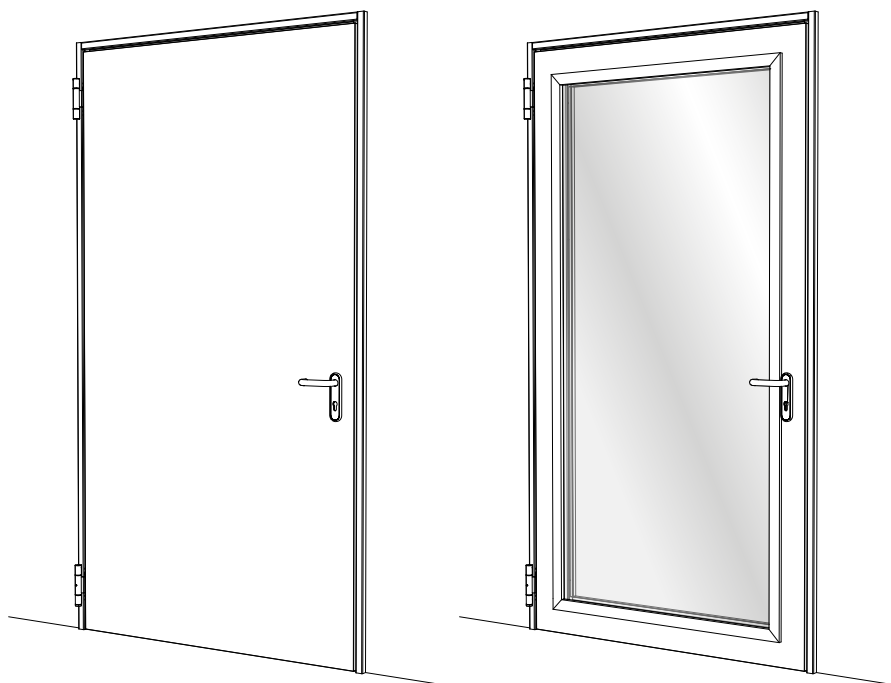


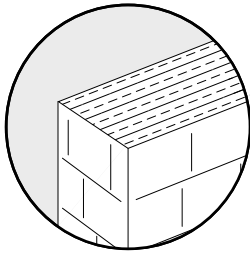


ELITE⁺ NOVOGLASS⁺



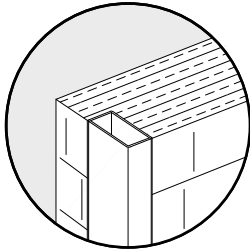
INSTALLATION AND MAINTENANCE
Installazione e manutenzione

A



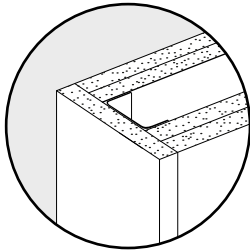
Masonry
Muratura

F



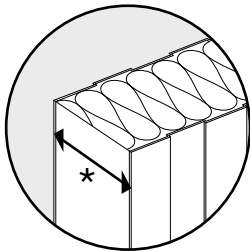
Masonry with steel pre-frame
Muratura con precassa metallica

C



Gypsum Wall
Cartongesso

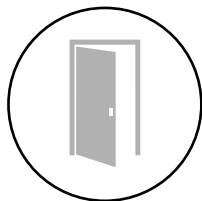
S



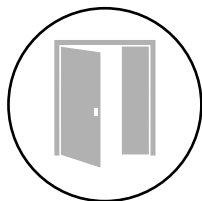
Sandwich Wall *(< 130mm)
*Parete sandwich *(< 130mm)*



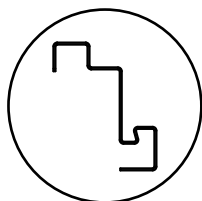
DOWNLOAD:
<https://www.novoferm.it/download.html>



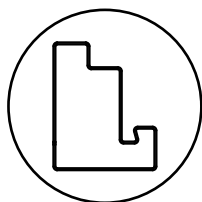
Single leaf door
Porta ad anta singola



Double leaf door
Porta a doppia anta



Standard frame
Telaio standard



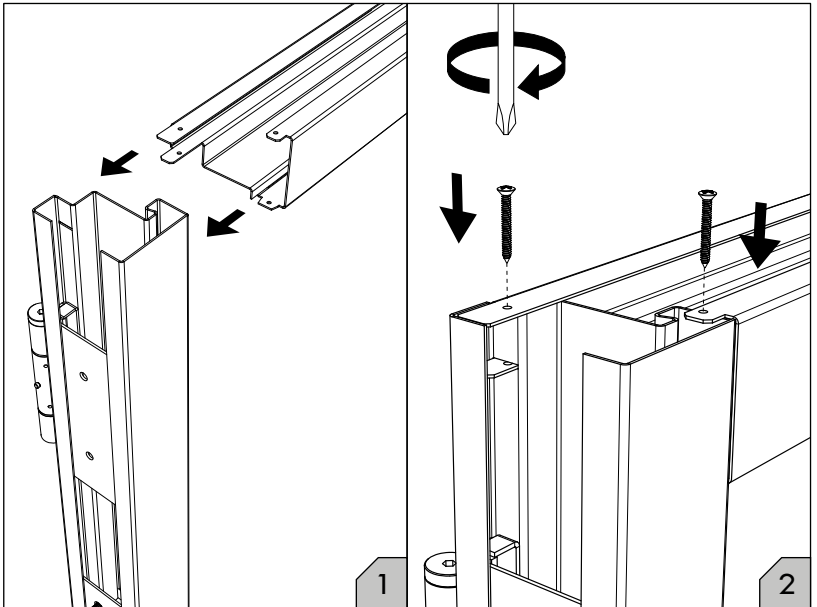
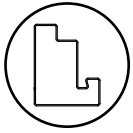
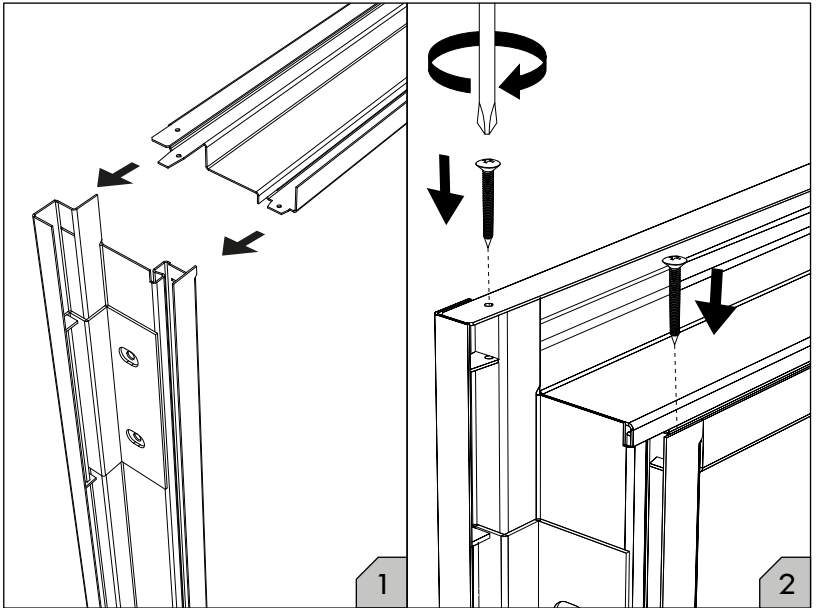
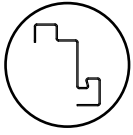
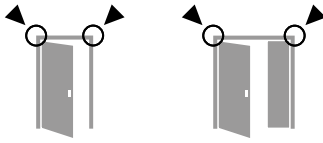
Tubular frame
Telaio tubolare

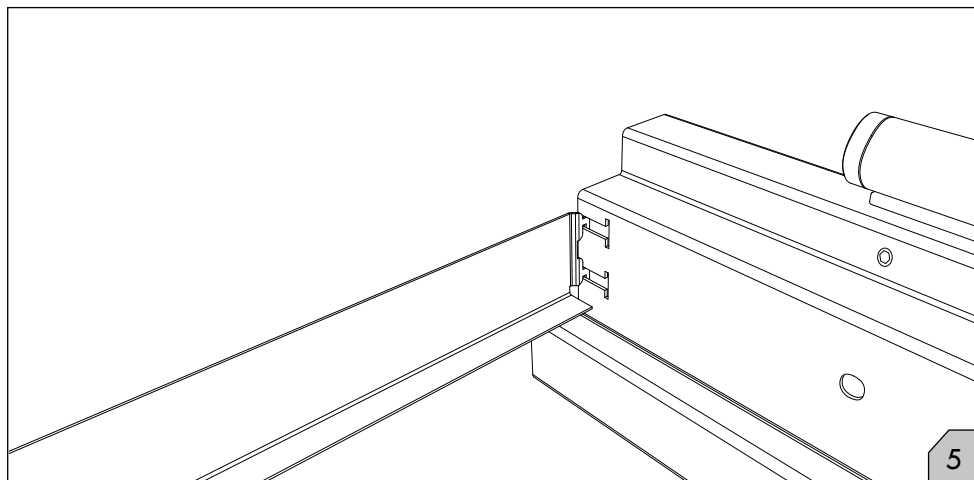
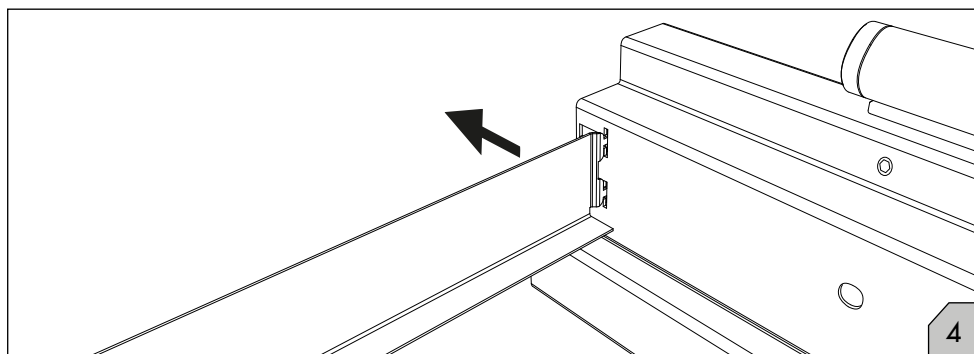
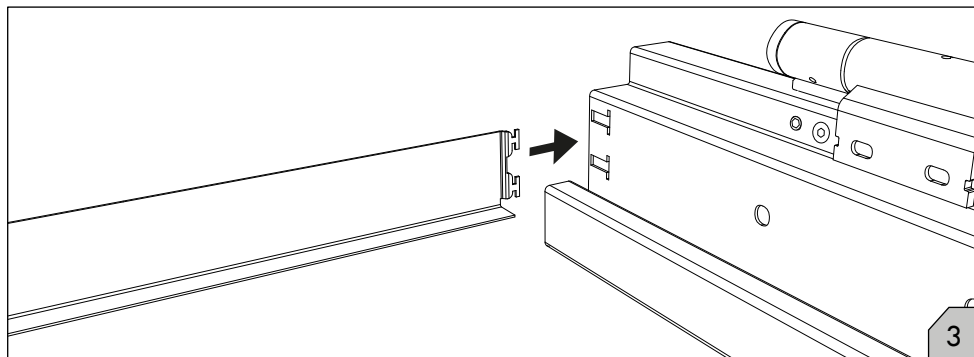


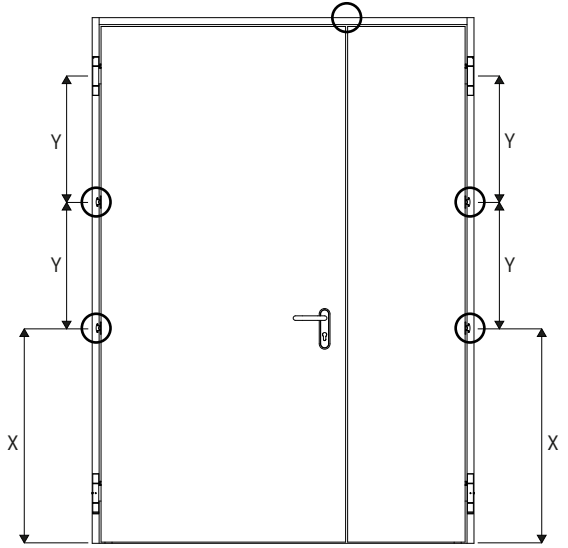
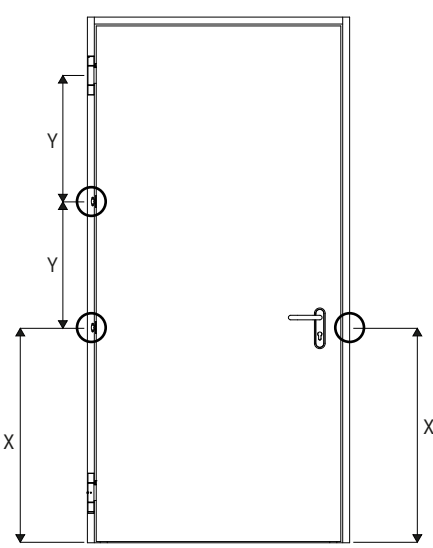
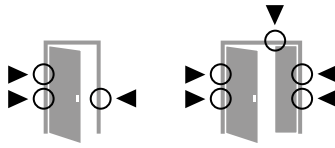
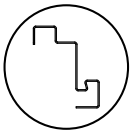
Fire resistant
Resistente al fuoco



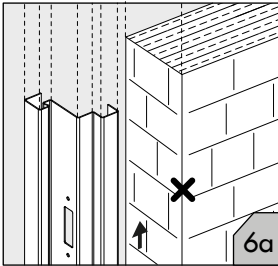
DOWNLOAD:
<https://www.novoferm.it/download.html>



