

## ПРЕВОД НА МАКЕДОНСКИ ЈАЗИК (НЕОФИЦИЈАЛЕН)

Ова не е оригиналниот документ на производителот. Меродавен е оригиналот, приложен по преводот: fakro-ftp-v-solar-installation-multi.pdf.

[лого FAKRO]

# УПАТСТВО ЗА МОНТАЖА

## FTP-V Solar, FTU-V Solar, FTW-V Solar

Оригинална ознака на документот: NC 1HH\_FTP-V Solar\_24.02.29\_FAKRO\_KB3527

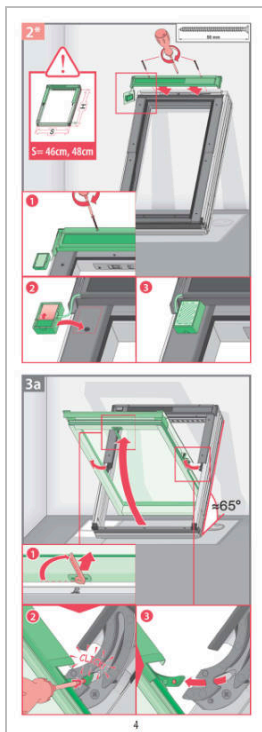
Ова упатство е изработено во слики: сите чекори на монтажата се прикажани со цртежи, без описен текст, па цртежите не се менувани и се наоѓаат во оригиналот по преводот. На насловната страница на оригиналот се наведени наклонот на покривот за вградување (**15°–90°**) и опсезите на страници на одделните делови на упатството (**страници 2–6, страници 7–15, страници 16–24 и страници 25–27**). Единствениот текст во оригиналот се забелешката за одговорноста на последната страница и неколку зборови на цртежите, преведени подолу.

### СТРАНИЦА 4 ОД ОРИГИНАЛОТ

#### Ознаки на цртежите

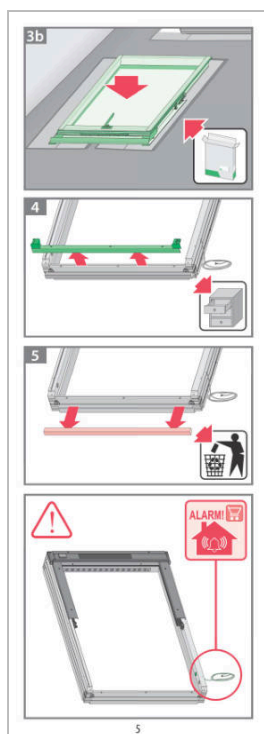
CLICK!

клик!



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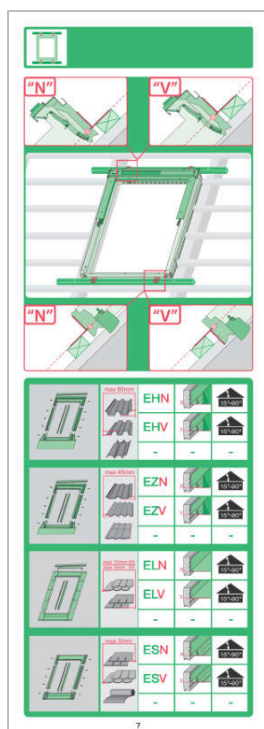


### СТРАНИЦА 5 ОД ОРИГИНАЛОТ

#### Ознаки на цртежите

ALARM!

аларм!



### СТРАНИЦА 7 ОД ОРИГИНАЛОТ

#### Ознаки на цртежите

max 90mm

најмногу 90 mm

max 45mm

најмногу 45 mm

max 15mm (N)

најмногу 15 mm (N)

max 5mm (V)

најмногу 5 mm (V)

max 5mm

најмногу 5 mm

## ПРЕВОД НА МАКЕДОНСКИ ЈАЗИК (НЕОФИЦИЈАЛЕН)

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### СТРАНИЦА 9 ОД ОРИГИНАЛОТ

#### Ознаки на цртежите

max 90mm

најмногу 90 mm

max 45mm

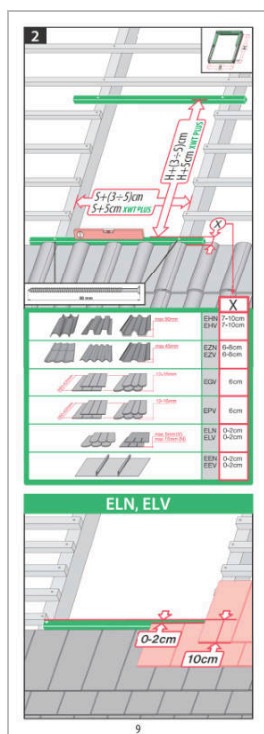
најмногу 45 mm

max 5mm (V)

најмногу 5 mm (V)

max 15mm (N)

најмногу 15 mm (N)

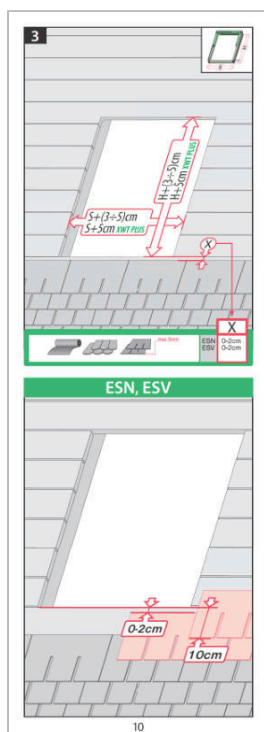


### СТРАНИЦА 10 ОД ОРИГИНАЛОТ

#### Ознаки на цртежите

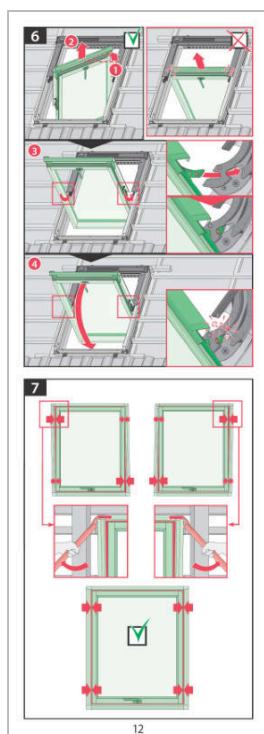
max 5mm

најмногу 5 mm



## ПРЕВОД НА МАКЕДОНСКИ ЈАЗИК (НЕОФИЦИЈАЛЕН)

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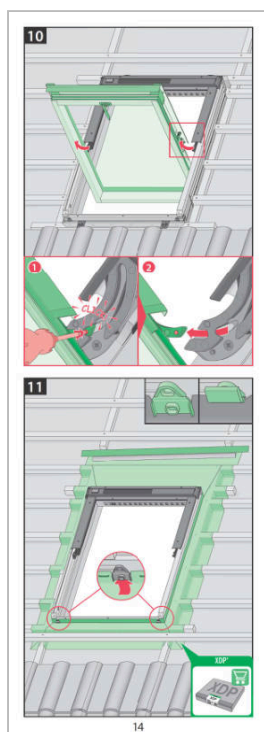


### СТРАНИЦА 12 ОД ОРИГИНАЛОТ

#### Ознаки на цртежите

CLICK!

клик!



### СТРАНИЦА 14 ОД ОРИГИНАЛОТ

#### Ознаки на цртежите

CLICK!

клик!

