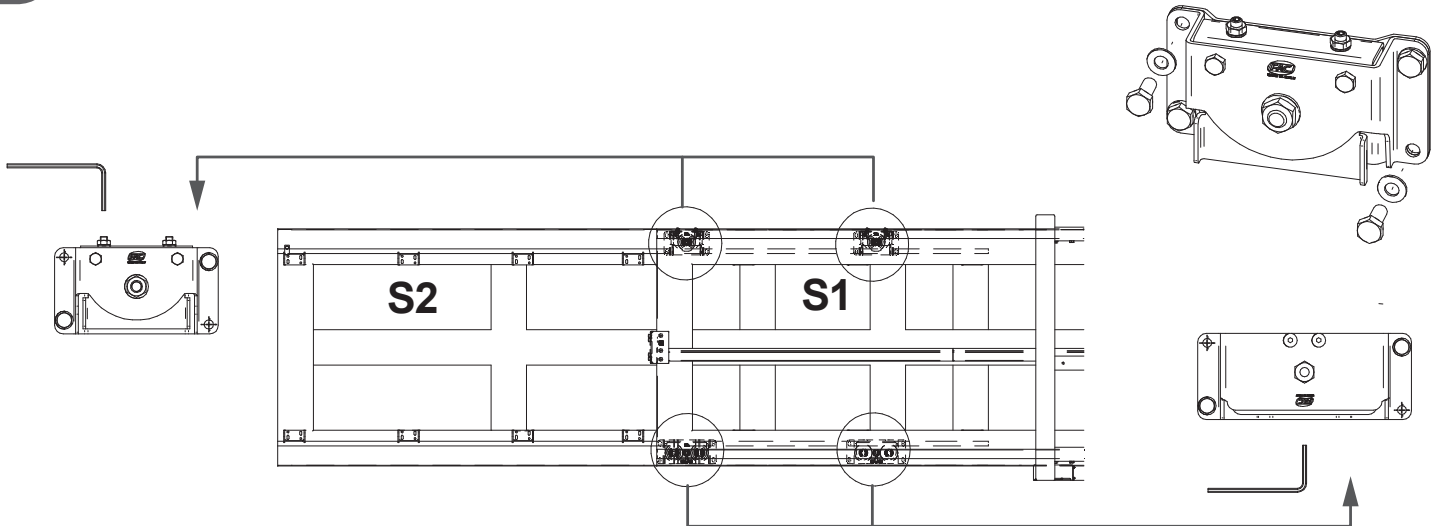
18 LATO/SIDE A



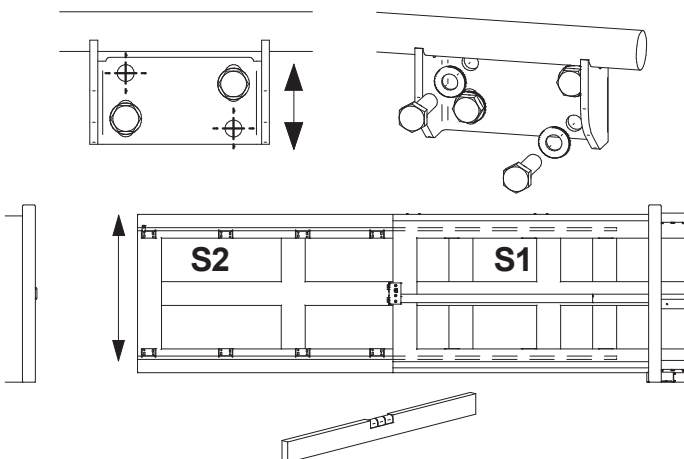
19 LATO/SIDE B



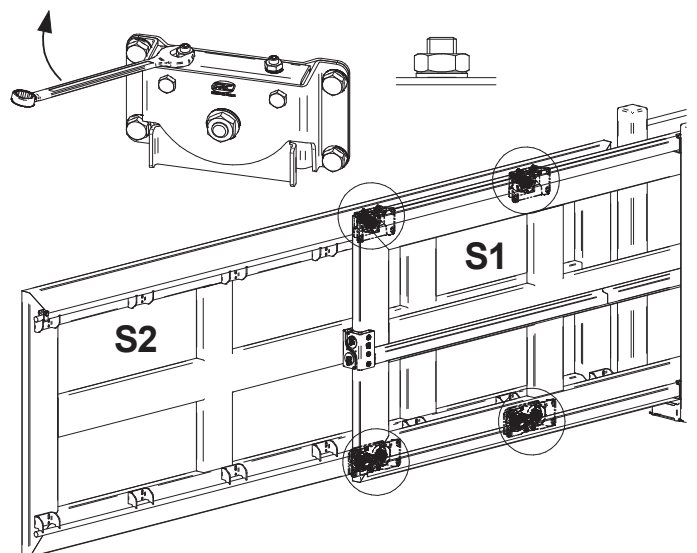
20 LATO/SIDE B



21 LATO/SIDE B

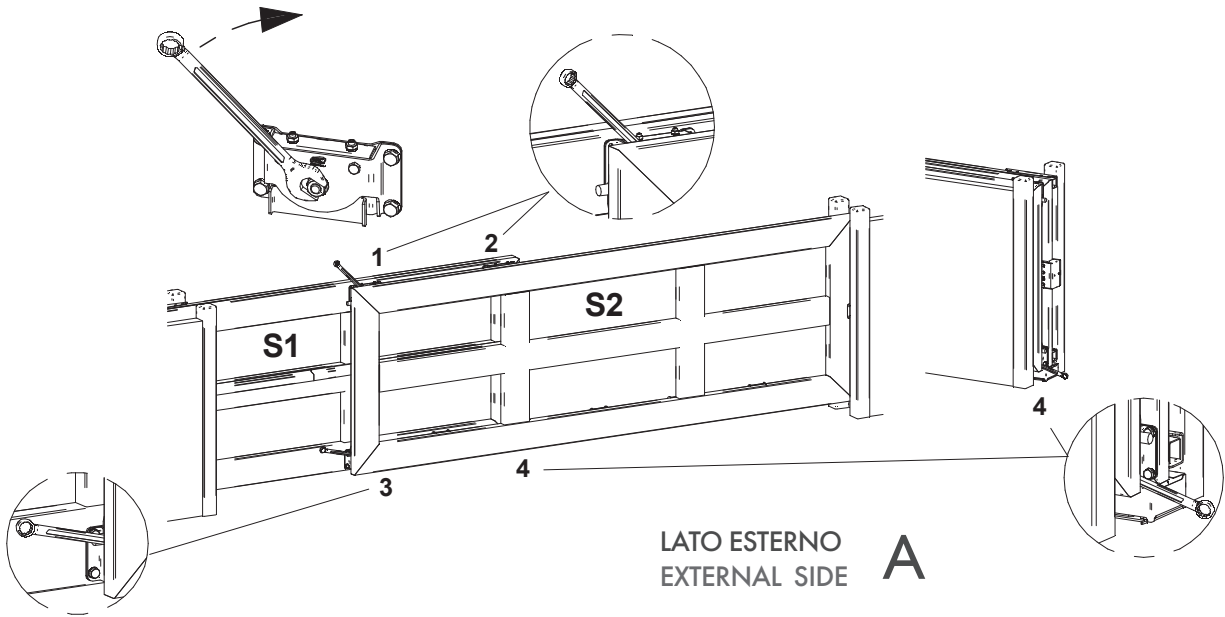


22 LATO/SIDE B

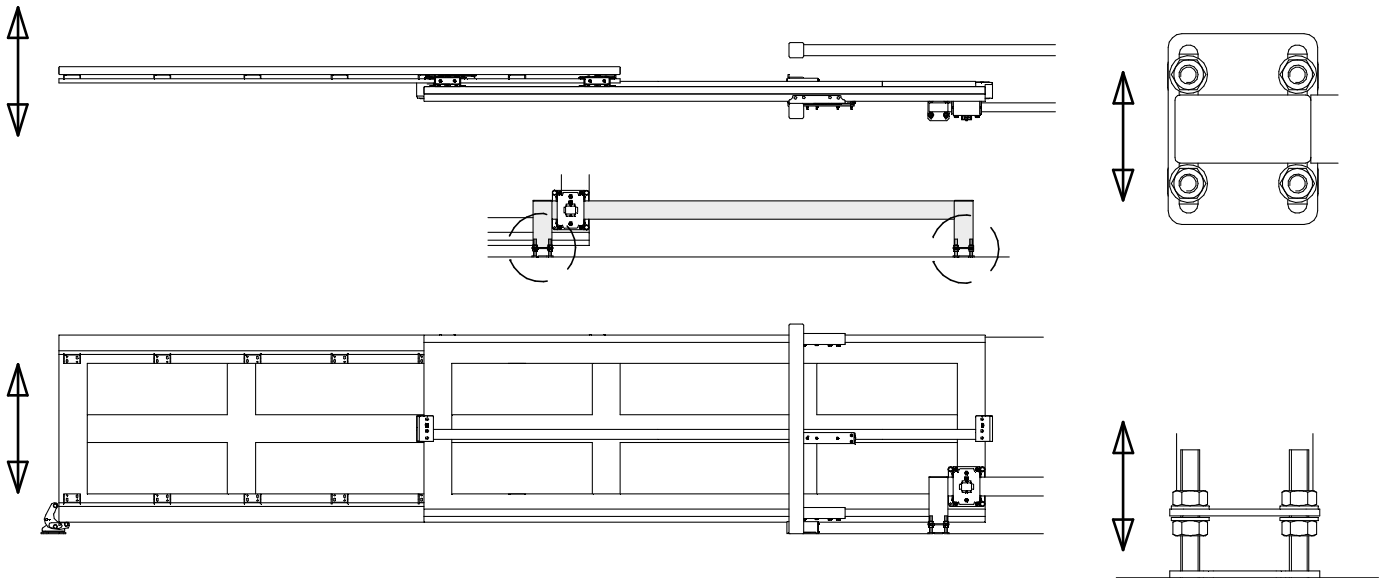




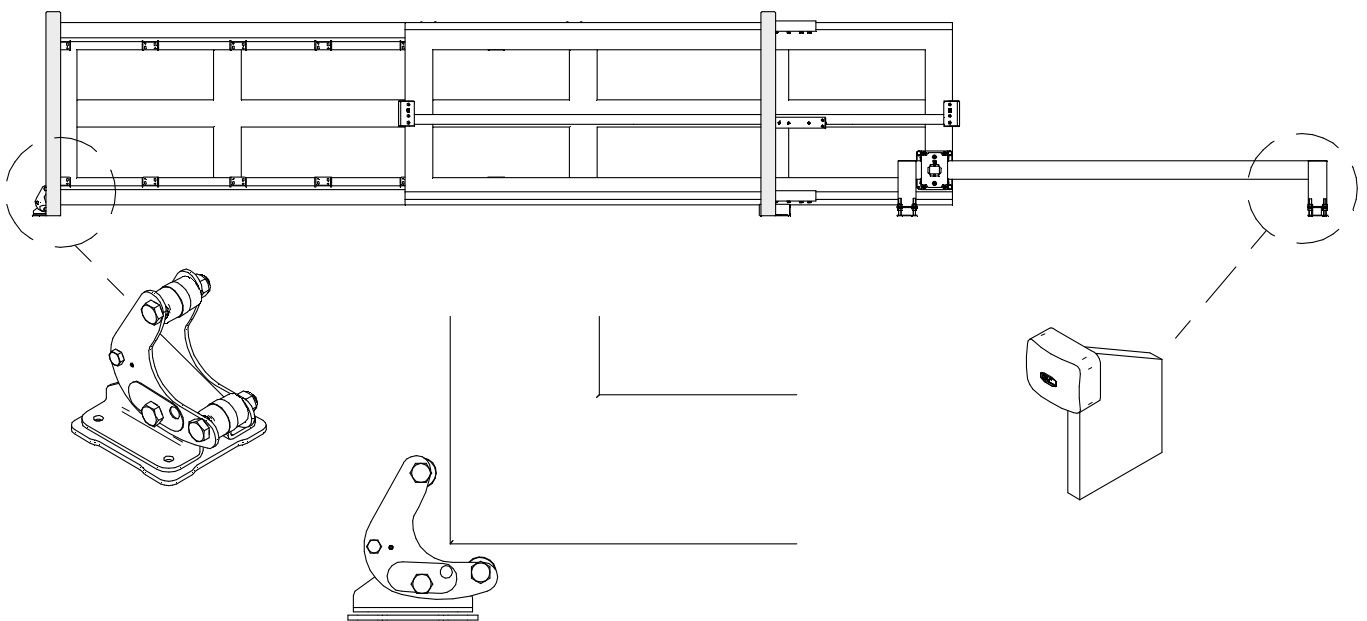
23



24



25





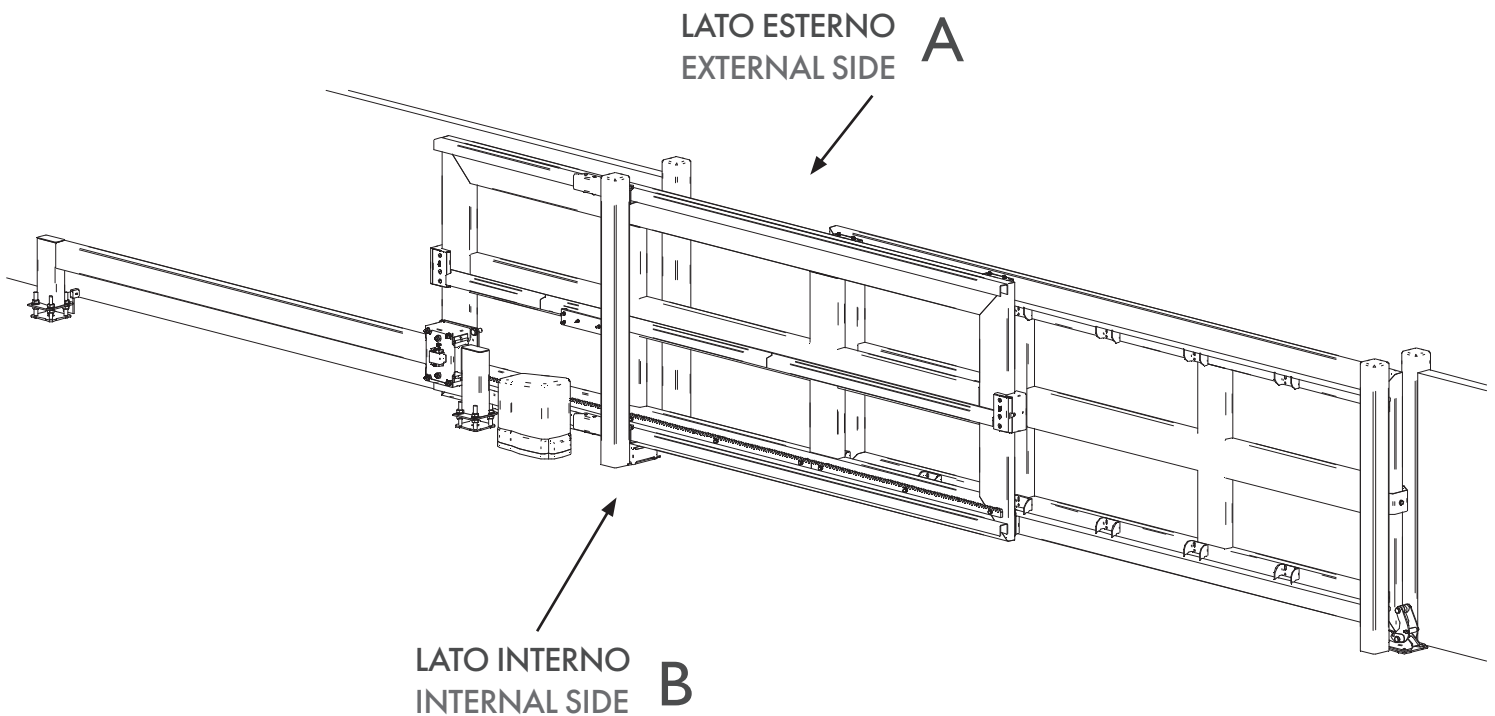
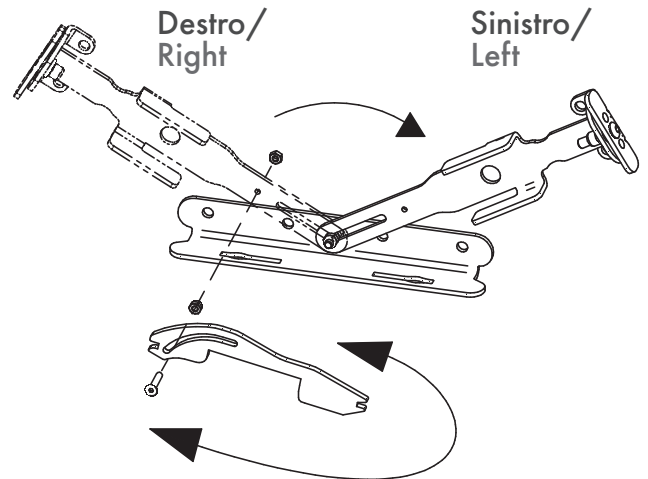
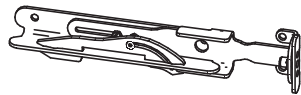
VERSIONE SINISTRA  
LEFT VERSION

Per il montaggio della versione sinistra utilizzare le stesse istruzioni considerandole in senso opposto; Una particolare attenzione deve essere prestata ai punti che riportiamo di seguito:

*For the assembly of the left version, follow the same instructions but interpreting in the opposite direction.  
Pay attention to the points given below:*

Preparare gli sganci Destri e Sinistri nelle quantità indicate  
*Prepare the right and left hitches in the indicated quantities*

2x  
Sinistro/Left





## MANUTENZIONE MAINTENANCE

1. Eseguire le verifiche di funzionamento manuale a fine installazione; controllare periodicamente che il sistema sia correttamente funzionante, privo di allentamenti e ben lubrificato (consigliato ogni tre mesi e massimo ogni 8000 cicli). Se necessario intervenire regolando il tensionamento e lubrificando la fune (vedi FIG. 8-10).
2. Nel caso in cui la fune risulti lenta rieseguire la procedura di tensionatura.
3. In caso di malfunzionamenti dovuti ad usura o urti accidentali, assicurarsi che tutti i componenti atti al sostegno del cancello ed alla sua movimentazione siano integri, eventualmente procedere alla sostituzione.