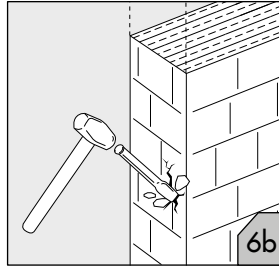




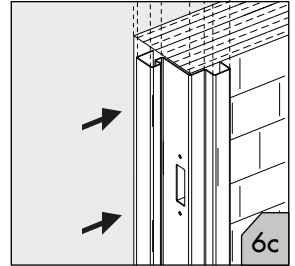
A



6a

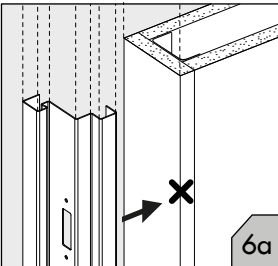


6b

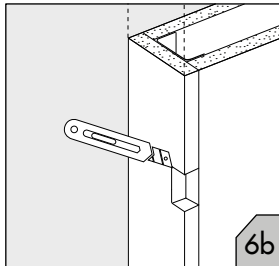


6c

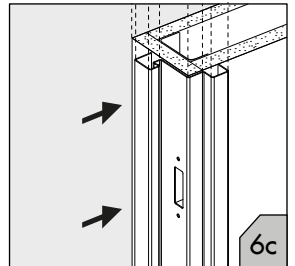
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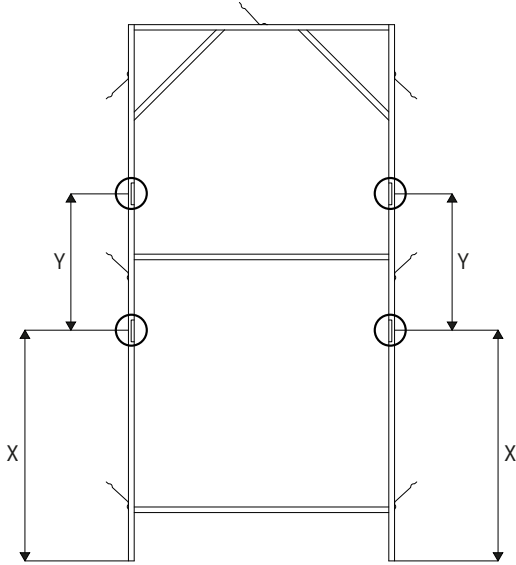
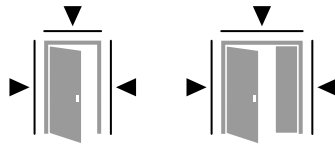
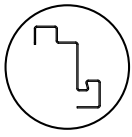
6a



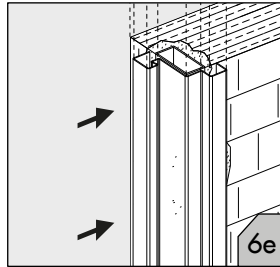
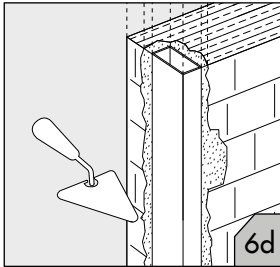
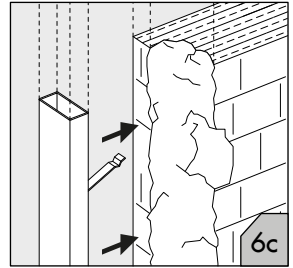
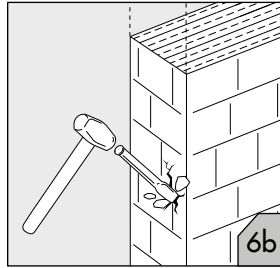
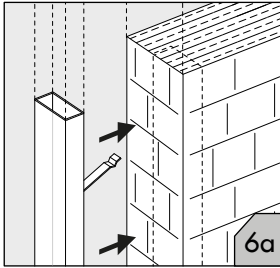
6b

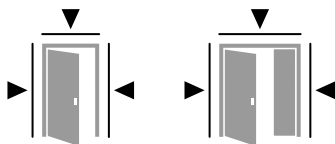
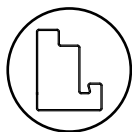


6c

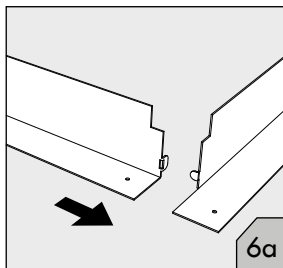


F

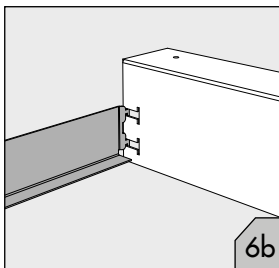




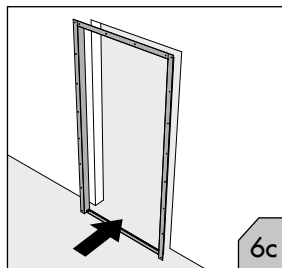
S



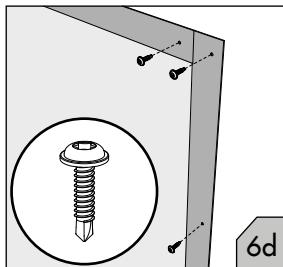
6a



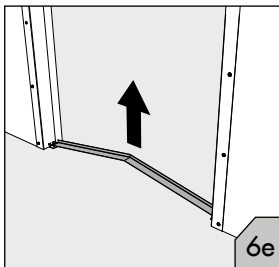
6b



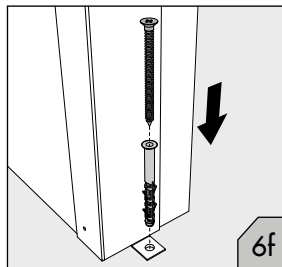
6c



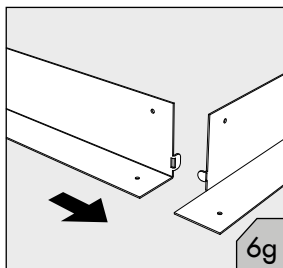
6d



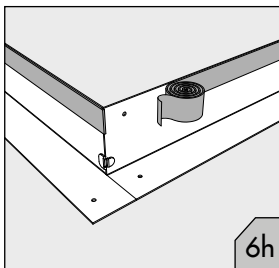
6e



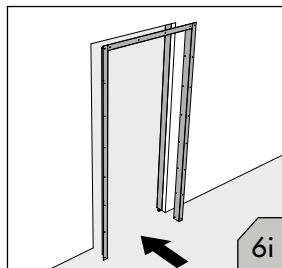
6f



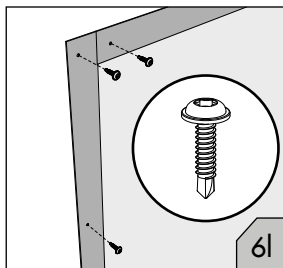
6g



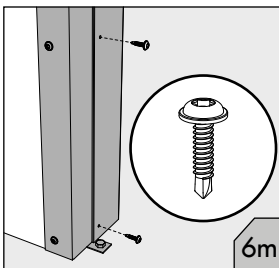
6h



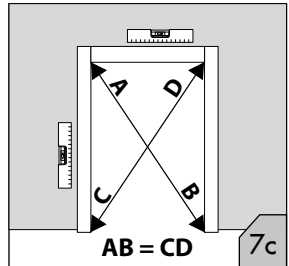
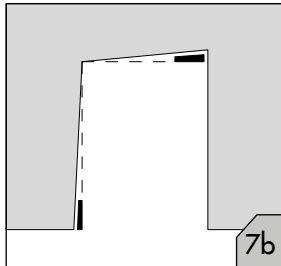
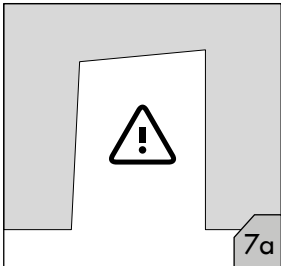
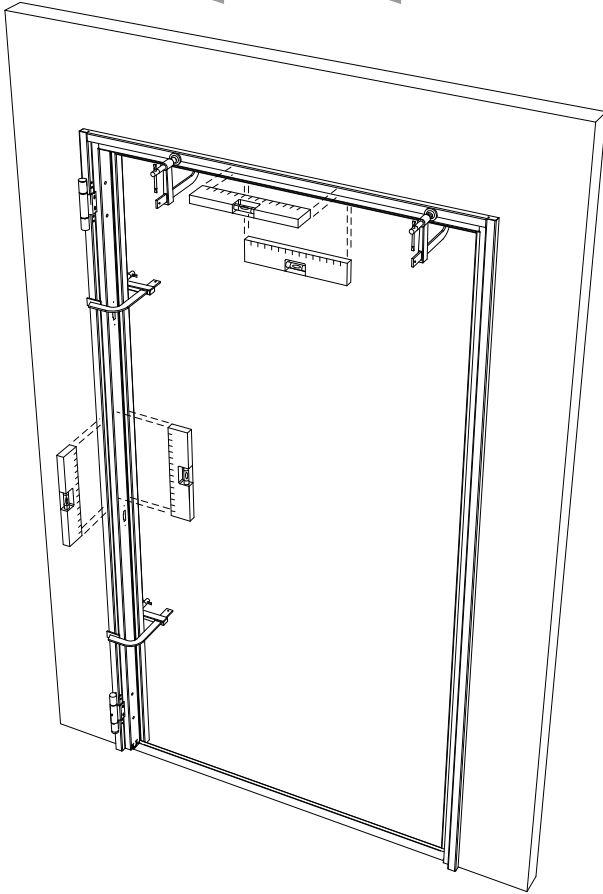
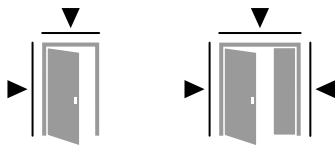
6i



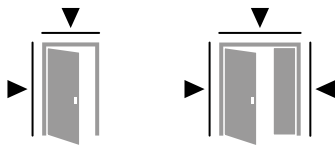
6l



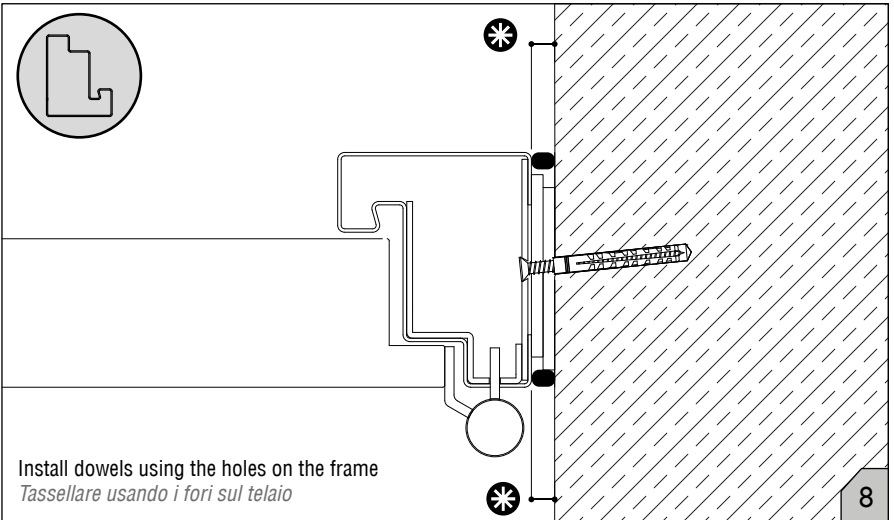
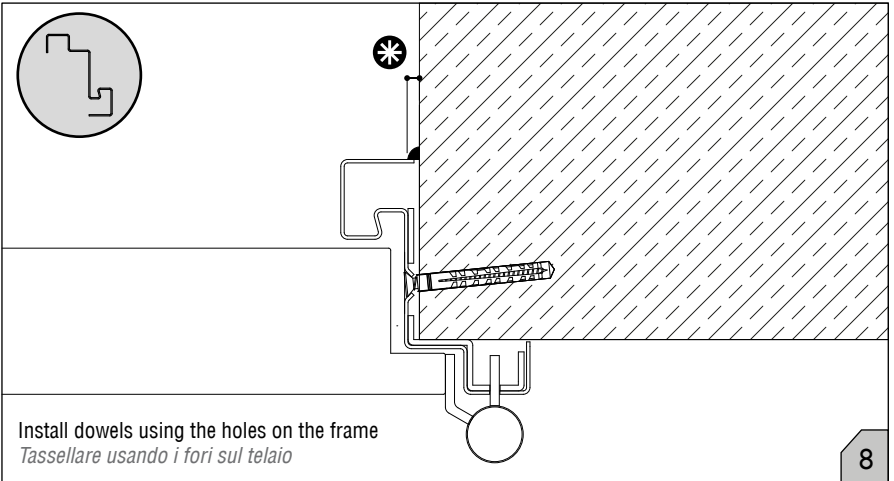
6m



Compensate wall misalignments with wedges
Compensare disallineamenti del muro con spessori