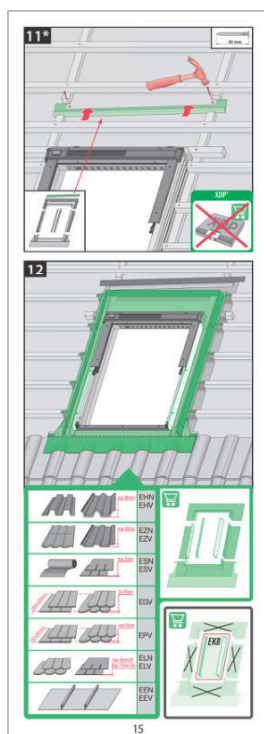
## ПРЕВОД НА МАКЕДОНСКИ ЈАЗИК (НЕОФИЦИЈАЛЕН)

Ова не е оригиналниот документ на производителот. Меродавен е оригиналот, приложен по преводот: fakro-ftp-v-solar-installation-multi.pdf.

### СТРАНИЦА 15 ОД ОРИГИНАЛОТ

#### Ознаки на цртежите

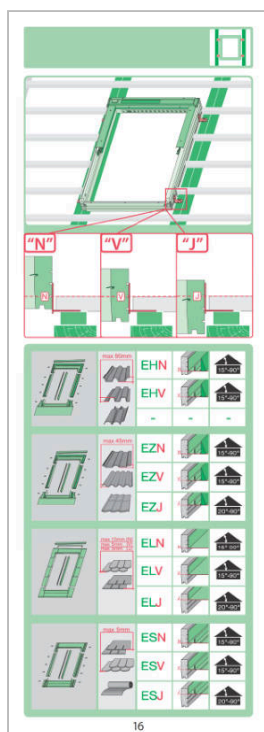
|              |                    |
|--------------|--------------------|
| max 90mm     | најмногу 90 mm     |
| max 45mm     | најмногу 45 mm     |
| max 5mm      | најмногу 5 mm      |
| max 18mm     | најмногу 18 mm     |
| max 5mm (V)  | најмногу 5 mm (V)  |
| max 15mm (N) | најмногу 15 mm (N) |



### СТРАНИЦА 16 ОД ОРИГИНАЛОТ

#### Ознаки на цртежите

|              |                    |
|--------------|--------------------|
| max 90mm     | најмногу 90 mm     |
| max 45mm     | најмногу 45 mm     |
| max 15mm (N) | најмногу 15 mm (N) |
| max 5mm (V)  | најмногу 5 mm (V)  |
| max 5mm (J)  | најмногу 5 mm (J)  |
| max 5mm      | најмногу 5 mm      |



## ПРЕВОД НА МАКЕДОНСКИ ЈАЗИК (НЕОФИЦИЈАЛЕН)

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### СТРАНИЦА 18 ОД ОРИГИНАЛОТ

#### Ознаки на цртежите

max 90mm

најмногу 90 mm

max 45mm

најмногу 45 mm

max 18mm

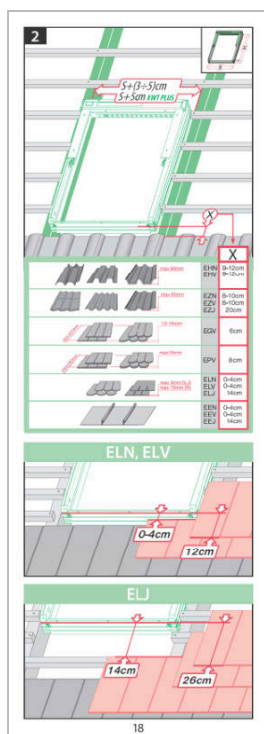
најмногу 18 mm

max 5mm (V,J)

најмногу 5 mm (V,J)

max 15mm (N)

најмногу 15 mm (N)

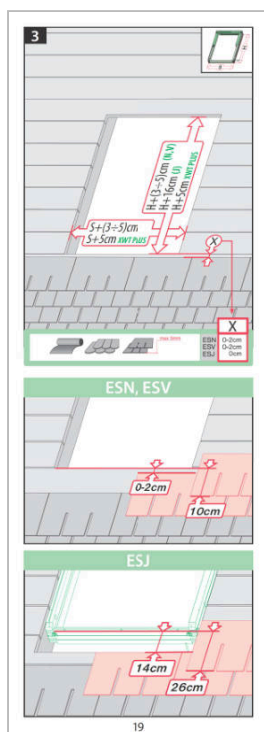


### СТРАНИЦА 19 ОД ОРИГИНАЛОТ

#### Ознаки на цртежите

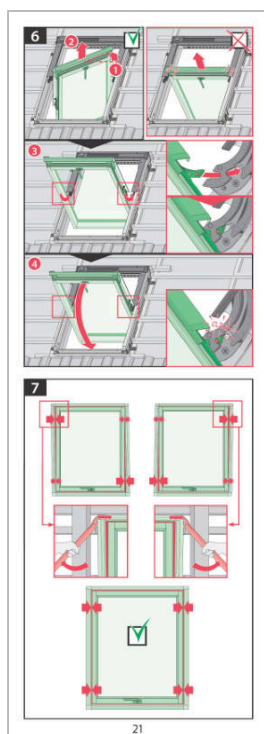
max 5mm

најмногу 5 mm



## ПРЕВОД НА МАКЕДОНСКИ ЈАЗИК (НЕОФИЦИЈАЛЕН)

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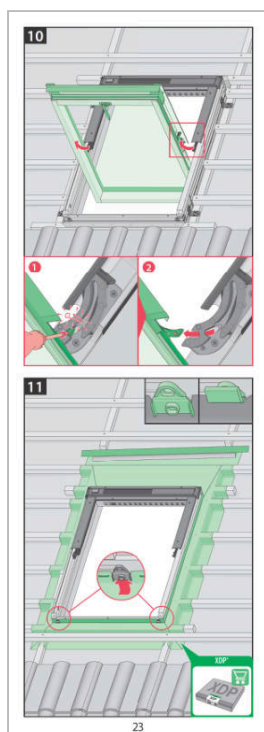


### СТРАНИЦА 21 ОД ОРИГИНАЛОТ

#### Ознаки на цртежите

CLICK!

клик!



### СТРАНИЦА 23 ОД ОРИГИНАЛОТ

#### Ознаки на цртежите

CLICK!

клик!

Ова не е оригиналниот документ на производителот. Меродавен е оригиналот, приложен по преводот: fakro-ftp-v-solar-installation-multi.pdf.



|              |                     |
|--------------|---------------------|
| max 90mm     | најмногоу 90 mm     |
| max 45mm     | најмногоу 45 mm     |
| max 5mm      | најмногоу 5 mm      |
| max 18mm     | најмногоу 18 mm     |
| max 5mm (V)  | најмногоу 5 mm (V)  |
| max 15mm (N) | најмногоу 15 mm (N) |



|     |                 |
|-----|-----------------|
| OFF | OFF (исключено) |
| ON  | ON (включено)   |

## ПРЕВОД НА МАКЕДОНСКИ ЈАЗИК (НЕОФИЦИЈАЛЕН)

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### СТРАНИЦА 27 ОД ОРИГИНАЛОТ

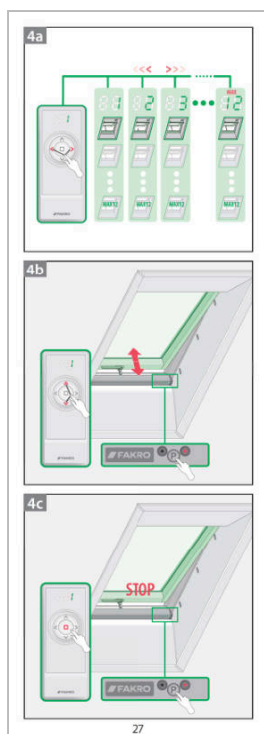
#### Ознаки на цртежите

MAX12

најмногу 12

STOP

стоп (запирање)

