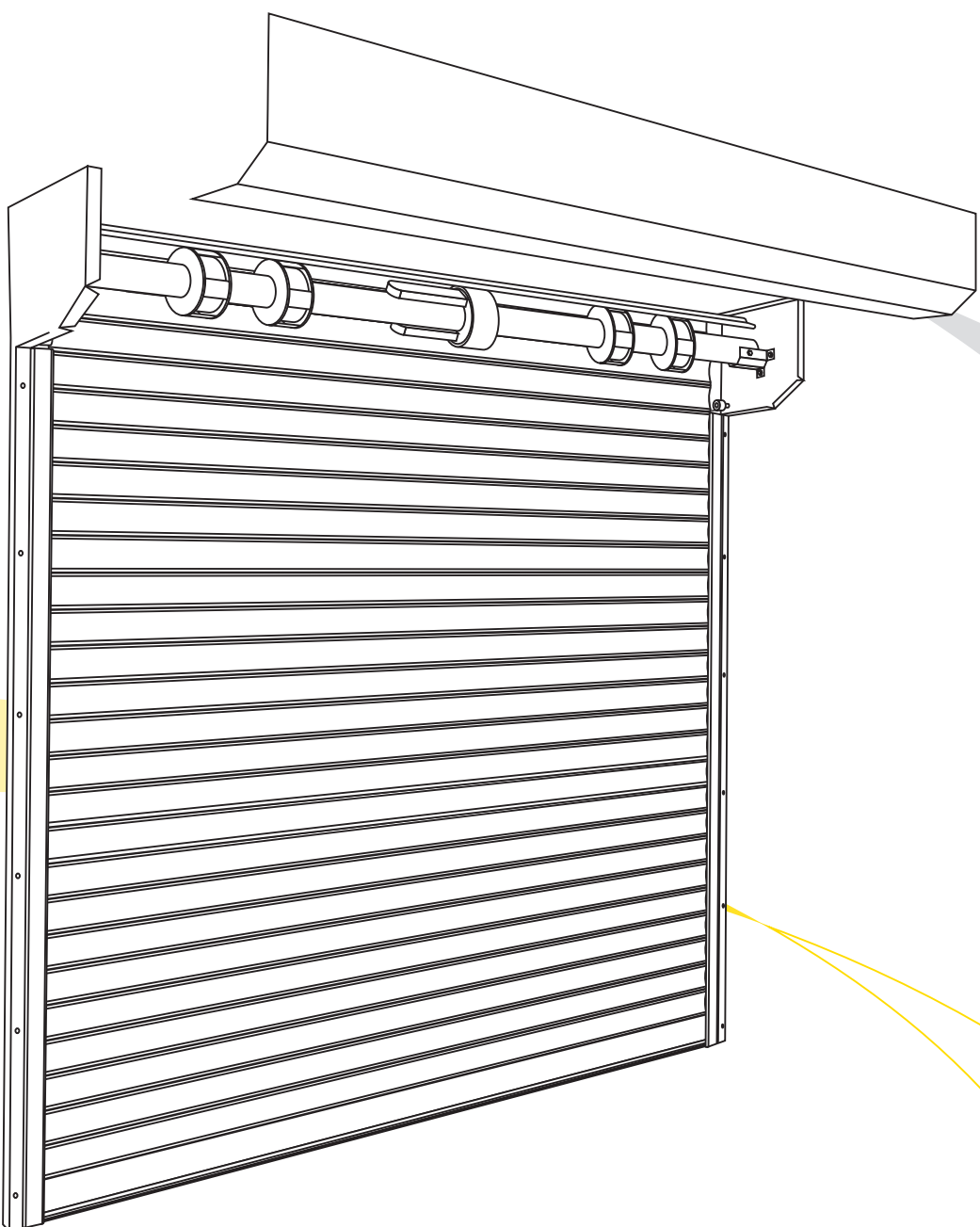
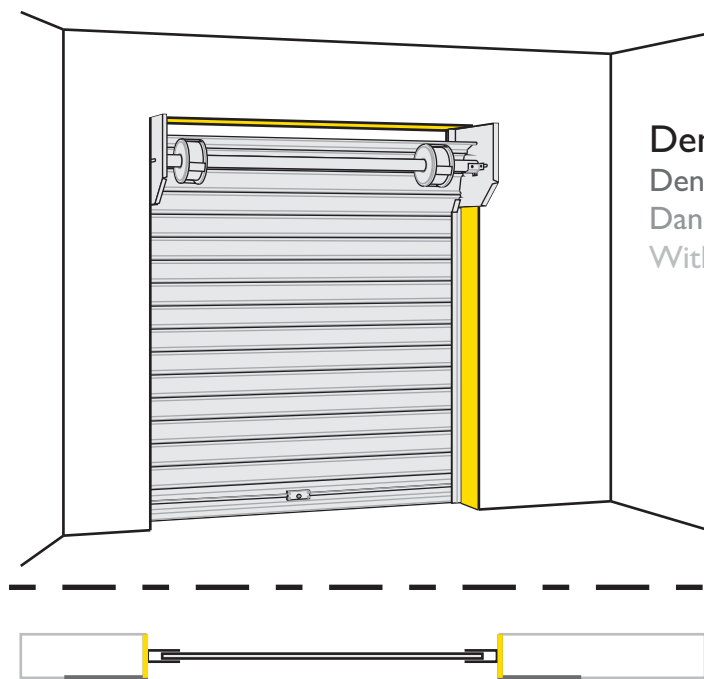
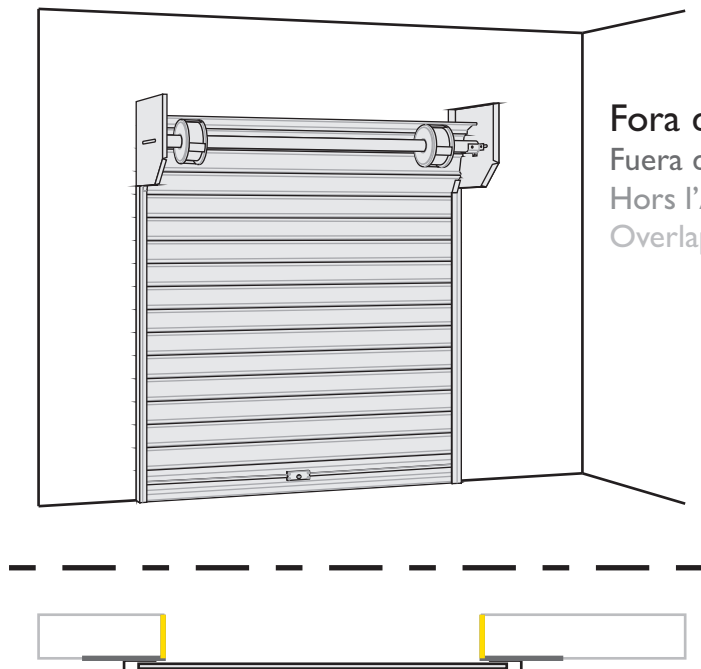


Manual de Instalação de Grade de Enrolar - Sistema de molas
Manual de Instalación de Puerta Enrollable - Sistema con muelles
Manuel d'Installation pour Porte Enroulable - Système de ressorts
Rolling Shutters assembly manual - Spring operated



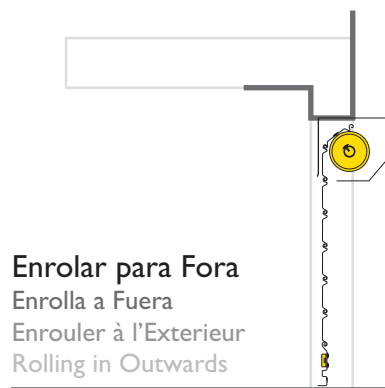


Dentro de Vão
Dentro de Luz
Dans l'Ambrasure
Within Span

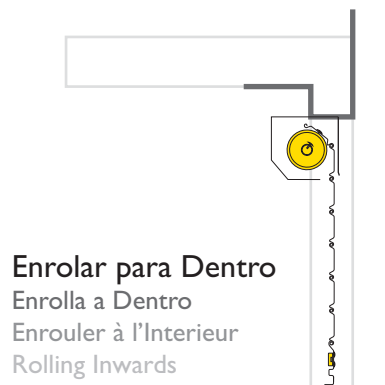


Fora de Vão
Fuera de Luz
Hors l'Ambrasure
Overlapping Span

Enrolar para Fora
Enrolla a Fuera
Enrouler à l'Exterieur
Rolling in Outwards



Enrolar para Dentro
Enrolla a Dentro
Enrouler à l'Interieur
Rolling Inwards



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Leia este manual atentamente antes de iniciar a instalação da Grade de Enrolar .

Uma instalação errada pode ser fonte de perigo!

Se após esta leitura lhe restarem dúvidas, não hesite em nos contactar.



««Atenção aos símbolos de alerta»»

RESPONSABILIDADE

A instalação, manutenção e reparação deste equipamento deve ser executada exclusivamente por técnicos qualificados e experientes.

A instalação de componentes eléctricos e suas ligações seguem as regras técnicas conforme as normas aplicáveis.

O fabricante deste produto rejeita qualquer responsabilidade no caso de serem instalados componentes que não os originais ou indicados.

O instalador deve fornecer todas as informações relativas ao funcionamento manual, automático e de emergência do produto instalado, tal como fornecer o manual de instruções ao utilizador final.

Os materiais de embalagem não devem ser abandonados no ambiente ou deixados ao alcance de crianças, podendo constituir uma fonte de perigo.

INSTALAÇÃO

As Grades de Enrolar podem enrolar para o interior ou para o exterior do local de instalação, assim como ser montadas dentro ou fora de vão.

Verificar sempre antes da instalação se todo o material se encontra disponível e em boas condições de funcionamento.

Antes de ligar a alimentação eléctrica, verificar se os dados do motor, placa e outros componentes são correspondentes aos da rede de distribuição eléctrica.

O rolo da grade só deve ser desembalado após a sua colocação nos suportes montados para o efeito.

Desenrolar a porta com cuidado, fazendo rodar o veio sobre os suportes laterais.

As molas integradas no veio estão trancadas e em tensão. Destruar estes mecanismos com cuidado.

A afinação do motor deve ser feita após a leitura do seu manual, fornecido com a grade. Não manter o motor alimentado em situações que lhe possam causar esforço. O abuso na sua utilização pode causar sérios danos na estrutura.

Lubrificar todas as dobradiças, rolamentos, cabos e eixos antes de iniciar o uso.

SEGURANÇA E MANUTENÇÃO

Os automatismos comercializados pela contêm um mecanismo de desbloqueio, que permite operar a porta manualmente, para facilitar a saída/ entrada, na eventualidade de uma falha eléctrica ou avaria.

O mecanismo de desbloqueio é activado sem necessidade de efectuar força excessiva.

Para garantir a eficiência do sistema e o seu bom funcionamento, é indispensável respeitar as indicações do fabricante.

Verificar manualmente o bom equilíbrio da porta e sistemas.

Devem ser efectuadas inspecções periódicas à instalação.

No caso de existência de mecanismo foto-eléctrico, executar o teste colocando um objecto com 40mm de altura no chão e verificar se a porta recua quando o contacta.

Contactar pessoal devidamente qualificado para efectuar qualquer reparação ou ajuste necessário.

O desmantelamento deve ser executado tendo em conta os passos destas instruções de montagem. Posteriormente deve proceder-se à remoção e valorização devida de todo o material desmantelado.

GARANTIA

Estão abrangidos pela garantia todas as peças e/ou elementos com comprovados defeitos de fabrico e não adulterados:

produtos residenciais - 2 anos; produtos industriais - 1 ano.

Estão excluídos da disposição anterior o material de desgaste, material exposto a ambientes agressivos/corrosivos, uso indevido e danos no produto ou pintura provocados por incumprimento das disposições vigentes nas Condições Gerais de Venda, art. 13.

Os nossas Grades de Enrolar estão conforme as directivas europeias:

89/106/CEE;

98/37/CE;

89/336/CEE;

EN 13241-1.

Lea atentamente este manual antes de empezar la instalación de la Puerta Enrollable .

Una mala instalación puede ser una fuente de peligro!

Si después de leer esto usted tiene dudas, contactar con nosotros.



«Cuidado con las señales de advertencia»

RESPONSABILIDAD

La instalación, mantenimiento y reparación de este equipo deben ser realizados únicamente por técnicos cualificados y experimentados.

La instalación de componentes eléctricos y sus conexiones siguen las reglas técnicas en conformidad a las normas.

El instalador debe proporcionar toda la información relativa a la operación manual, automática y de emergencia del producto instalado, como también suministrar el manual de instrucciones al usuario final.

El embalaje no debe ser abandonada en el medio ambiente o al alcance de los niños, puede constituir una fuente peligro.

INSTALACIÓN

Las Puertas Enrollables se pueden enrollar por lo interior o exterior del local de instalación y pueden ser montadas dentro o fuera del hueco de luz.

Siempre debe comprobar, antes de la instalación, que todos los equipos están disponibles y en buenas condiciones de trabajo.

Antes de conectar a la fuente de alimentación, compruebe que los datos del motor, del cartón y otros componentes son compatibles con los de la red de distribución eléctrica.

El rollo de la puerta solo debe ser desempaquetado después de su colocación en los soportes montados para ese fin. Desenrollar la puerta con cuidado, rodando el eje en sus soportes.

Los muelles están integrados en el eje y bloqueados en tensión. Desbloquear estos mecanismos cuidadosamente.

La afinación del motor se debe hacer solo después de leer su manual, suministrado con la puerta. No mantenga la alimentación al motor en situaciones que lo puedan causar esfuerzo. El abuso en su utilización puede causar graves daños a la estructura.

Lubrique todas las bisagras, rodamientos, cables y ejes antes de iniciar su uso.

SEGURIDAD Y MANTENIMIENTO

Los automatismos comercializados por contienen un mecanismo de desbloqueo, que permite operar la puerta manualmente, para facilitar la salida/entrada en caso de fallo eléctrico o fallo de funcionamiento.

El mecanismo se activa sin necesidad de una fuerza excesiva. Para garantizar la eficacia del sistema y su funcionamiento es esencial respetar las instrucciones del fabricante. Comprobar manualmente el buen equilibrio de la puerta y sus sistemas.

Inspecciones a la instalación se deben hacer periódicamente. En caso de existencia de sistema foto-eléctrico, realizar la prueba, colocando un objeto con 40mm de altura sobre el suelo y comprobar que la puerta invierte su movimiento cuando lo detecta.

Contactar personal debidamente cualificado para realizar cualquier reparación o ajuste necesario.

El desmantelamiento debe llevarse a cabo teniendo en cuenta los pasos de las instrucciones de montaje. Posteriormente, se deberá proceder al recogimiento y

reciclaje de todos los materiales desmantelados.

GARANTÍA

Están cubiertos por la garantía las piezas y/o componentes con defectos probados de fabricación y no adulterados:

productos residenciales - 2 años; productos industriales - 1 año.

Están excluidos de la citada disposición el material de desgaste, materiales expuestos a ambientes hostiles/corrosivos, el uso indebido y daños al producto o

pintura causados por incumplimiento de las disposiciones existentes en las Condiciones Generales de Venta, art. 13.

Nuestras Puertas Enrollables están en conformidad con las directivas europeas:

89/106/CEE;

98/37/CE;

89/336/CEE;

EN 13241-1.

Lire attentivement ce manuel avant de commencer l'installation de la Porte Enroulable.

Une mauvaise installation peut être une source de danger!

Si après la lecture de ce document des questions surgissent, n'hésitez pas à nous contacter.



«Méfiez-vous des signes »

RESPONSABILITÉ

L'installation, l'entretien et la réparation de ce matériel doit être effectuée uniquement par des techniciens qualifiés et expérimentés.

L'installation de composants électriques et de leurs connexions suivent les règles techniques conformément aux normes appliquées.

Le fabricant de ce produit, ne se responsabilise pas en cas d'installation de composants autres que l'original ou indiqués. L'installateur doit fournir toutes les informations relatives au fonctionnement manuel, automatique et sécurité du produit, c'est à dire en fournissant le manuel d'instructions à l'utilisateur final.

Les emballages ne doivent pas être abandonnés ou dans l'environnement ou laissés à portée des enfants car ils peuvent constituer un danger.

INSTALLATION

Les Portes Enroulable des'enrouler à l'intérieur ou à l'extérieur du lieu de intalation et montées à l'intérieur ou à l'extérieur de l'embrasure.

Toujours vérifier avant l'installation qu'il ne manque aucun élément et que le matériel est en bon état de fonctionnement.

Avant de brancher le moteur, la carte et l'autres éléments, vérifier que leurs caractéristiques techniques correspondent à celles du réseau.

Le déploiement de la grille doit être effectué uniquement après son emplacement dans les montés à cet effet.

Déranger la porte avec soin, faisant tourner l'arbre sur les supports latéraux.

Les ressorts intégrés dans l'arbre sont bloqué et sous tension. Débloquer soigneusement ces mécanismes.

Le réglage du moteur doit être fait après la lecture de son manuel, fourni avec la porte. Ne pas forcer le moteur en cas de blocage. L'abus de cette utilisation peut provoquer de graves dommages à la structure.

Lubrifier toutes les charnières, roulements, câbles et axes avant toute utilisation.

SECURITE ET MAINTENANCE

Les automatismes commercialisés par contiennent un mécanisme de déverrouillage permettant l'utilisation manuel, ce en cas de coupure de courant ou dysfonctionnement.

Le mécanisme est activé, sans besoin d'une force excessive.

Pour assurer l'efficacité du système et de son bon fonctionnement il est essentiel de respecter les instructions du fabricant. Vérifier manuellement l'équilibre de la porte et ces mécanismes.

Il est conseillé d'effectuer une inspection périodique de l'installation. Dans le cas de l'existence d'un système photo-électrique, exécuter l'essai plaçant un objet de 40mm de hauteur sur le sol et vérifier que la porte inverse son mouvement dès qu'il y a le contact. Contacter personnel qualifié pour effectuer toute réparation ou réglage nécessaire.

Le démantèlement doit être réalisé en tenant compte des mesures d'instructions d'assemblage. Retirer et recycler tout matériel d'emballage.

GARANTIE

La garantie des produits fournis par englobe toutes pièces ou matériels ayant des défauts de fabrication:

produits résidentiels - 2 ans; produits industriels - 1 an.

La garantie exclut l'usure de matériel due à des facteurs externes comme l'utilisation de produits non appropriés et/ou produits abrasifs/corrosifs, mauvais usage/manipulation, matériel de substitution périodique et dommages du produits et de la peinture du au non accomplissement des Conditions Generales de Vente, art. 13.

Nos Portes Enroulables sont conforme aux normes européennes en vigueur:

89/106/CEE;

98/37/CE;

89/336/CEE;

EN 13241-1.

Read this manual carefully before starting the assembly of an Rolling Shutter.

An incorrect installation can be a source of danger!

If you have questions after reading this, do not hesitate to contact us.



««Beware of warning signs»»

LIABILITY

The installation, maintenance and repair of this equipment should be performed only by qualified and experienced technicians.

The installation of electrical components and all their connections must follow the technical rules within standards.

The manufacturer of this product rejects all responsibilities in case of installed components other than the originals or indicated . S.A..

The installer must provide all information relating to the manual, automatic and emergency operation of the installed product, such as providing the user's manual to the end user.

The packaging should not be abandoned or left in the environment or to the scope of children. It may constitute a hazard.

INSTALLATION

Rolling Shutters can roll to the inside or outside of the installation site, and also be mounted within or outside the span.

Always check before installation that all components are available and in good working condition.

Before connecting to the power supply, verify if the engine, board and other components specifications match those of the electrical distribution network.

The shutter's grid should only be unpacked when mounted in the brackets assembled for this purpose.

Unroll the door carefully, hand-rolling the shaft over its brackets.

The springs devices are integrated in the shaft and locked in tension. Unlock these devices carefully.

Tuning the engine should only take place after reading its own manual, supplied with the shutter.

Do not keep the engine powered on in situations when you foresee excessive effort. Abusive usage can cause serious damage to the structure.

Lubricate all hinges, bearings, cables and shafts before starting usage.

SAFETY AND MAINTENANCE

The automation products are supplied with a disengaging mechanism that allows operating the door manually to enable exit in the event of an electrical failure or malfunction.

The disengaging mechanism can be activated without need for excessive force.

To ensure the system's efficiency and all functions it's essential to respect the manufacturer's instructions. Manually verify the proper balance of the door and systems.

Periodic inspections of the installation should be performed. In case of integrated photo-electric cells, perform the test by placing an object with 40mm height on the floor and check if the door bounces up after contact.

Any repair or necessary adjustment should be performed by qualified personnel only.

The decommissioning must be carried out taking into account the steps of the assembly instructions. Thereafter, proceed to the removal and recovery of all material dismantled.

WARRANTY

All parts and/or components are covered by warranty only with proven manufacture or material defect and not adulterated:

residential products - 2 years; industrial products - 1 year.

From the above provision are excluded: normal wear or tear, material exposed to harsh/corrosive environments, misuse or damage to the products or paint caused by disregard of the existing provisions in the General Terms of Sale, art. 13.

Our Rolling Shutters are in order to European standards:

89/106/EEC;

98/37/EC;

89/336/EEC;

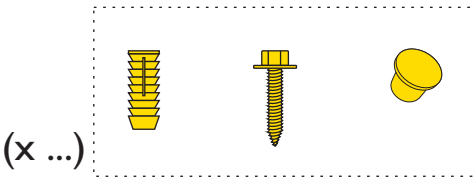
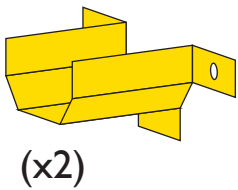
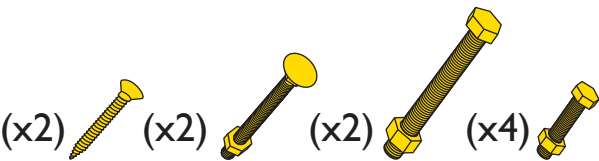
EN 13241-1.