4. L'utilizzo di questi articoli in ambienti particolarmente umidi, salini, acidi, polverosi o con temperature superiori a 120°C riduce sensibilmente la durata dei cuscinetti e parti presenti negli articoli.
5. FAC garantisce il corretto funzionamento del sistema esclusivamente con l'utilizzo di ricambi originali.

**Attenzione:** Gli accessori compresi nei kit e l'installazione proposta fanno riferimento ad un esempio standard. Una installazione non conforme alla procedura illustrata e/o l'omissione delle corretta manutenzione potrebbero causare malfunzionamenti, compromettendo la sicurezza di persone e cose adiacenti. Verificare che gli accessori siano idonei all'opera specifica e dotarla dei necessari dispositivi di sicurezza previsti dalle normative vigenti.

**Per ulteriori informazioni scrivici a : [info@facsl.com](mailto:info@facsl.com)**

1. Perform all functioning inspections manually at the end of the installation; periodically check that the system is functioning, that it is well lubricated and does not have any loosening (we suggest a full examination every 3 months or after 8000 cycles). If necessary, adjust the tensioning of the cable and/or lubricate it. (see fig. 8-10)
2. If the cable is loose repeat the tensioning procedure.
3. In case of malfunctions due to wear or accidental impacts, make sure that all components apt to support the gate and its maintenance are intact. If necessary, proceed with substitution.
4. The use of these items in harsh ambient conditions, such as: high humidity; high temperatures, salty, acid or dusty environments, etc. significantly reduce the duration of the bearings and other parts.
5. FAC ensures the system correct functioning only using original spare parts.