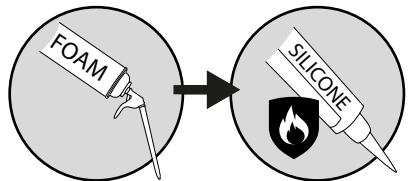
A

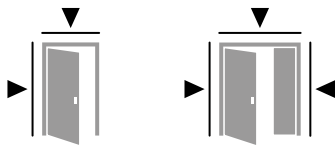


0 - 5 mm

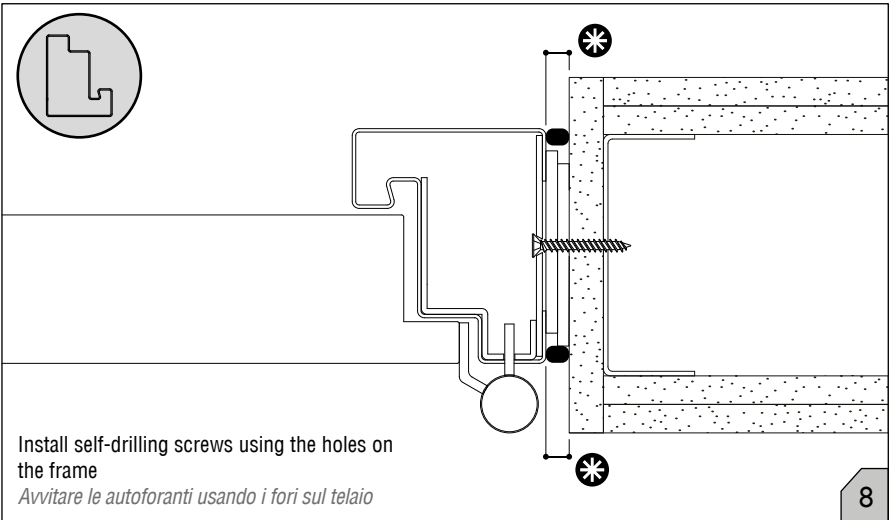
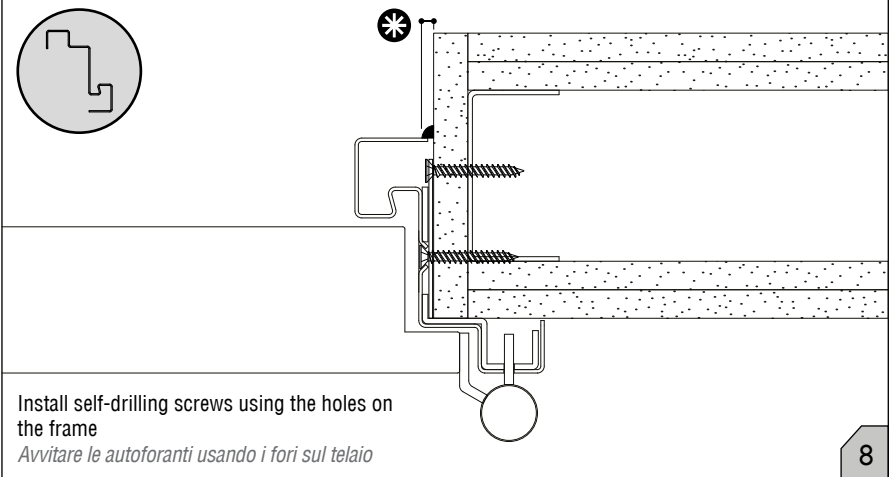


5 - 15 mm





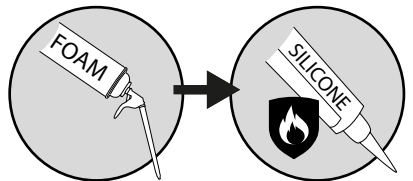
C

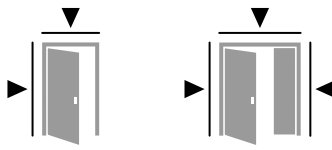


0 - 5 mm

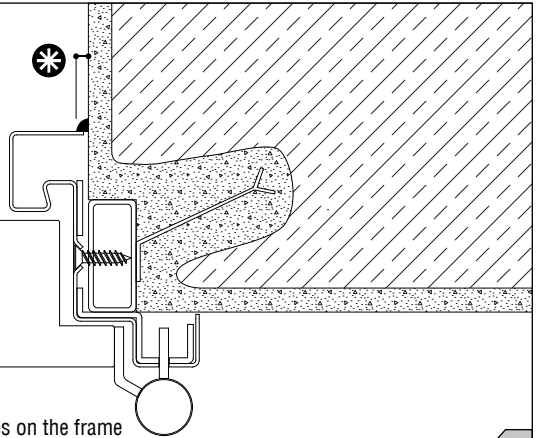
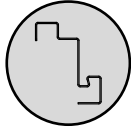


5 - 15 mm





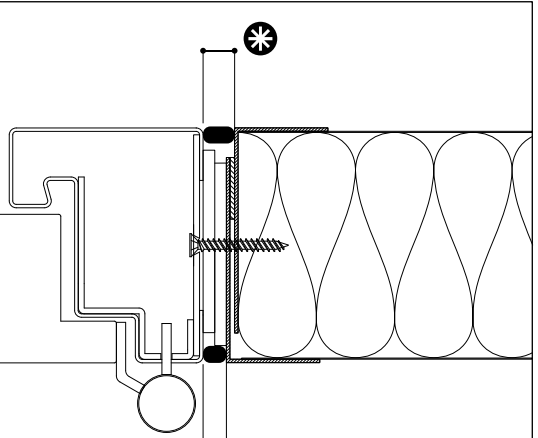
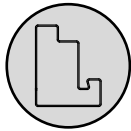
F



Install self-drilling screws using the holes on the frame
Avvitare le autoforanti usando i fori sul telaio

8

S



Install self-drilling screws using the holes on the frame
Avvitare le autoforanti usando i fori sul telaio

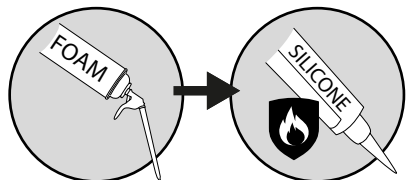
8

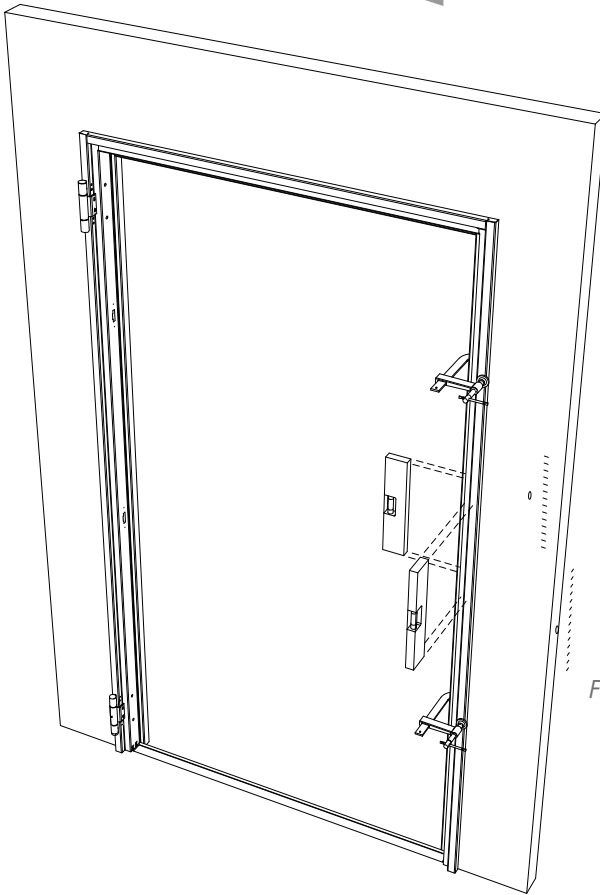


0 - 5 mm

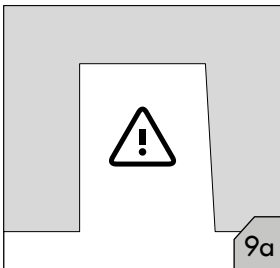


5 - 15 mm

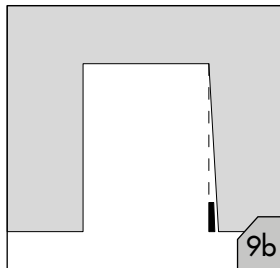




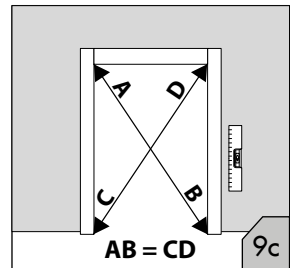
Fixing procedure as number 8
Fissare il telaio come nel punto 8



9a



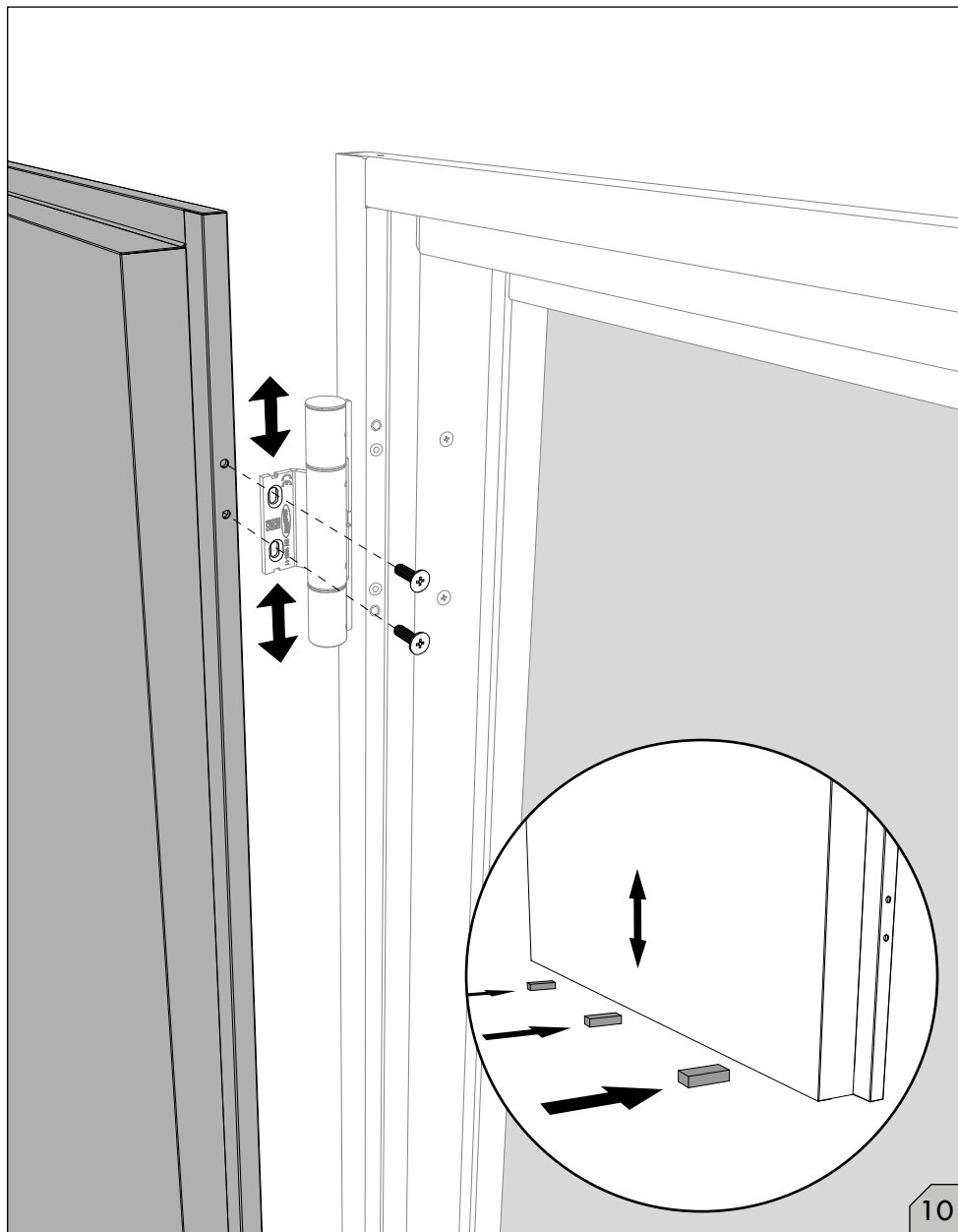
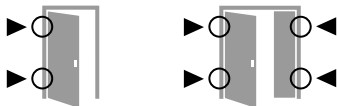
9b

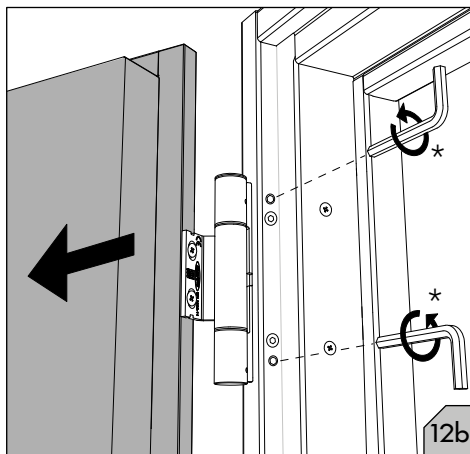
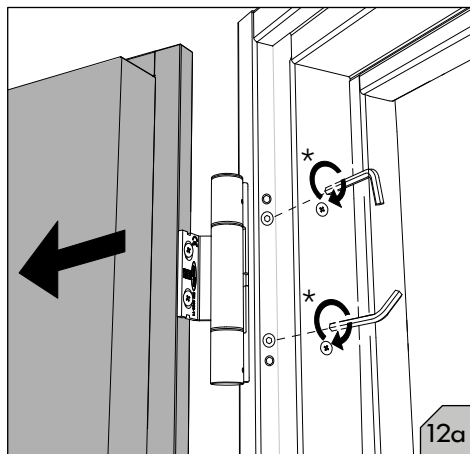
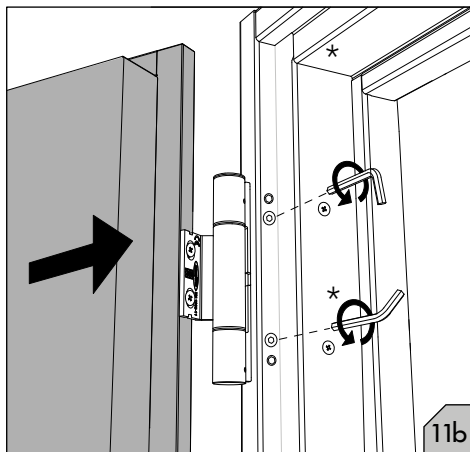
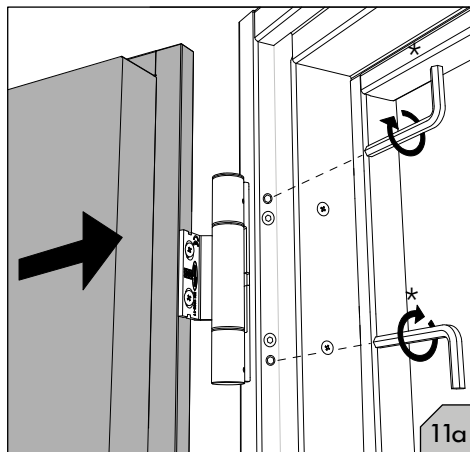
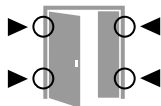
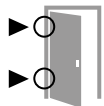


9c

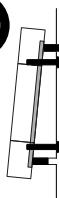
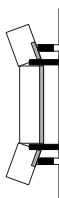
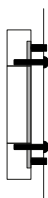
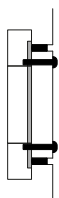