Conteúdo:

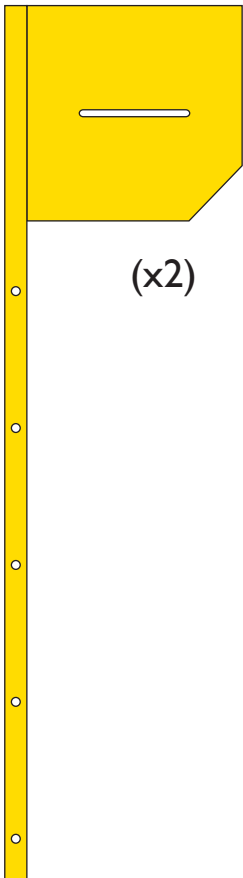
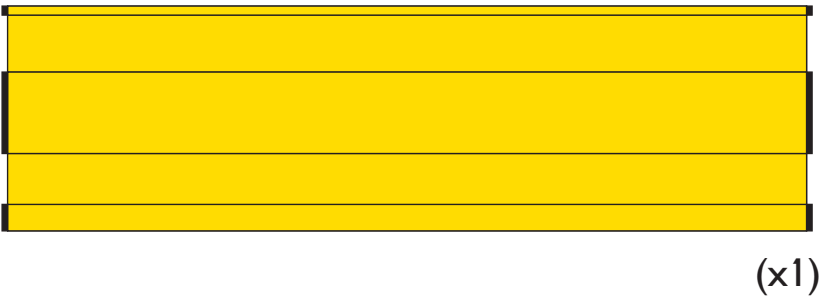
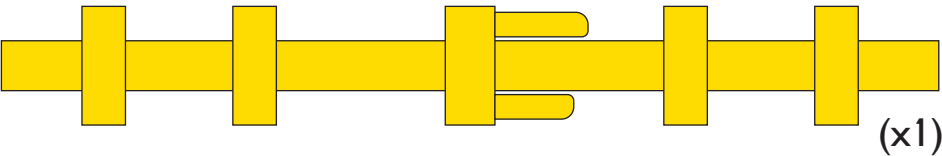
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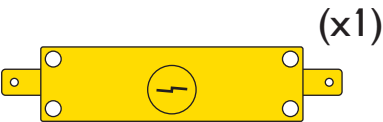
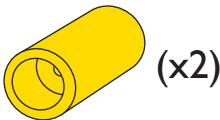
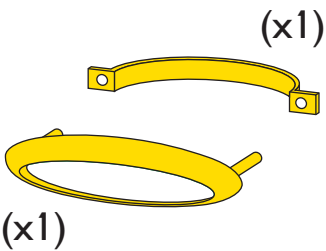
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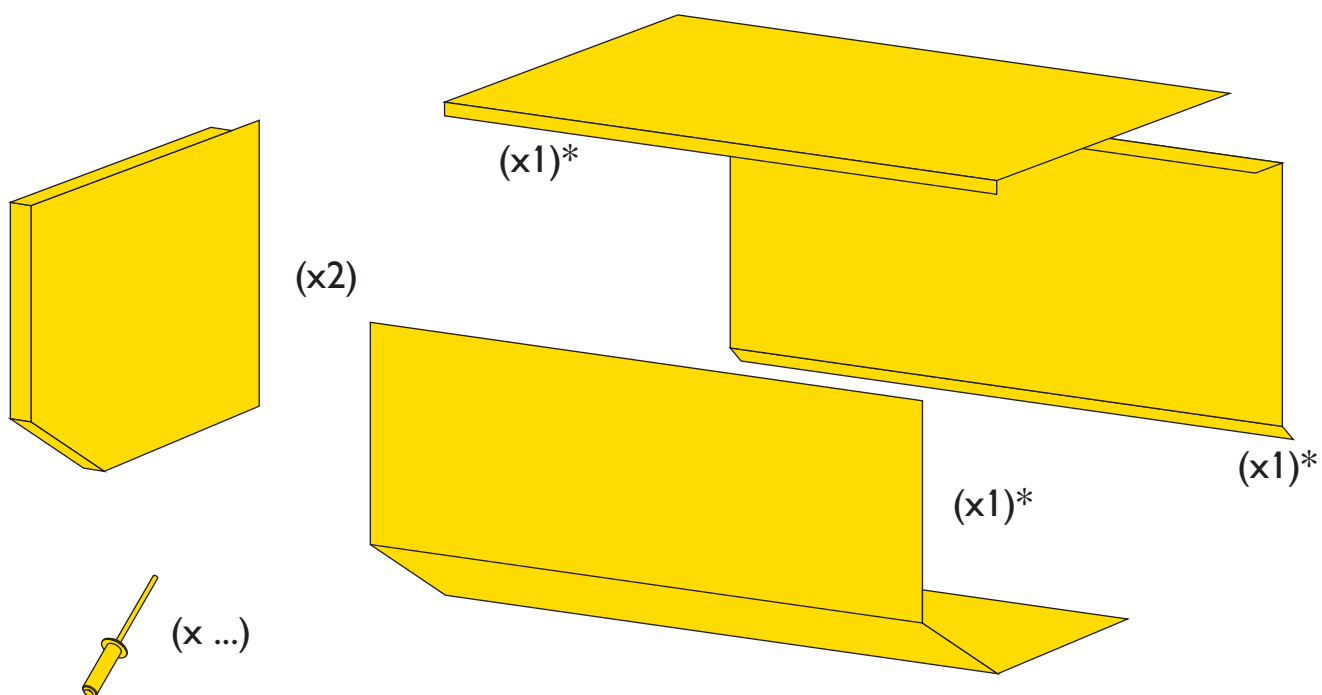
Pano Lamas Tablier Detached
separado apartadas détaché curtain



Pano Rolo Tablier Joined
montado entero composé curtain

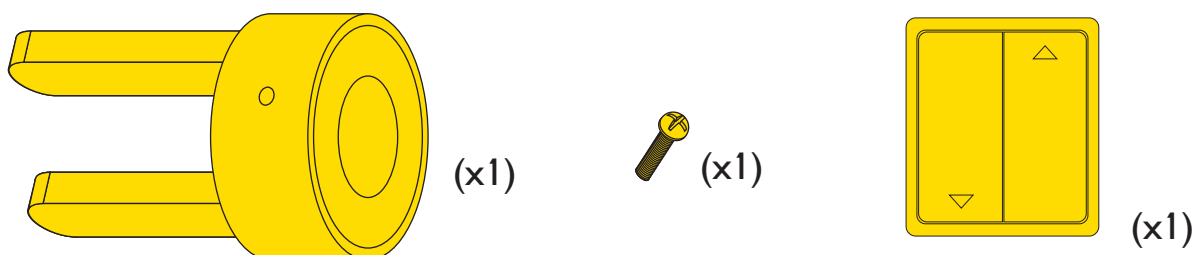


Caixa Cajón Caison Barel case



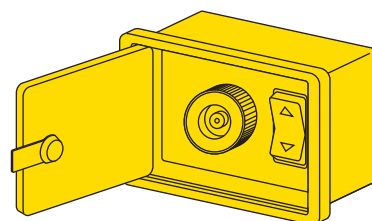
* opcional / facultatif / optional

Motor Motor Moteur Operator



opcional / facultatif / optional

Caixa-cofre
Caja-fuerte
Coffre-fort
Safe box

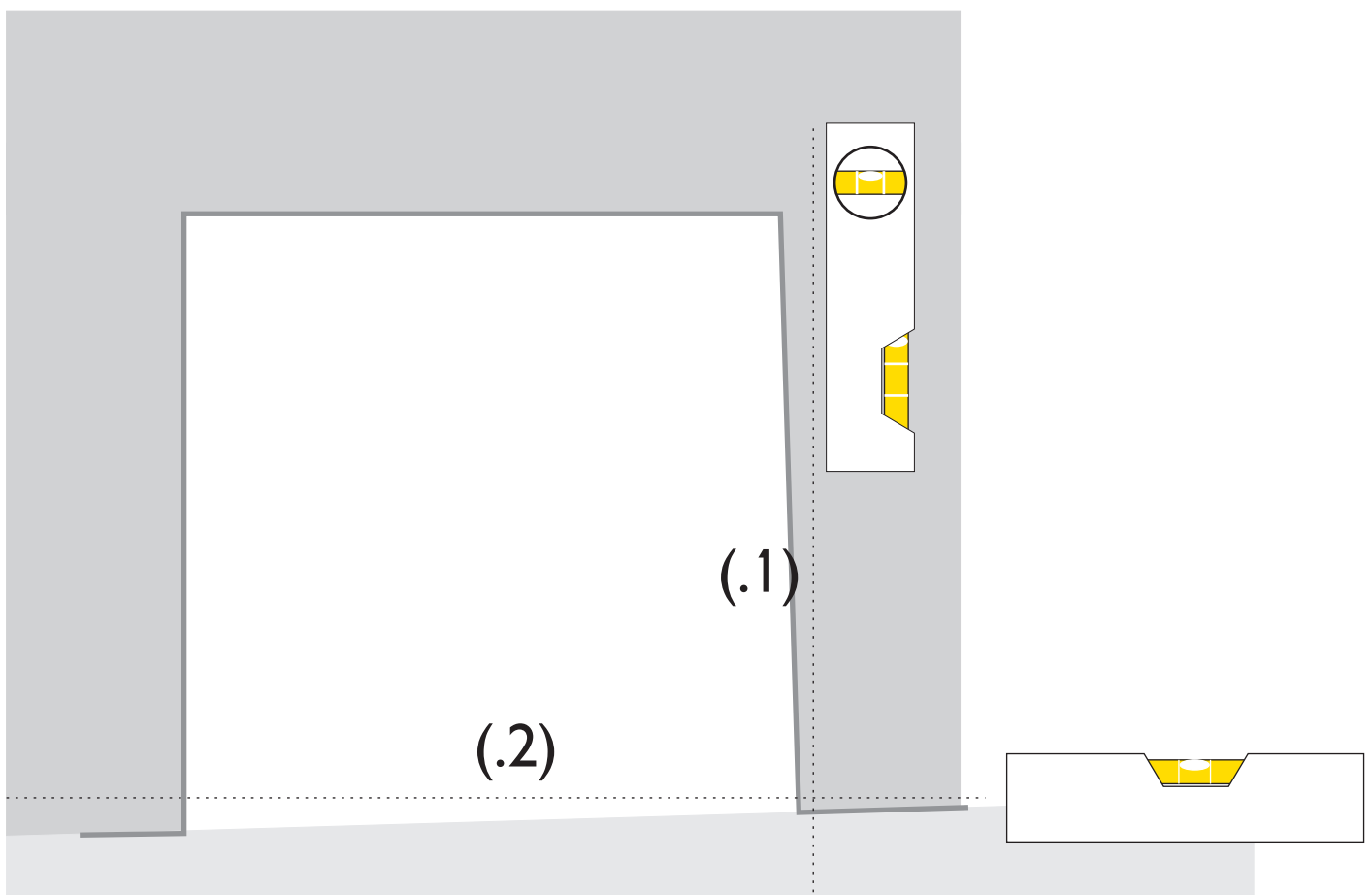


Nivelamento do chão, ombreiras e padieira

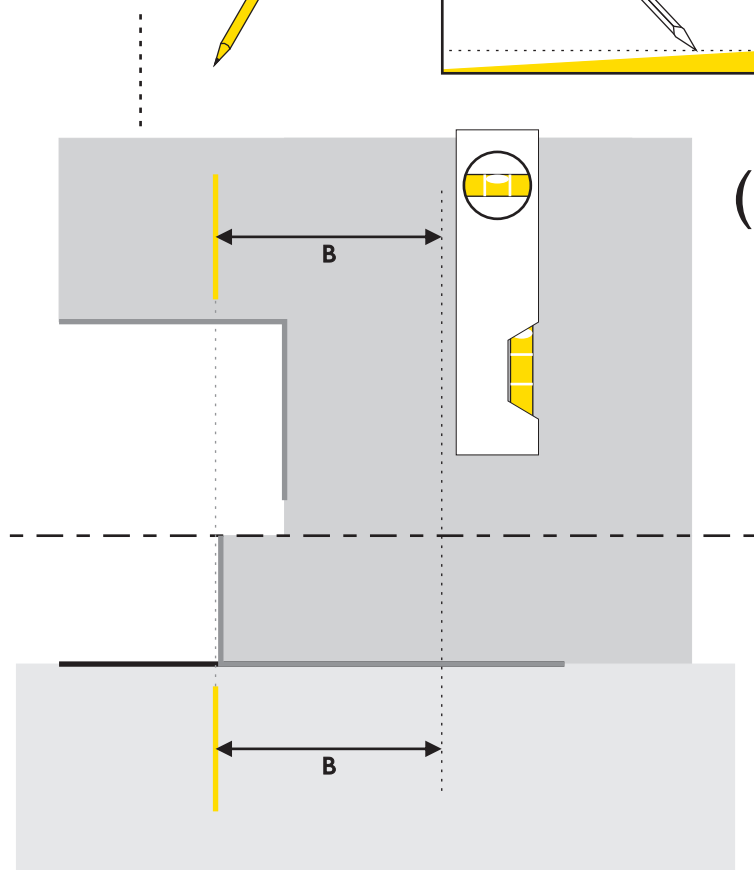
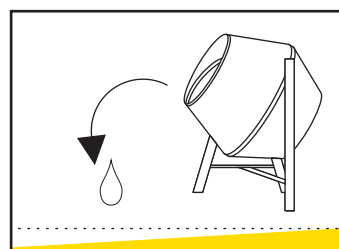
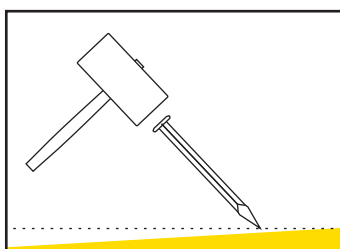
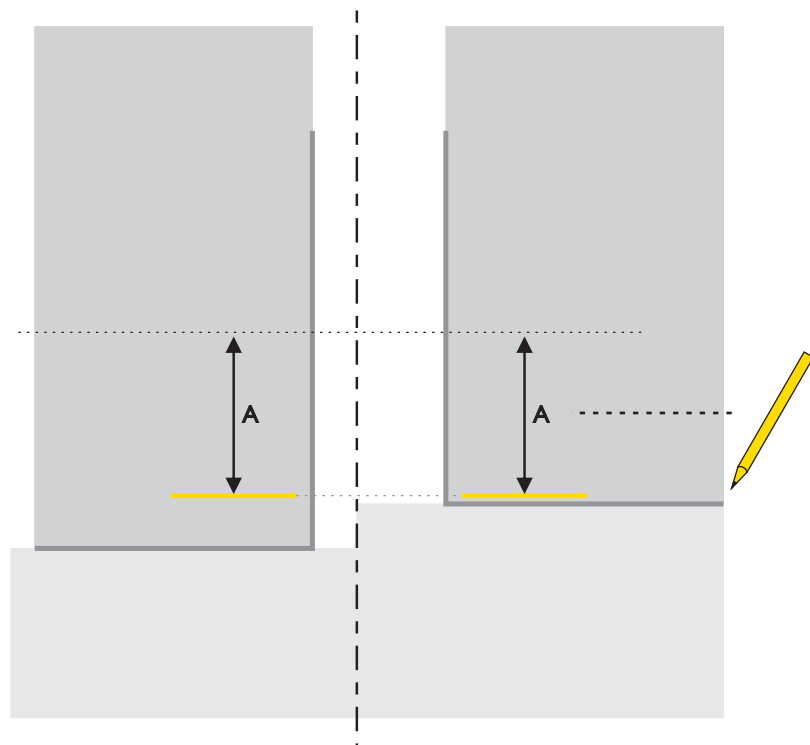
Nivelación del suelo, marcos y dintel

Nivellement du sol, écoinçons et linteau

Leveling floor, jambs and lintel



(.2)



(.1)

**Nivelar chão, ombreiras e padieira
para um acabamento perfeito**

Nivelar el suelo, los marcos y el dintel
para un acabado perfecto

Niveler du sol, les écoinçons et le linteau
pour une finition parfaite

Level the floor, jambs and lintel
for a perfect finish

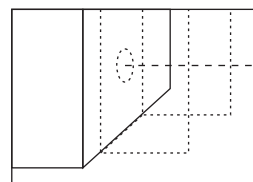
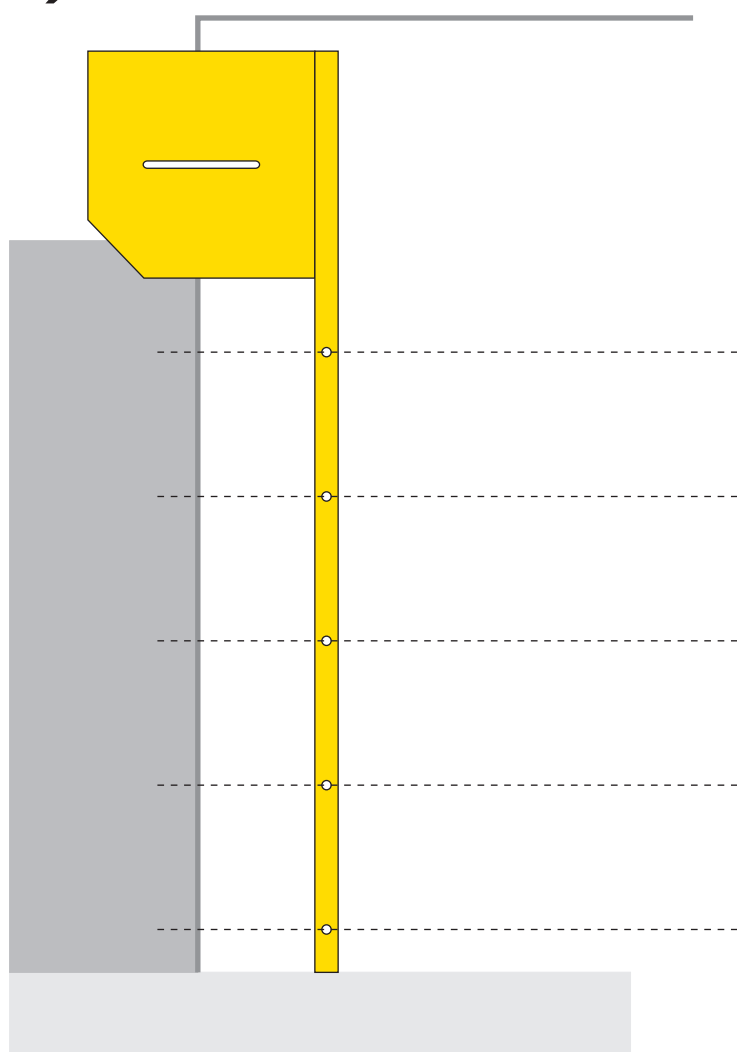
Montagem das guias

Montaje de las guías

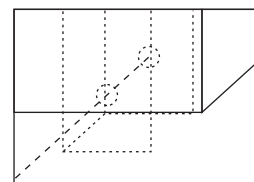
Montage des rails

Guides assembly

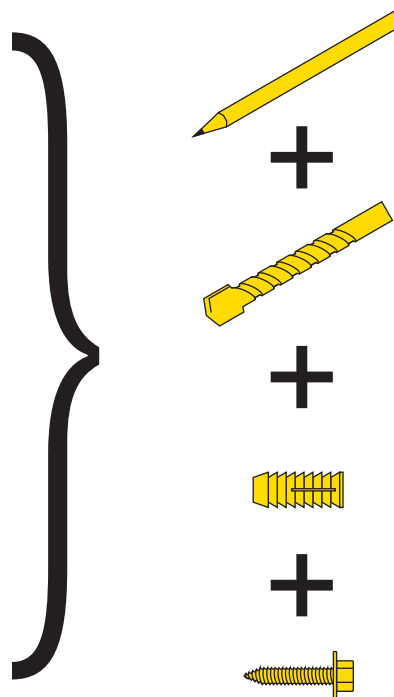
1)