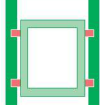
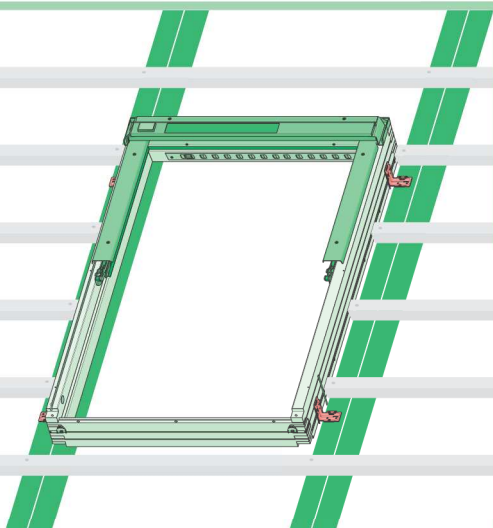
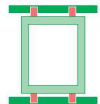
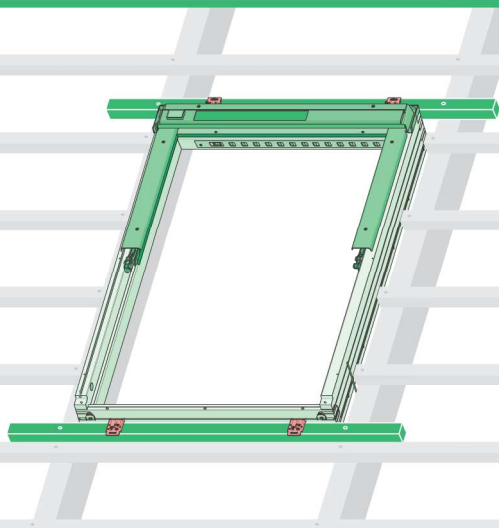
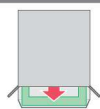


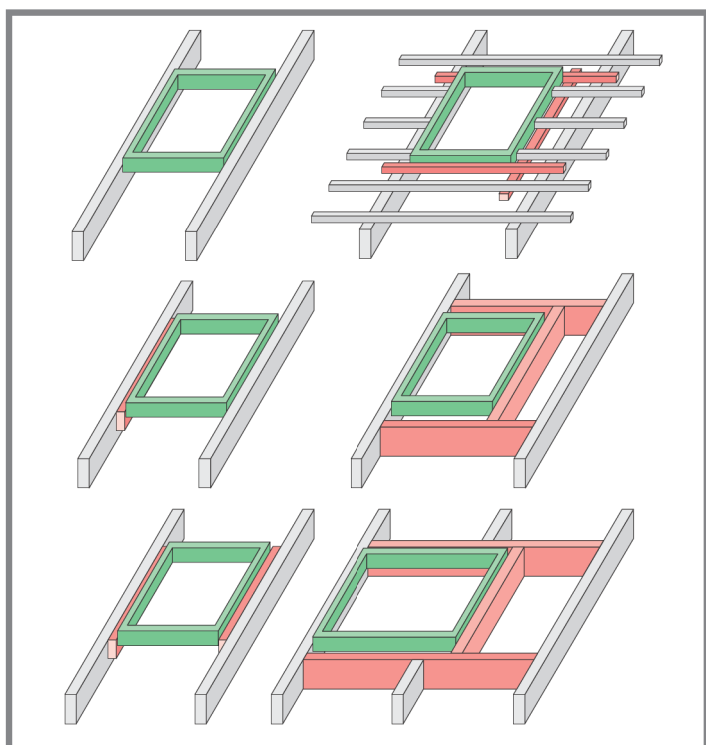
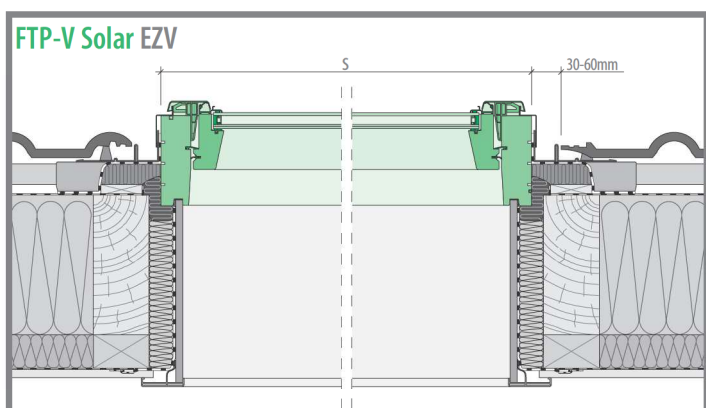
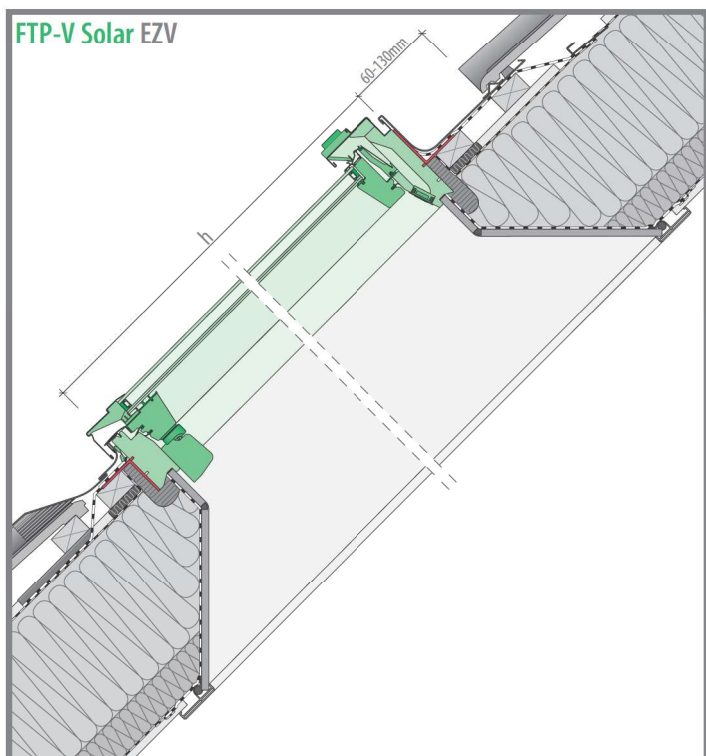
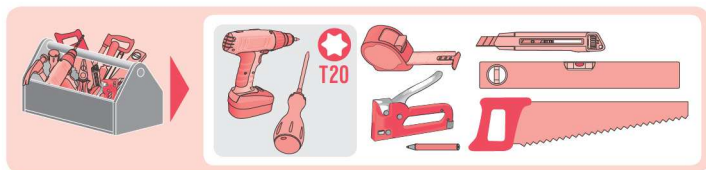
### СТРАНИЦА 28 ОД ОРИГИНАЛОТ

Производителот и продавачот не сносат никаква одговорност за непочитување на важечките закони, градежните прописи и безбедносните барања од страна на корисникот на производот, архитектот, монтерот или сопственикот на објектот.