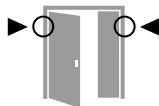
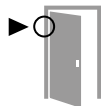
Compensate wall misalignments with wedges
Compensare disallineamenti del muro con spessori





* Same number of turns for each screw
Stesso numero di giri per ogni vite



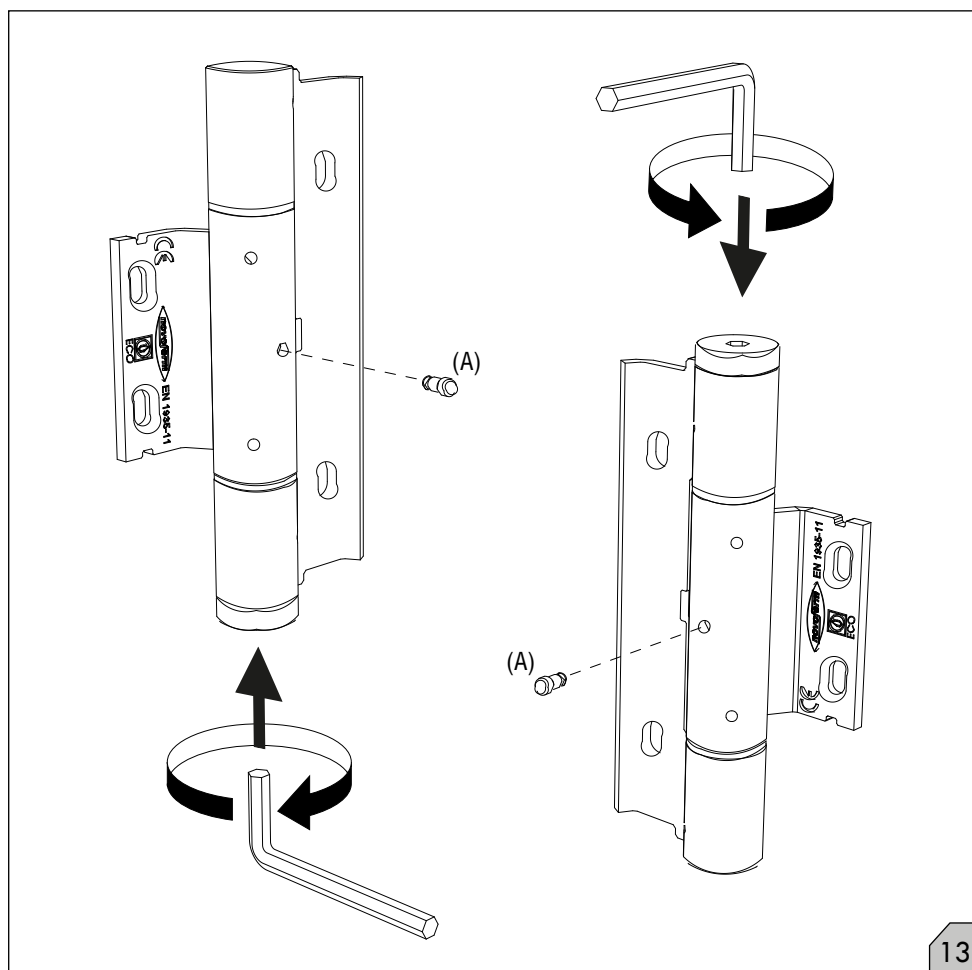


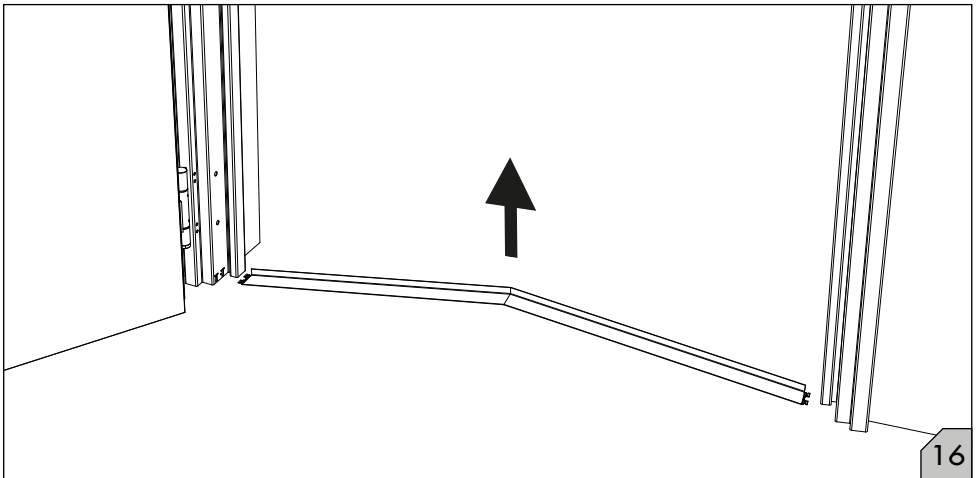
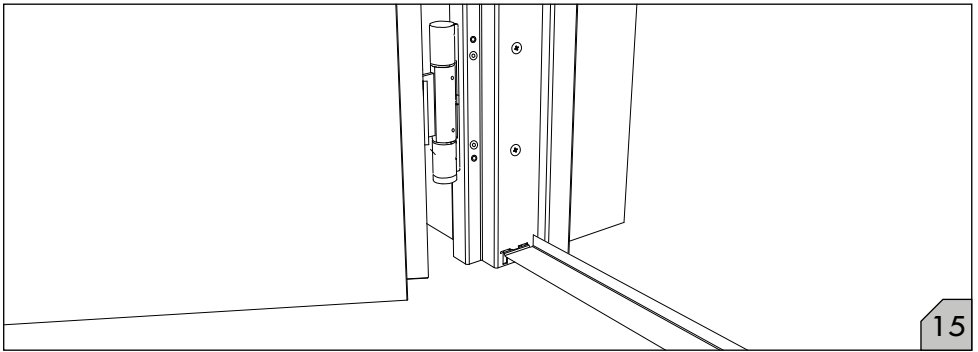
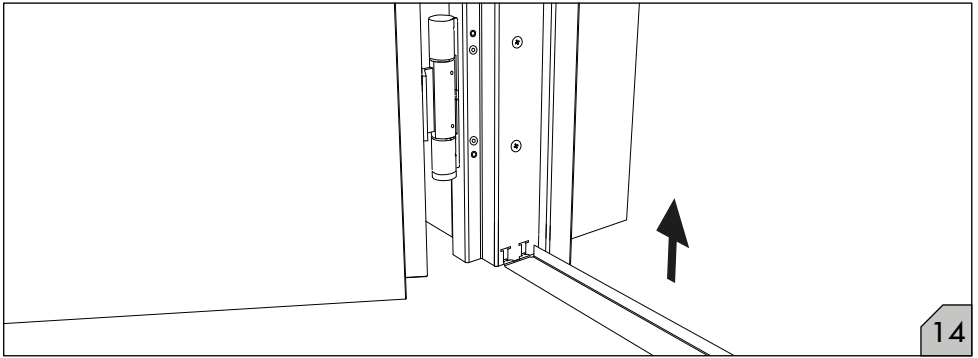
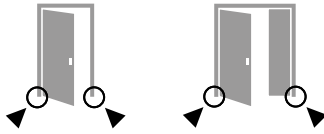
INSTRUCTIONS SPRING HINGE LOADING:

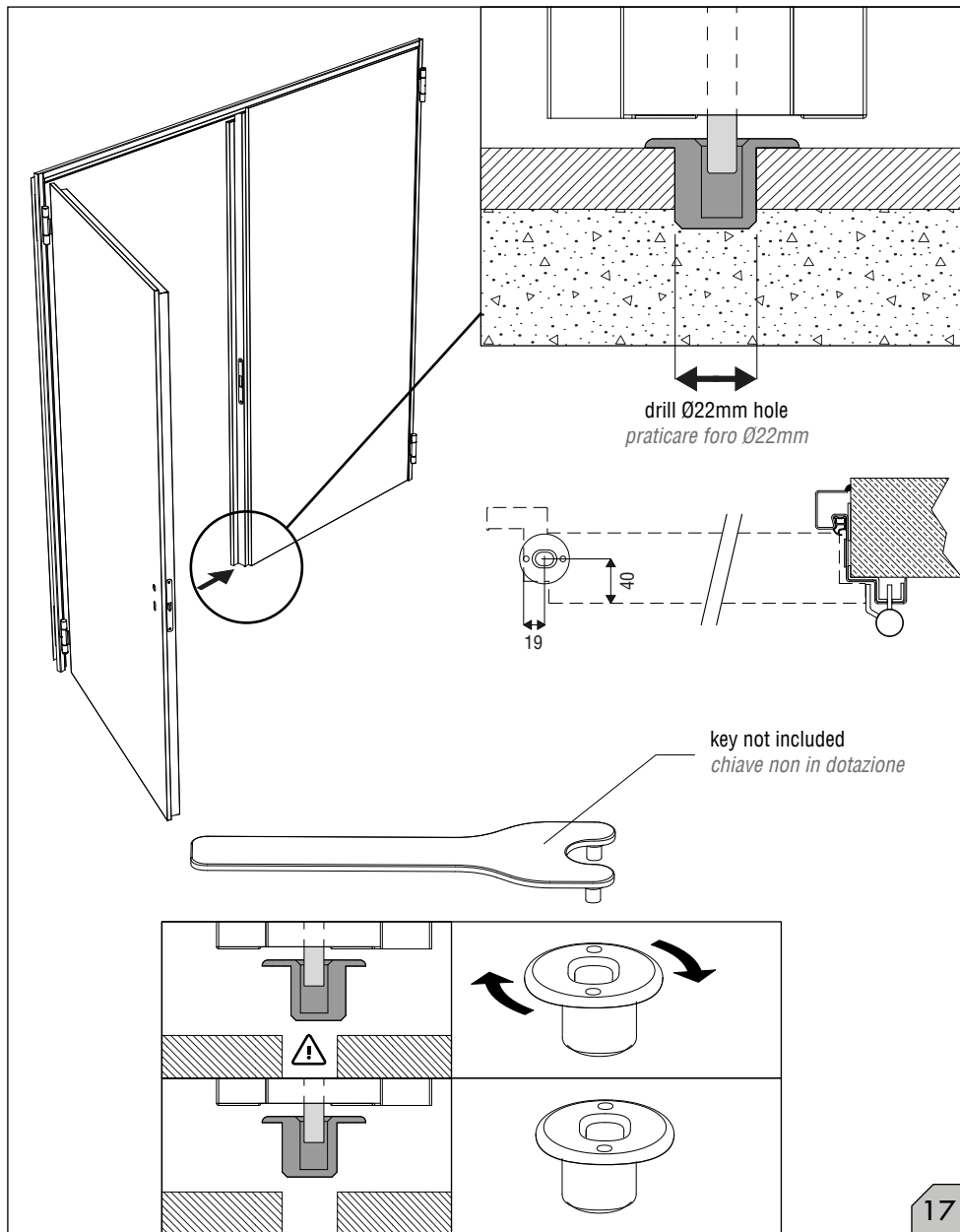
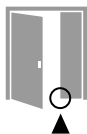
- 1) Insert the hexagonal key (not included)
- 2) Load spring until the pin (A) can be removed
- 3) Load spring additional 90° approx
- 4) Reinsert the pin (A)
- 5) Check self-closing speed. If necessary repeat from step 2 increasing/decreasing the loading

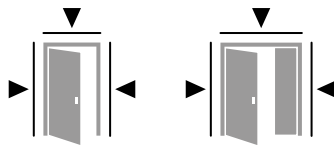
ISTRUZIONI CARICAMENTO CERNIERA A MOLLA:

- 1) Inserire la brugola (non inclusa)
- 2) Caricare fino a togliere il grano (A)
- 3) Caricare altri 90° circa
- 4) Riposizionare il grano (A)
- 5) Verificare l'autochiusura. Se necessario ripetere dal passo 2 riducendo o aumentando il carico





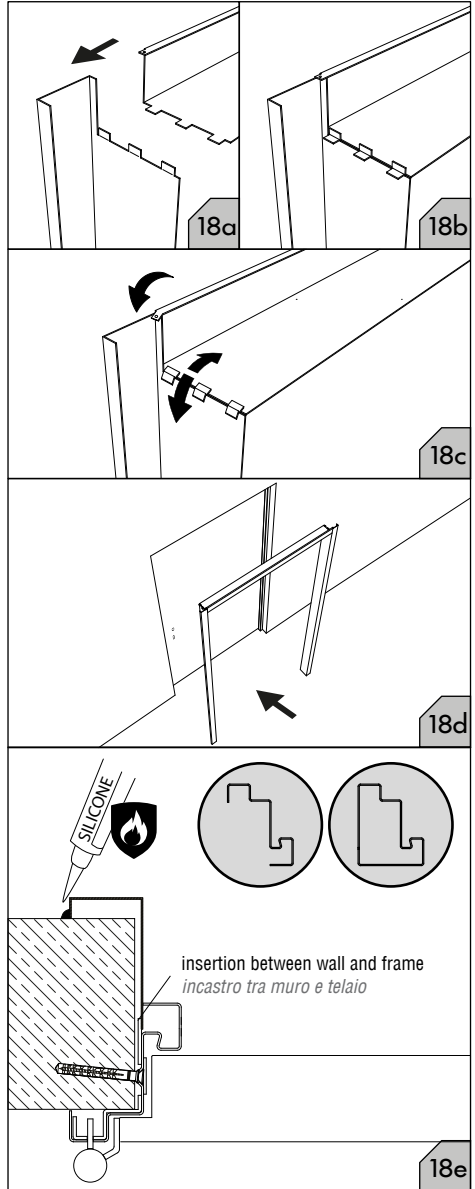
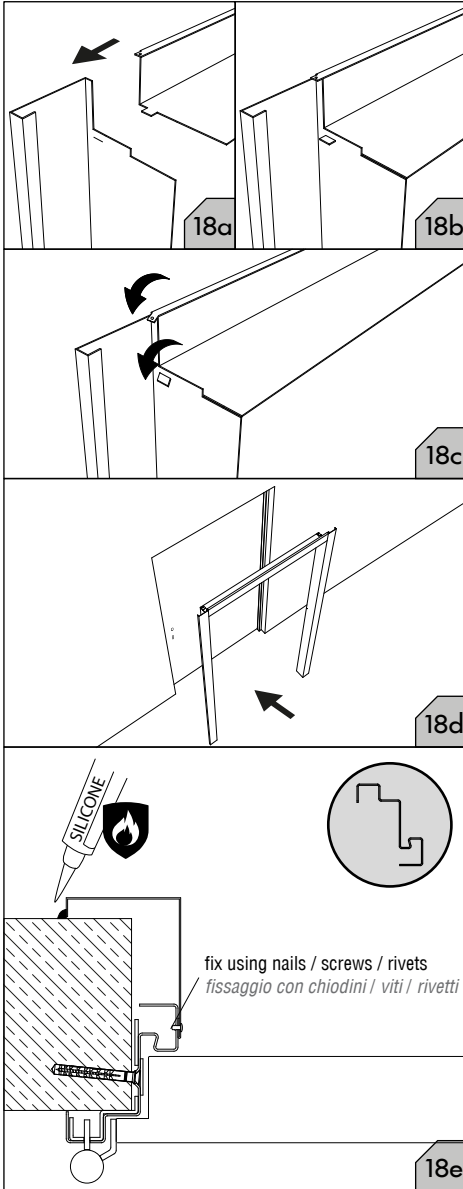