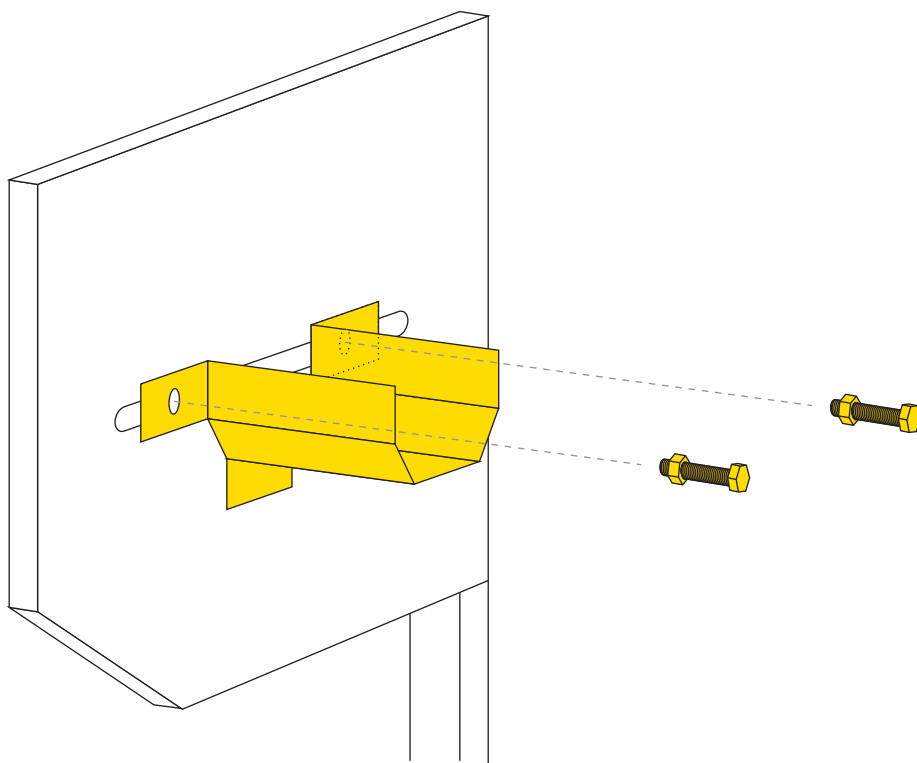
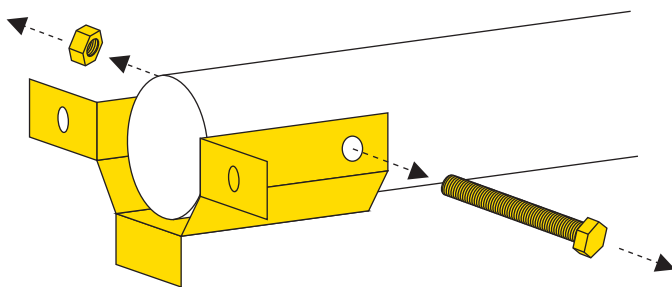
Dentro de Vão
Dentro de Luz
Dans Baie
Within Span



Fora de Vão
Fuera de Luz
Hors Baie
Overlapping Span



2)



Aplicação do pano
Montaje del paño
Montage du tablier
Curtain assembly

(pano montado
rolo entero
tablier composé
attached curtain)



Se pano da grade
separado do veio,
avançar para a

Si las lamas van
apartadas del eje,
avanzar a la

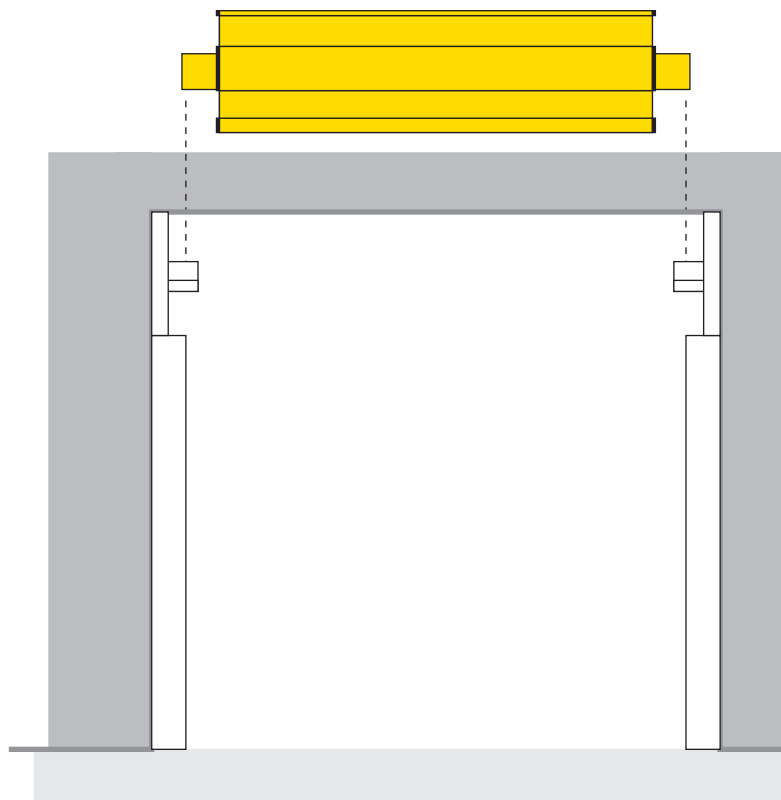
Si le tablier est
détaché de l'arbre,
avancé à la

If curtain supplied
separately from axel,
jump to

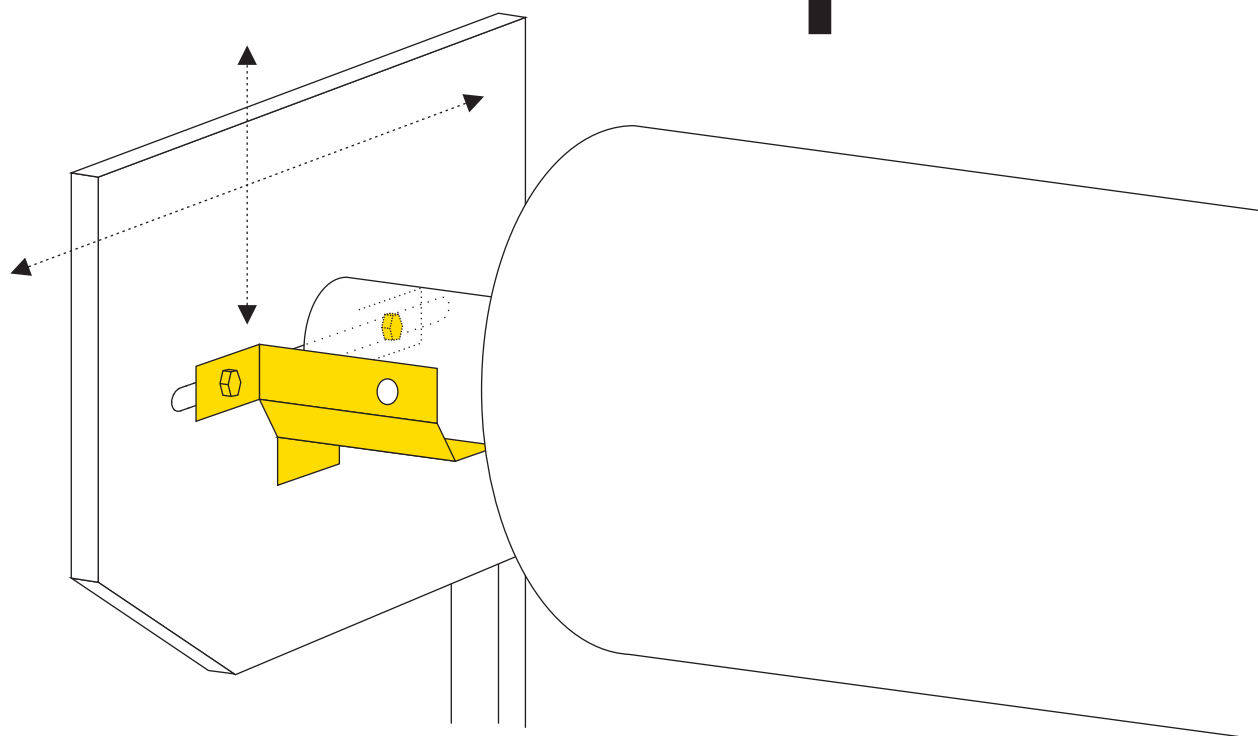
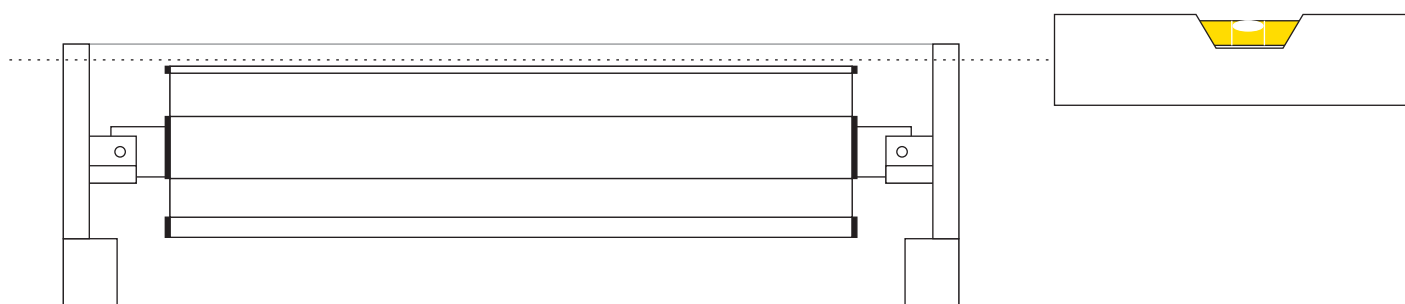
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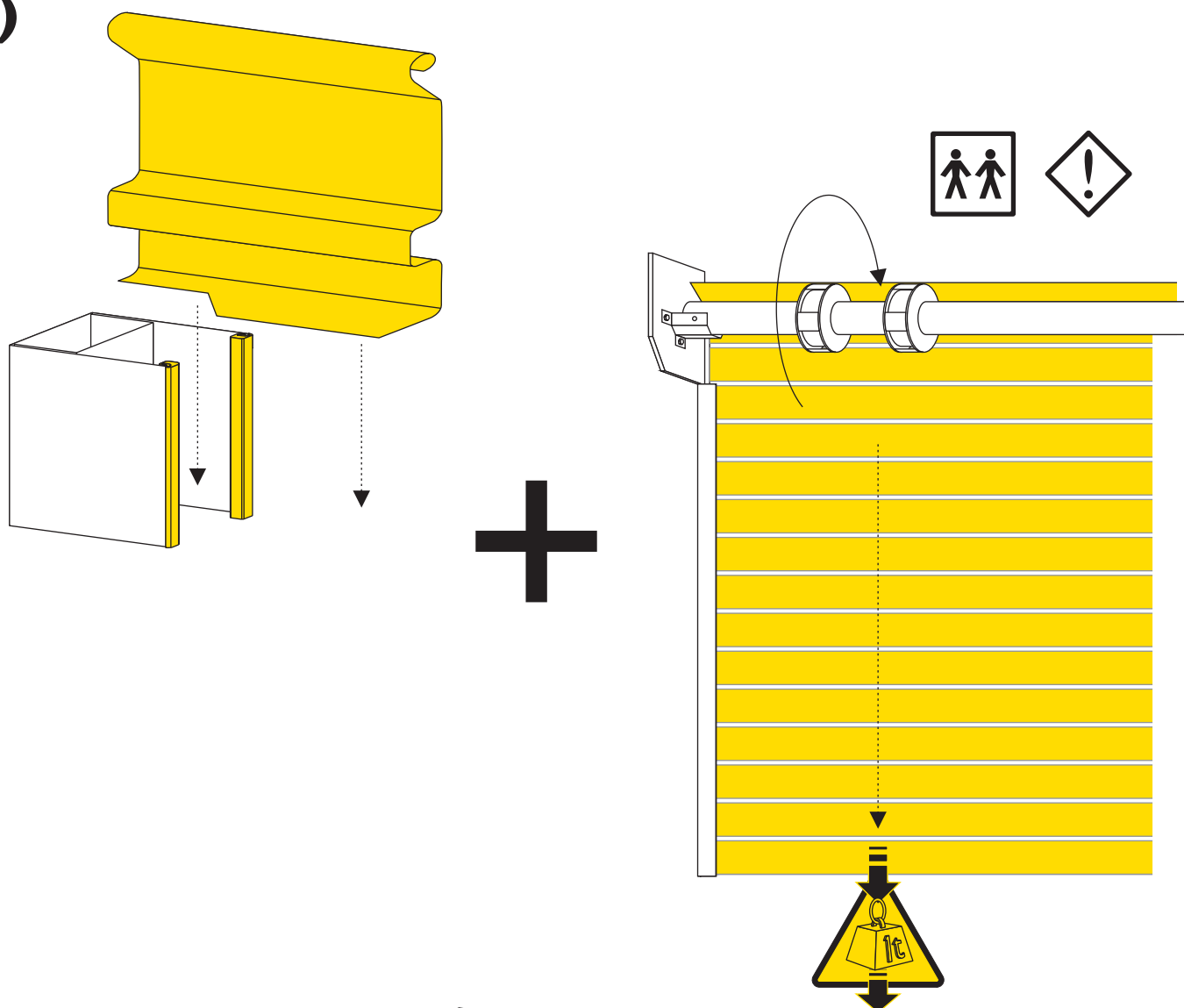
3)



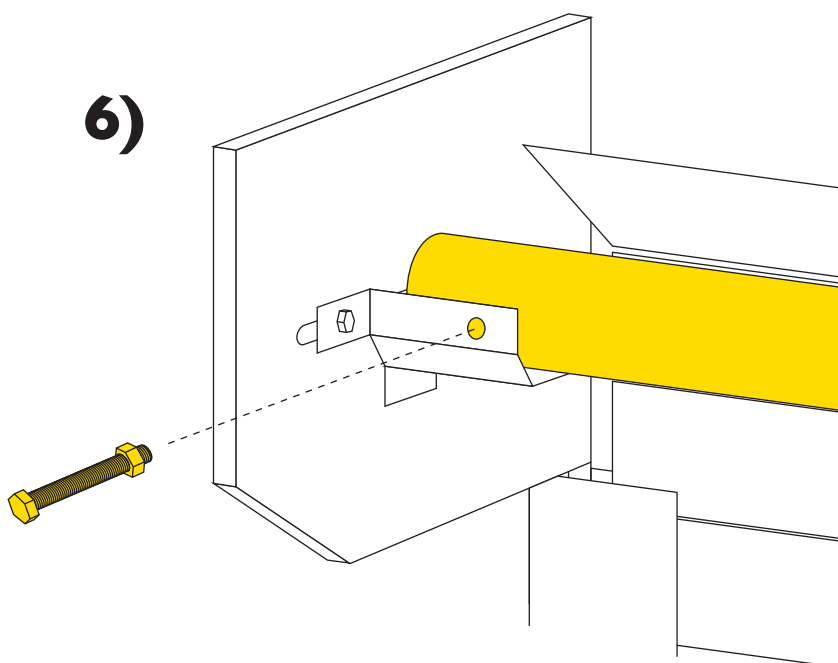
4)



5)



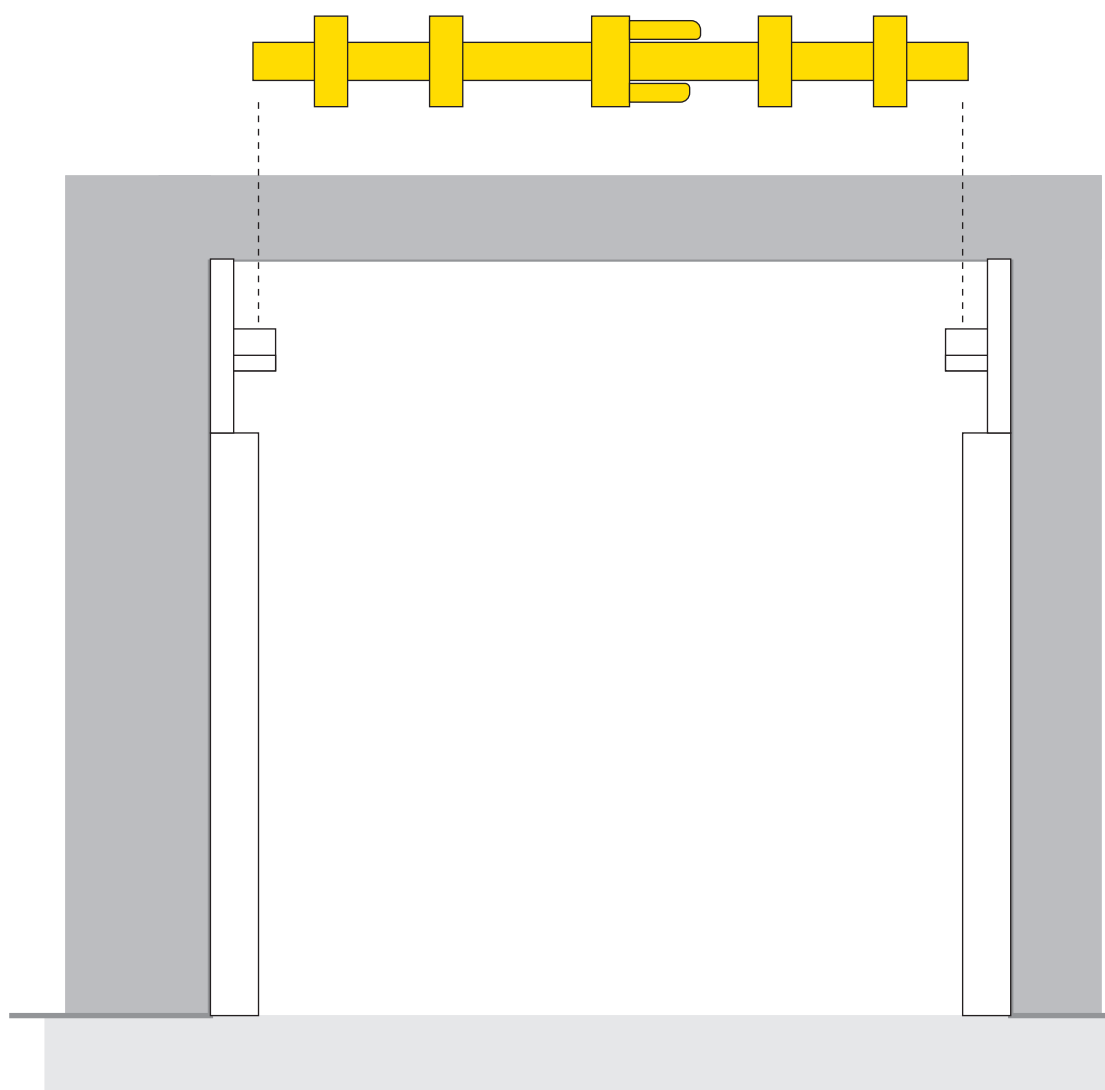
6)



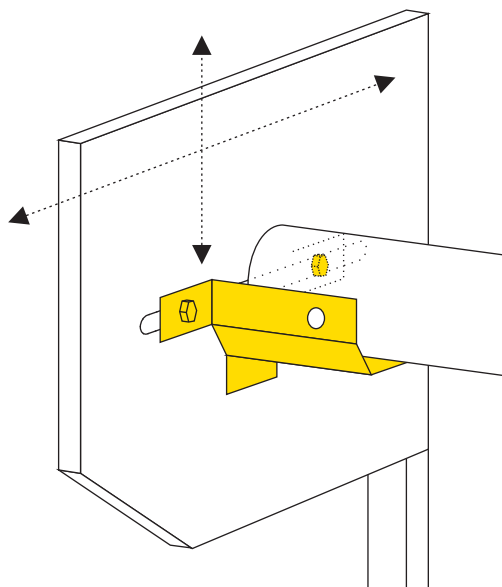
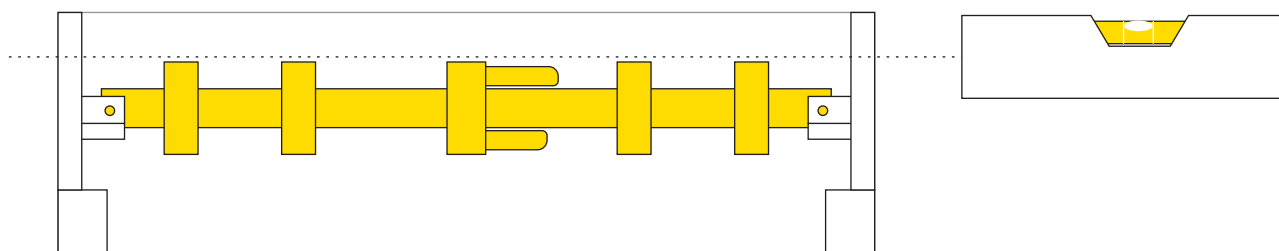
Aplicação do pano
Montaje del paño
Montage du tablier
Curtain assembly

(pano separado
laminas apartadas
tablier détaché
detached curtain)

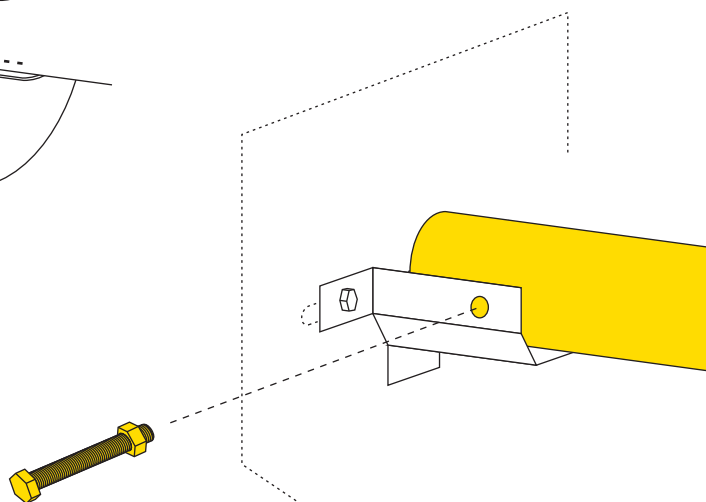
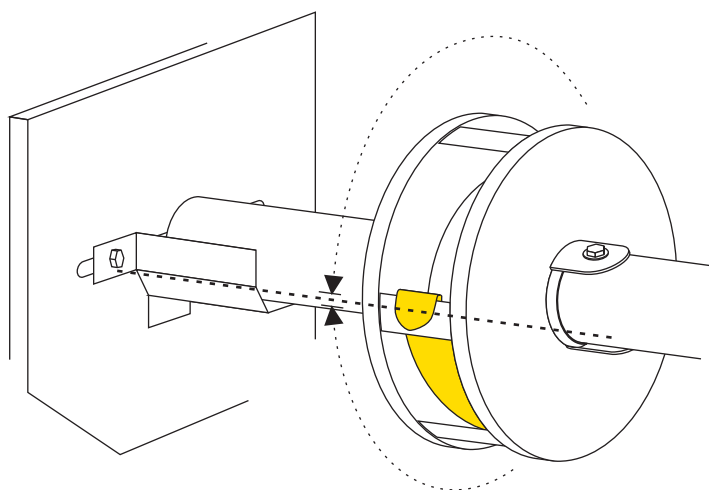
7)