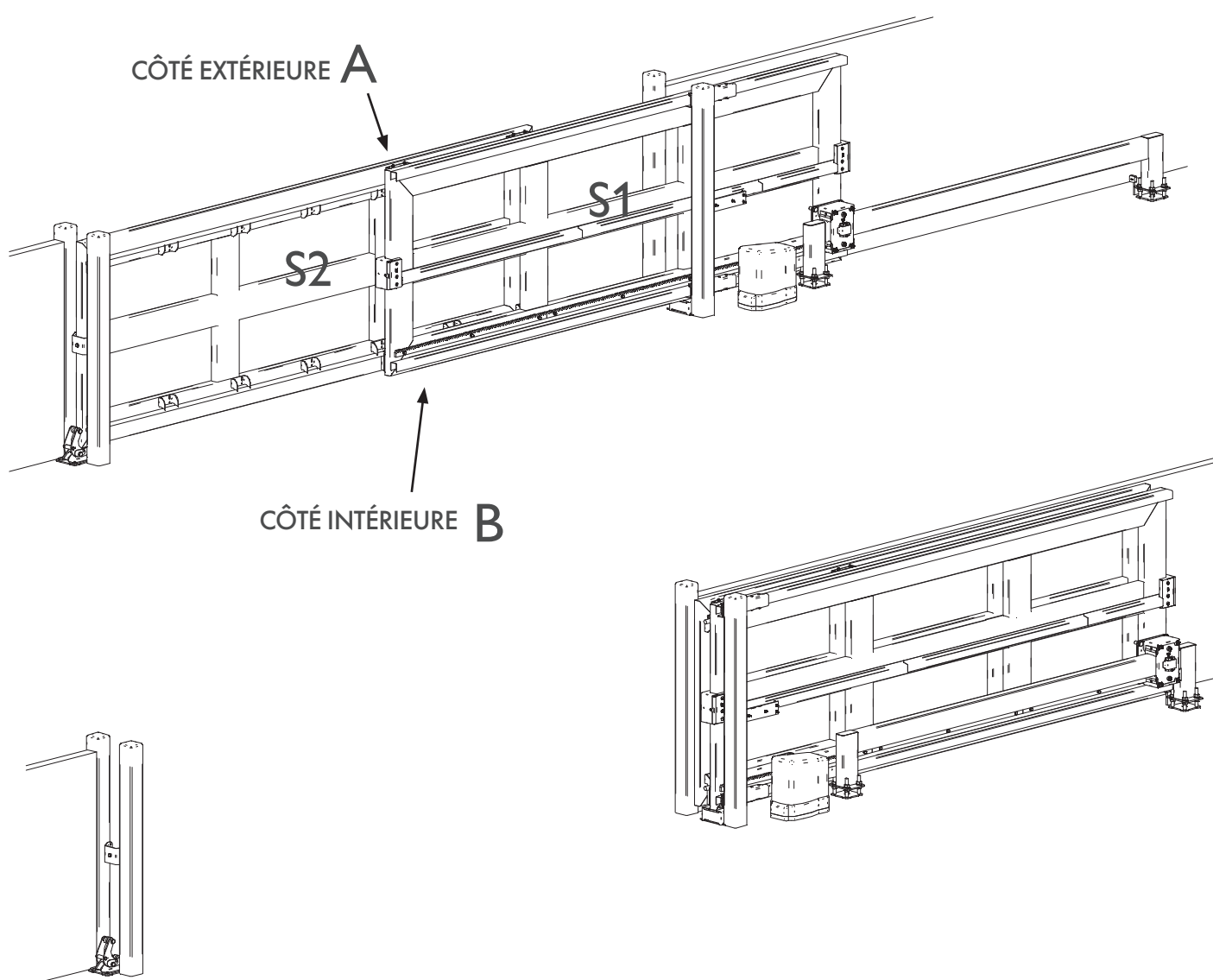
**Attention:** The kit included accessories and the proposed installation make reference to a standard example. An installation not in accordance with the illustrated procedure and the omission of the correct maintenance might compromise nearby things and people's security. Make sure that all accessories suit the specific work and make sure to use the necessary safety devices provided by current regulations.

**For more information: [info@facsl.com](mailto:info@facsl.com)**

## KIT AUTOPORTANT TELESCOPIQUE GUARDIAN

Kit avec accessoires en acier galvanisé pour l'installation des portails autoportants télescopiques. Le mouvement entre les deux vantaux est fourni par un câble en acier galvanisé avec l'âme en propylène.  
 Notre système autoportant Guardian combine les caractéristiques de compacité résultant de ses vantaux télescopiques qui réduisent sensiblement l'encombrement pendant la phase d'ouverture, aux avantages du système autoportant.

VERSION DROITE (POUR LA VERSION GAUCHE VOIR PAGE 11)



**KD2150.100** OUVERTURE JUSQU'À 8m



LISTE DE COMPOSANTS

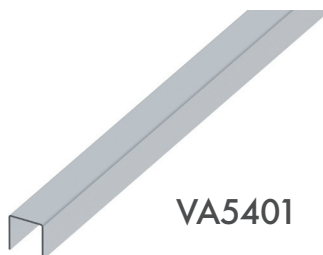
<p><b>x1</b></p> <p>LUBRIFICANTE INCLUSO OIL INCLUDED</p>	<p><b>x1</b></p>	<p><b>x1</b></p>
<p>KD5102.006</p>	<p>KD3100.075</p>	<p>VD2200.100</p>
<p><b>x1</b></p>	<p><b>x2</b></p>	<p><b>x2</b></p>
<p>VD2100.100</p>	<p>VD2501.100</p>	<p>VD2500.100</p>
<p><b>x1</b></p>		
<p>VA4101.100</p>		



ARTICLES CONNEXES



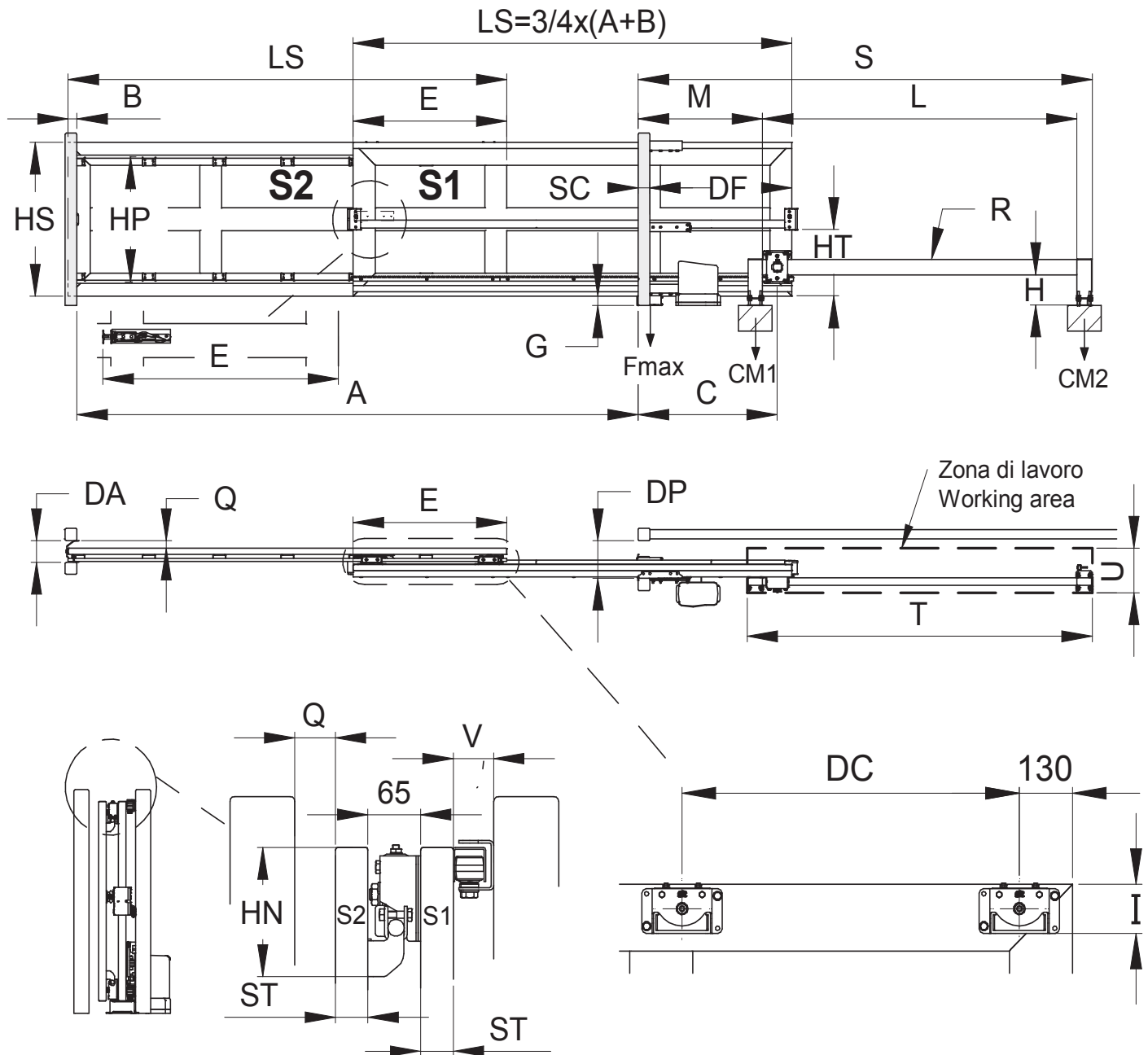
VD2350



VA5401



VA54011



**DIMENSIONNEMENT DES VANTAUX**

G min (m)	H min (m)	V min (mm)	HS min (m)	HN min (mm)	HT min (m)	I min (mm)	R (mm)	ST (mm)	F max (kg)	S2 max (kg)	S1+S2 max (kg)	CM1 min (kg)	CM2 min (kg)	U (m)
0,06	0,200	50	0,6	140	0,300	100	100x50 sp.3	40÷80	950	250	500	1000	100	0,29÷0,37

Les valeurs dans la table sont calculées pour une valeur de B = 0,1

A [m]	LS [m]	E [m]	C [m]	DC [m]	Smin [m]	L [m]	M [m]	T [m]	Q [mm]	DT [m]
3,5	2,70	0,9	0,8	0,64	~2,9	2,02	0,7	2,3	50	0,85
4	3,08	1,03	0,93	0,76	~3,28	2,27	0,83	2,55	50	0,97
4,5	3,45	1,15	1,05	0,89	~3,65	2,52	0,95	2,80	50	0,11
5	3,83	1,28	1,18	1,01	~4,03	2,77	1,08	3,05	50	1,22
5,5	4,20	1,40	1,3	1,14	~4,4	3,02	1,2	3,3	50	1,35
6	4,58	1,53	1,43	1,26	~4,78	3,27	1,33	3,55	60	1,47
6,5	4,95	1,65	1,55	1,39	~5,15	3,52	1,45	3,8	60	1,60
7	5,33	1,78	1,68	1,51	~5,53	3,77	1,58	4,05	60	1,72
7,5	5,70	1,90	1,80	1,64	~5,9	4,02	1,7	4,3	60	1,85
8	6,08	2,03	1,93	1,76	~6,28	4,27	1,83	4,55	60	1,97

**EXEMPLE DE MESURES HORS TABLEAU**

A = 4,2 m  
 B = 0,1 m  
 $LS = 3/4 \times (A+B)$   
 $LS = 3/4 \times (4,2+0,1) = 3,225$  m

**AUTRES FORMULES UTILES**

E (m) = LS/3  
 M (m) = C-0,1  
 S (m) = LS+0,2  
 DA (mm) = Q+AT+60  
 HP (mm) = HS-(2xI) + 30  
 DC (m) = E-0,25

L (m) = 1/2 (A+B) + 0,22  
 T (m) = L+0,28  
 C (m) = E-0,1  
 DP (mm) = (2xST)+V+Q+65  
 DC (m) = E-0,26  
 DF (m) = E-SC