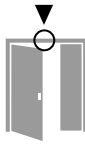


OPTIONAL

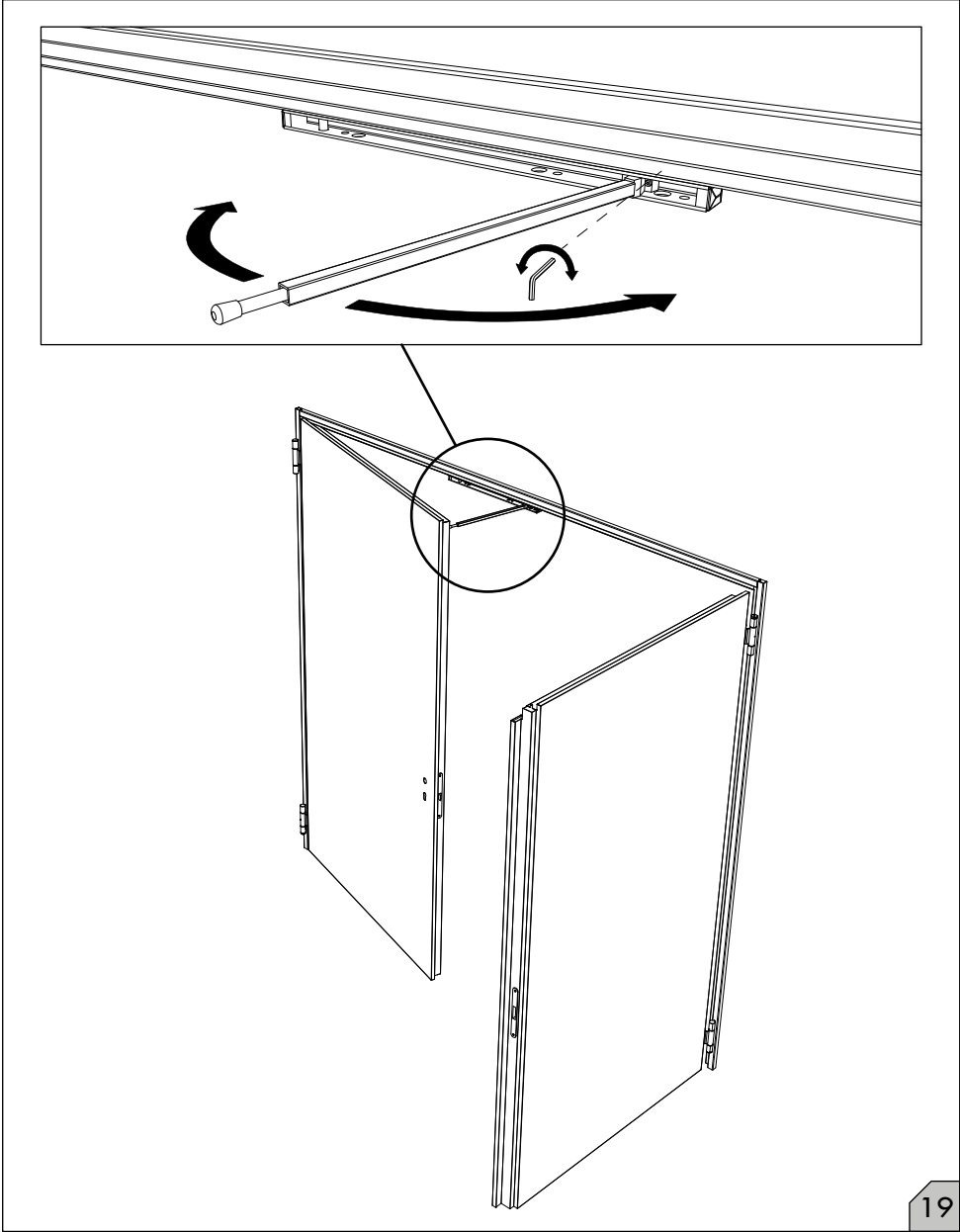
TYPE 1: EXTERNAL
TIPO 1: ESTERNO

TYPE 2: INTERNAL
TIPO 2: INTERNO



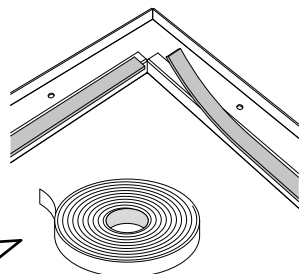
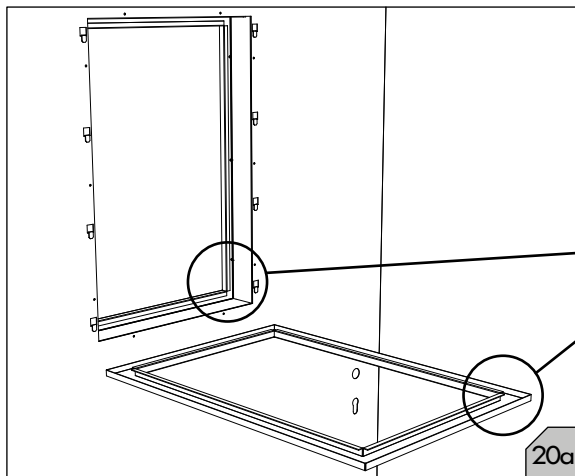


SOLO PORTE TAGLIAFUOCO
ONLY FIRE DOORS

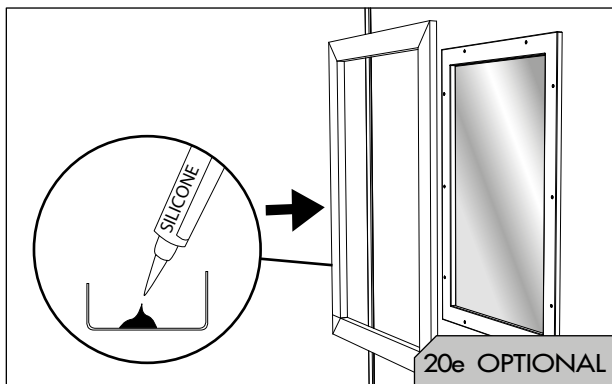
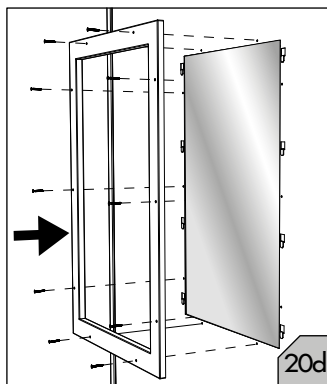
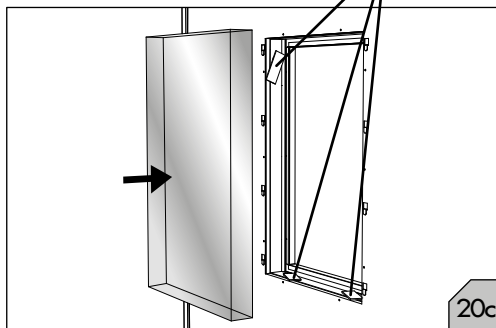
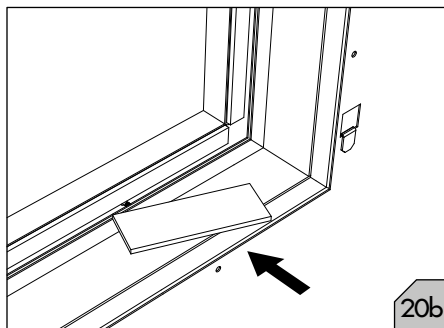


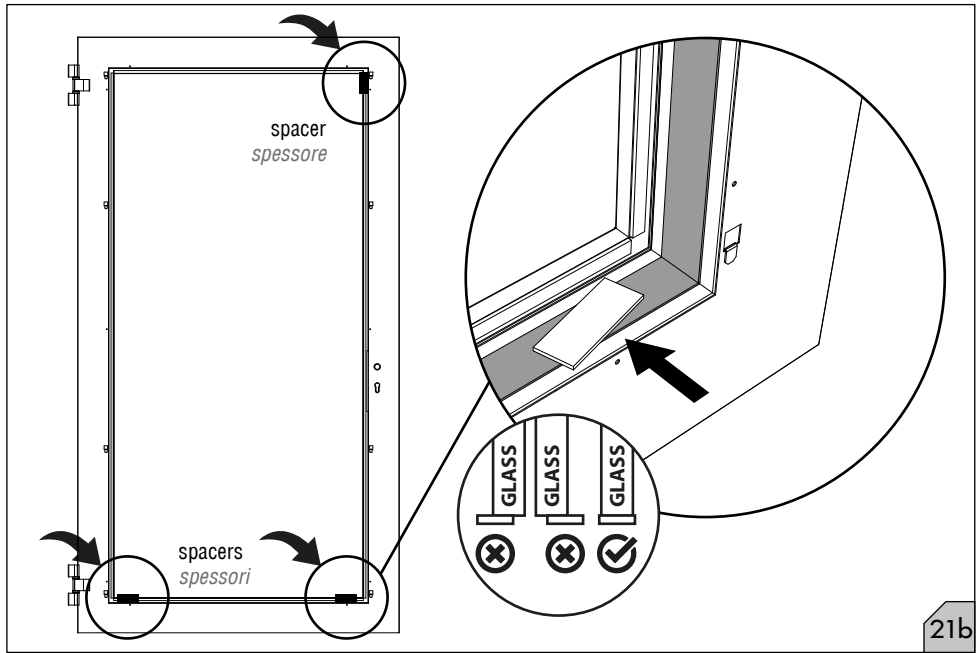
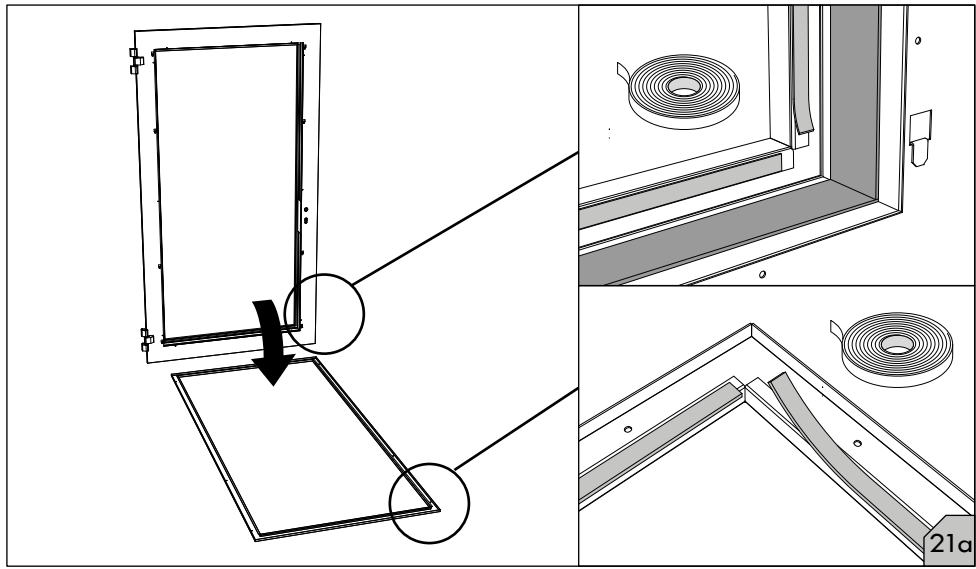


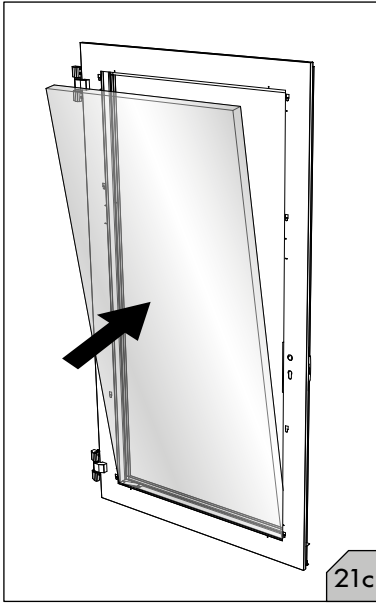
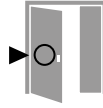
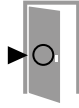
OPTIONAL ELITE