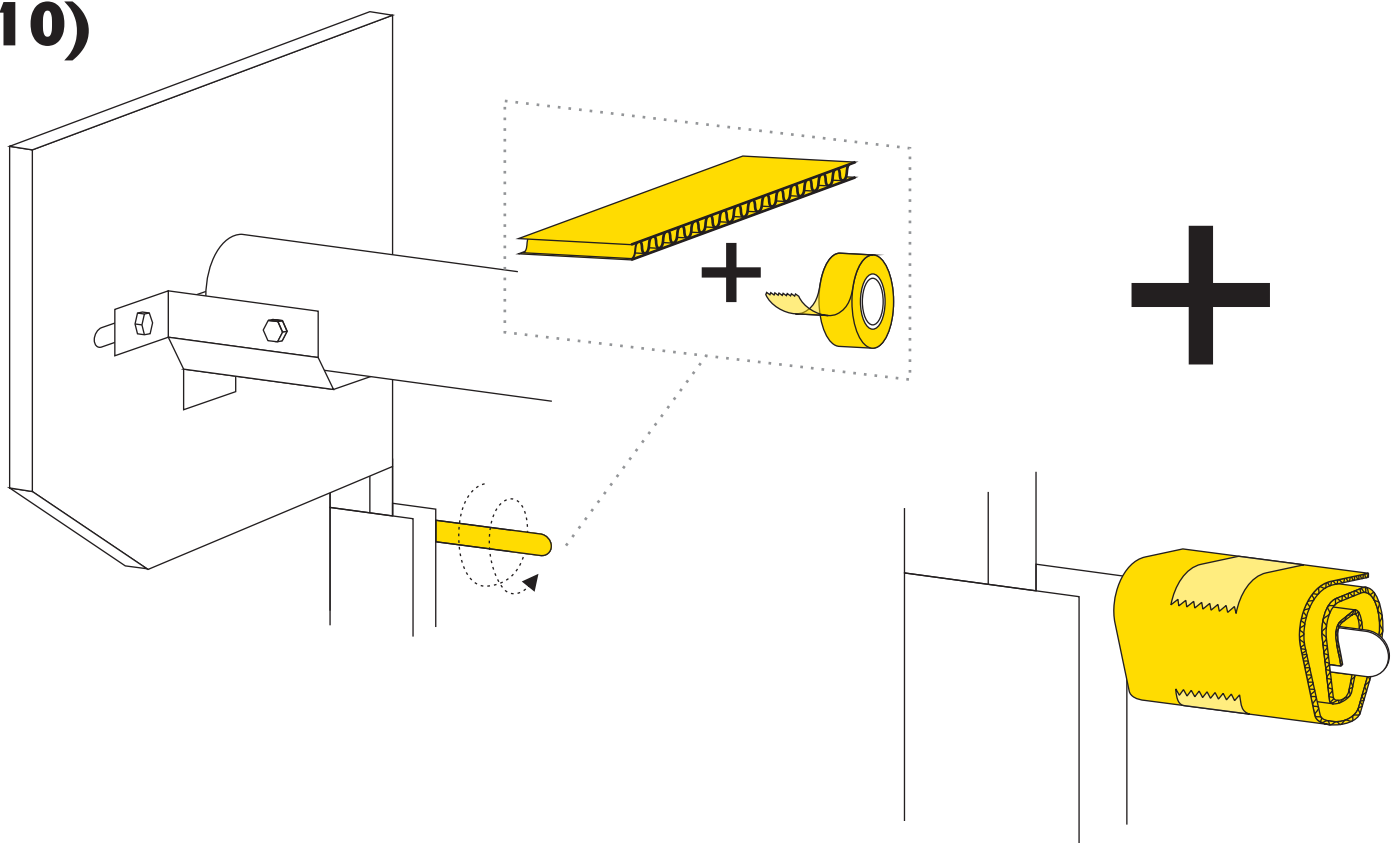
8)



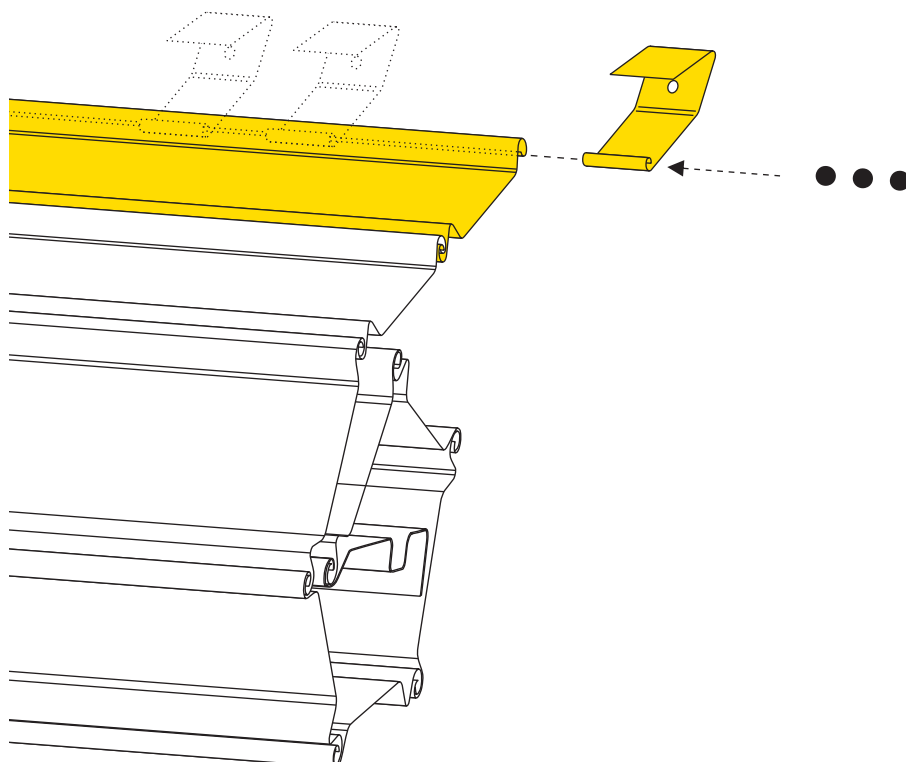
9)



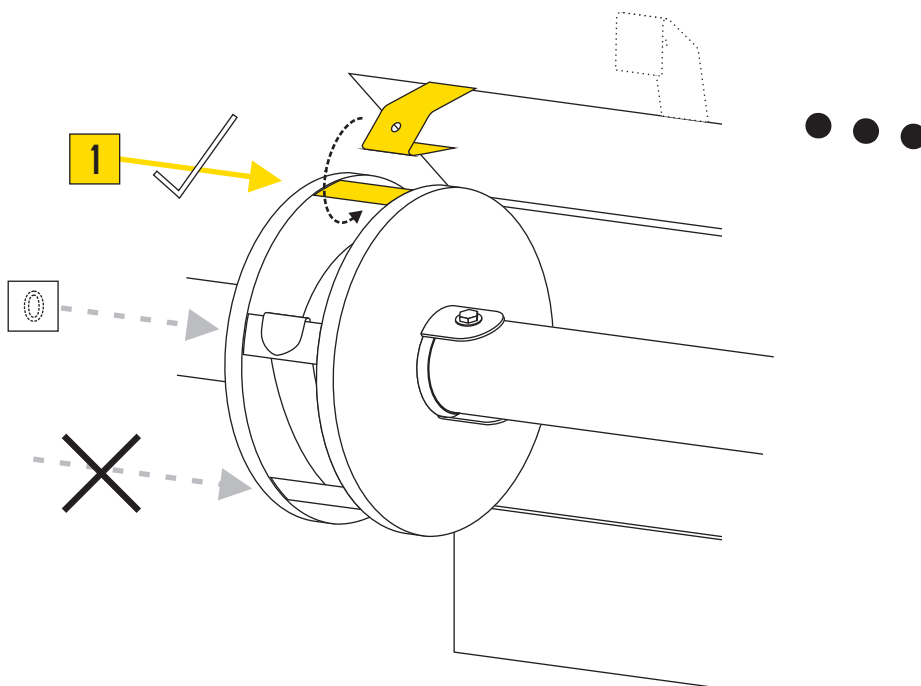
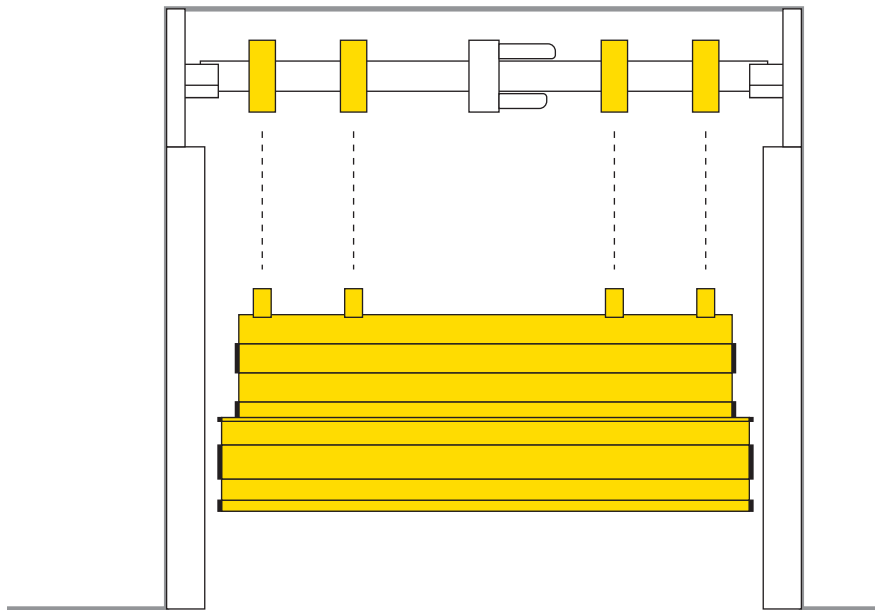
10)



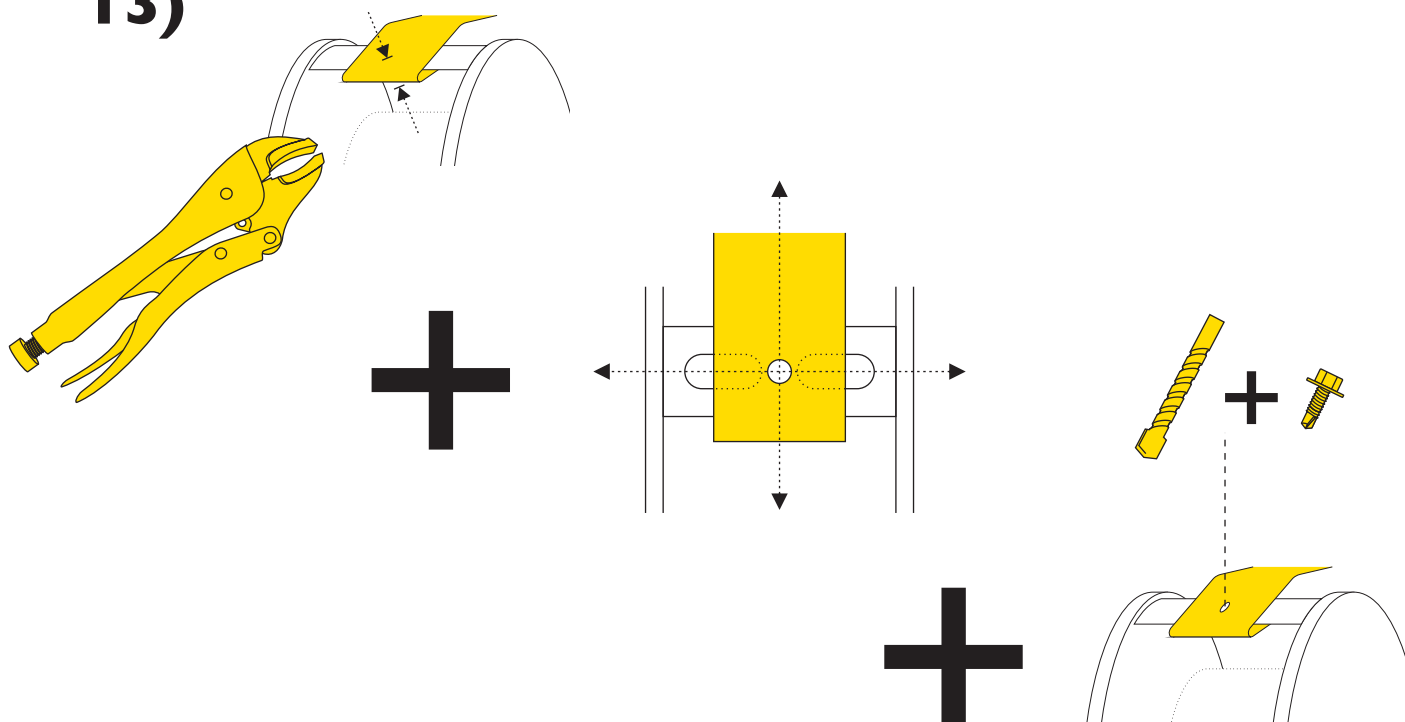
11)



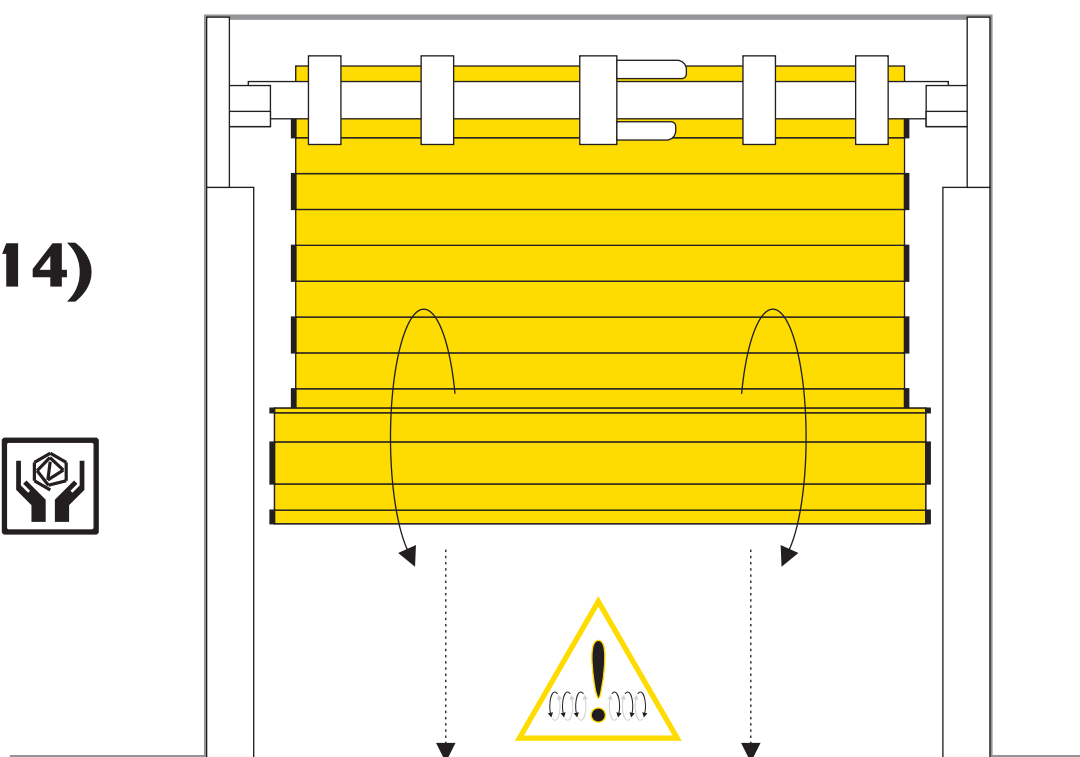
12)



13)



14)



Accionamento das molas

Accionamiento de los muelles

Opération des ressorts

Releasing spring devices

(pano montado
rolo entero
tablier composé
attached curtain)



Se pano da grade
separado do veio,
avançar para a

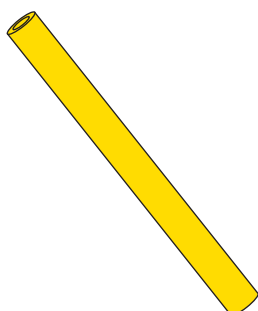
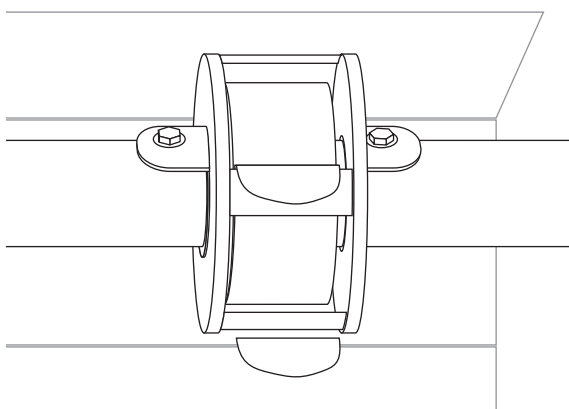
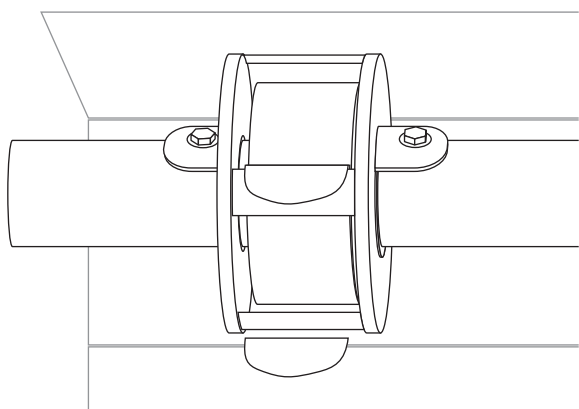
Si las lamas van
apartadas del eje,
avanzar a la

Si le tablier est
détaché de l'arbre,
avancé à la

If curtain supplied
separately from axel,
jump to

pag.