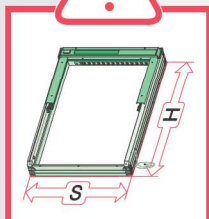
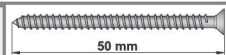
# FTP-V Solar FTU-V Solar FTW-V Solar





3

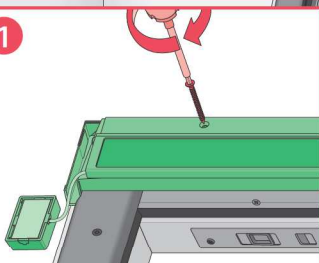
2\*



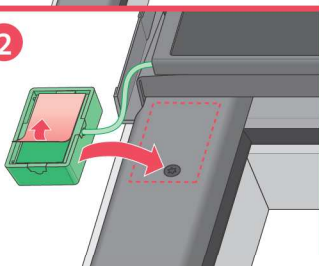
S = 46cm, 48cm



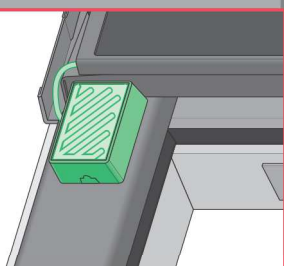
1



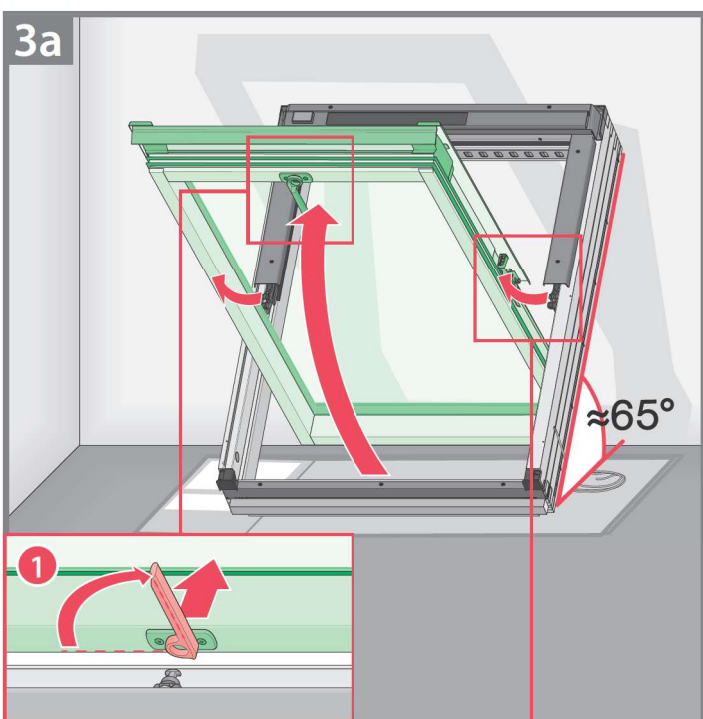
2



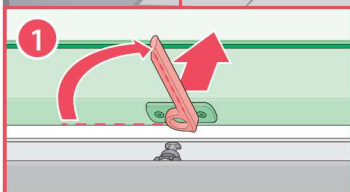
3



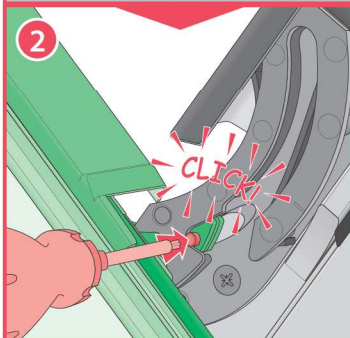
3a



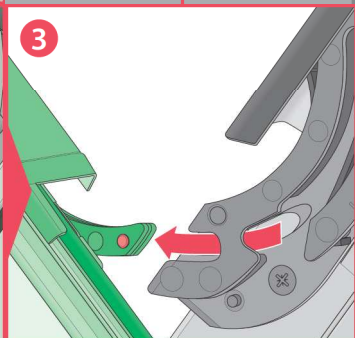
1



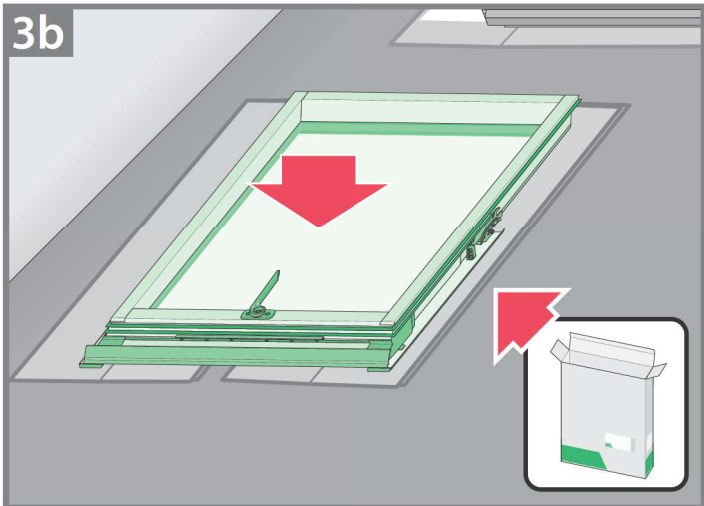
2



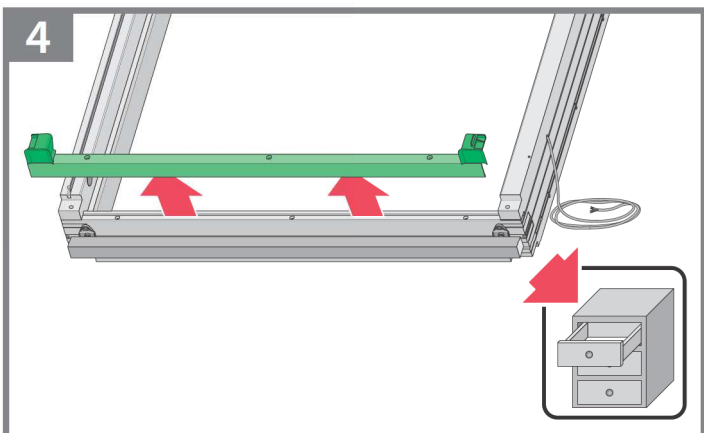
3