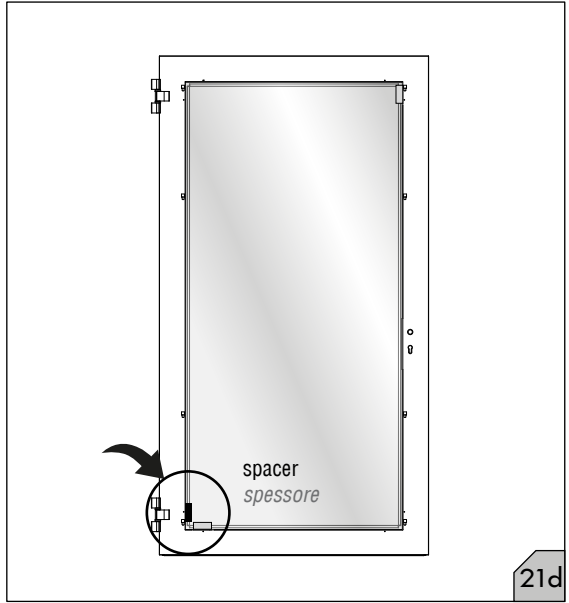
spacers
spessori



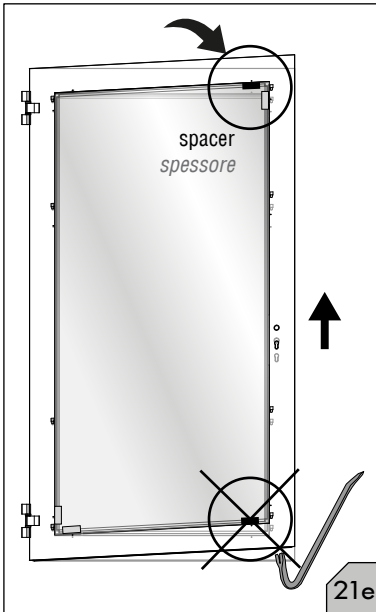




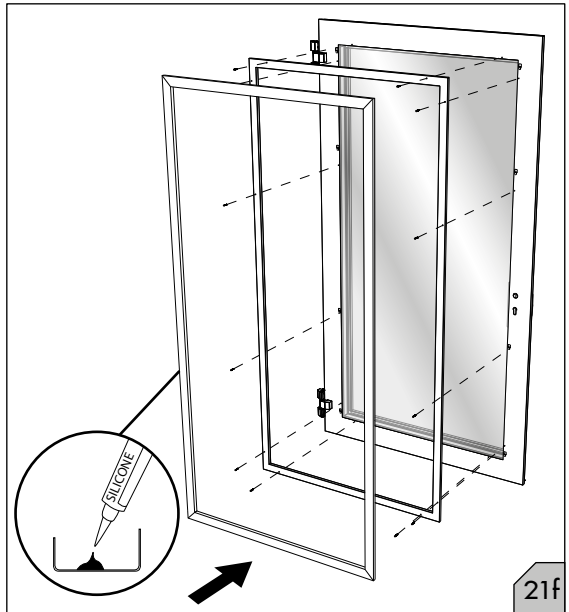
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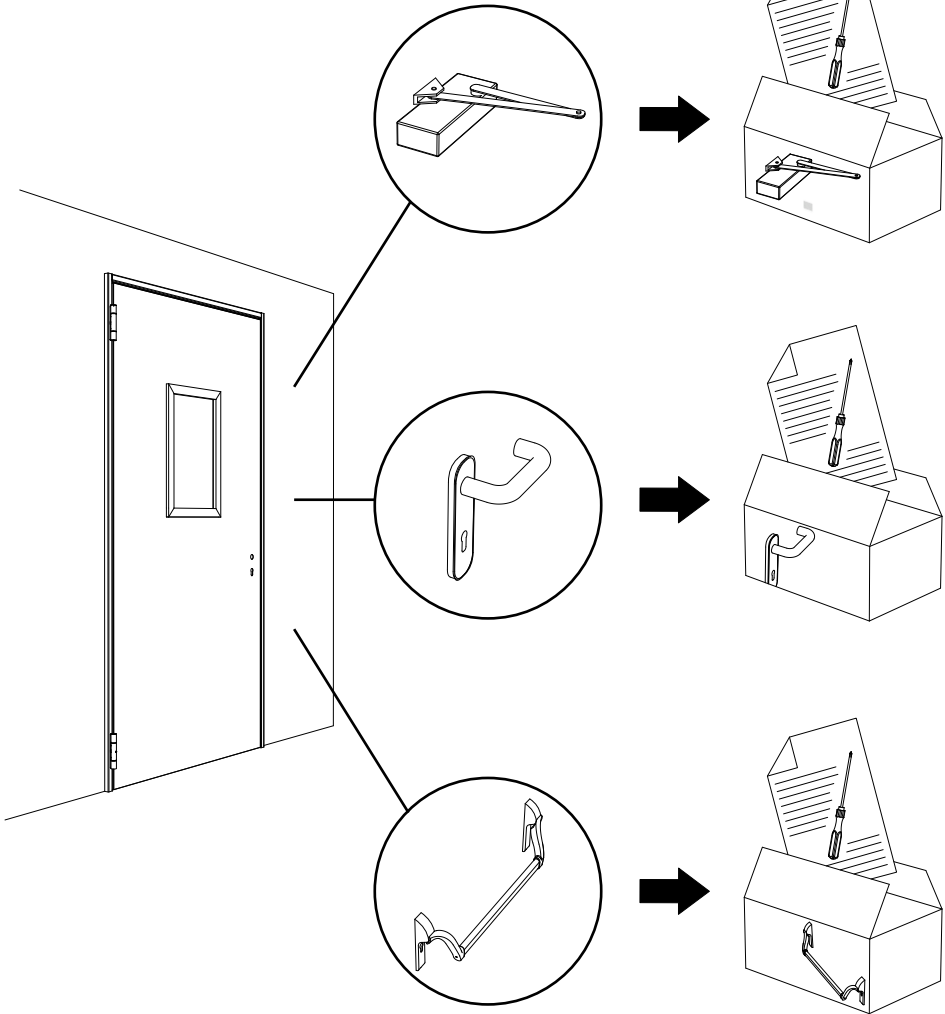
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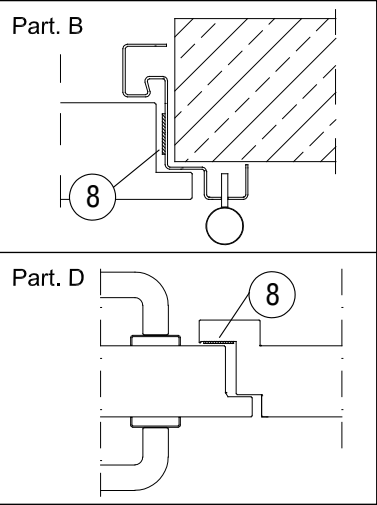
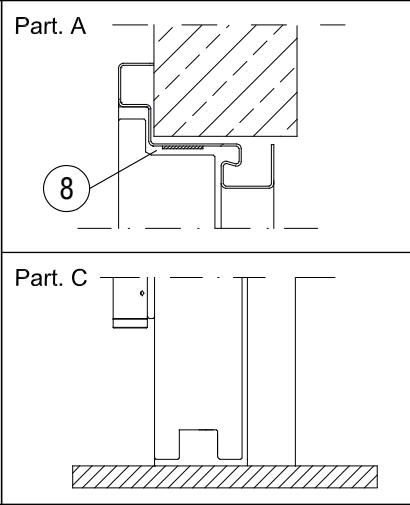
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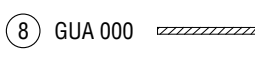
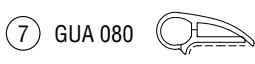
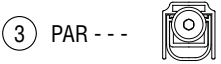
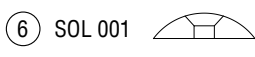
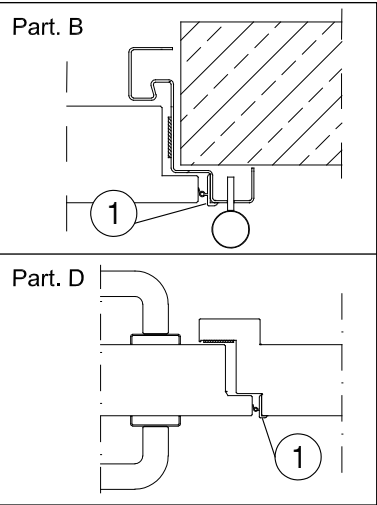
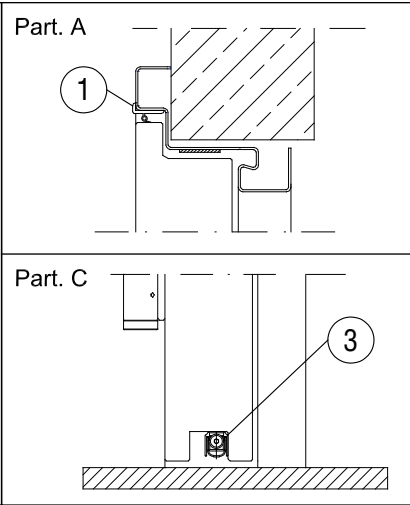
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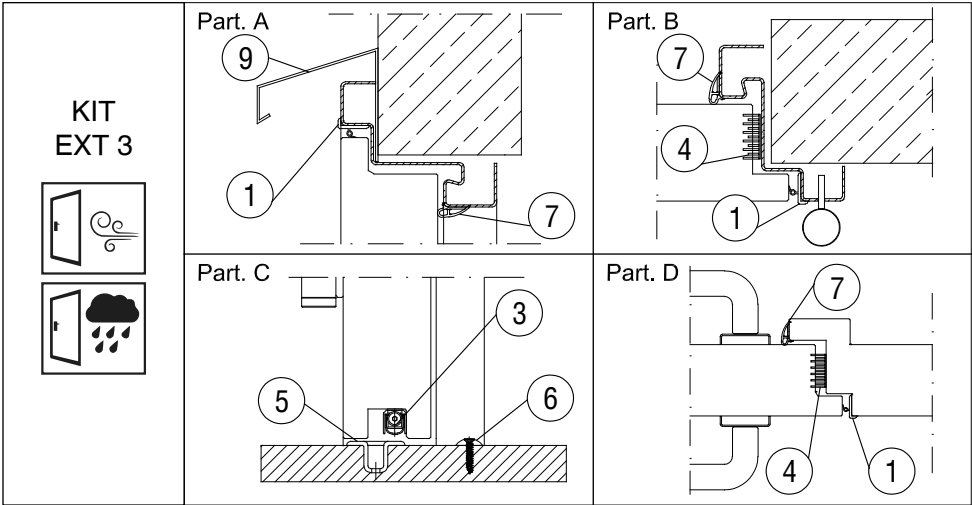
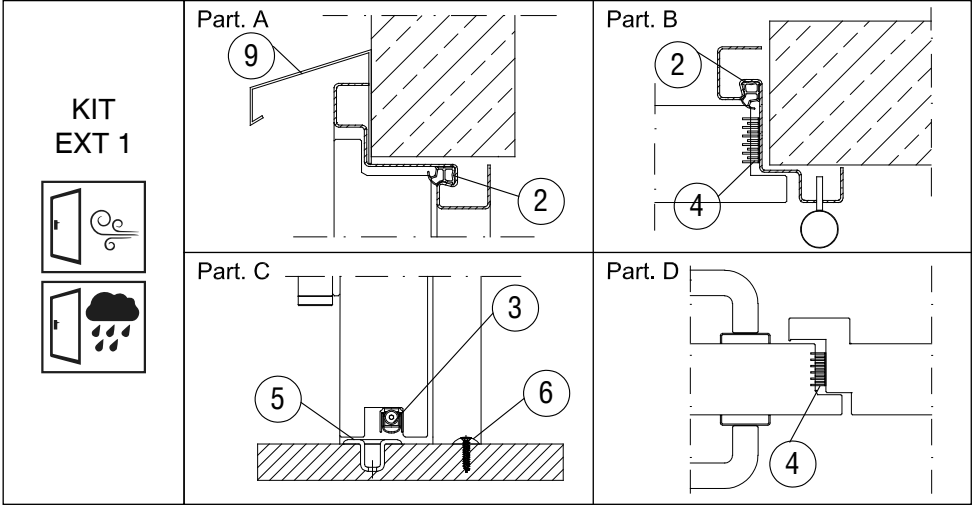



**KIT
EI2 60/120**






**KIT
ASTM
NFRC 400**





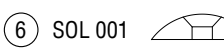


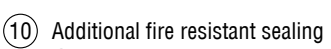
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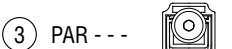
○ GUA 110
- 

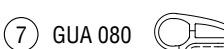
⑤ POZ 000
- 


⑨ SCO 000 Raincover Profile
Scossalina Battiacqua
- 


② GUA 200
- 

⑥ SOL 001
- 

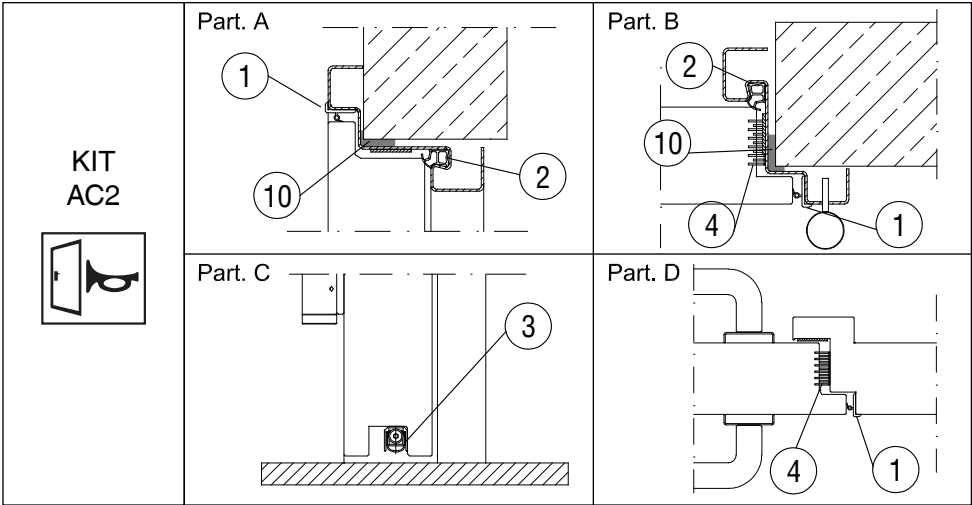
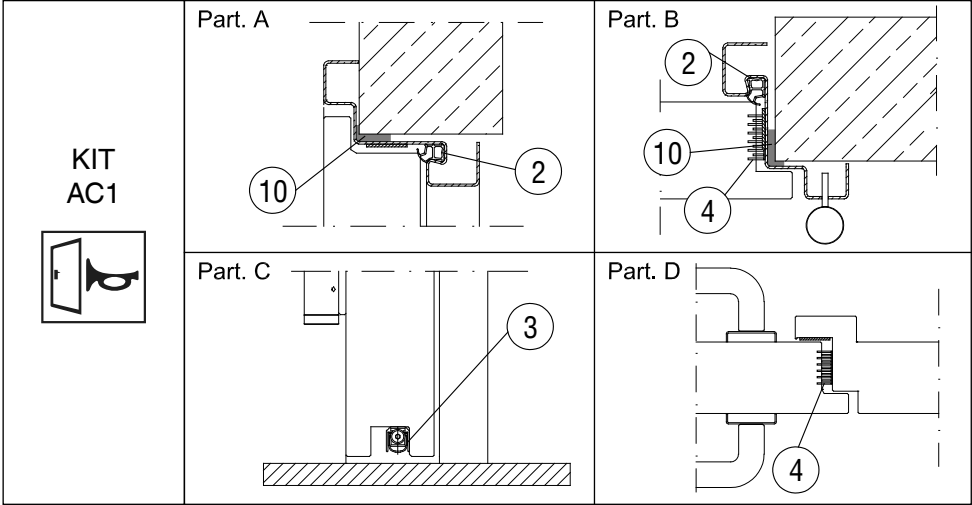
⑩ Additional fire resistant sealing
Siliconatura aggiuntiva resistente al fuoco
- 