23



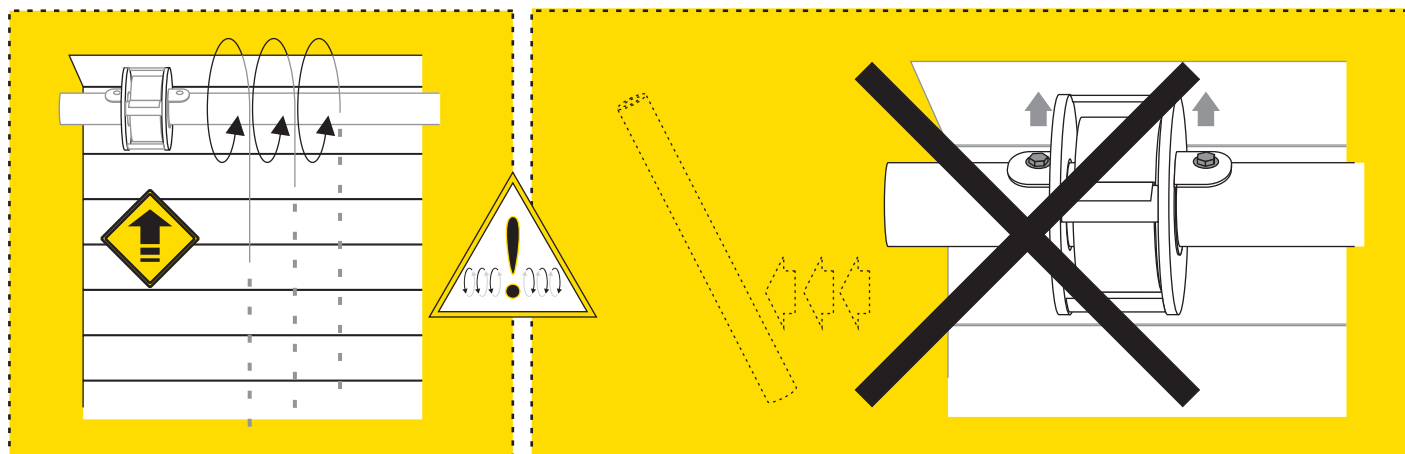
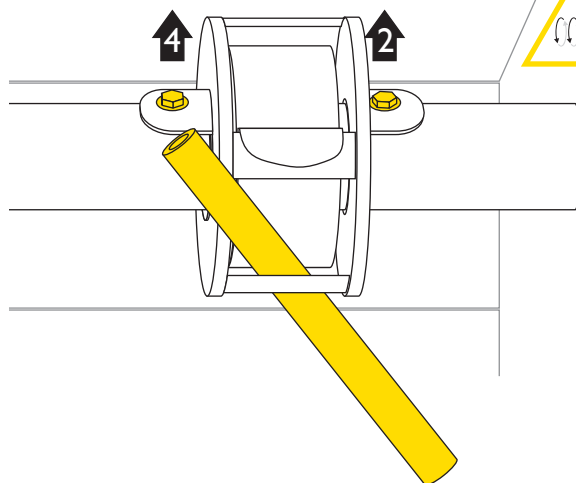
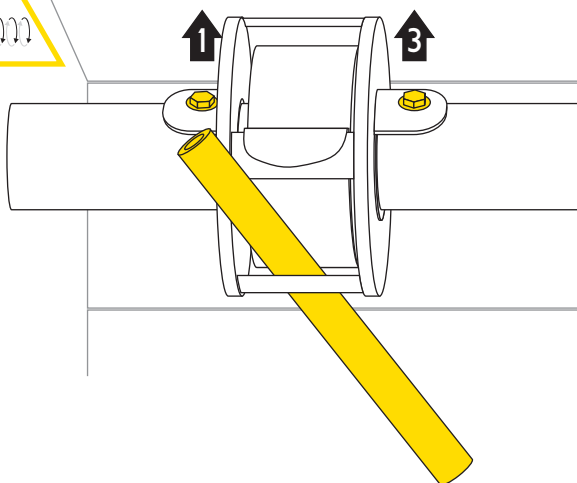
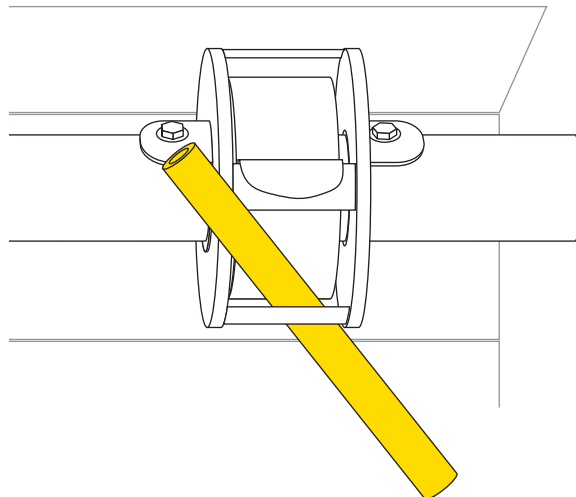
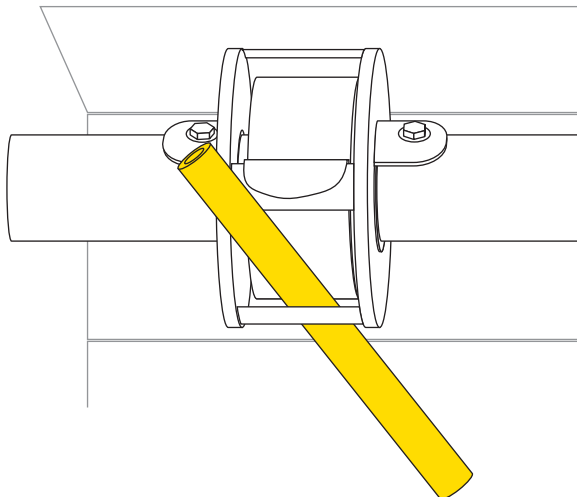
Usar uma barra de ferro para segurar o tambor

Usar una barra de hierro para asegurar el tambor

Utiliser une barre d'acier pour bloquer le tambour

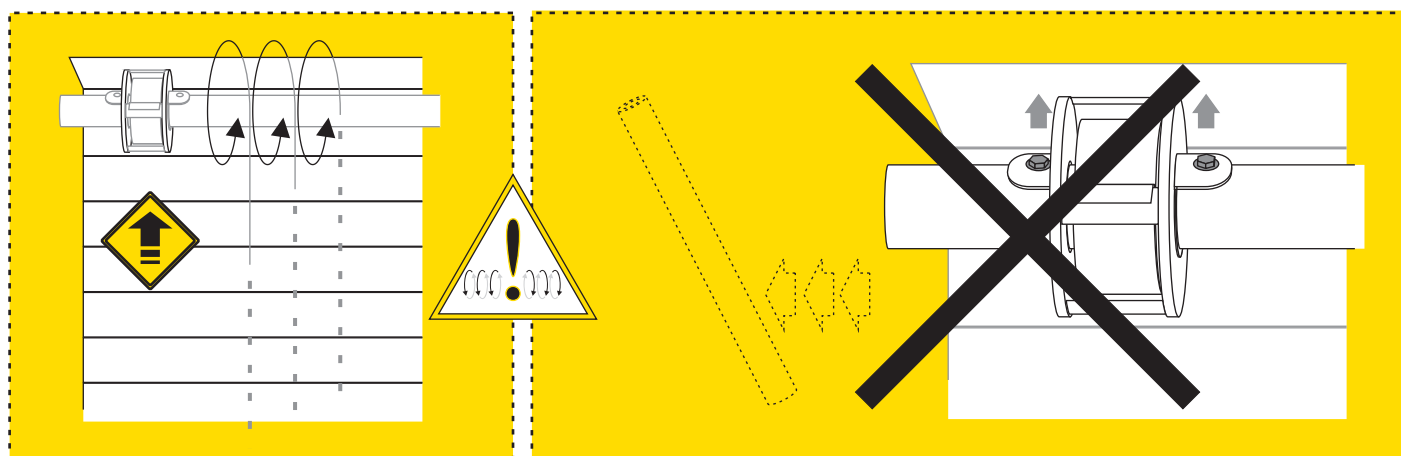
Use a steel bar to prevent the drum from spinning

15)

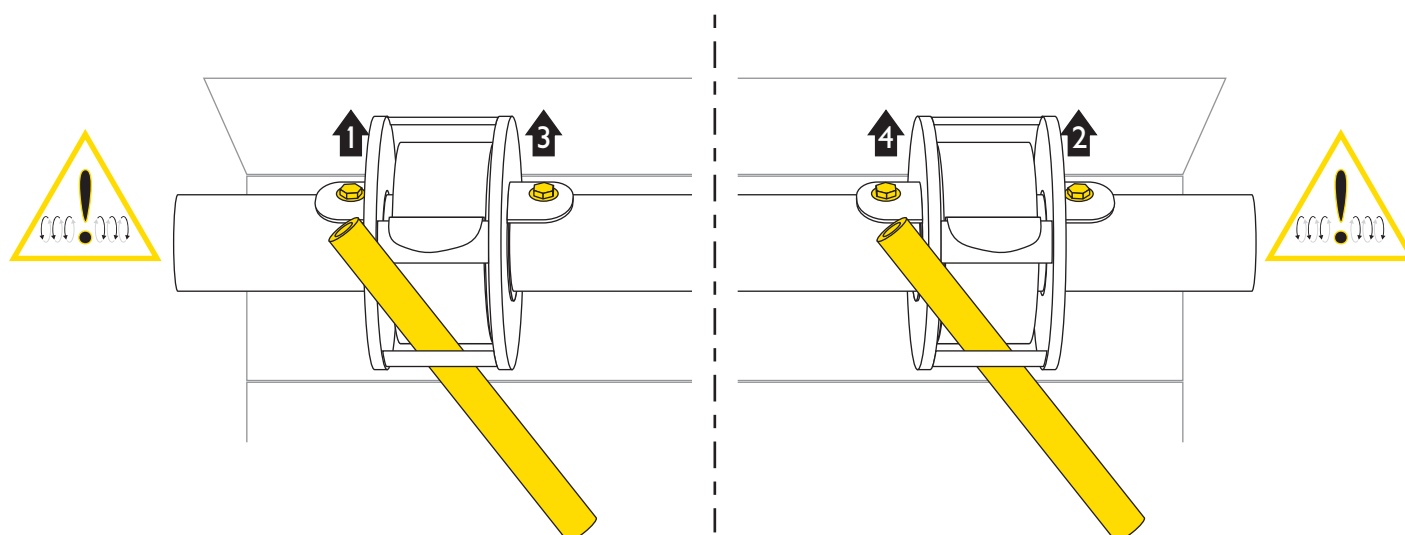


Accionamento das molas
 Accionamiento de los muelles
 Opération des ressorts
 Releasing spring devices

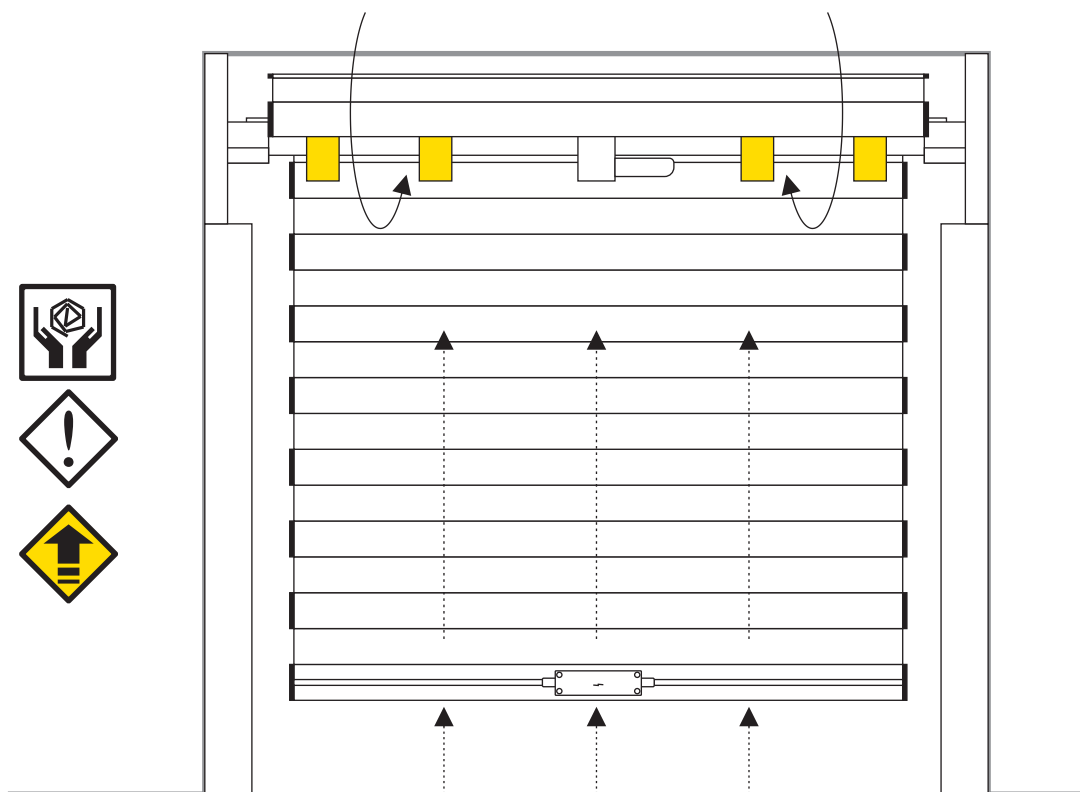
(pano separado
 lamas apartadas
 tablier détaché
 detached curtain)



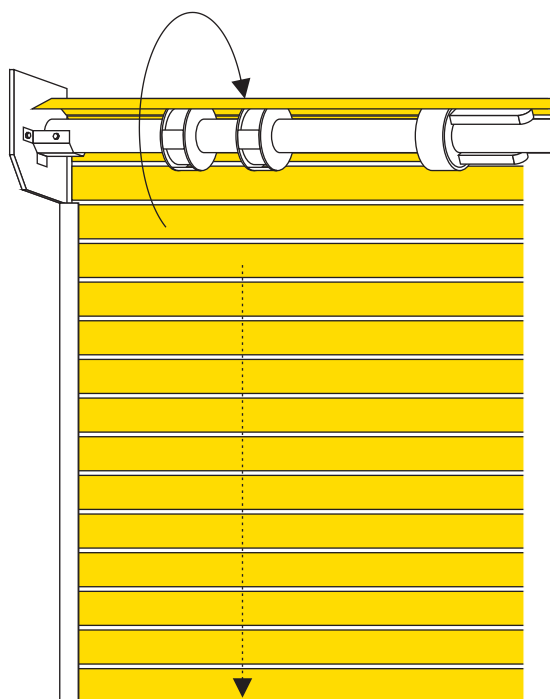
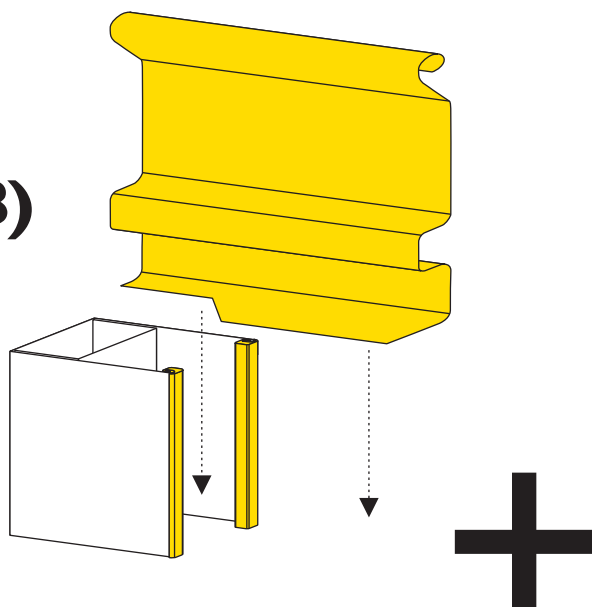
16)



17)



18)

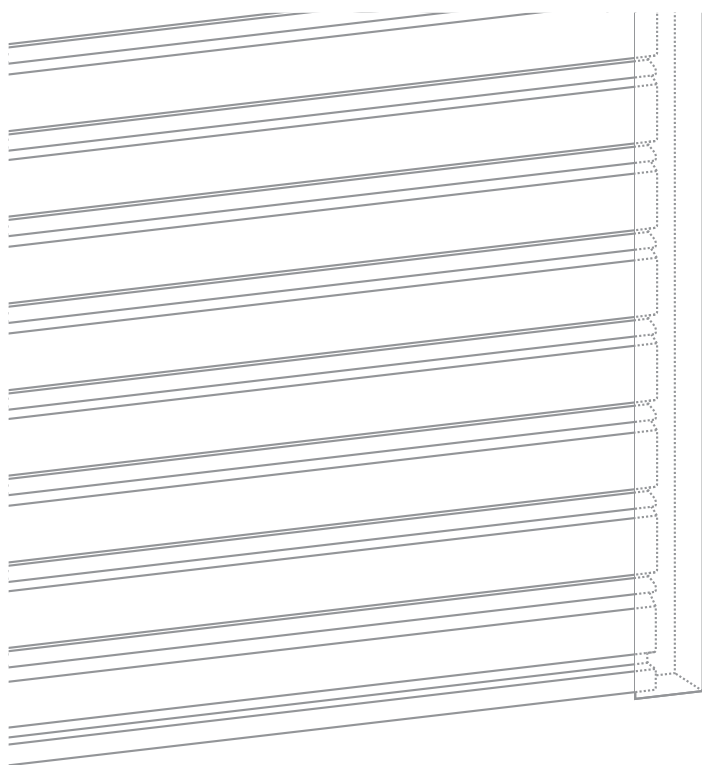


Acabamento da grade

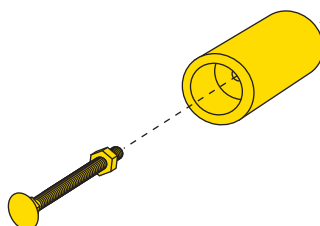
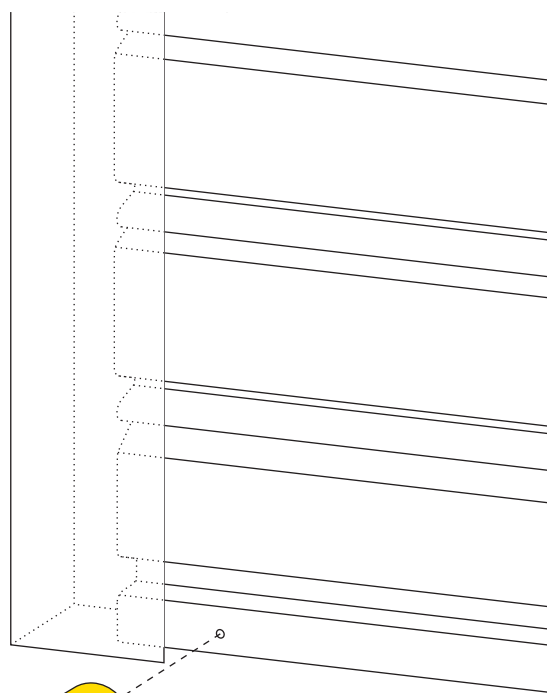
Acabamiento de la puerta

Finition de la porte

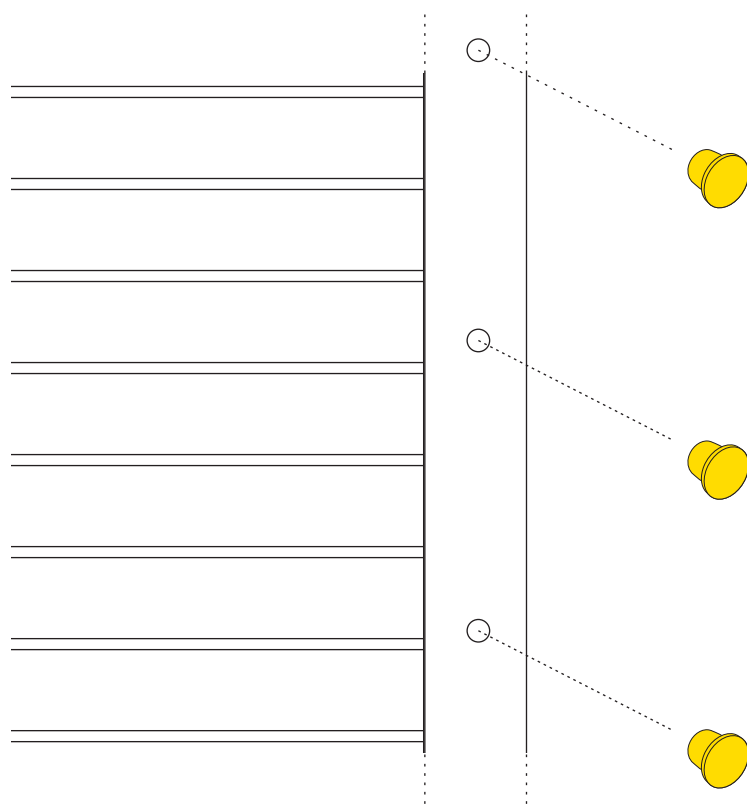
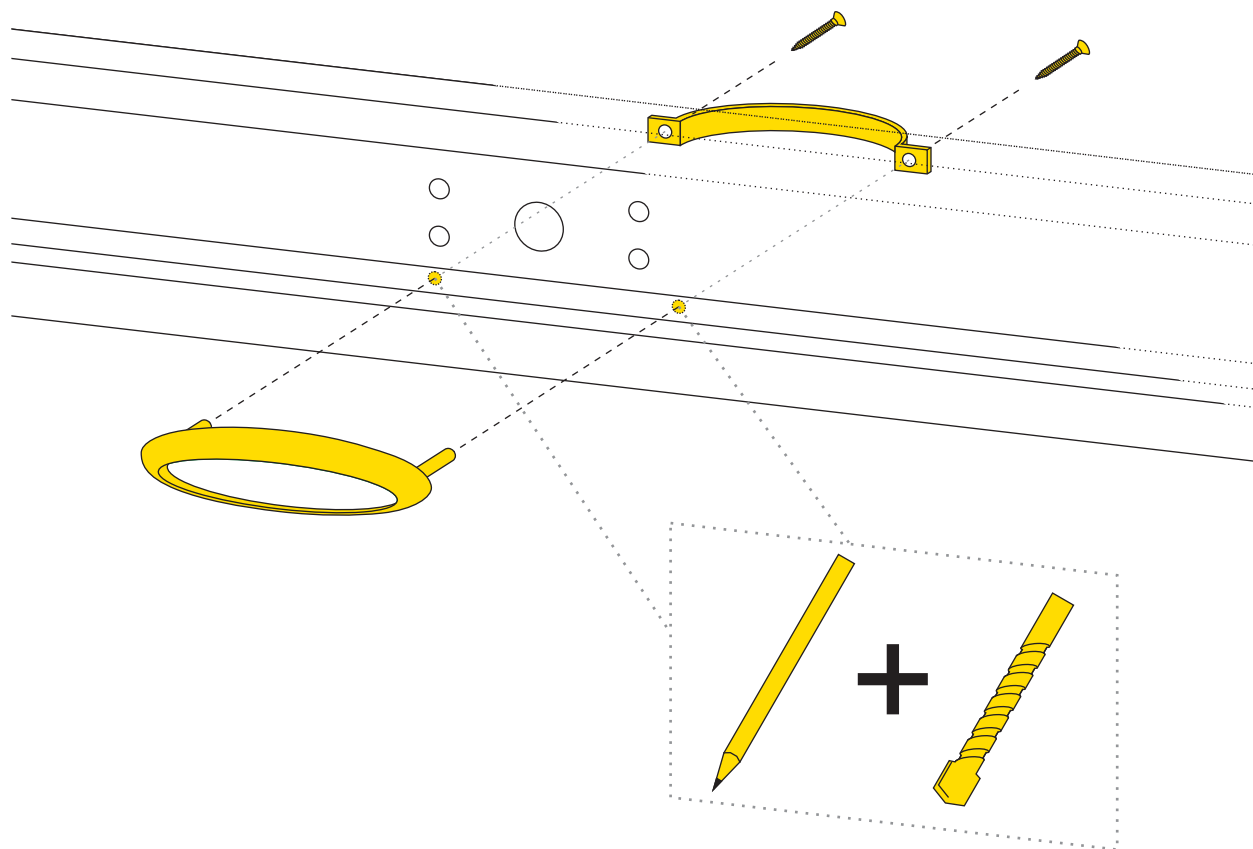
Finishing assembly



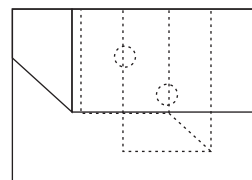
19)



20)



21)