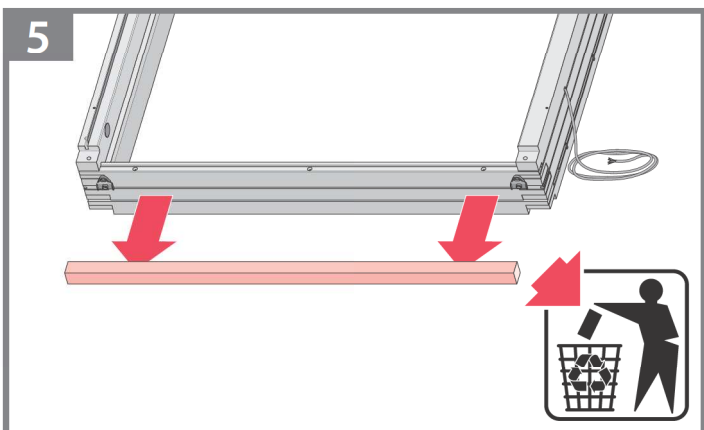
3b

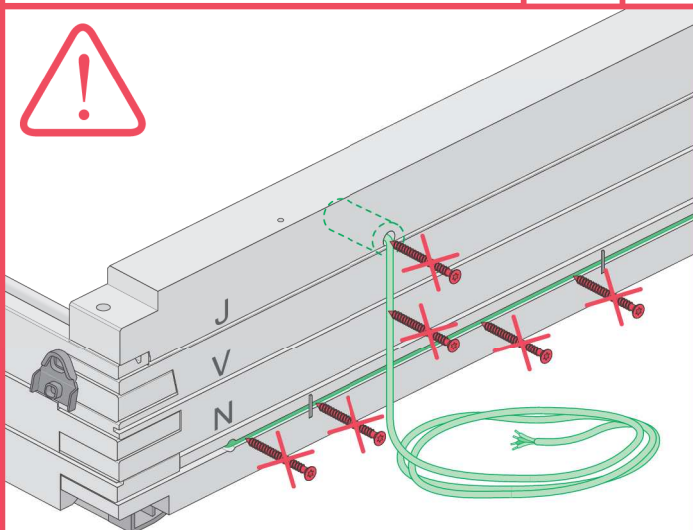
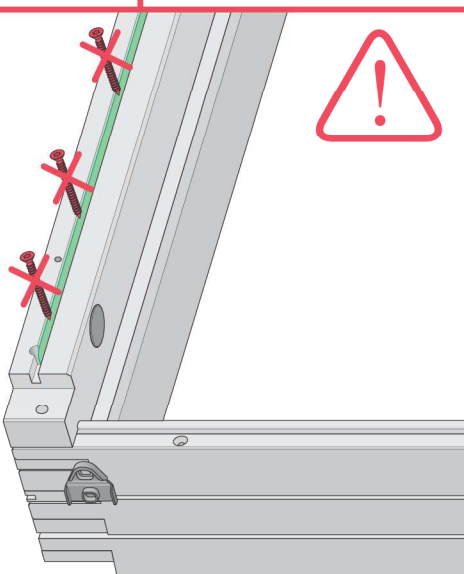
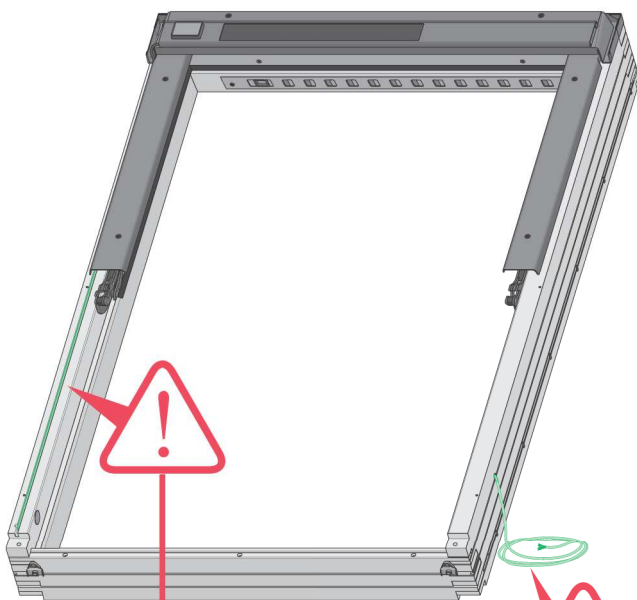


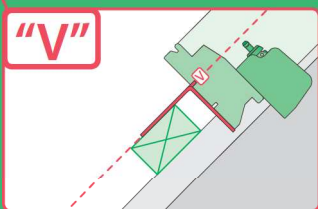
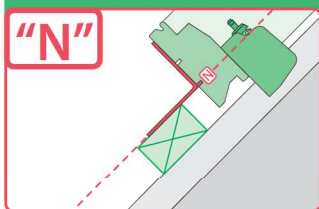
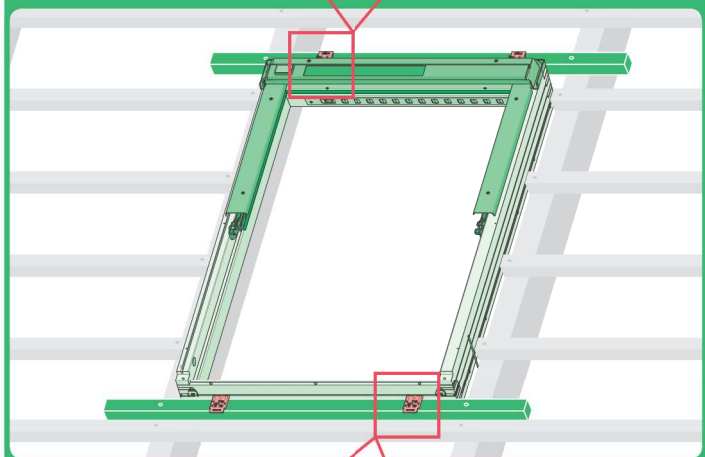
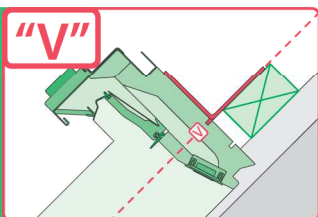
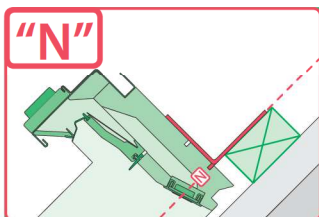
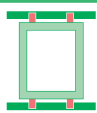
4



5





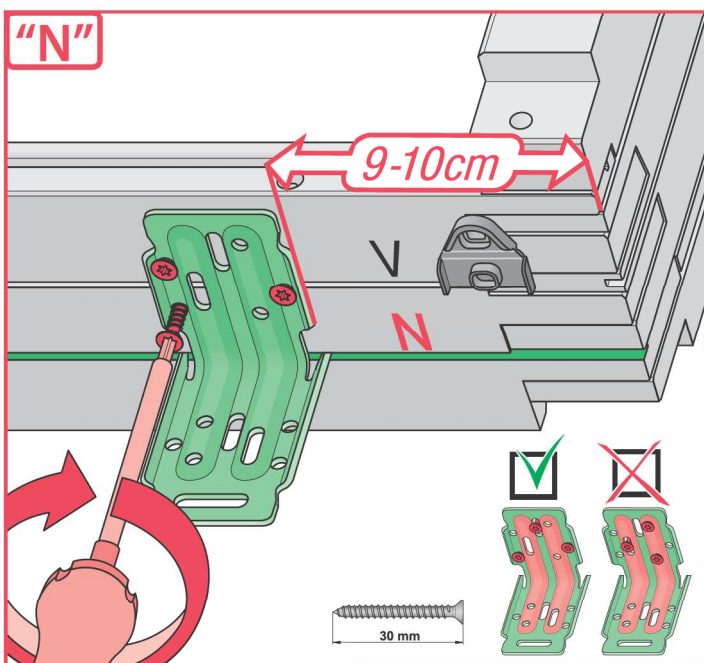


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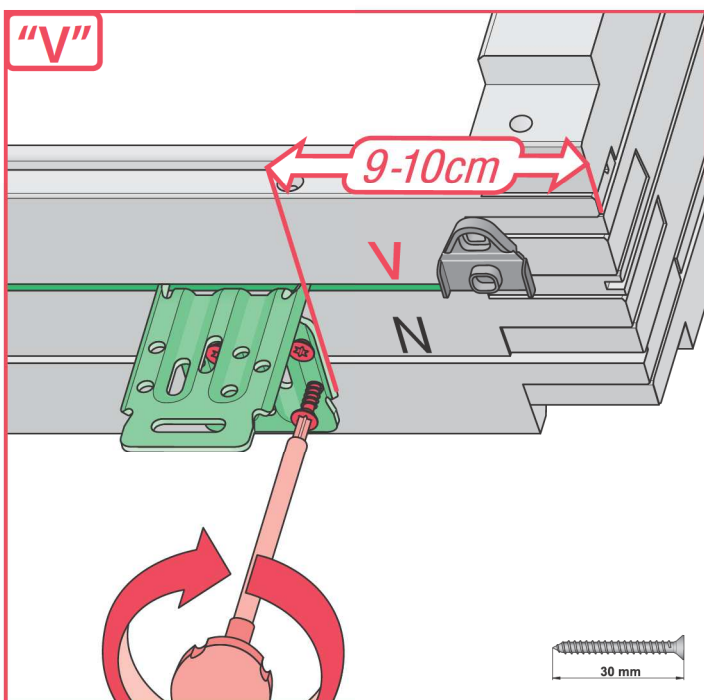
1