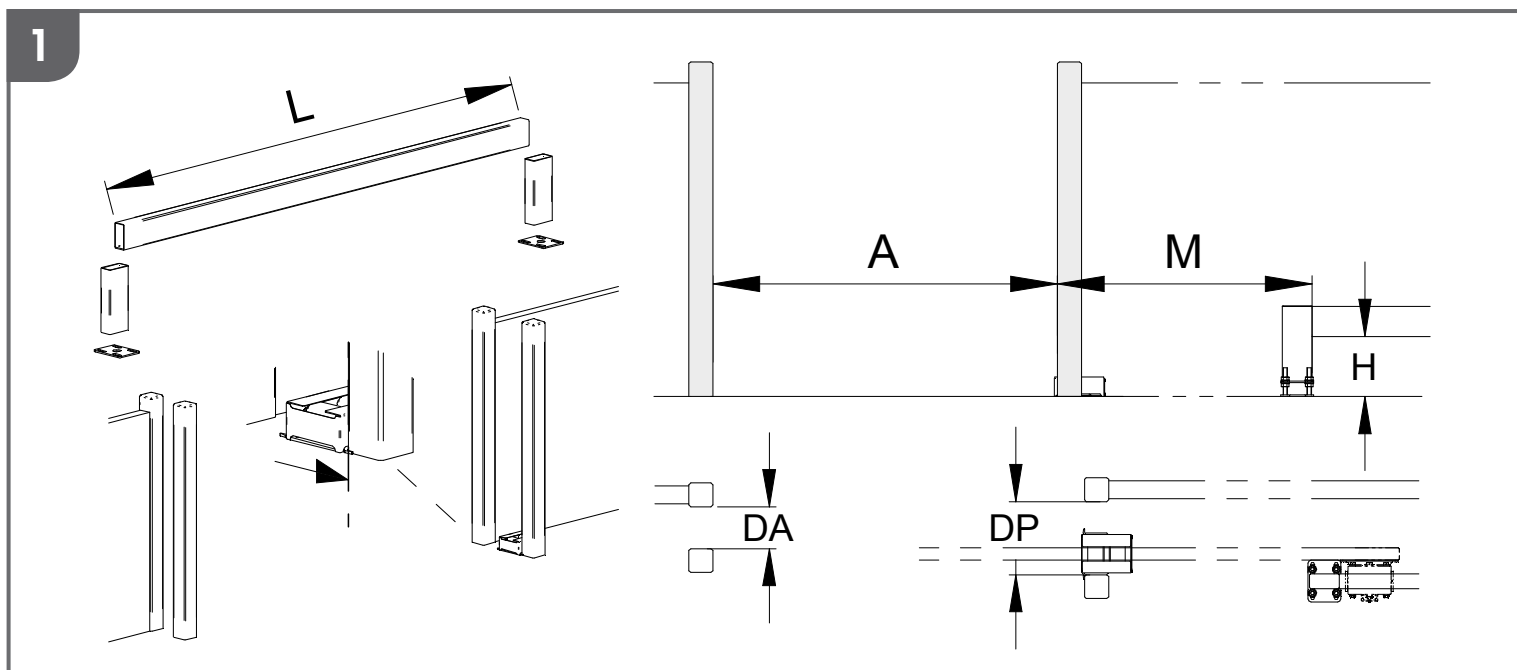
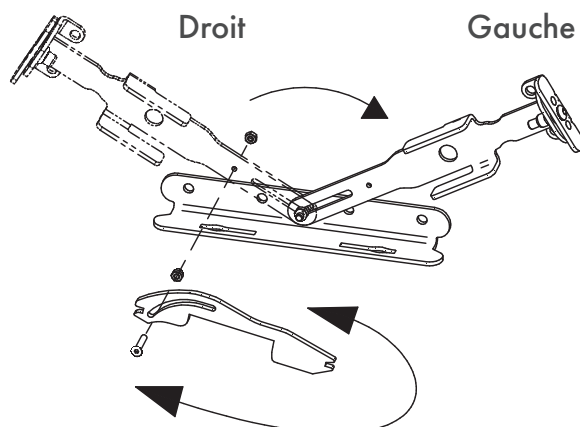
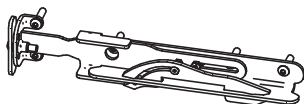




## INFO TECHNIQUE

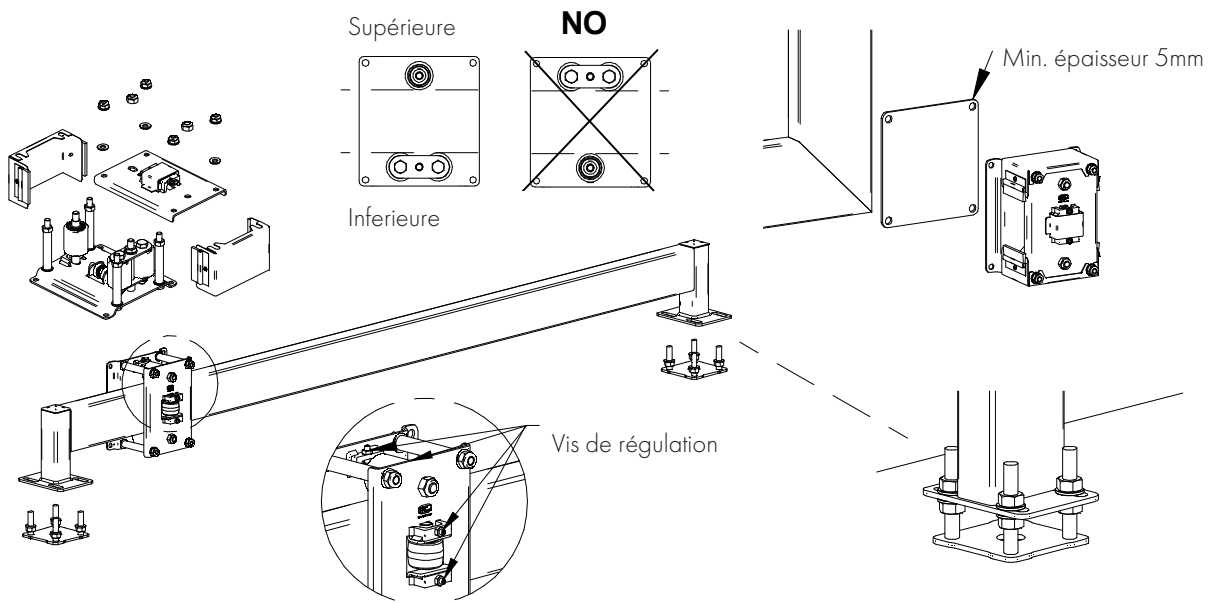
1. L'installation des vis de sécurité et des butées de fin de course est obligatoire.
2. Pour sélectionner l'automatisation correcte il faut considérer le poids que le moteur doit soutenir contrairement aux cas ordinaires. Pour calculer le poids du portail =  $2x$  (poids du premier vantail S1 + poids du deuxième vantail S2)
3. Type de moteur recommandé : 24 volt DC
4. La traction idéale est celle nécessaire pour maintenir le câble en position horizontal. Une tension inférieure ou supérieure peut réduire la durée du câble.
5. La vitesse maximale de fermeture du deuxième et troisième vantail est :  $S2 = 0,18m/s$
6. Brusques variations de vitesse peuvent causer un effet élastique entre les vantaux pendant le mouvement.
7. Accélération, décélération et variations de vitesse élevées peuvent réduire la durée du système et peuvent causer dysfonctionnements ou la rupture de certaines pièces.

## PRÉPARER L'ATTELAGE DROIT ET GAUCHE DANS LES QUANTITÉS INDIQUÉES :

2x  
Droit



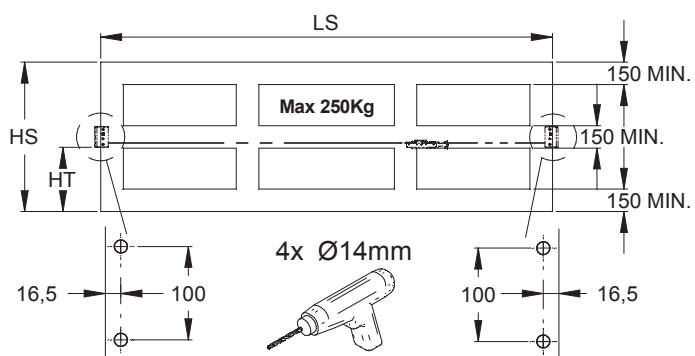
2



3

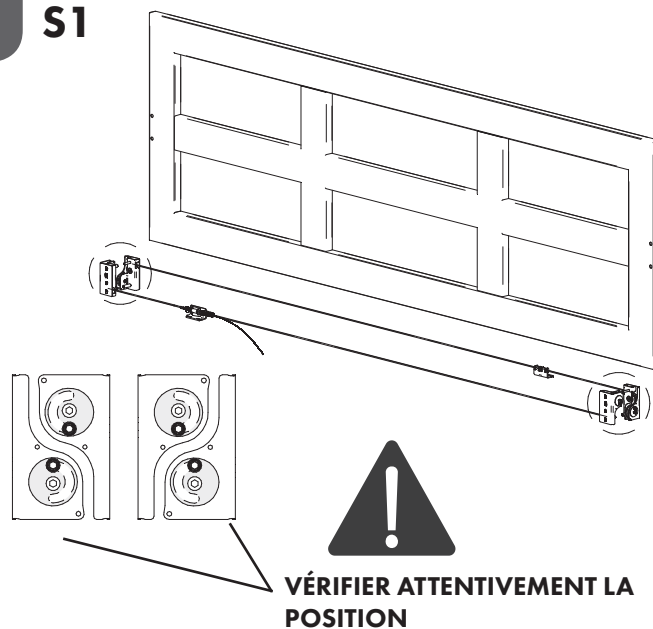
S1

MESURES RECOMMANDÉES



4

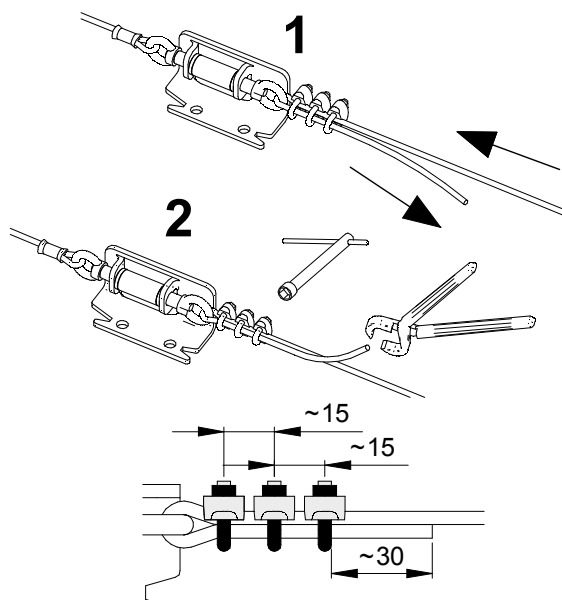
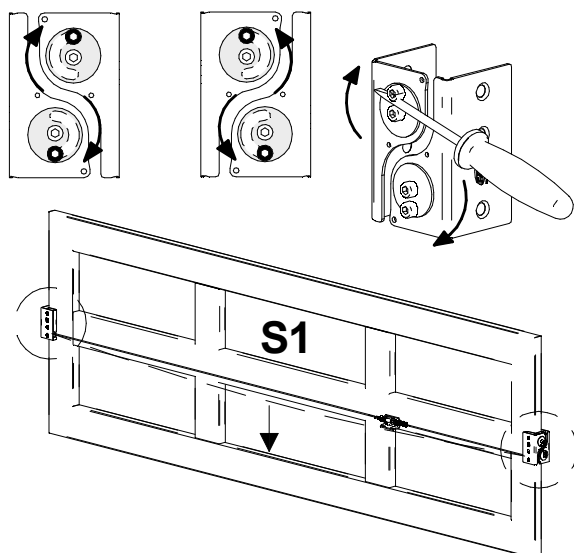
S1