Só quando: Fora de Vão
Solamente quando: Fuera de Luz
Juste quand: Hors Baie
Only when: Overlapping Span

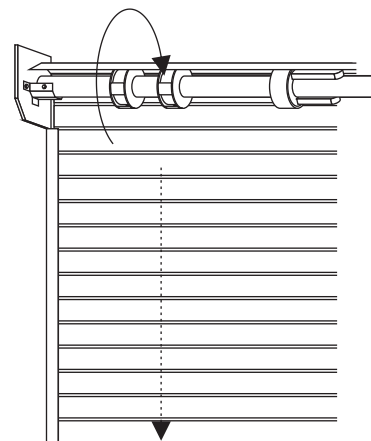
Ligação e afinação do motor

Conexión y ajuste del motor

Connexion et réglage du moteur

Powering and tuning

22)



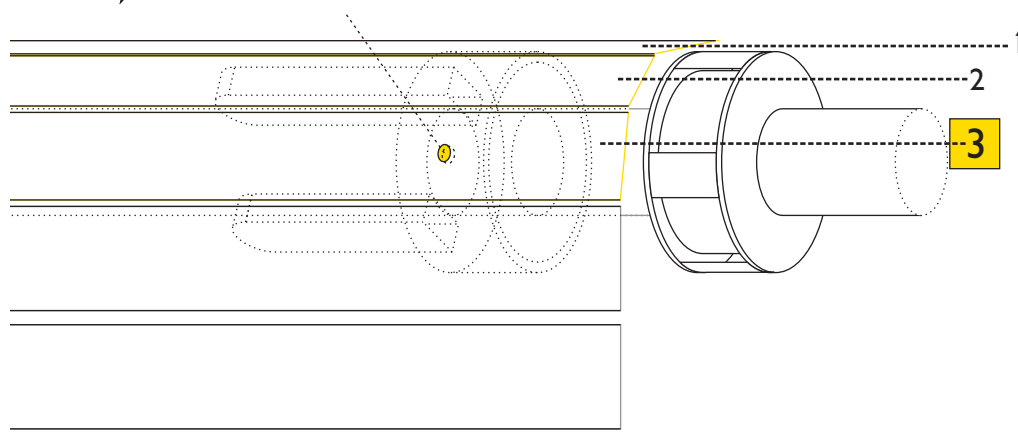
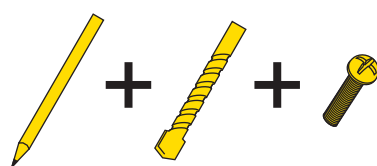
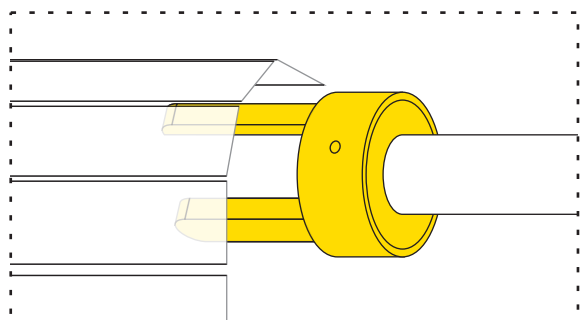
23a)

pano montado

rolo entero

tablier composé

attached curtain



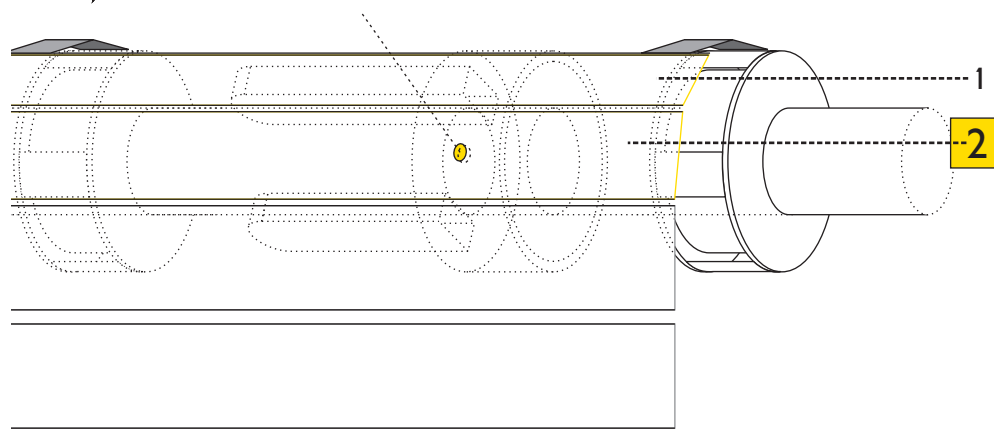
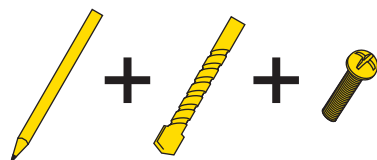
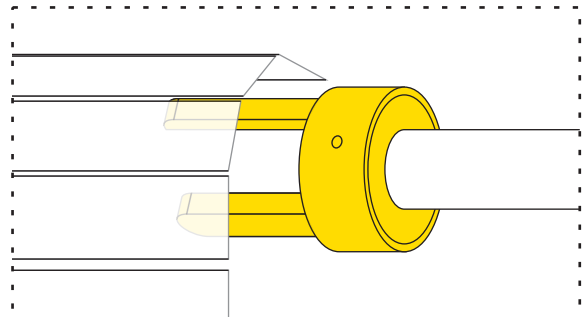
23b)

pano separado

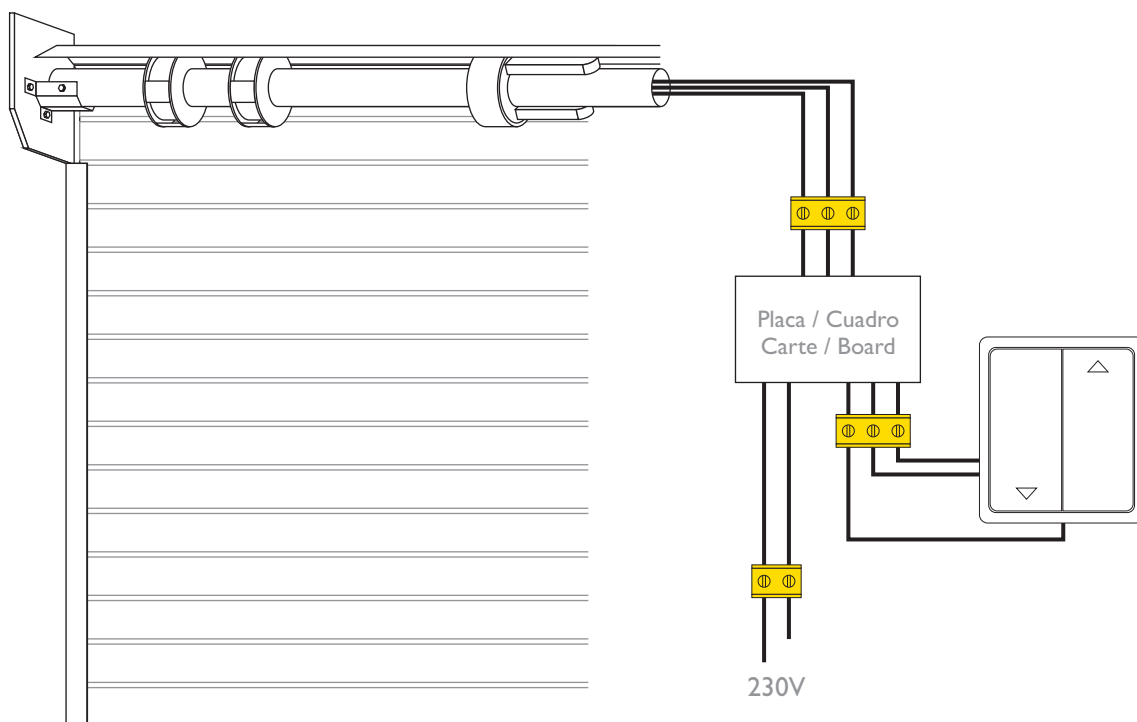
laminas apartadas

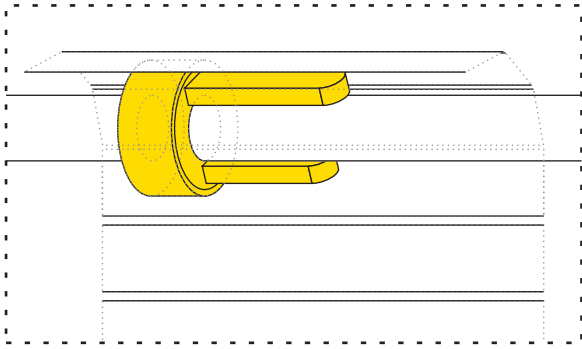
tablier détaché

detached curtain

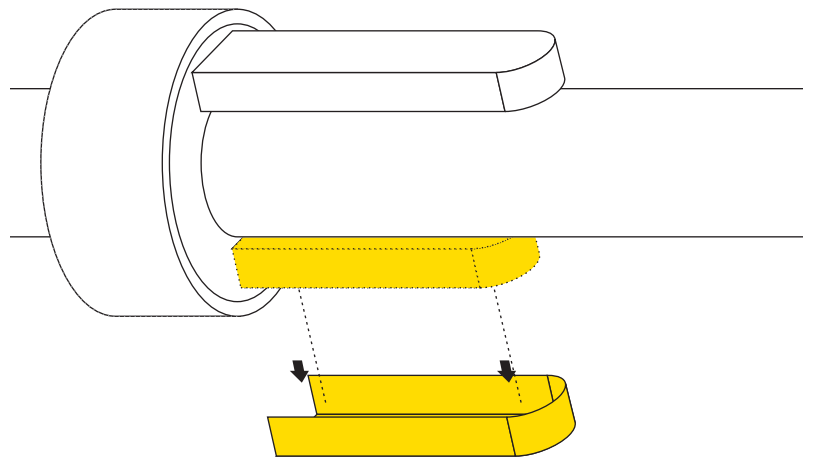


24)

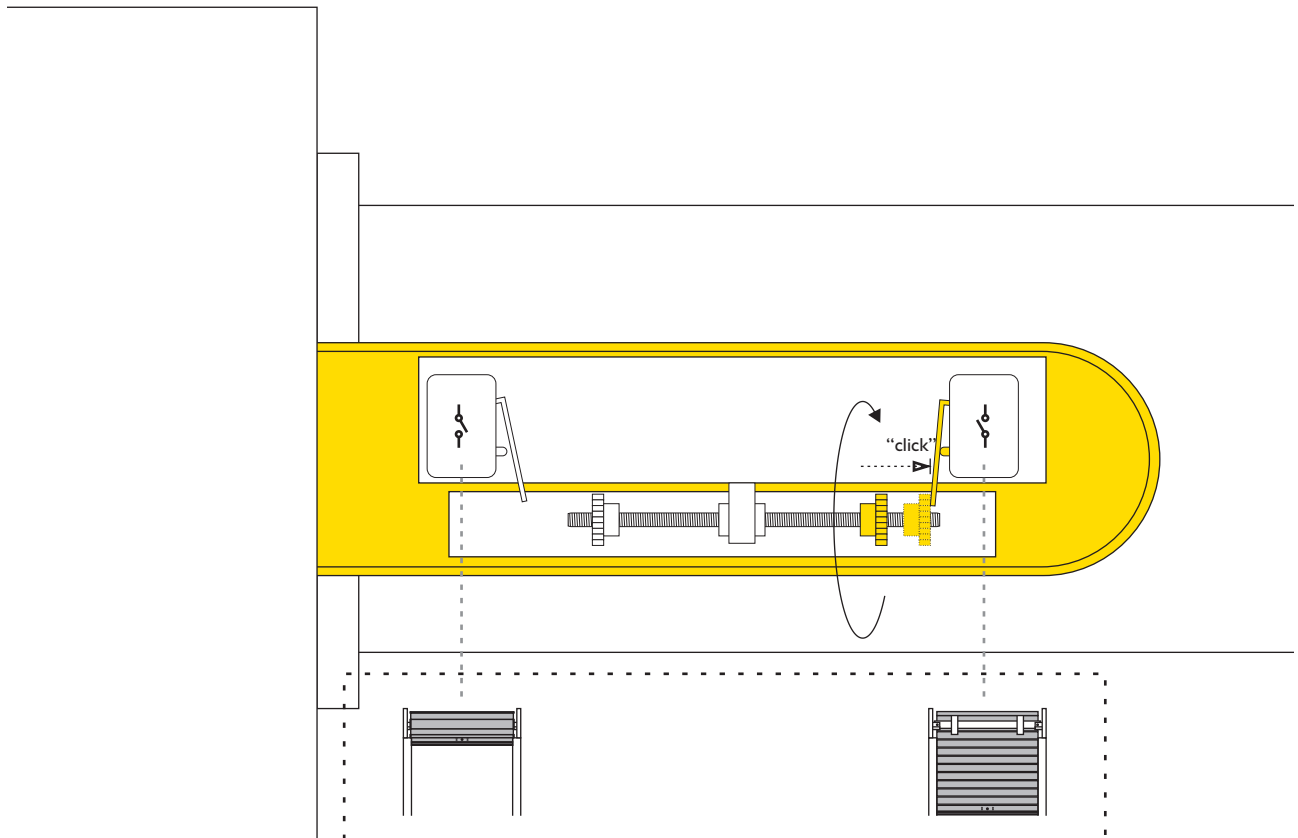




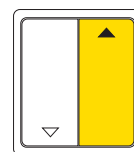
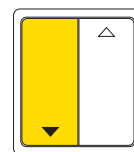
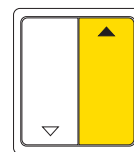
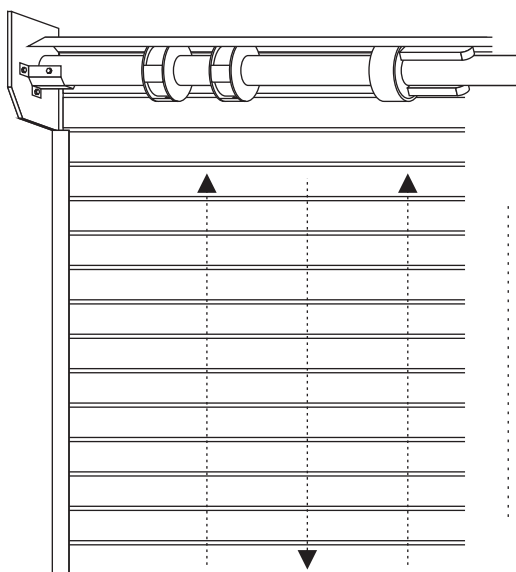
25)



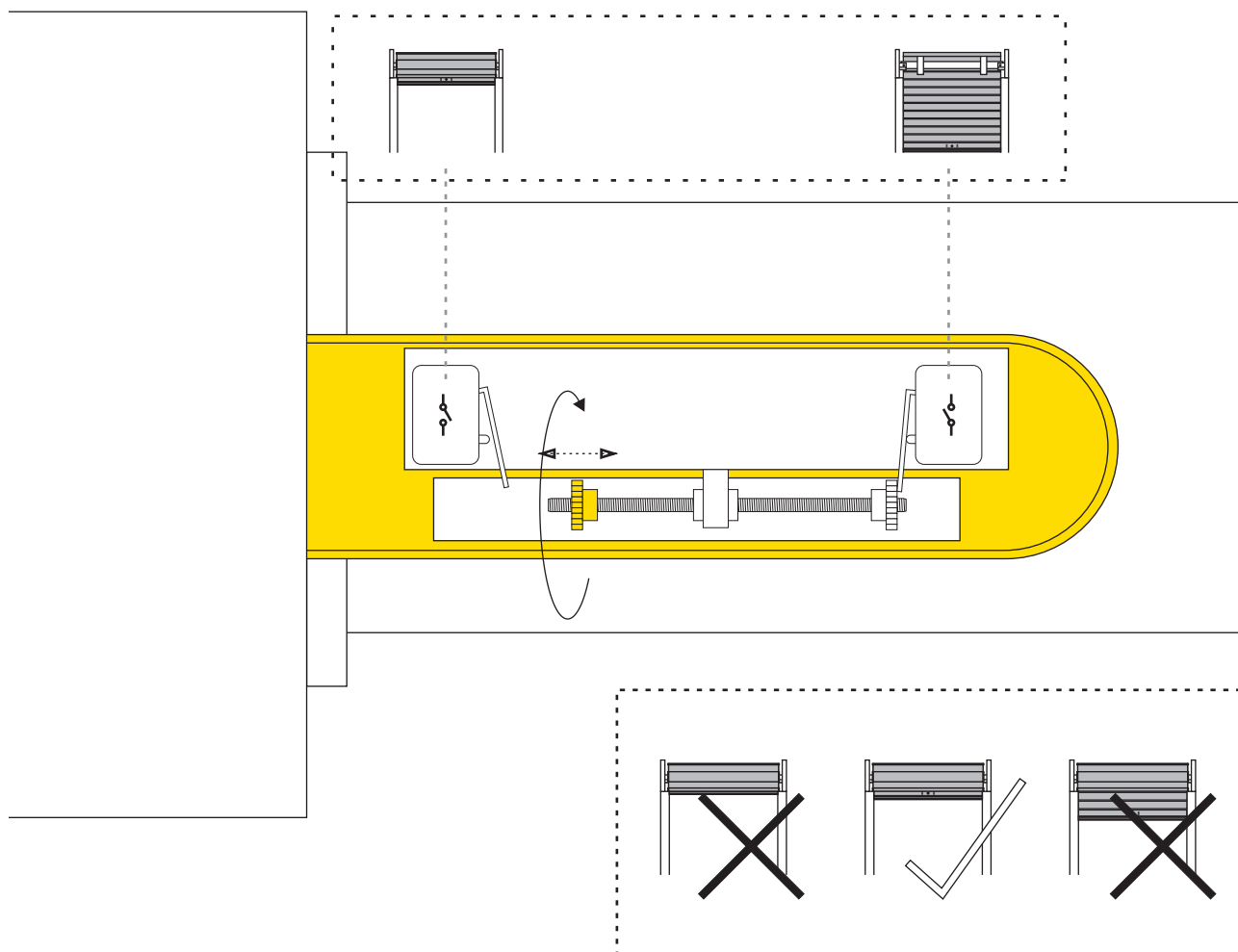
26)



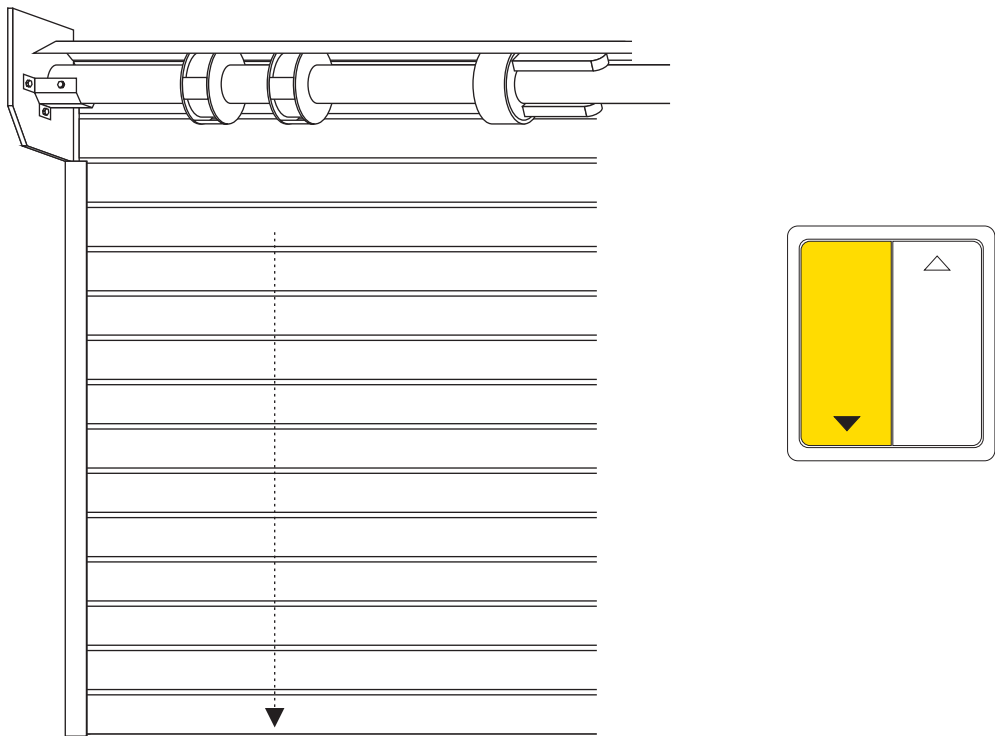
27)



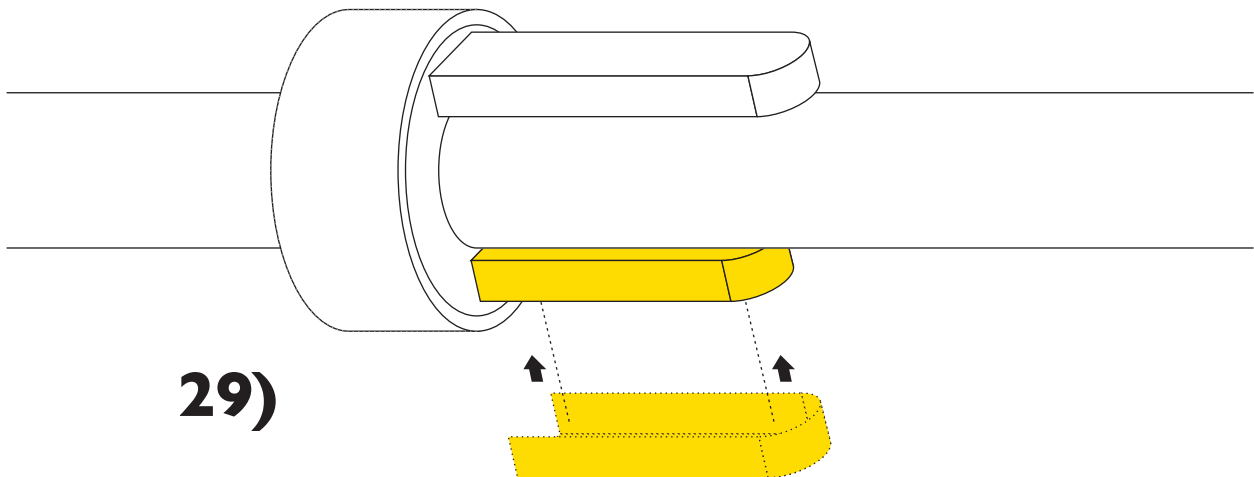
...