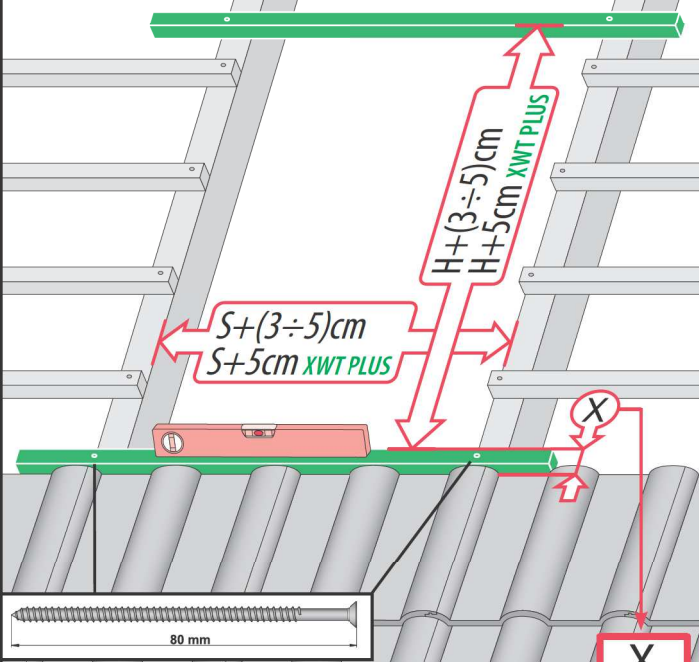
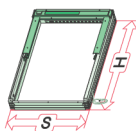
"N"



"V"



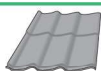
2



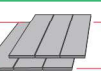
X



max 90mm

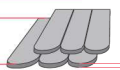
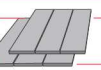
EHN 7-10cm  
EHV 7-10cm

max 45mm

EZN 6-8cm  
EZV 6-8cm

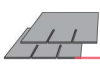
12-16mm

EGV 6cm

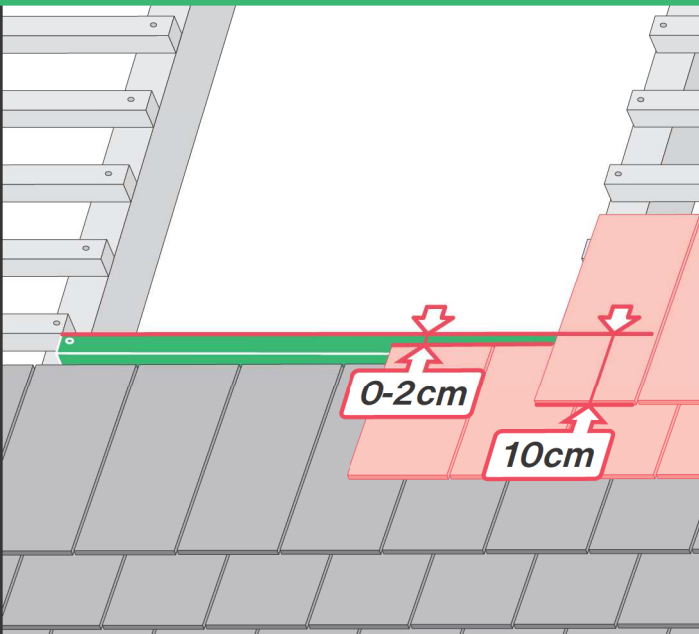


12-16mm

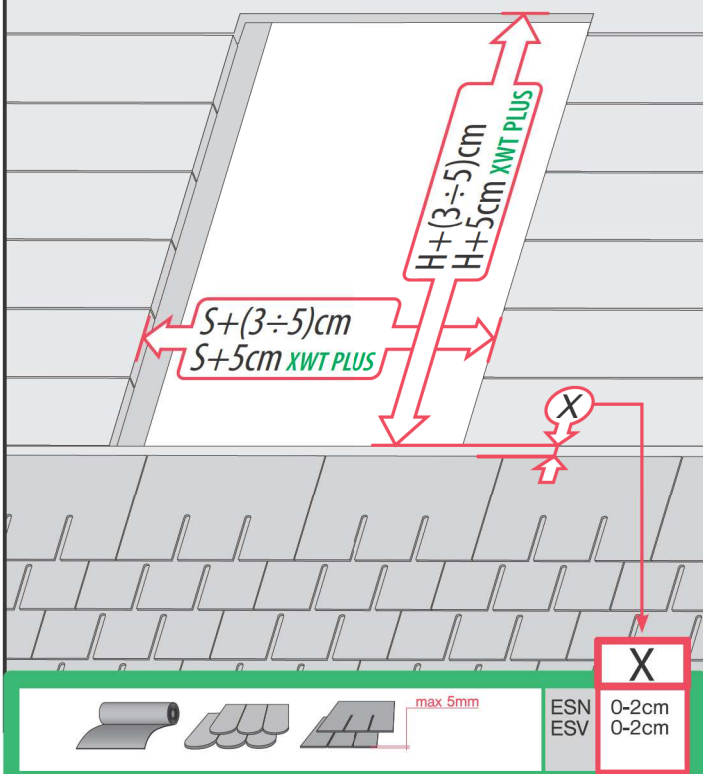
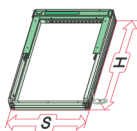
EPV 6cm