5

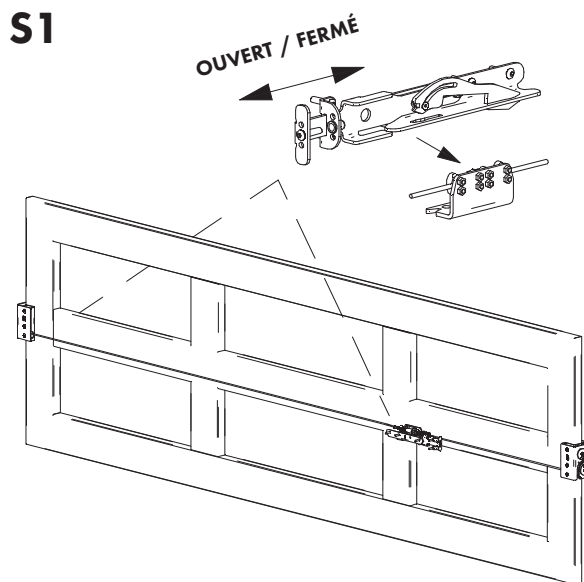
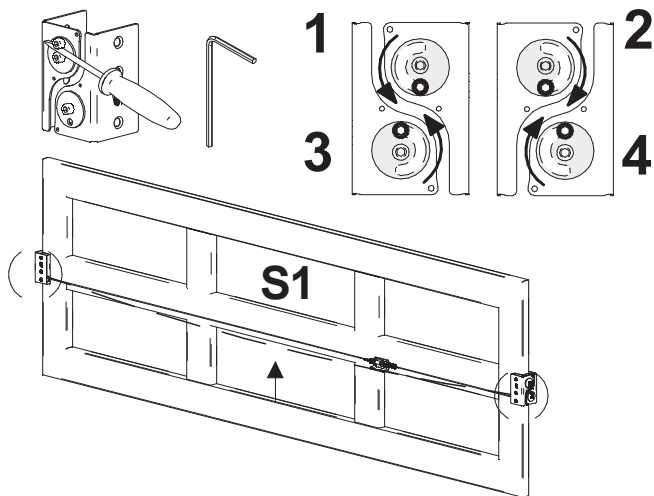
S1

Desserrer

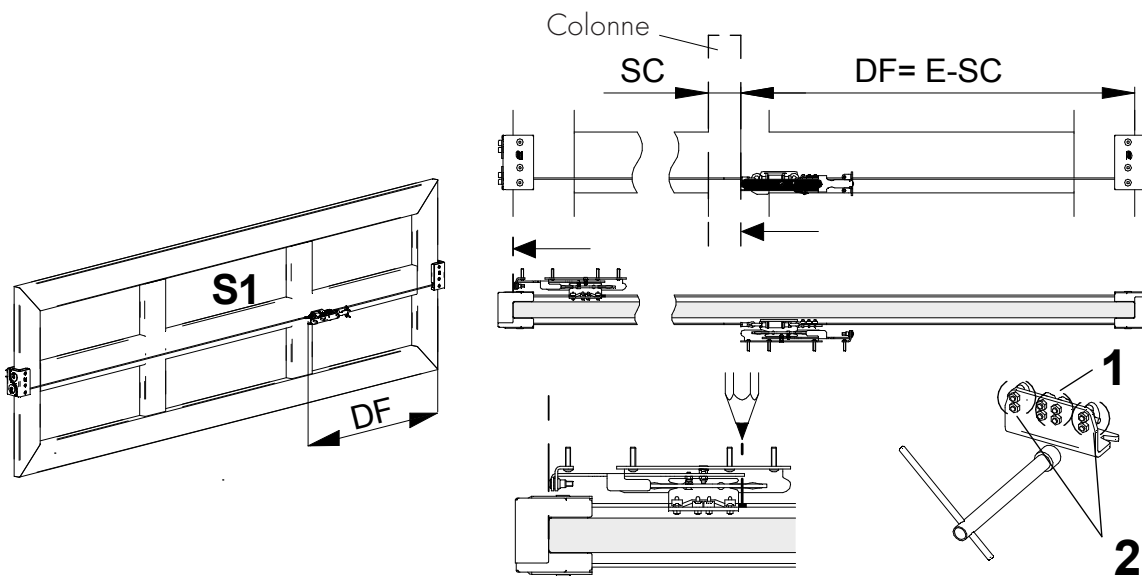




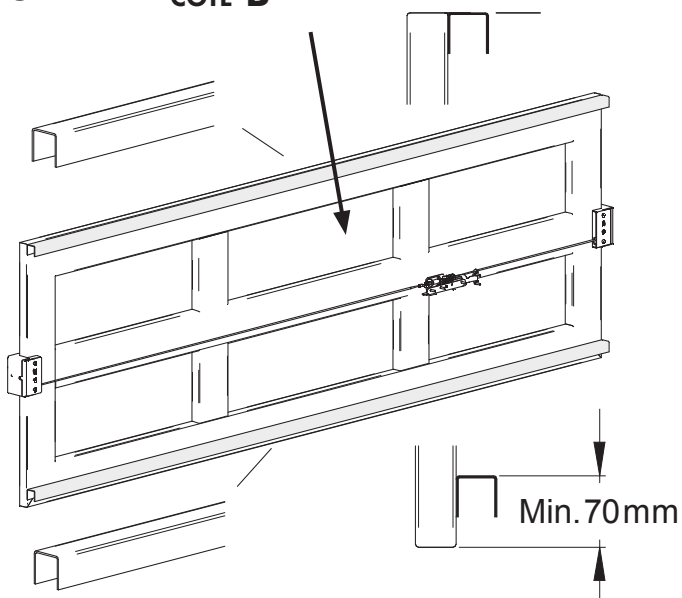
**6 S1** Tendre en séquence si nécessaire et fixer