28)



29)



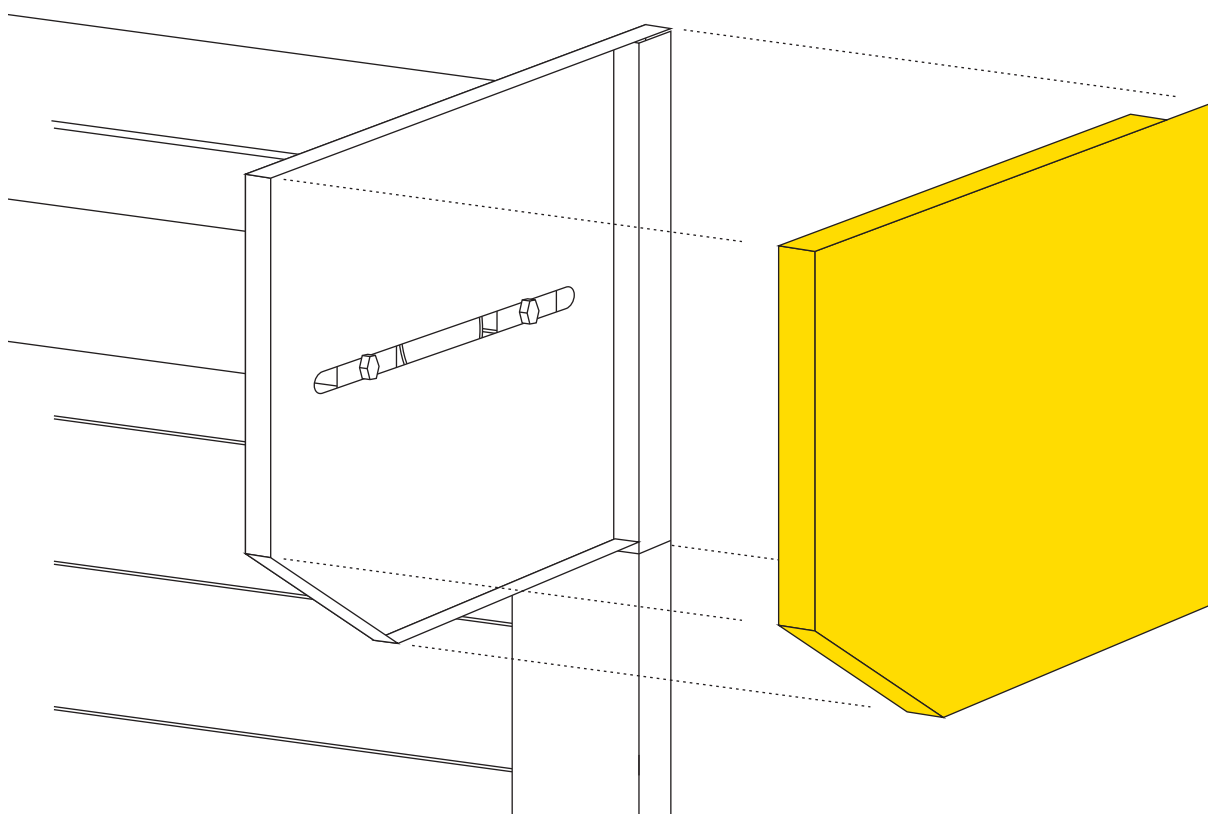
Instalação da caixa

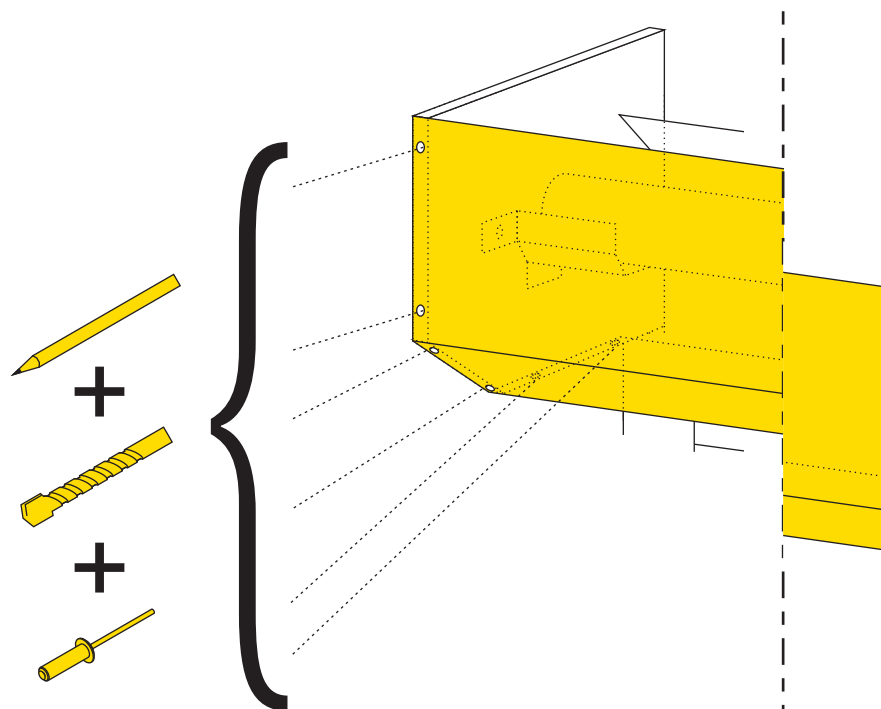
Instalación del cajón

Assamblage du caison

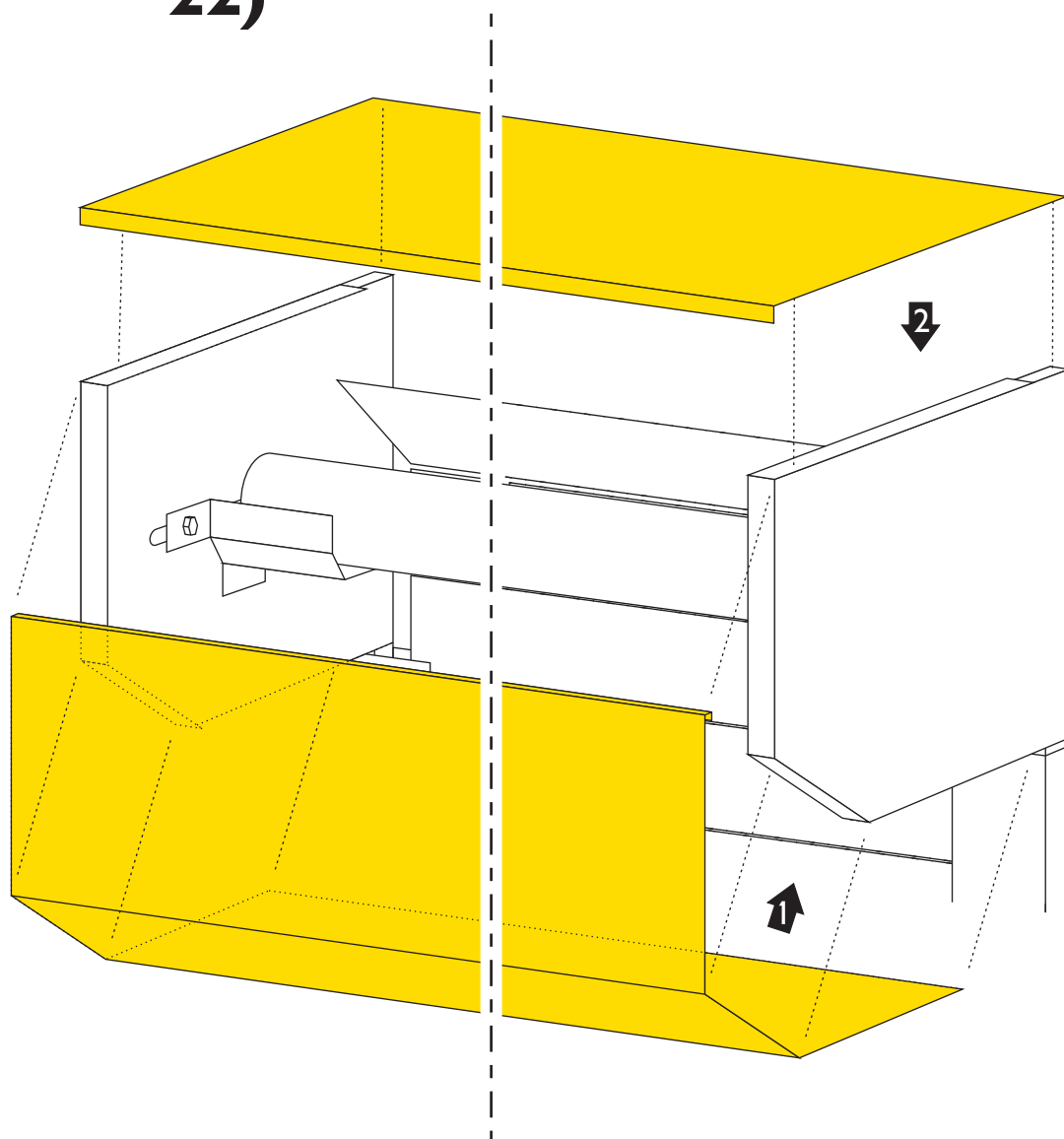
Barel case assembly

21)

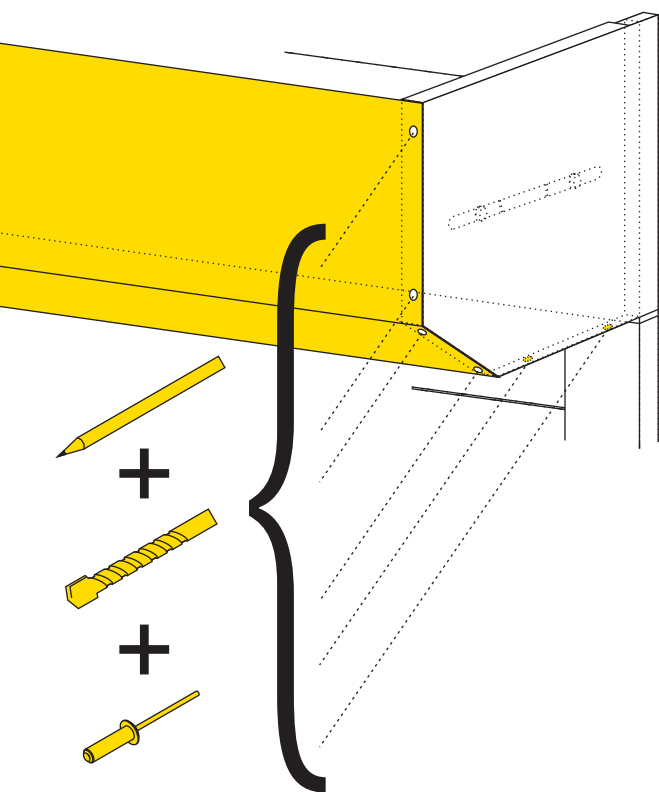




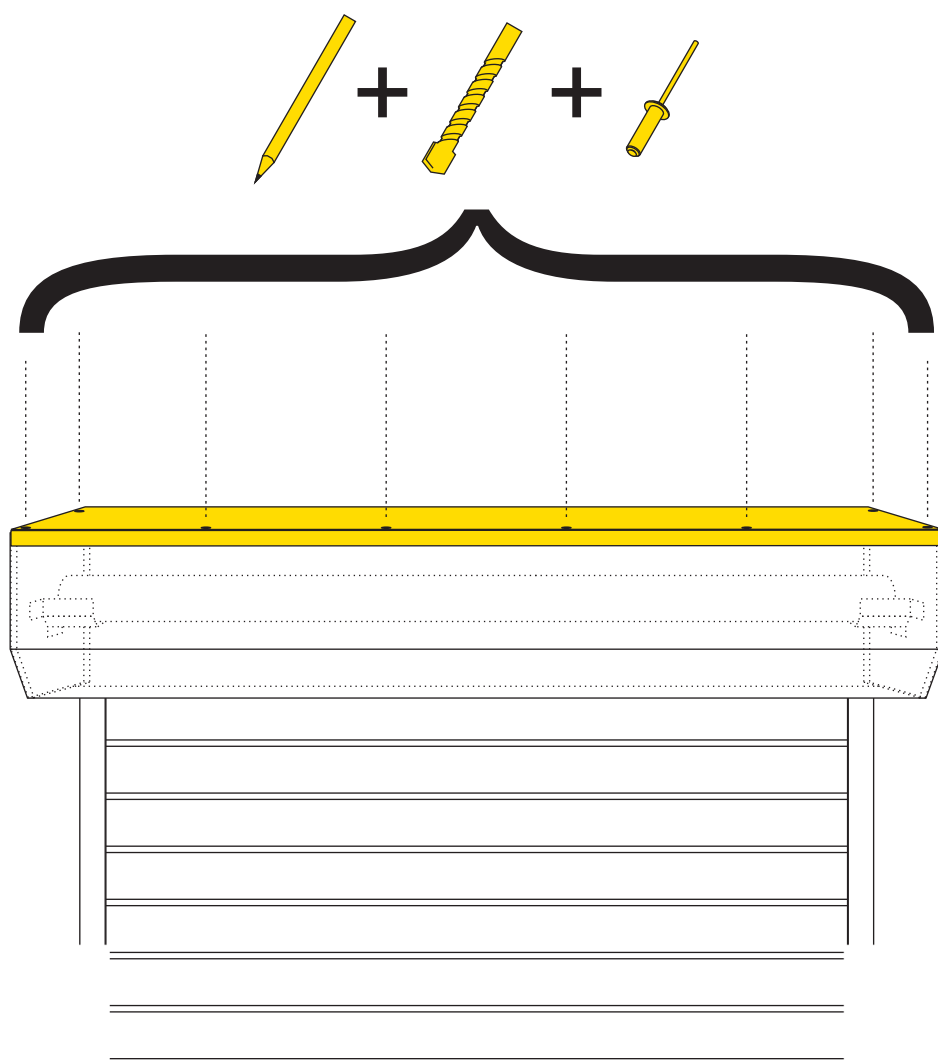
22)



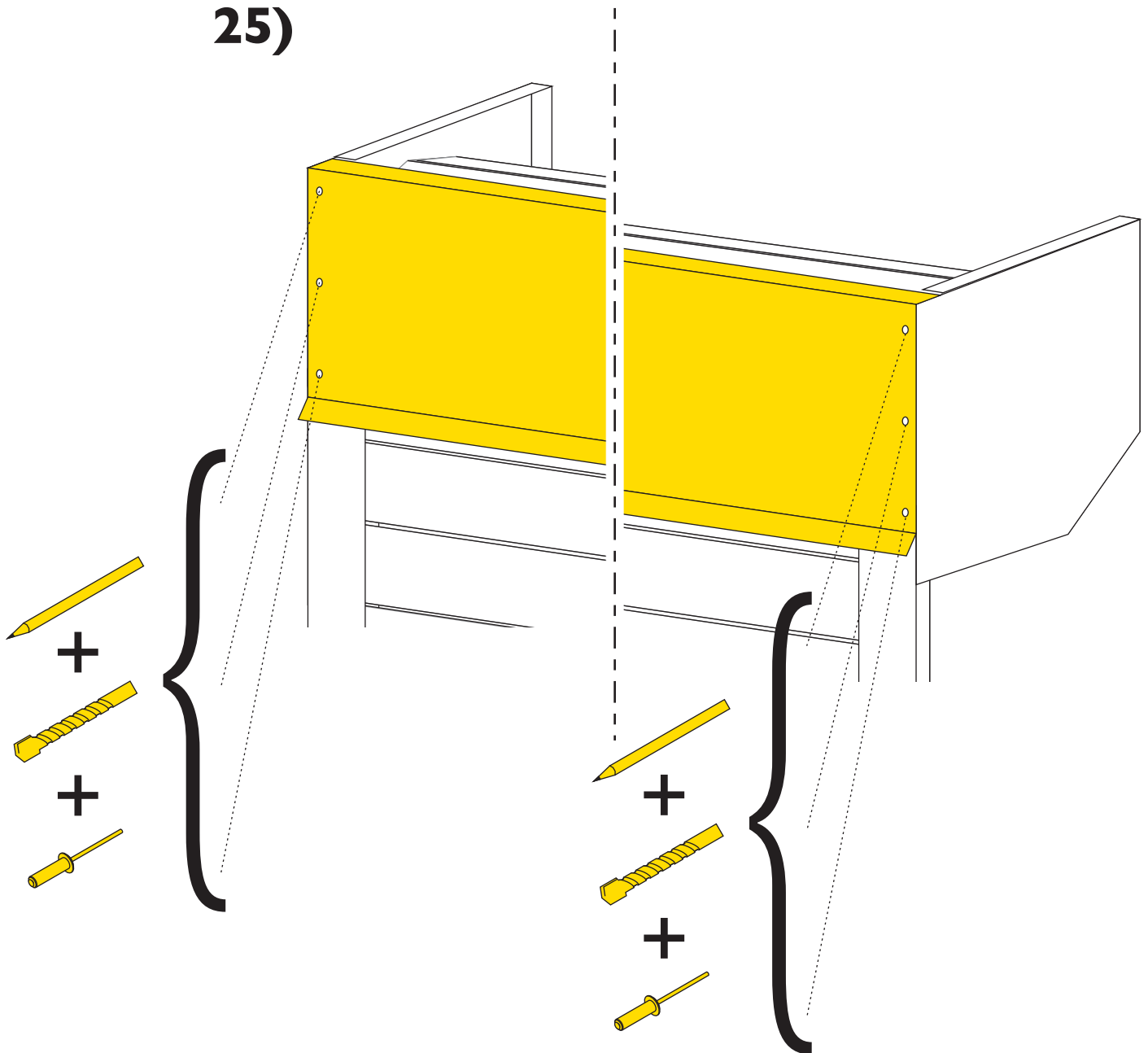
23)



24)



25)