③ PAR ---
- 


⑦ GUA 080
- 


○ GUA 203
- 


⑧ GUA 000

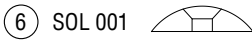



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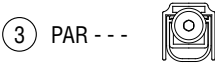
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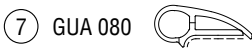
⑤ POZ 000
- 


⑨ SCO 000 Raincover Profile
Scossalina Battiacqua
- 


② GUA 200
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⑥ SOL 001
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⑩ Additional fire resistant sealing
Siliconatura agglittiva resistente al fuoco
- 

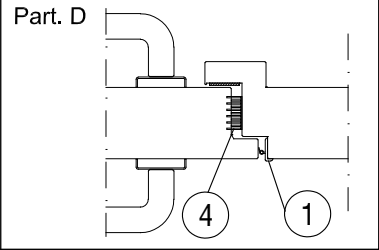
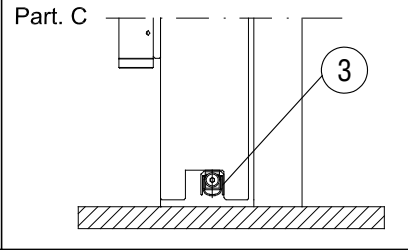
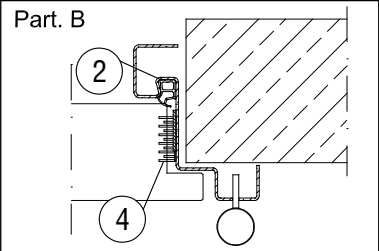
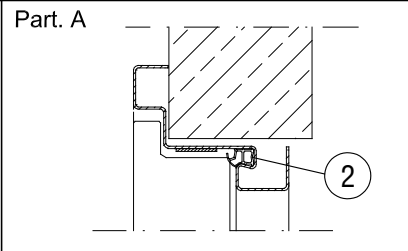
③ PAR ---
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⑦ GUA 080
- 


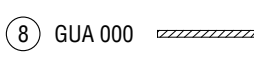
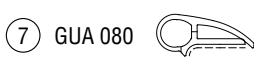
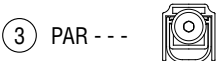
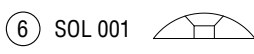
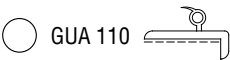
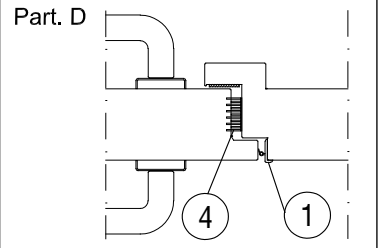
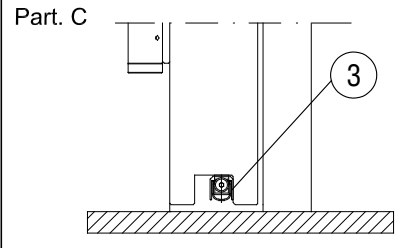
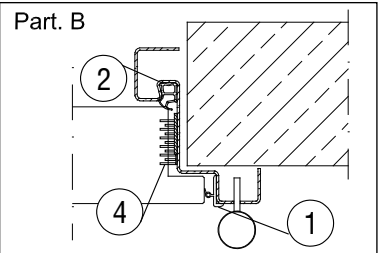
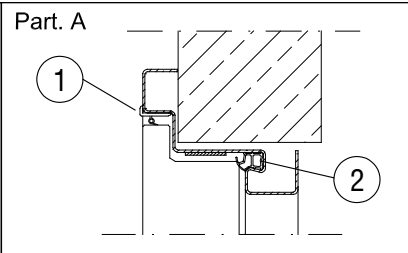
○ GUA 203
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⑧ GUA 000

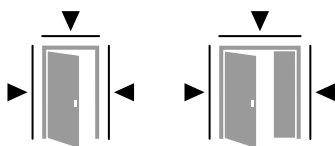
**KIT
1A Sa/Sm
2A Sa**

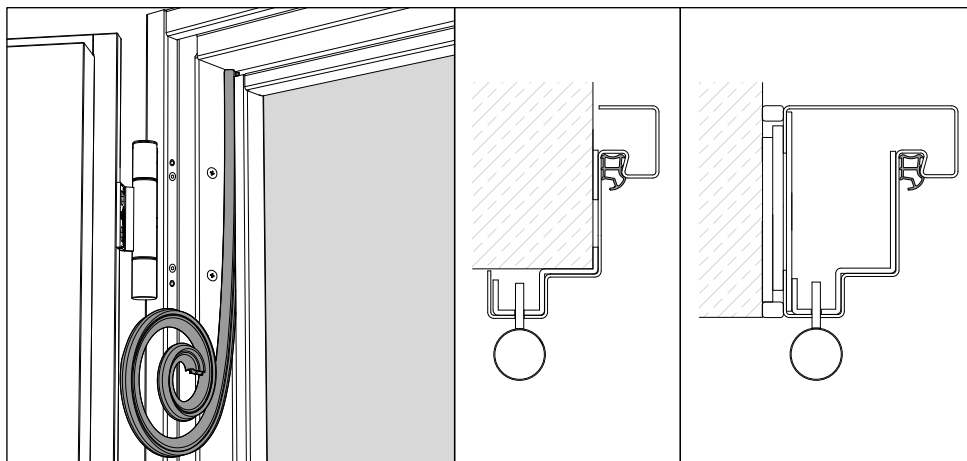
**KIT
2A Sm**

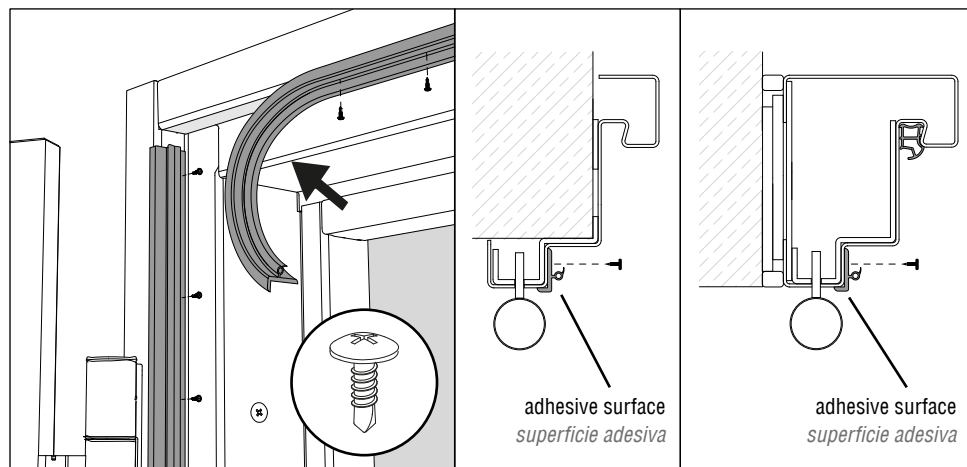
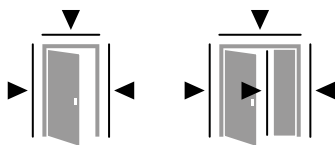
GUA 200




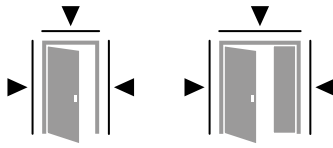
OPTIONAL



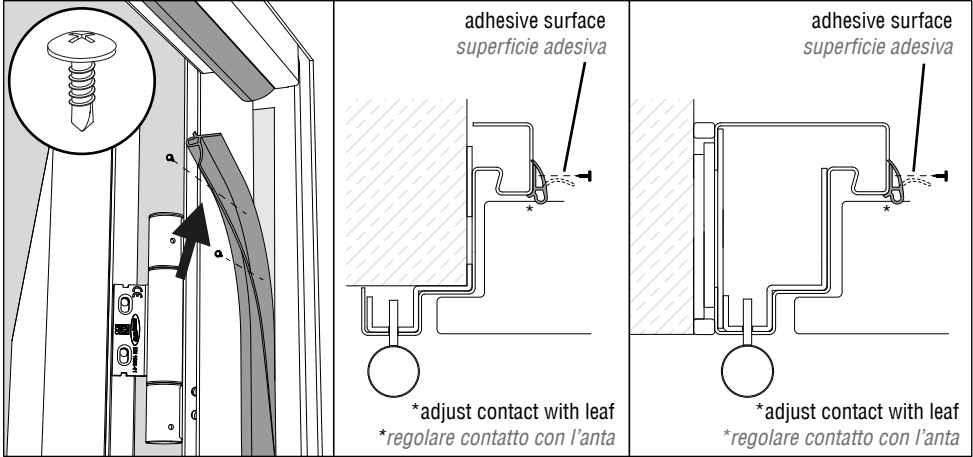
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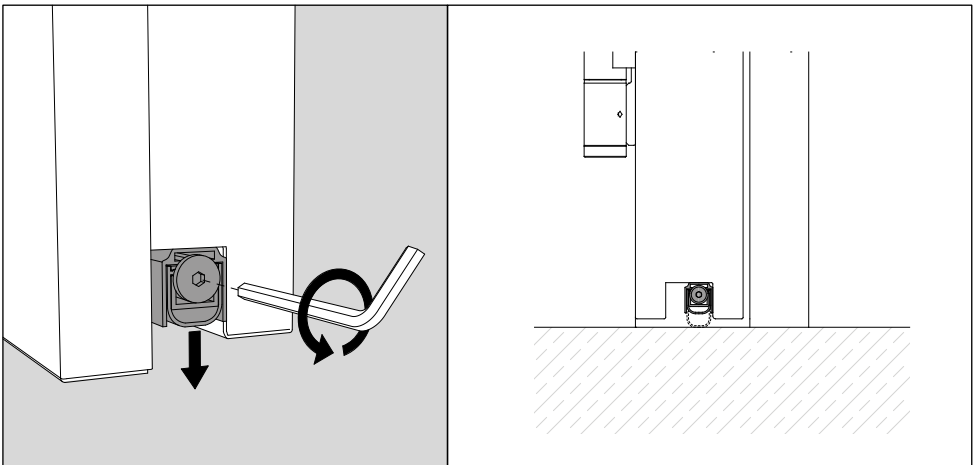
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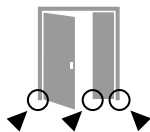
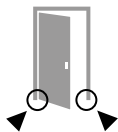
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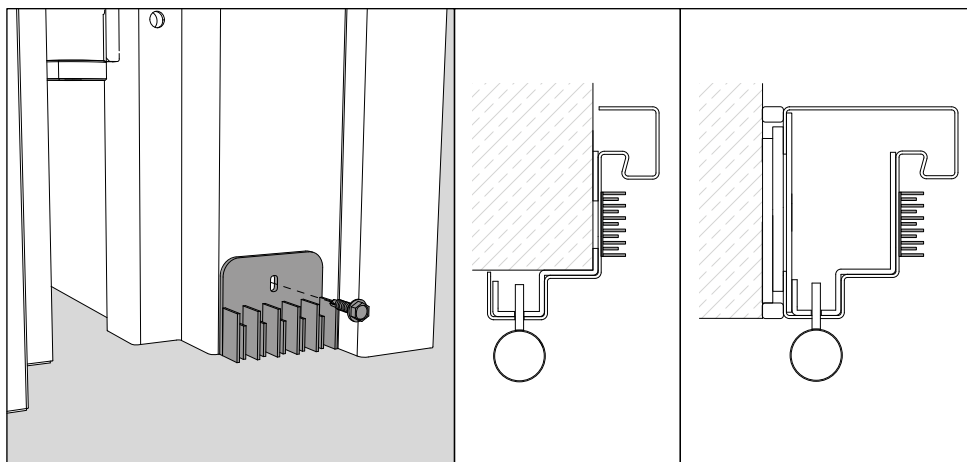
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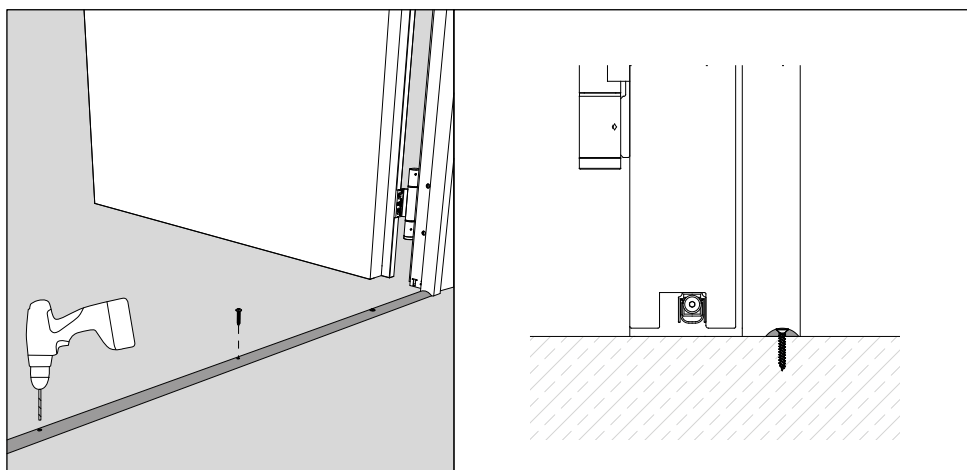
GUA 203