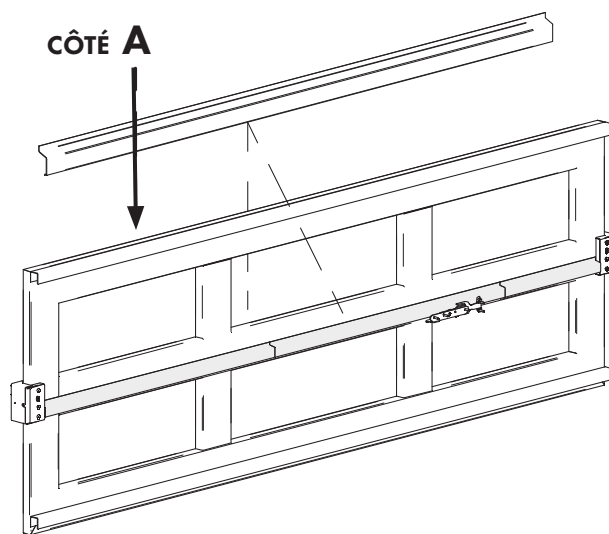
**7 S1**



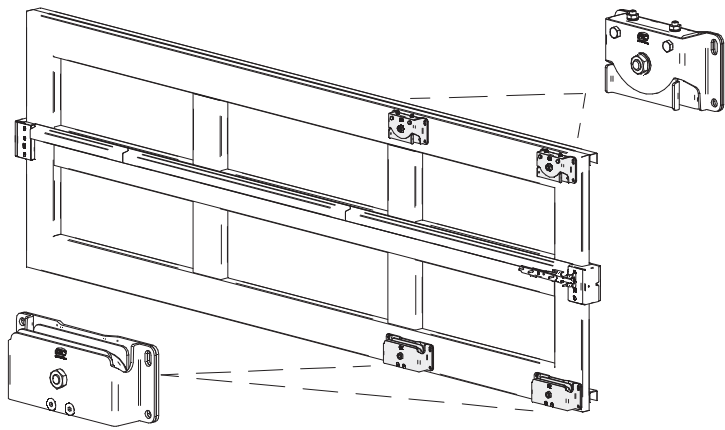
**8 S1** côté B



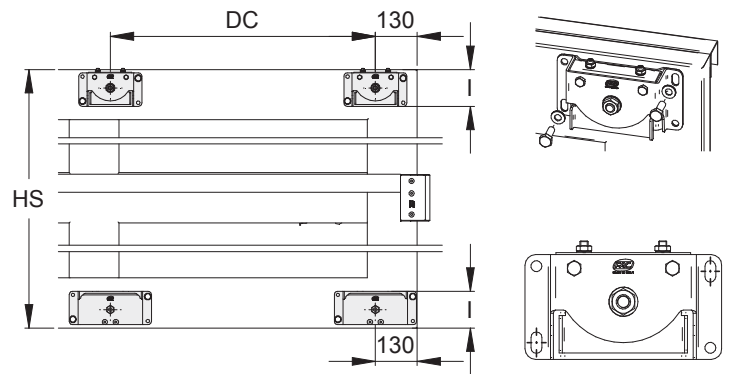
côté A



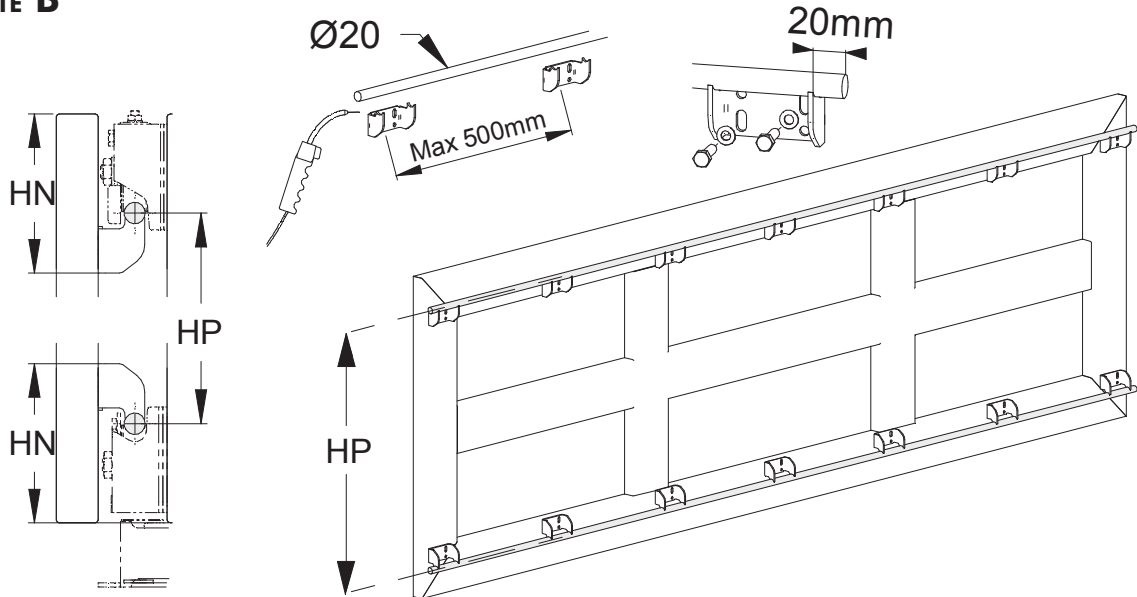
9 S1 côté A



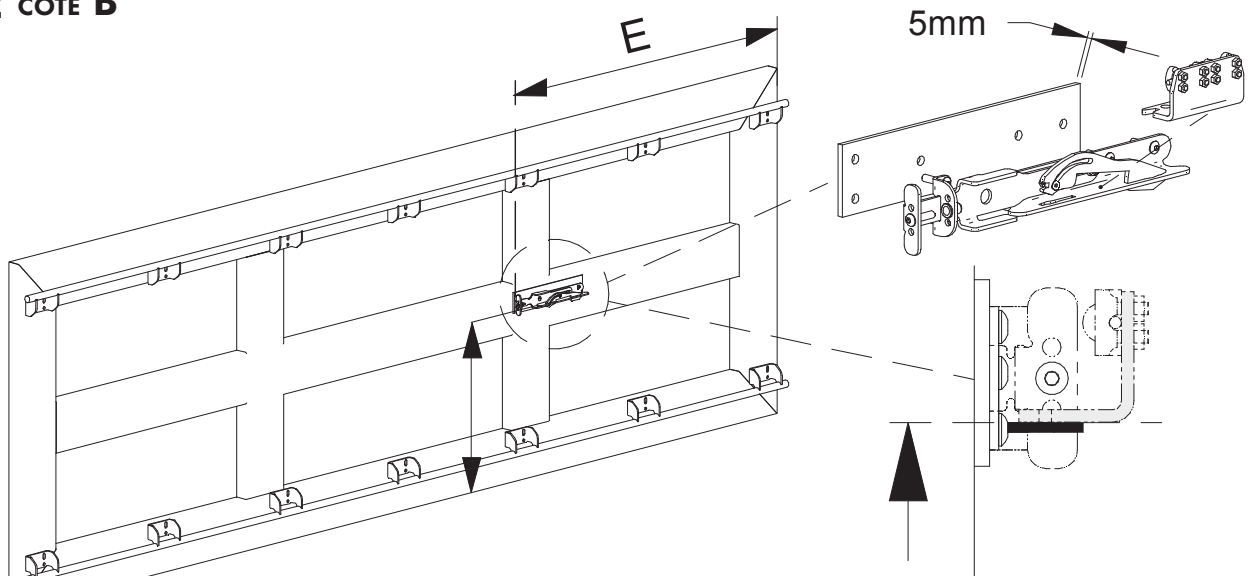
10 S1 côté A



11 S2 côté B

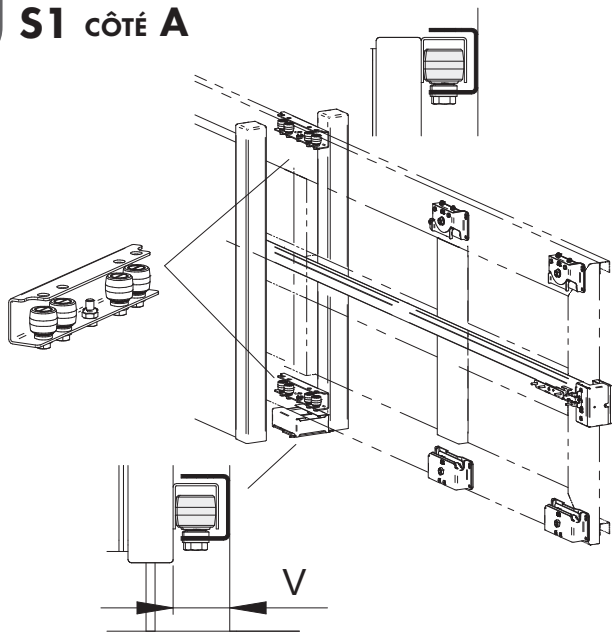


12 S2 côté B

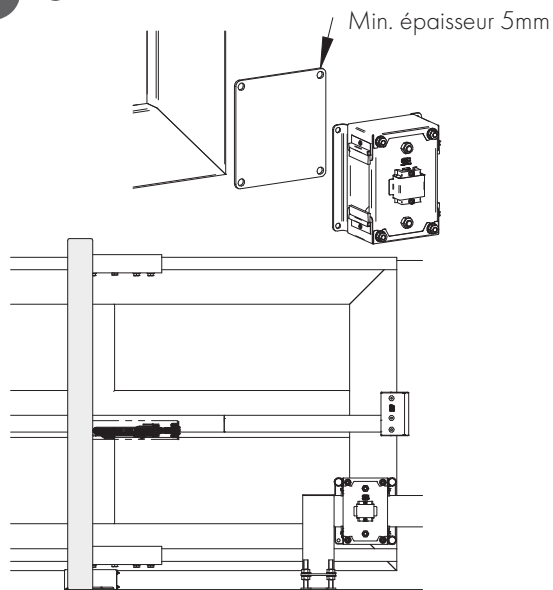




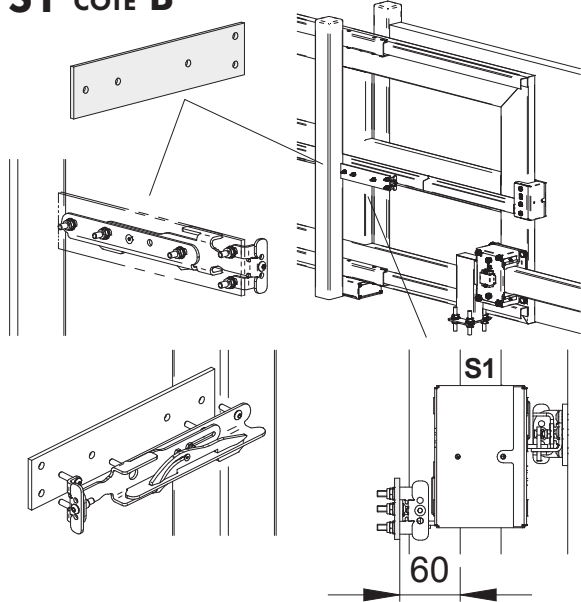
13 S1 côté A



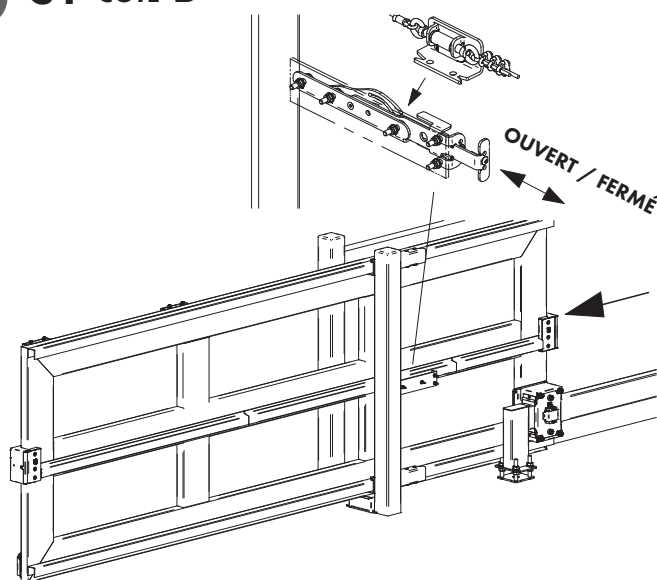
14 S1 côté B



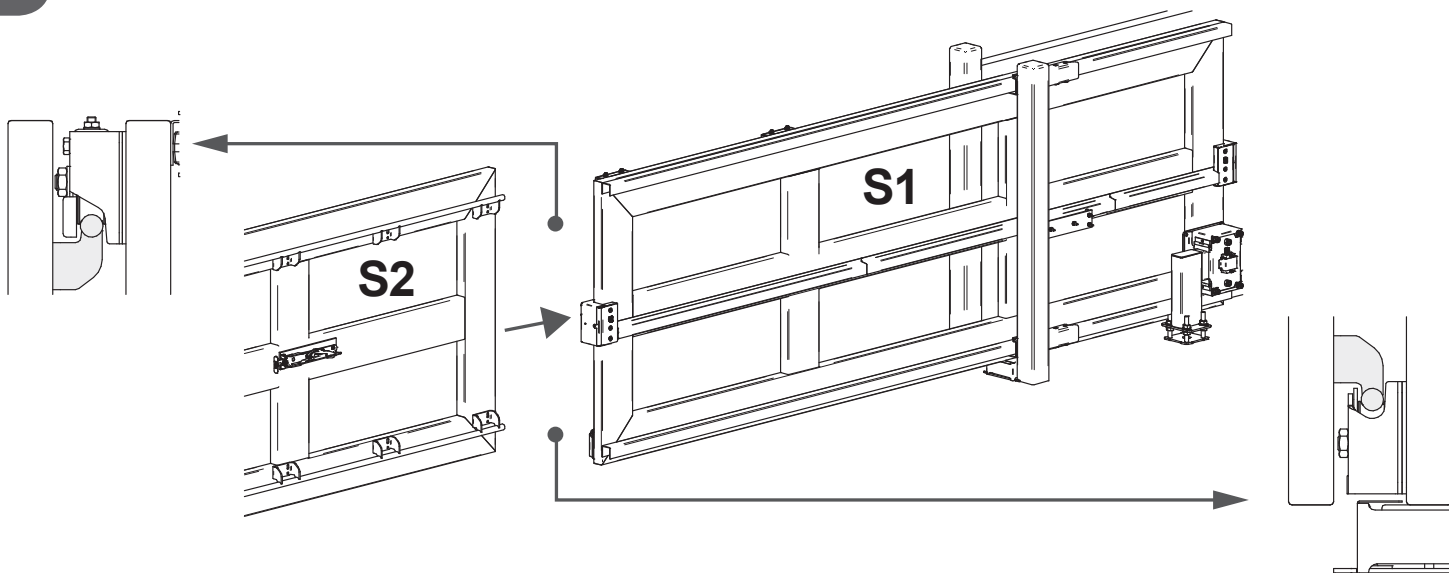
15 S1 côté B



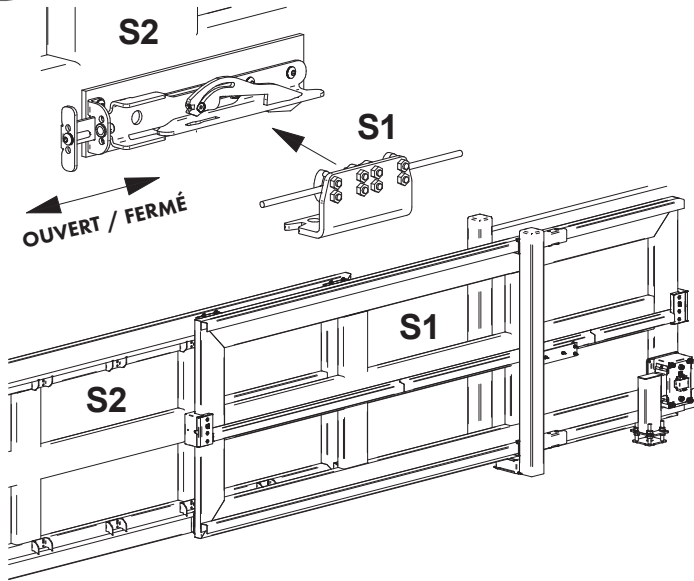
16 S1 côté B



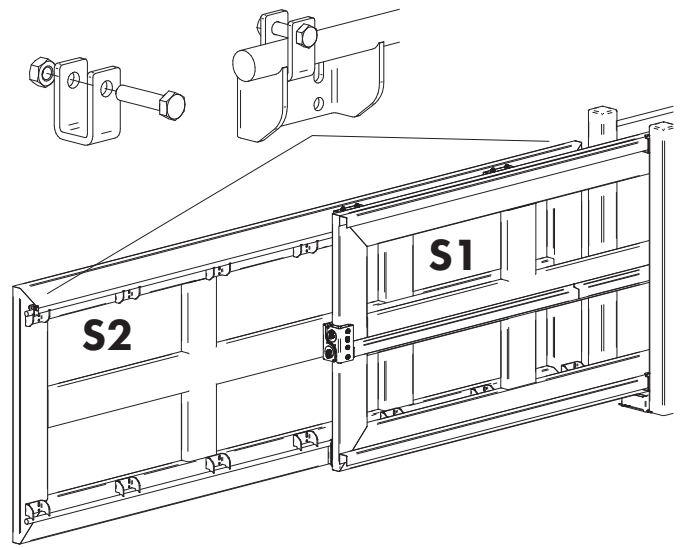
17



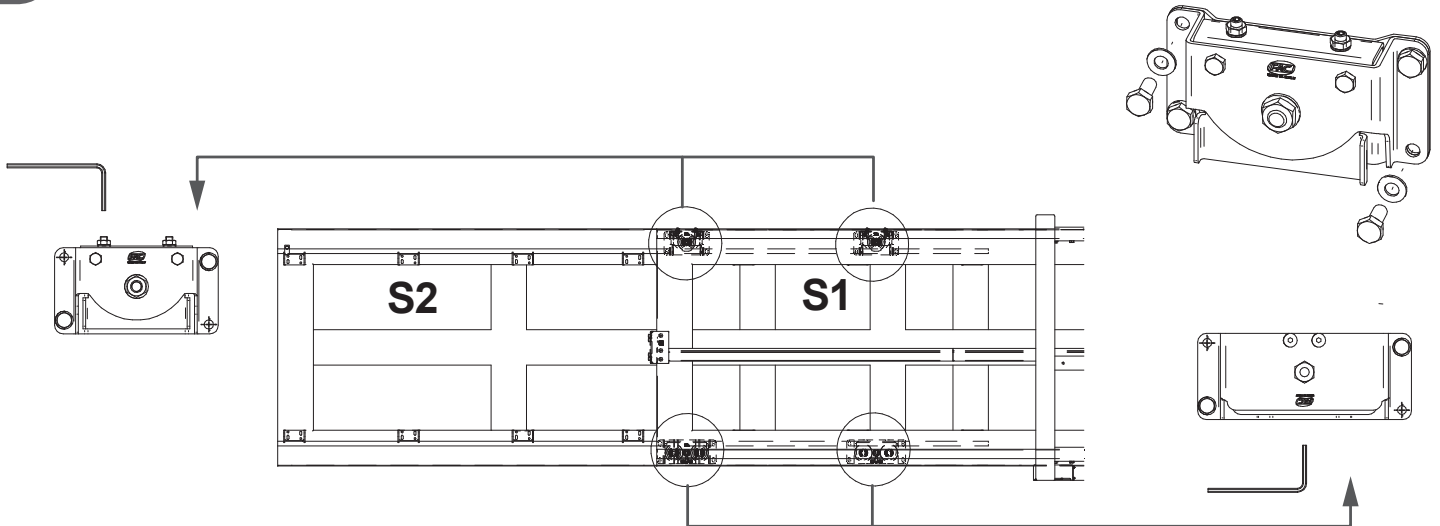
18 côté A



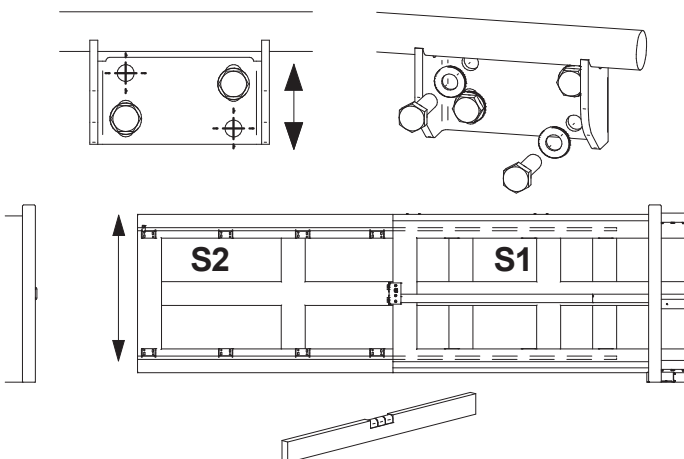
19 côté B



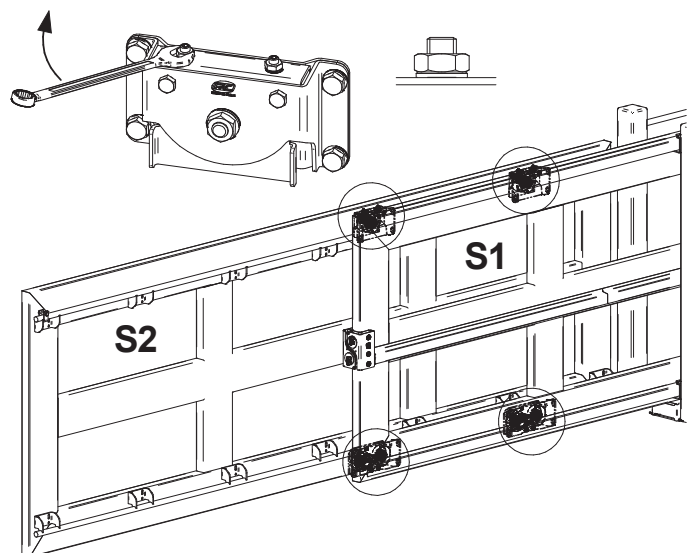
20 côté B



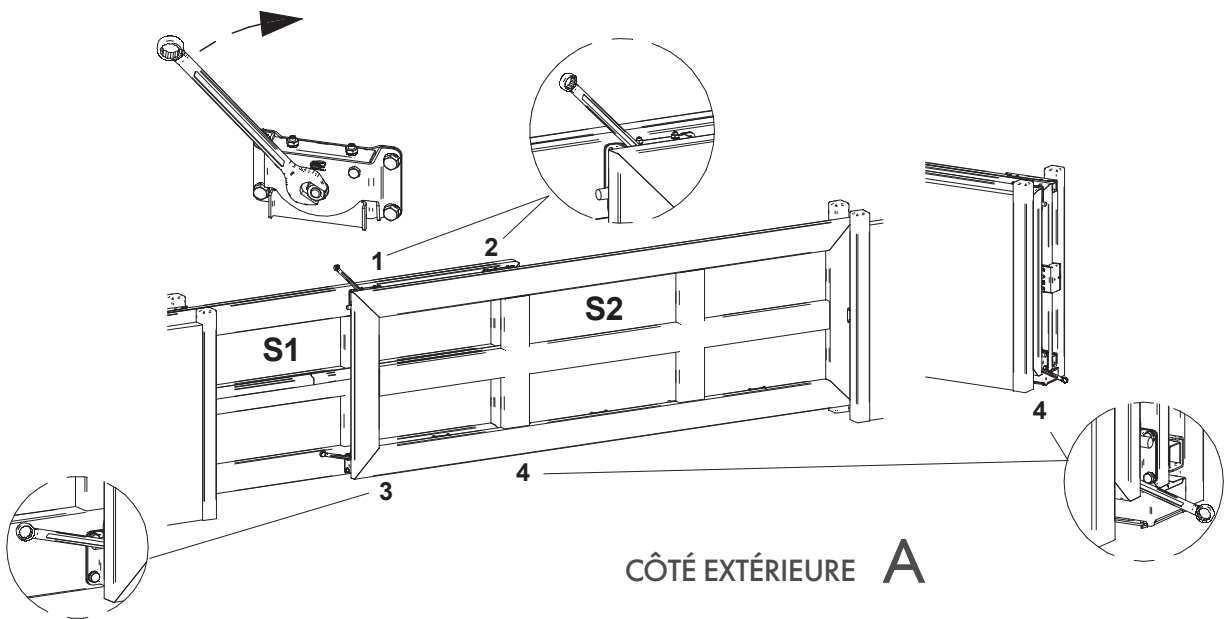
21 côté B



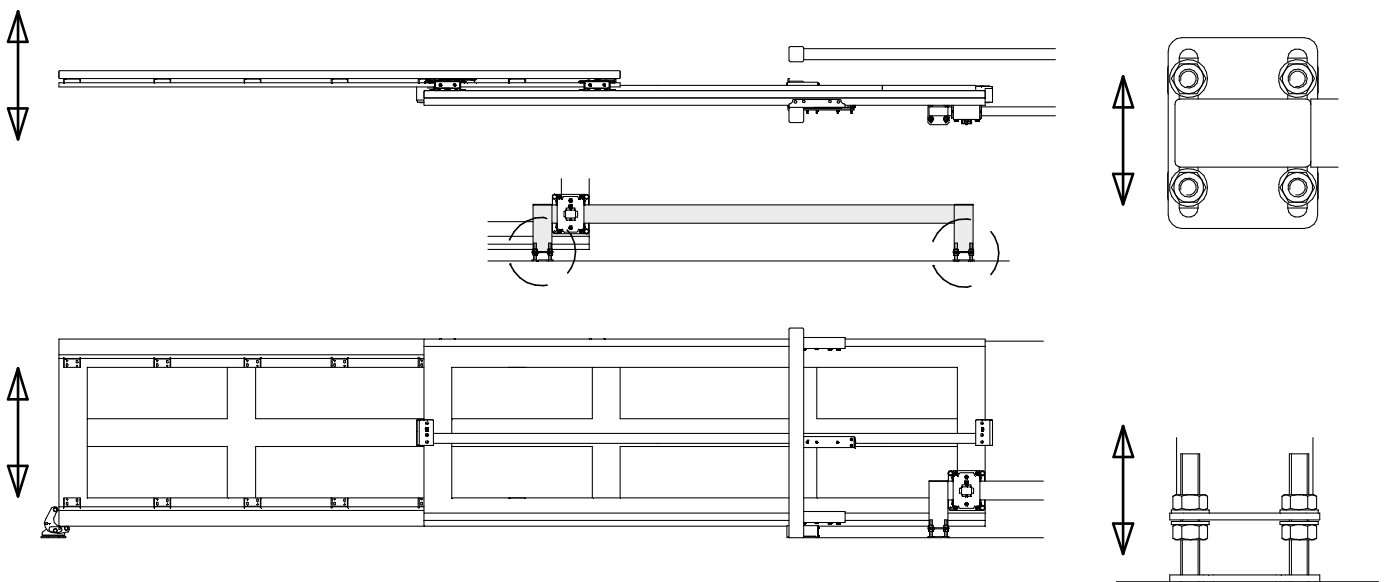
22 côté B



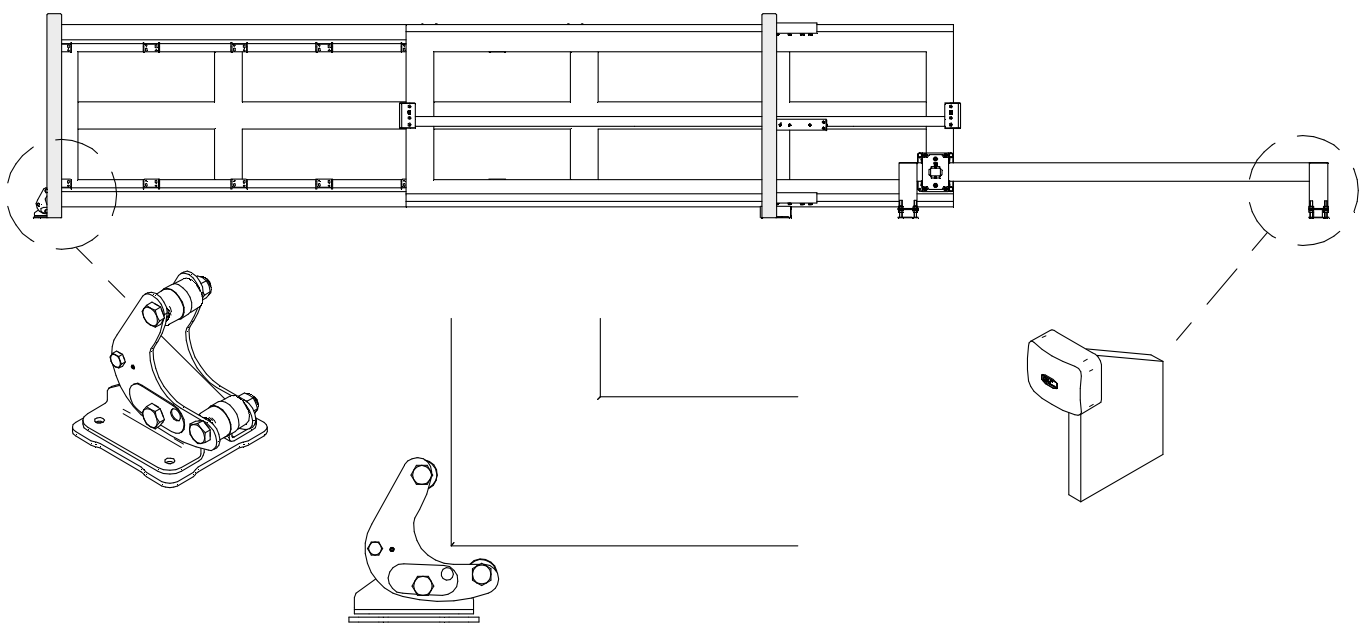
23



24



25





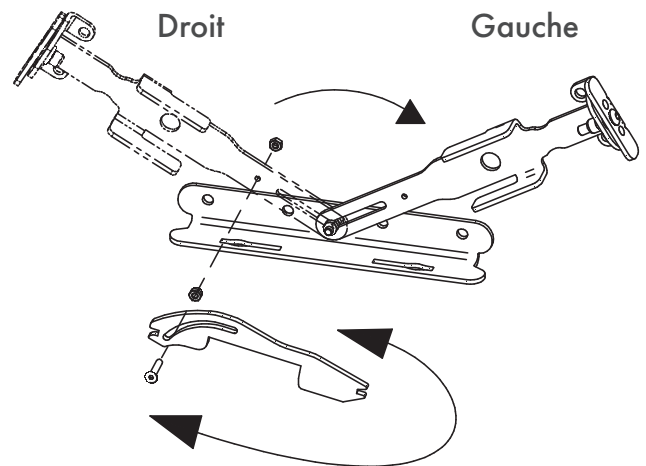