max 5mm (V)  
max 15mm (N)ELN 0-2cm  
ELV 0-2cmEEN 0-2cm  
EEV 0-2cm

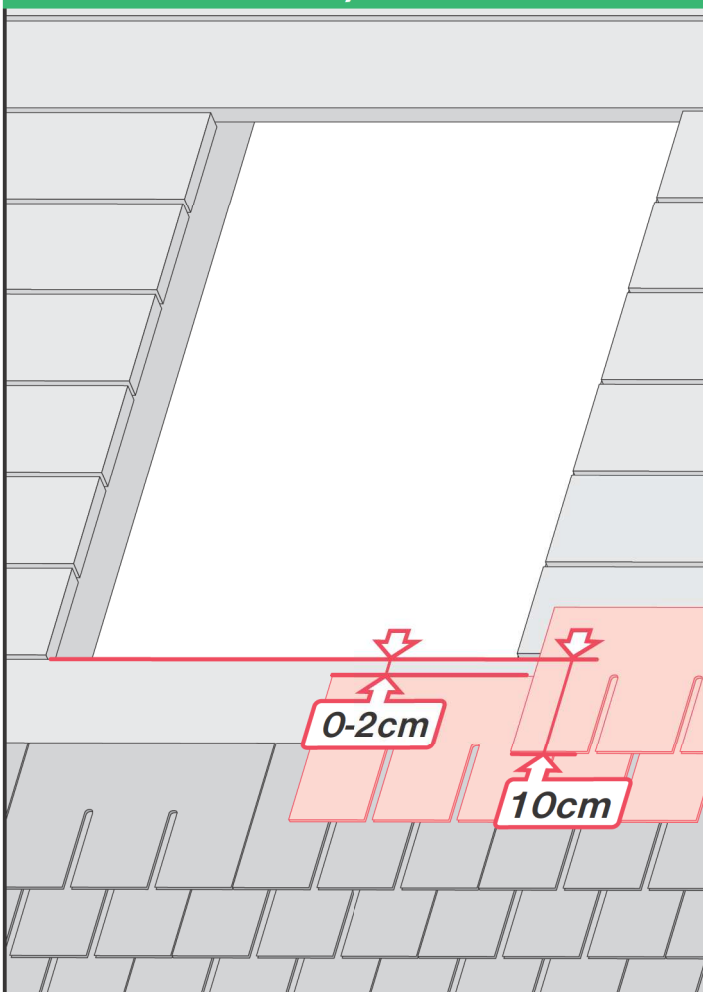
ELN, ELV



3



## ESN, ESV

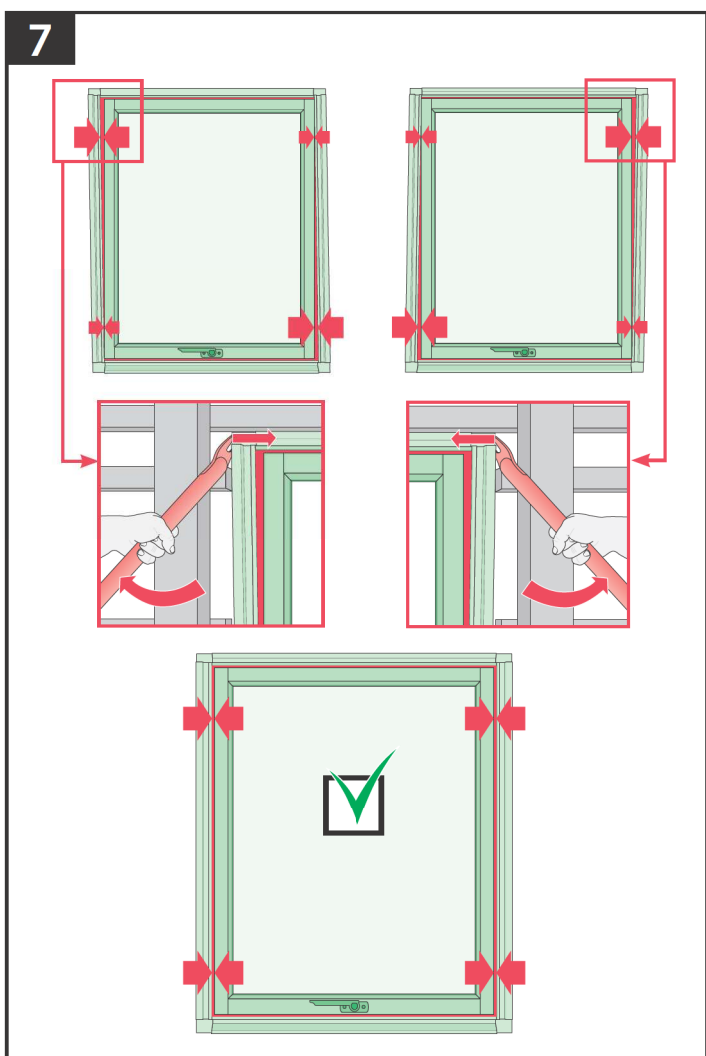
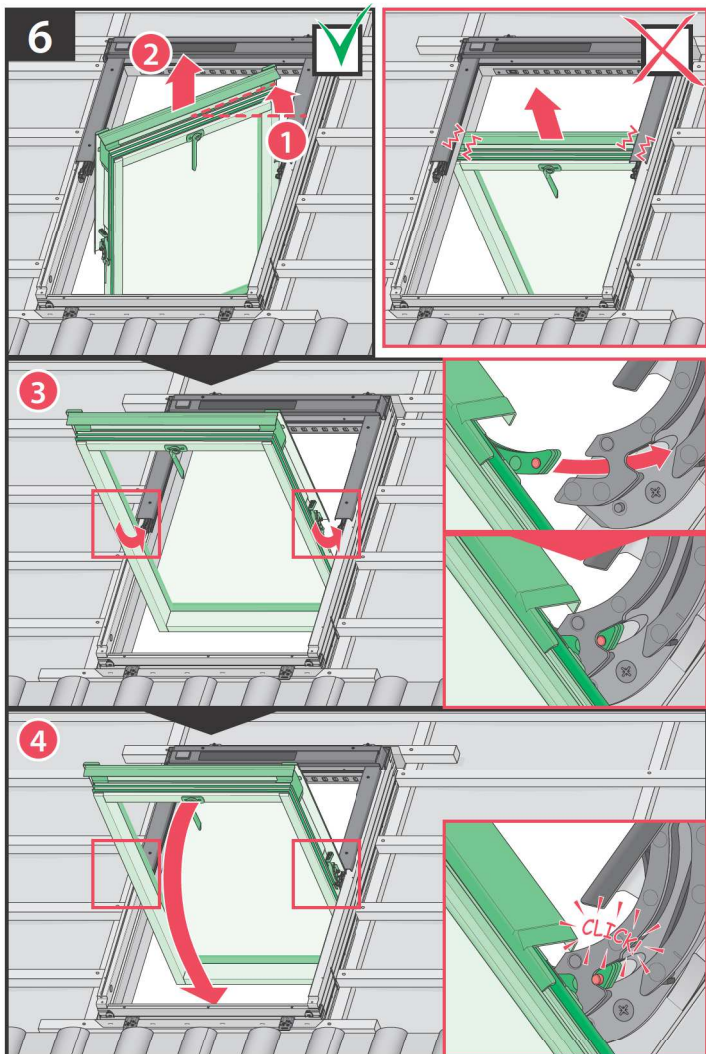