OPTIONAL



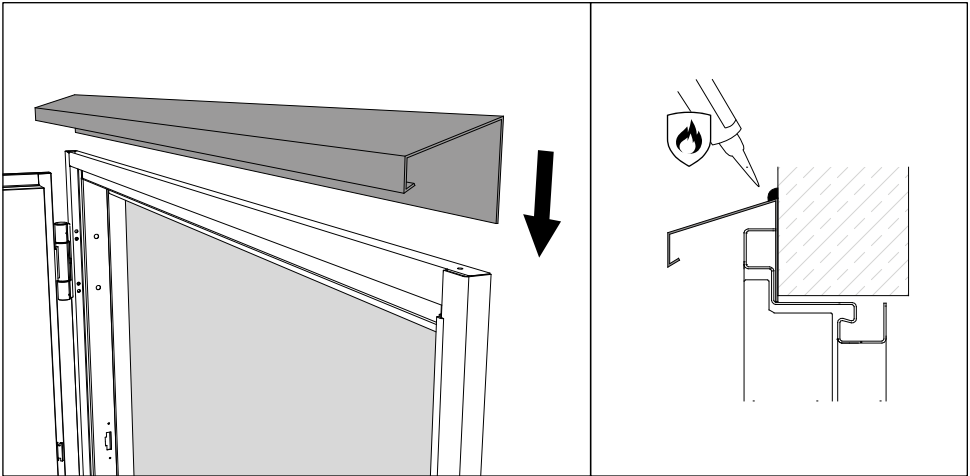
SOL 001



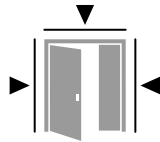
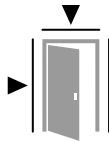
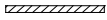
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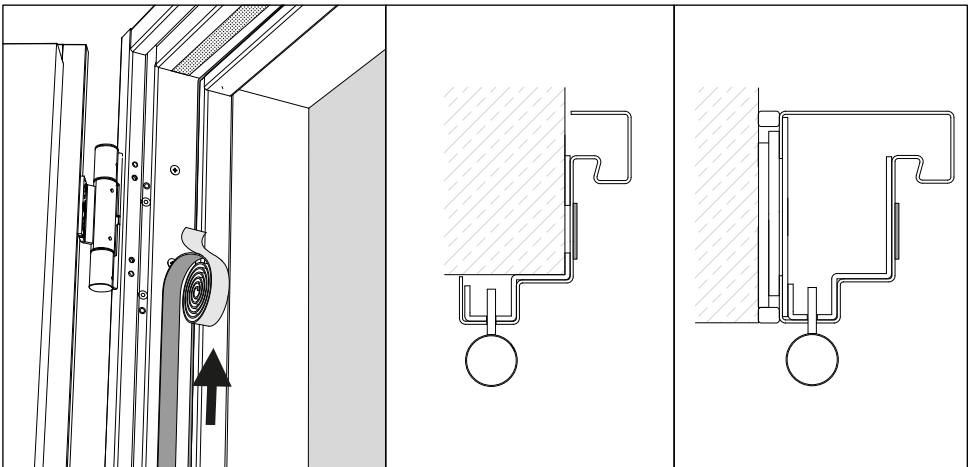
OPTIONAL



GUA 000



SOLO PORTE TAGLIAFUOCO
ONLY FIRE DOORS



FIRE PROOF DOORS: GENERAL INSTRUCTIONS

- In case of prolonged time in stock, the doors must be held in cool and dry place, to the shelter of the sun, with pallet and/or leaves without possible protective film.
- These doors are built for purpose use. Any after mounting modification or fitting must be priorly approved expressly by producer.
- Do not affix accessories or coverings without approval of the manufacturer.
- Do not employed fixed elements to keep the door opened. The opening of the mobile leaf could be maintained only with devices accepted from the manufacturer.
- Except special agreement in ordering, the doors have realised to be situated in closed places.
- The cleaning of the surface is performed with cleansers of normal domestic use, avoiding the use of abrasive, aggressive substances or solvents.
- Usually, doors are painted with finish epoxy at 180°. Prior of any further paint, we suggest a deep cleaning of surface with light sand-paper and then application of a primer. In any case the application of nitro varnishes is dissuaded.
- According D.M. dated 10-03-98 the correct functionality of the doors must be maintained using a maintenance program, we suggest to follow this scheme of reference:

FIRE PROOF DOORS: MAINTENANCE

OPERATION	DESCRIPTION AND NOTES
Hinges greasing and regulation	Verify that leaf from the floor has a height preferably between 3 and 10 mm and spaces between leaf and frame has to be uniform. On the contrary, make the regulation on the hinges as per mounting instructions.
Handle check	The handle must have a modest game on its axis. It must roll free and have a correct return to guarantee the movement of the latch.
Lock lubrication and registration	The lock must be clean from dust and paint. The latch must re-enter easily and find place in the frame without obstacles. With closed door, the space between leaf and frame has to be few millimeters.
Closing system registration	When you close the leaves from an opening of 60°, they must close. If not, check the tension of the spring or regulate the door closer. Check the arm closing selector and its screws.
Door closer regulation	The door closer permits a better regulation of the closing leaf compared to the the spring. Usually you regulate the power of closing in the final phase. You regulate the speed of closing by handling its screw.
Panic device regulation	See above for handle and lock. Check the usage of the top latch. Check that the bottom lodging is clear.
Leaf-frame space check, leaf check	The leafs and the frame must have no deformation, no corrosion, no perforations.
Bearings and hinges check	The hinges are dismantled and easy to check. If not in good condition, black dust comes out from them. A bad condition of the bearings causes a bad regulation in closing.
Lock condition check	Dismount the lock and check it. Verify bad entering of the latch.
Substitute the thermal gasket	The thermal gasket on the floor can be taken out accidentally.
Substitute damaged components	The accessories for fire proof doors must be bought from specialised dealers. No responsibility in case of improper applications. Windows must be mounted with its frame. Bubbles or halos are consequence of direct sun light or UV light or humidity from borders. Visual defects of small entity do not involve obvious reductions of the performances.

FIRE PROOF DOORS: MAINTENANCE PERIODICITY RECOMENDED

DESCRIPTION	PERIOD		
	light usage	medium usage	intensive usage
Hinges greasing and regulation / Locks oiling / Closing system regulation / Door closer regulation / Panic device regulation	Every six months	Every three months(*)	Every month(*)
Fixing screws checking (bolts, hinges, fixing screws of panic devices)	Every two years	Every year(*)	Every six months(*)
Pads verification / Hinges pivots verification / Possible strain lock verification	Every four years	Every two years(*)	Every year(*)
Worn parts substitution / Damaged or tampered parts substitution	When necessary	When necessary	When necessary

(*) In case of not light use, a correct movement could be guaranteed only with door closer (self closing system).
As indicative parameters, you could consider the following scheme to identify the type of usage of the door:

Light usage = 0 - 10 daily openings

Medium usage = 5 - 50 daily openings

Intensive usage = 40 - 200 daily openings

The maintenance program must be personalised in case of particular conditions (such as hospitals, etc.) in which there could be thousand of openings daily.

PORTE ELITE AD ANTA:

AVVERTENZE GENERALI D'USO

- *In caso di stoccaggio prolungato, le porte vanno tenute in luogo fresco e asciutto, al riparo dal sole, con pallet e/o ante privati dell'eventuale pellicola protettiva.*
- *L'utilizzo di questi serramenti non può prescindere dalla considerazione che si tratta di chiusure tecniche con obiettivi funzionali. Ogni modifica o aggiunta deve essere preventivamente approvata dall'azienda.*
- *Non vanno apposti accessori o rivestimenti senza il preventivo parere della casa produttrice.*
- *Non vanno impiegati elementi fissi per il mantenimento dell'apertura dell'anta. L'apertura dell'anta mobile può essere mantenuta solo con dispositivi di idoneità accertata dalla casa produttrice.*
- *Salvo precisi accordi in sede di ordinazione, le porte sono realizzate per essere collocate in luoghi chiusi.*
- *La pulizia delle superfici va eseguita con detersivi di normale uso domestico, evitando accuratamente l'uso di abrasivi, di sostanze aggressive o solventi.*
- *Le porte di serie sono finite con polveri epossipoliesteri termoindurenti a circa 180°. Per l'applicazione di qualsiasi smalto si consiglia l'applicazione di un primer epossidico bicomponente, previa carteggiatura e spolveratura della superficie. In ogni caso si sconsiglia l'applicazione di vernici al nitro.*

Ai sensi del D.M. del 10-03-98 la corretta funzionalità dei serramenti deve essere mantenuta usando un programma manutenzione sistematico per il quale suggeriamo il seguente schema di riferimento:

PORTE ELITE AD ANTA: MANUTENZIONE

OPERAZIONE	DESCRIZIONE E NOTE
Ingrassaggio e registrazione cerniere	<i>Verificare che l'anta rispetto al pavimento si trovi preferibilmente ad una altezza compresa fra 3 e 10 mm e che l'aria esistente fra anta e telaio sia per quanto possibile uniforme. In caso di distanza da pavimento superiore verificare la presenza ed integrità della guarnizione termoespandente. Viene ammessa una distanza fino a mm. 20 per pavimentazioni piene e non cedevoli. I giochi esistenti fra anta e telaio dovranno essere per quanto possibile resi omogenei. Per le registrazioni agire sulle cerniere come da istruzioni di montaggio.</i>
Controllo funzionalità maniglia	<i>La maniglia deve avere un modesto gioco sul suo asse. Deve ruotare liberamente ed avere un ritorno adeguato a garantire una completa uscita dello scrocco.</i>

OPERAZIONE	DESCRIZIONE E NOTE
Lubrificazione e registrazione serrature	La serratura deve essere priva di polveri e residui di verniciatura. Lo scrocco deve rientrare liberamente e trovare alloggiamento senza ostacoli nel vano telaio. A porta chiusa il gioco tra anta e telaio deve essere di pochi millimetri.
Registrazione sistema di richiusura	Le ante si devono poter richiudere una volta rilasciate da una apertura minima di 60°. In caso contrario controllare lo stato di tensione della molla (vedi istr. Posa) o regolare il chiudiporta aereo. Verificare il buon funzionamento del selettore di chiusura ed eventuali allentamenti delle viti di fissaggio dei suoi componenti.
Regolazione chiudiporta aerei	Il chiudiporta aereo consente una regolazione molto più fine della semplice richiusura a molla. Normalmente consente di regolare la forza di richiusura nella fase finale separatamente dalla corsa. La velocità di richiusura si regola agendo sulla apposita vite di regolazione previa asportazione della copertura frontale.
Regolazione antipanici	Si richiama quanto detto sopra per la maniglia e serratura. In particolare deve essere controllato lo stato di funzionamento dello scrocco superiore di bloccaggio asta. Controllare che l'alloggiamento dell'asta inferiore sia sgombro.
Controllo giochi anta-telaio e verifica integrità anta	Il telaio e l'anta devono essere privi di deformazioni, privi di fenomeni di corrosione, privi di forature.
Verifica stato cuscinetti e perni cerniere	Le cerniere sono smontabili e pertanto la verifica è agevole. Normalmente la rottura o abnorme logorio sono testimoniati dalla fuoriuscita di polvere nera. Un cattivo stato del perno e o dei cuscinetti a sfere comporta, oltre ad una movimentazione più pesante, una cattiva regolazione dei giochi e cattiva registrazione della richiusura.
Verifica eventuale logorio serratura	Verificabile previo smontaggio della serratura. Controllo di eventuali inceppi e scarsi rientri dello scrocco.
Sostituzione guarnizione termoespandente	In particolare, la guarnizione termoespandente a pavimento può essere oggetto di asportazione accidentale.
Sostituzione parti usurate, danneggiate o manomesse	Gli accessori per porte tagliafuoco devono essere reperiti da rivenditori specializzati! Si declina ogni responsabilità per l'utilizzo o modalità di applicazione improprie. Eventuali finestrature devono essere solidamente accoppiate al telaio. La comparsa di bolle o aloni bianchi nei vetri testimoniano esposizione alla luce solare diretta o comunque a illuminazione con componente ultravioletta, oppure ingresso di umidità dai bordi. I difetti visivi sopracitati, se di piccola entità, non comportano evidenti riduzioni delle prestazioni.

PORTE ELITE AD ANTA: PERIODICITÀ CONSIGLIATA DI MANUTENZIONE

DESCRIZIONE INTERVENTO	PERIODICITÀ		
	uso leggero	uso medio	uso intensivo
Ingrassaggio e registrazione cerniere / Oliatura serrature / Registrazione sistema di chiusura / Regolazione chiudiporta aerei / Regolazione antipanici	Ogni sei mesi	Ogni tre mesi(*)	Ogni mese(*)
Controllo fissaggio viti in genere (bulloni, cerniere, viti di fissaggio dei maniglioni antipanico)	Ogni due anni	Ogni anno(*)	Ogni sei mesi(*)
Verifica stato cuscinetti e perni cerniere / Verifica logorio serratura	Ogni quattro anni	Ogni due anni (*)	Ogni anno(*)
Sostituzione parti usurate / Sostituzione parti danneggiate o manomesse	Quando serve	Quando serve	Quando serve

(*) In ipotesi di utilizzo non leggero, una corretta funzionalità può essere garantita nel tempo solo se in presenza di autochiusura con chiudiporta aereo. A titolo orientativo si possono assumere i seguenti parametri di utilizzo per identificare il tipo di uso a cui viene sottoposta la porta:

Uso leggero = 0- 10 aperture al giorno

Uso medio = 5- 50 aperture al giorno

Uso pesante = 40-200 aperture al giorno

Per collocazioni particolari (caserme, ospedali, ecc.) in cui si possono raggiungere utilizzi di migliaia di aperture al giorno, il programma di manutenzione deve essere personalizzato.



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