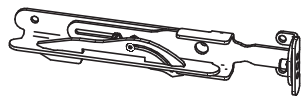


## VERSION GAUCHE

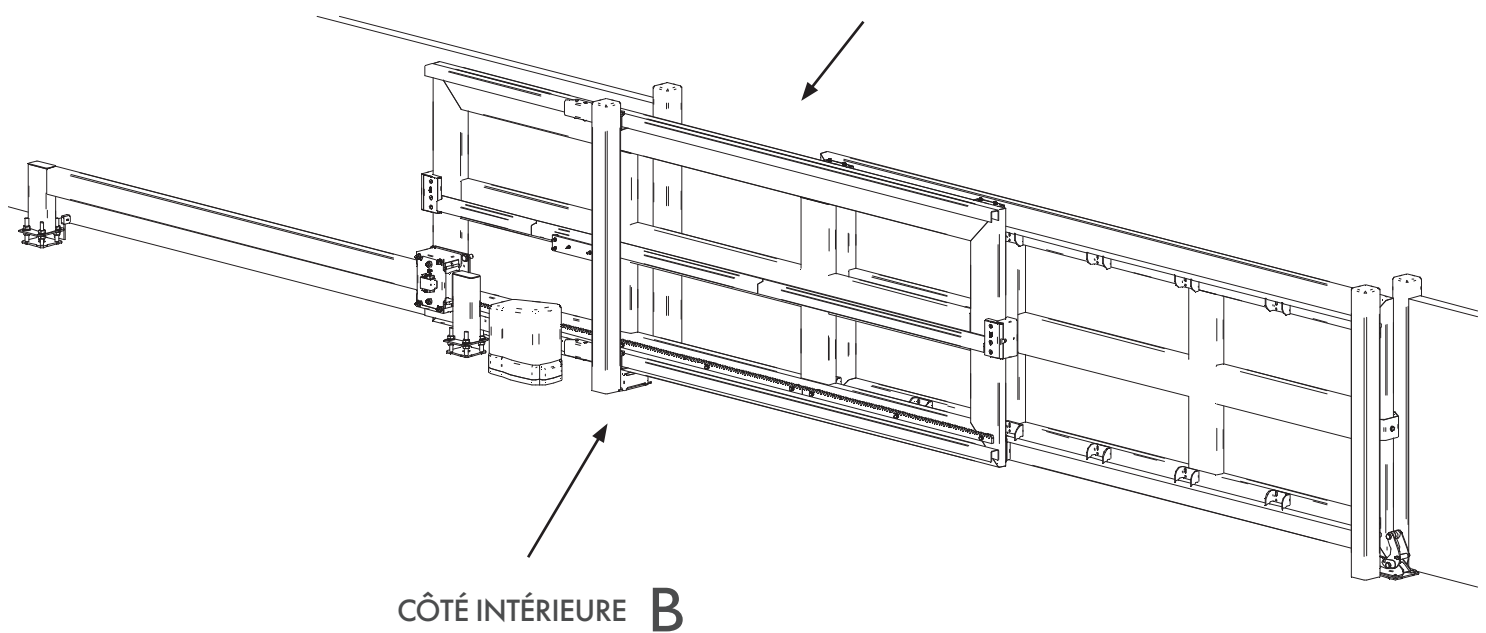
Pour l'installation de la version gauche, suivre les mêmes instructions mais en les interprétant dans le sens opposé. Faire attention aux points indiqués ci-dessous:

## PRÉPARER LES ATTACHES DROITS ET GAUCHES DANS LES QUANTITÉS INDIQUÉES :

2x  
Gauche



CÔTÉ EXTÉRIEUR **A**



CÔTÉ INTÉRIEUR **B**



## ENTRETIEN

Pour maintenir ces articles en condition de fonctionnement et sécurité optimales, il est nécessaire de suivre ces étapes :

- 1.** Une fois le montage terminé et après avoir exécuté quelques opérations d'ouverture et de fermetures, s'assurer qu'il n'y a pas de pièces desserrées et garder toujours le système bien lubrifié. Contrôler au maximum tous les 8000 cycles et tous les 3 mois. Si nécessaire il faut intervenir en serrant les vis et en lubrifiant. (Voir image 8-10)
- 2.** Si le câble est lâche répéter la procédure de tension.
- 3.** En cas de chocs provoqués par de véhicules ou par d'autres causes, s'assurer que les pièces du portail n'ont pas été endommagées et éventuellement les remplacer.
- 4.** L'utilisation de ces articles dans des milieux particulièrement humides, acides, poussiéreux, salins ou avec des températures supérieures à 120° en réduit sensiblement la durée des roulements et des parties présents dans les accessoires.
- 5.** FAC garantit le correcte fonctionnement du système uniquement si des pièces de rechange d'origine sont utilisées.

**Attention:** Les accessoires qui composent les kits ainsi que la proposition d'installation se réfèrent à un exemple standard. Une installation non conforme à la procédure indiquée ou la non-exécution des opérations d'entretien correctes, peuvent provoquer un dysfonctionnement du portail, en mettant en danger la sécurité des choses se trouvant à proximité. Vérifier que les accessoires soient appropriés à l'ouvrage spécifique et l'équiper de tous les dispositifs de sécurité prévus par la réglementation en vigueur.

**Pour des informations supplémentaires vous pouvez écrire à [info@fac srl.com](mailto:info@fac srl.com)**