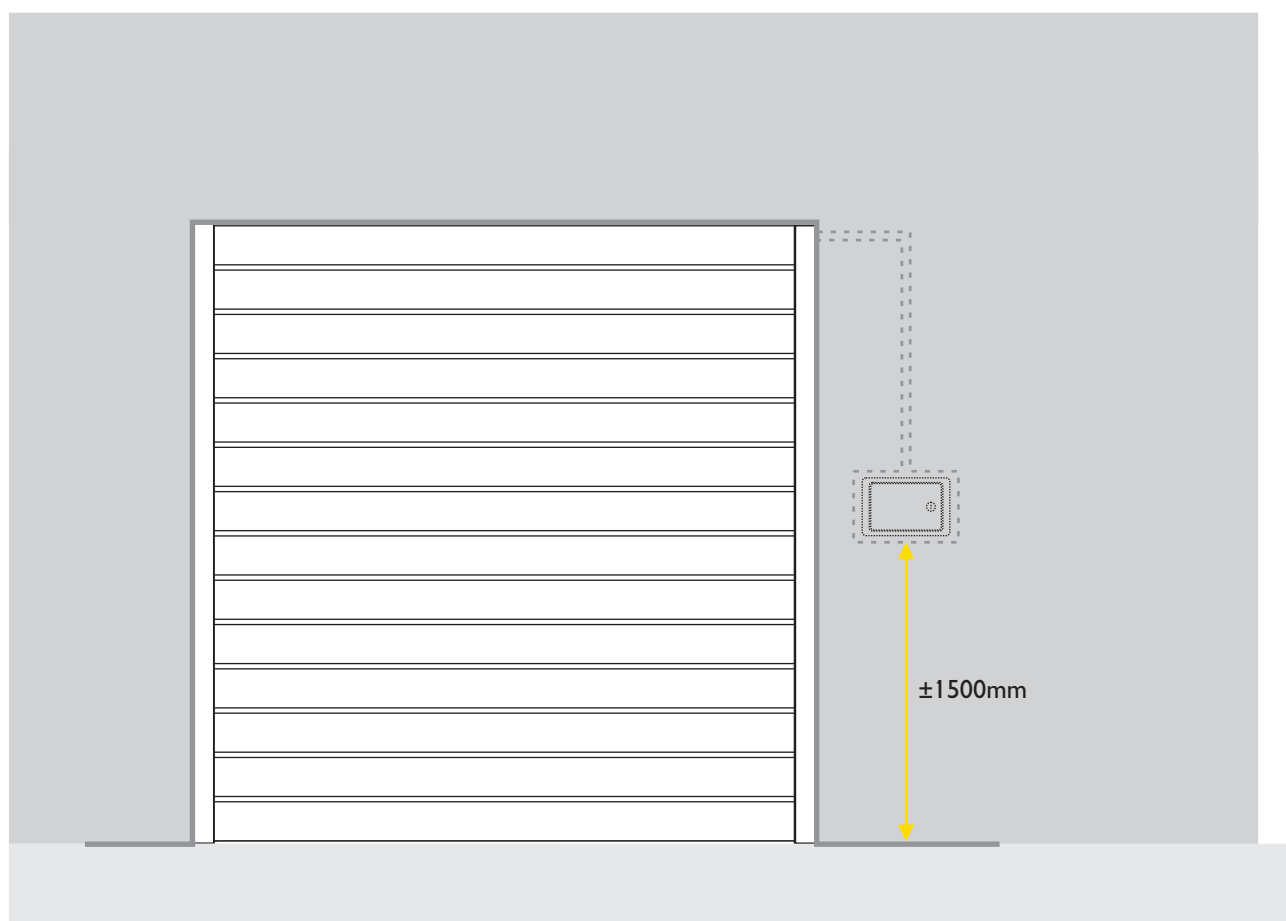
Instalação da caixa-cofre/desembraiador

Instalación de la caja-fuerte/

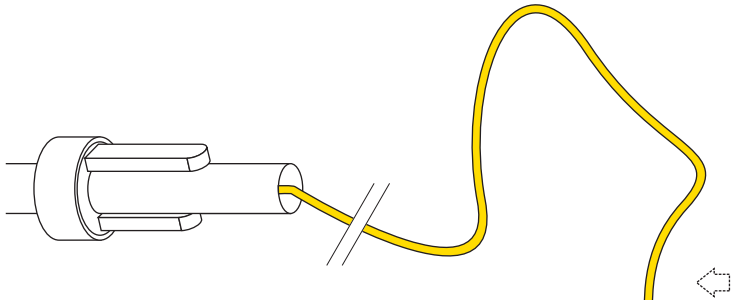
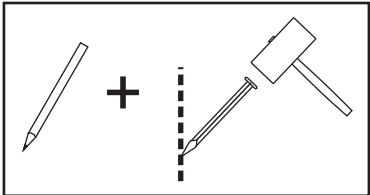
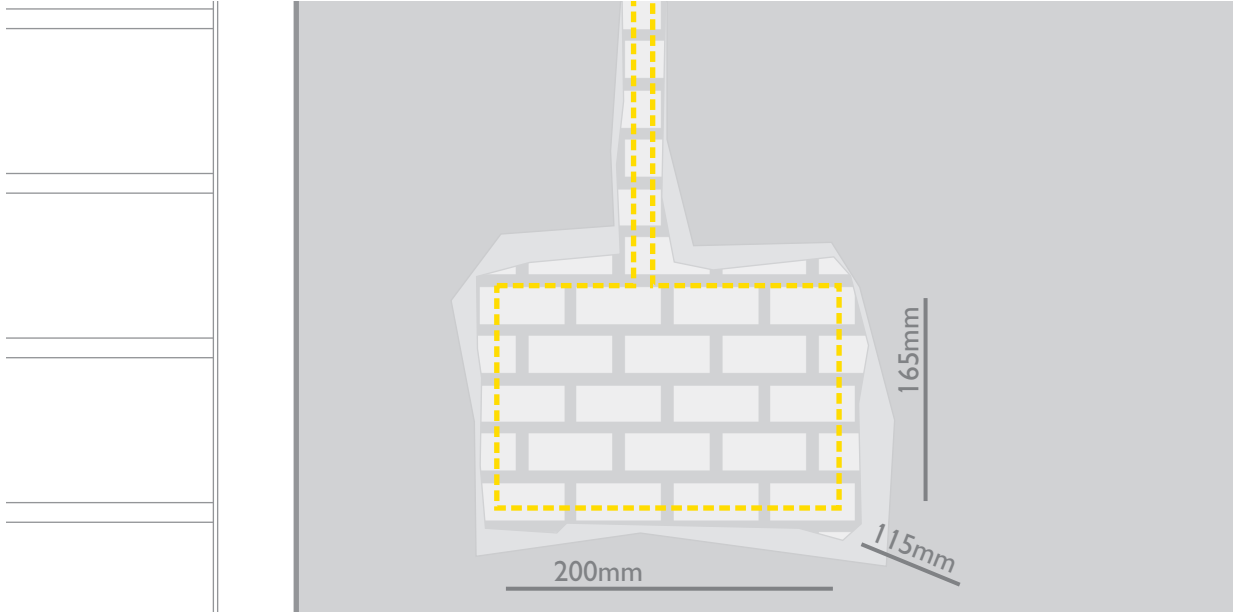
Installation du coffre-fort/

Assembling safe box/

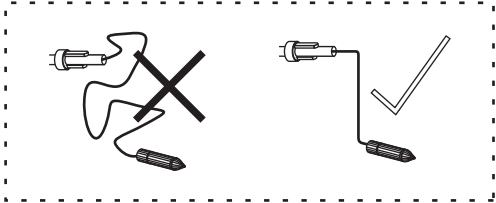
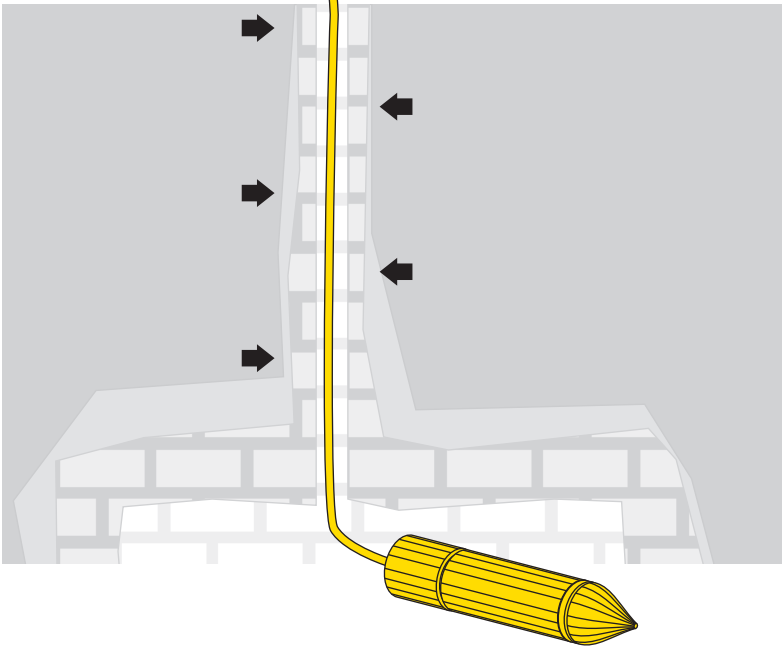
26)



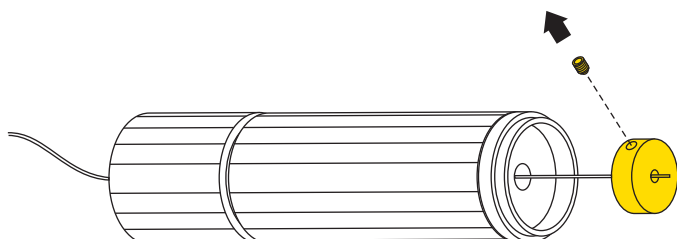
27)



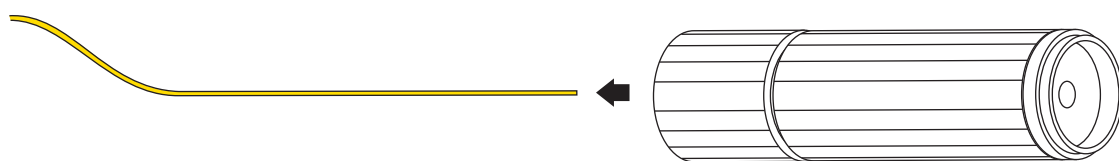
28)



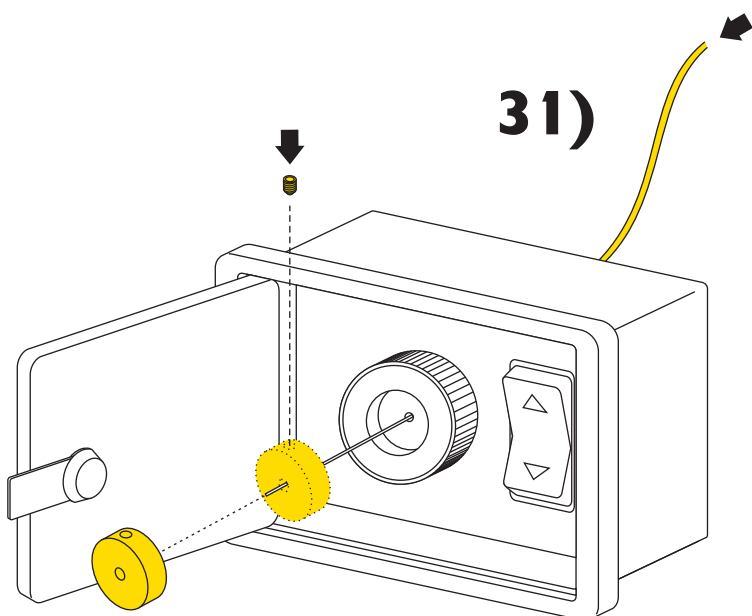
29)

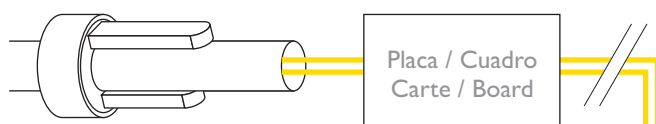


30)

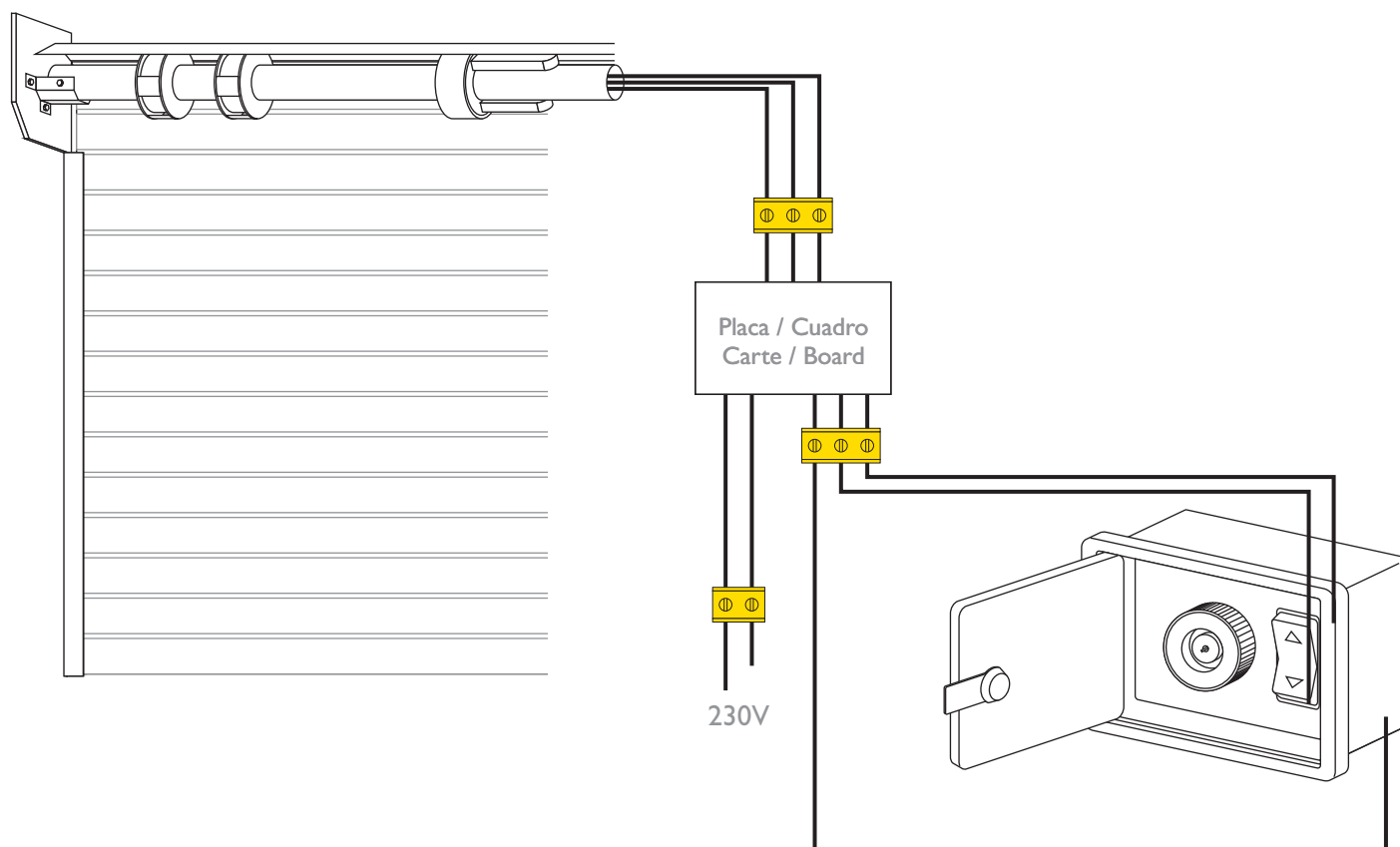
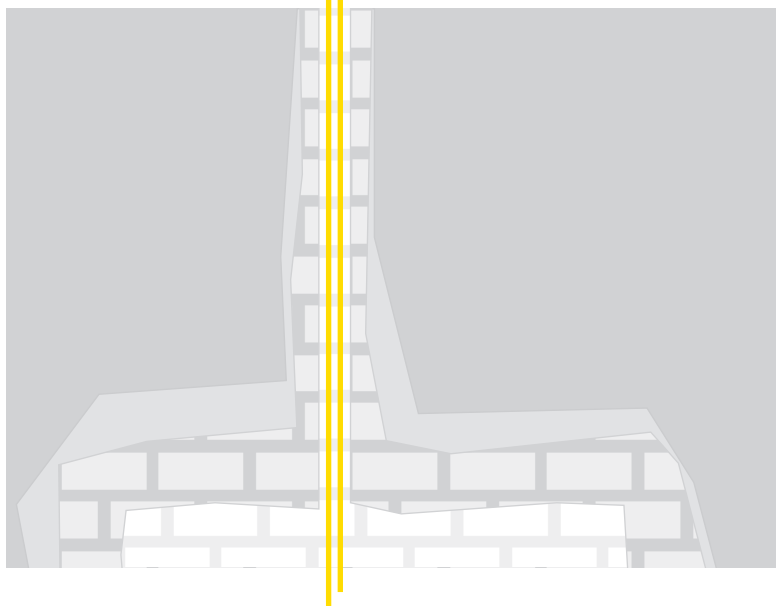


31)

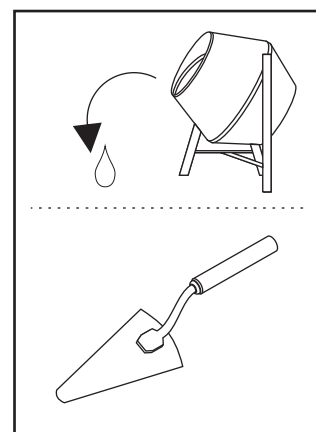
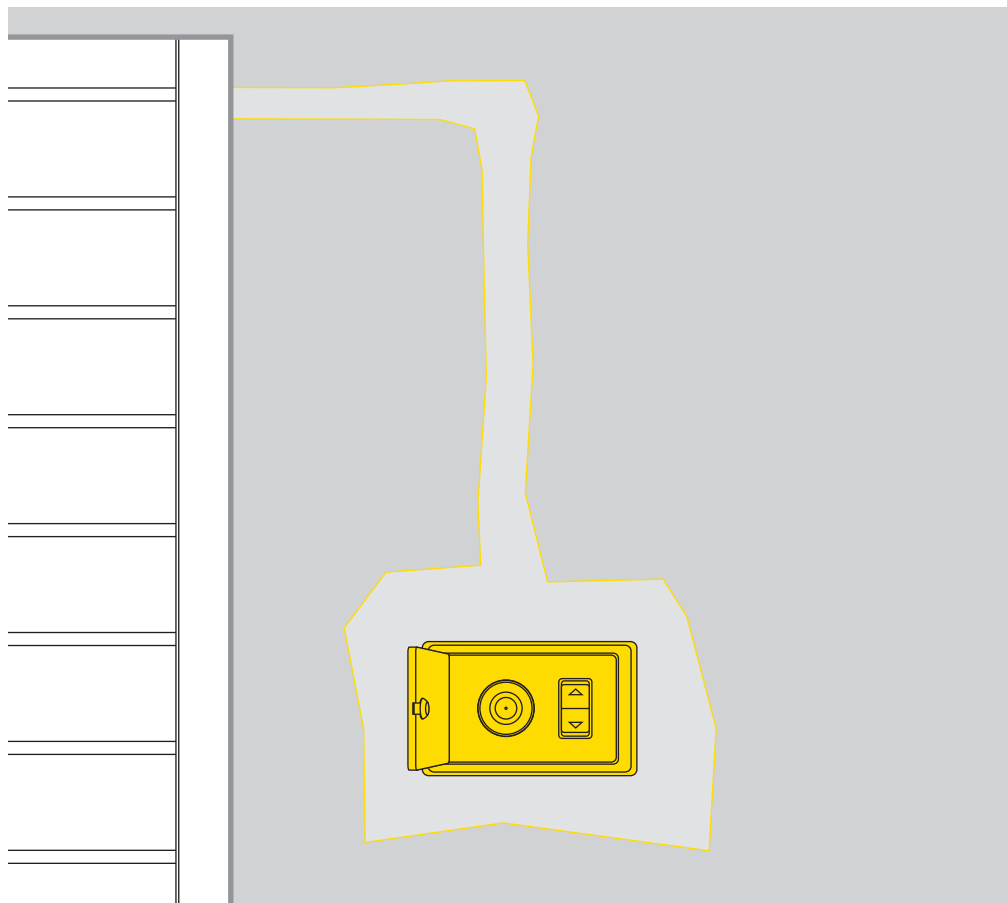




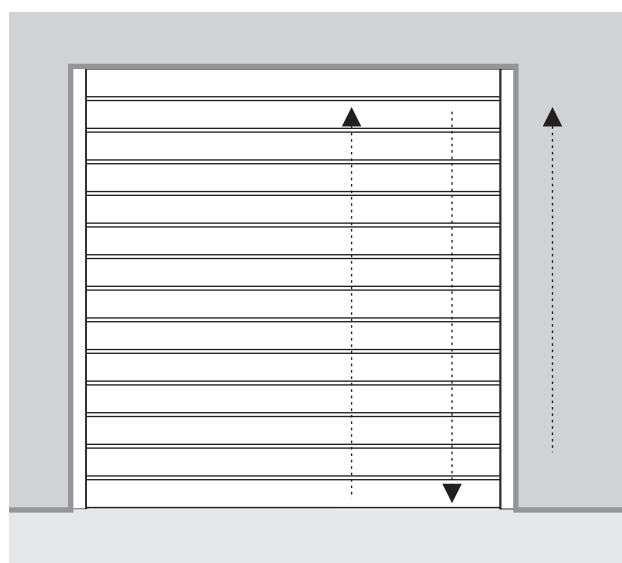
32)



33)



34)



Declaração de conformidade

Declaración de cumplimiento

Déclaration de conformité

Statement of compliance



INDÚSTRIA DE PERFIS E PORTAS, SA

DECLARAÇÃO DE CONFORMIDADE



CE Declaration of Conformity

Eu, Luís Manuel Gaspar dos Santos representante legal da sociedade LM Perfis – Indústria de Perfis e Portas, S.A. declaro que os seguintes produtos:

I, Luis Manuel Gaspar dos Santos, legal representative of the company LM Perfis – Indústria de Perfis e Portas, SA, declare that the following products:

- **Grade de Enrolar Residencial – Modelo Ecorol – Sist. Molas de Fita**
Residential steel rolling shutter balanced with steel springs - Ecorol model
- **Grade de Enrolar Industrial – Sist. Molas Fita – Modelos A12, BP90 Alumínio, BP90 Chapa, EX80**
Industrial rolling shutter balanced with steel springs – Models A12, BP90 Aluminium, BP90 Steel, EX80

Estão em conformidade com a Directiva 89/106/CEE, segundo a norma harmonizada EN13241-1, certificado pelo organismo Notificado CSI S.p.A. (Registo n.º CPD/0497/106/05) sediado em V.le Lombardia, 20, 20021 Bollate, Itália, de acordo com os seguintes requisitos da norma de referência:
are in accordance with CE Directive 89/106/CEE, and conform with the standard EN13241-1, certified by the notified office CSI S.p.A. (Register nr. CPD/0497/106/05), based in V.le Lombardia, 20, 20021 Bollate, Italy, in respect to following requirements of the standard:

- Controlo de Produção da Fábrica (CPF), segundo NP EN ISO 9001:2008	Conforme
- Factory Production Control (FPC), according with the standard NP EN ISO 9001:2008	Conform
- Não emissão de Substâncias perigosas	Conforme
- Release of Dangerous substances	Conform
- Segurança de abertura	Conforme
- Safe opening	Conform
- Resistência à carga do vento	Classe 2
- Resistance to wind load	Class 2
- Resistência Mecânica e Estabilidade	Conforme
- Mechanical Resistance	Conform
- Limitação de força	Conforme
- Operating forces	Conform
- Geometria do Vidro	Conforme
- Geometry of glass	Conform

Ansião, 30 de Julho de 2009
Ansião, 30th of July 2009

O Representante Legal
The legal representative
LM Perfis, S.A.

(Luís Manuel Gaspar dos Santos, Administrador)