**5**

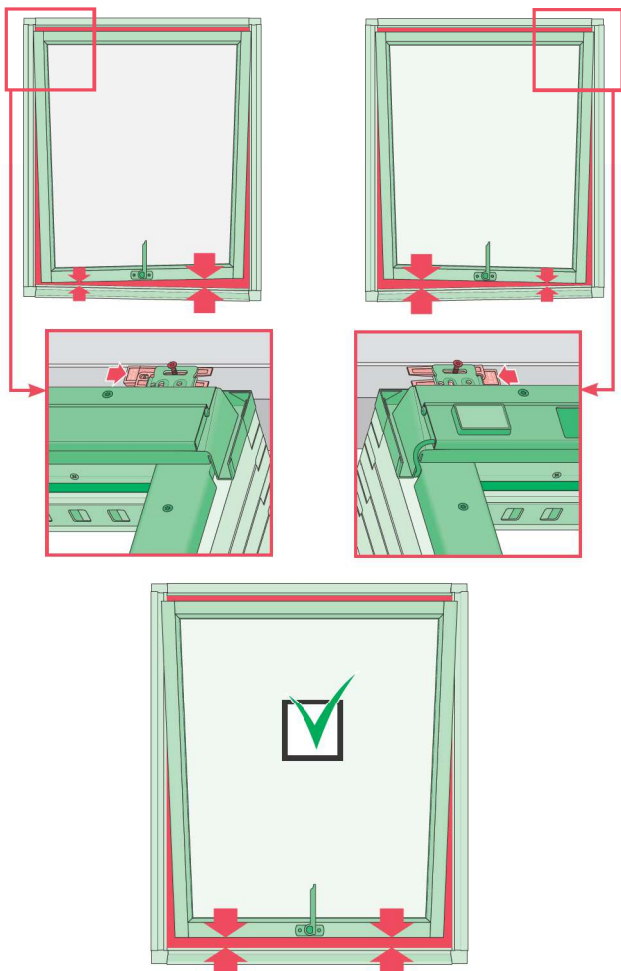
30 mm

1 cm

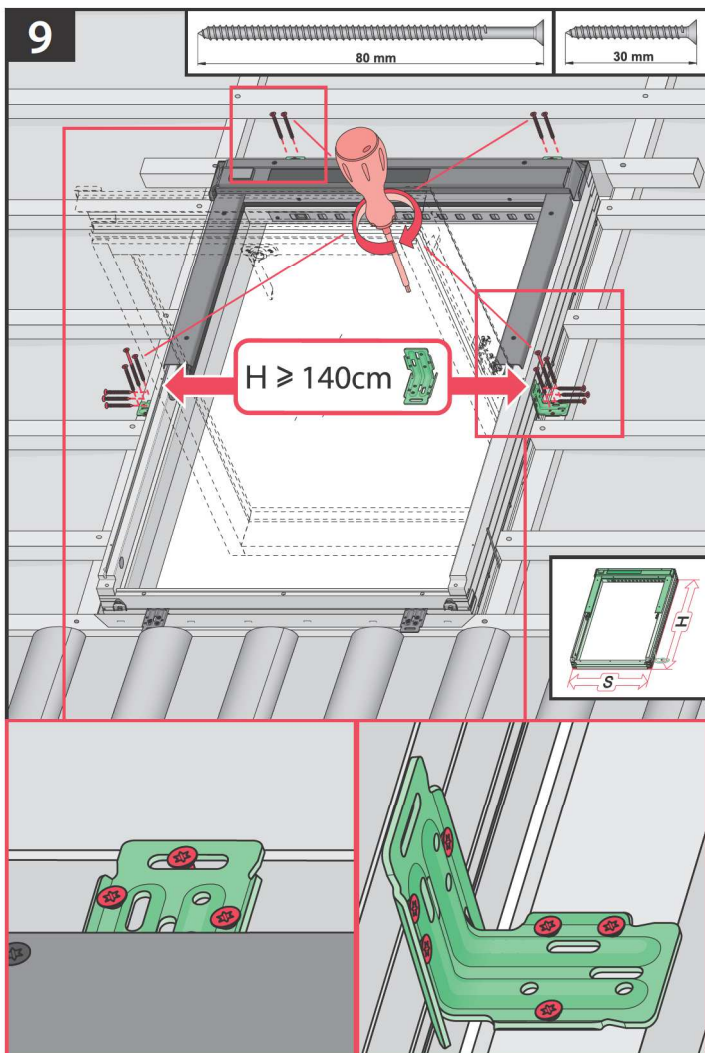
~20 cm



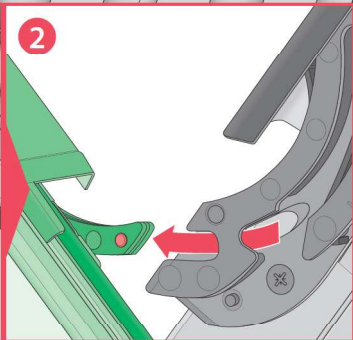
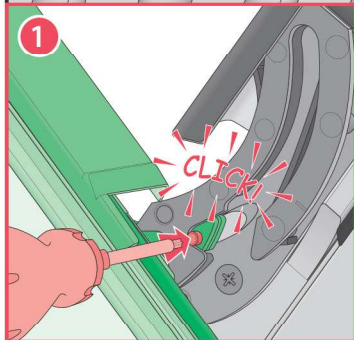
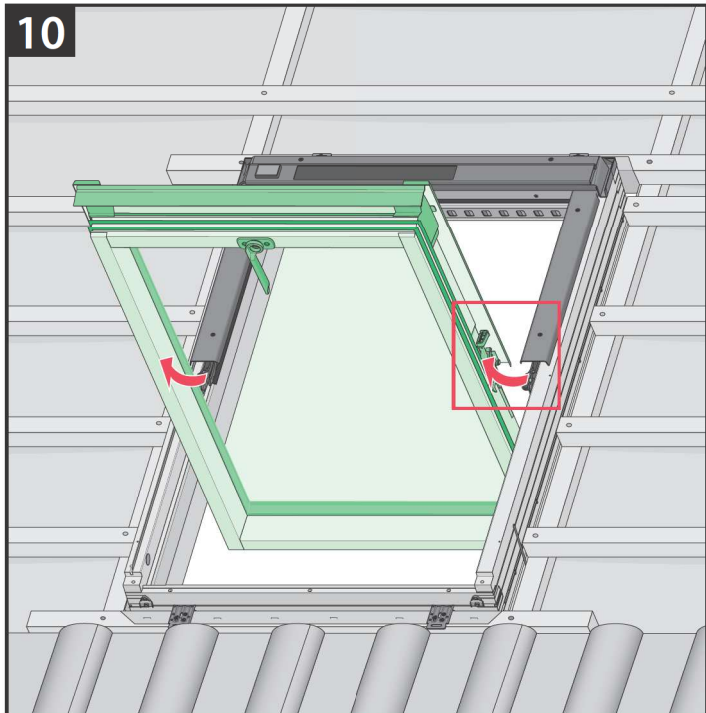
8



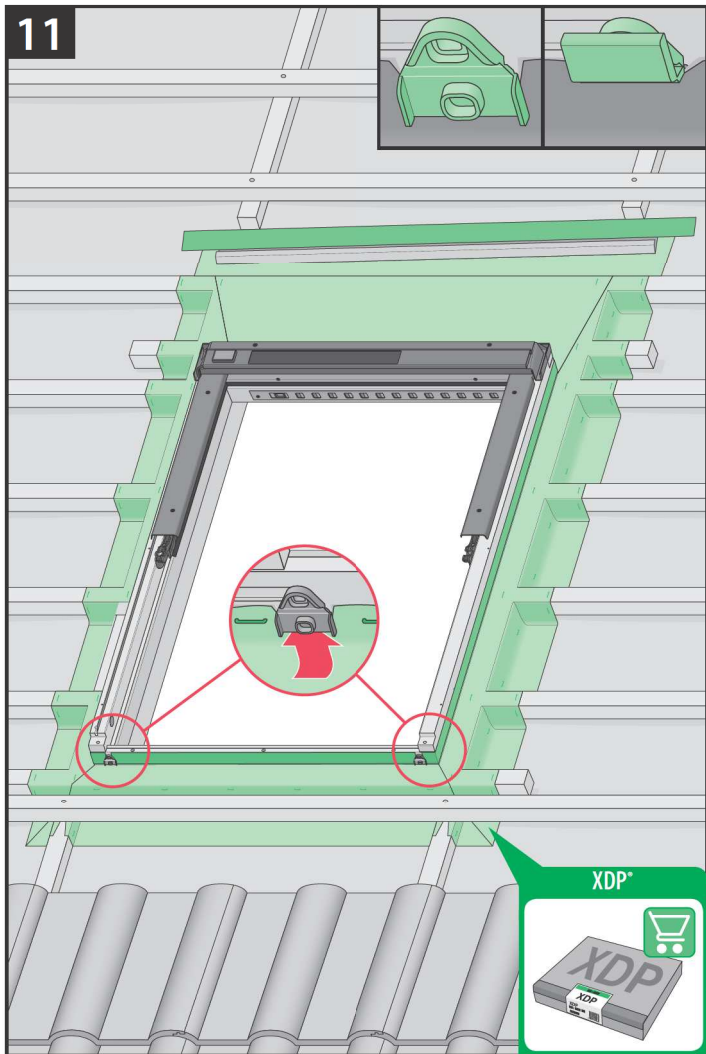
9



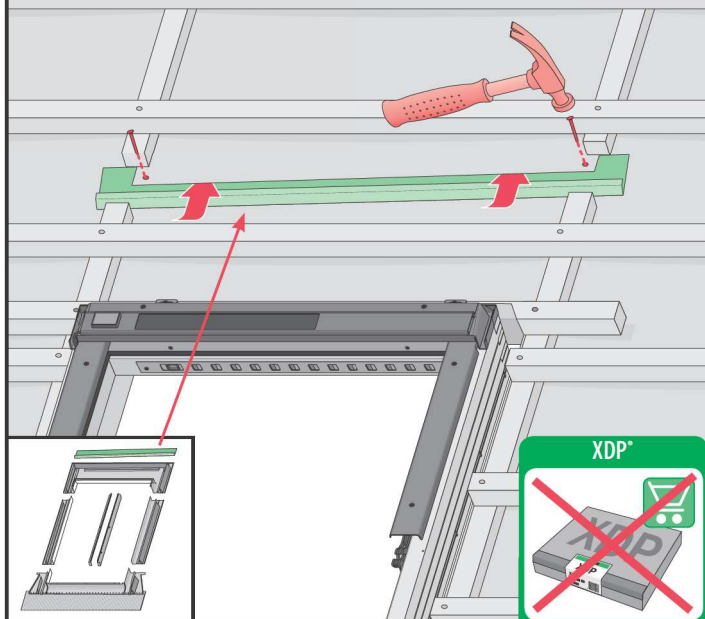
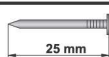
10



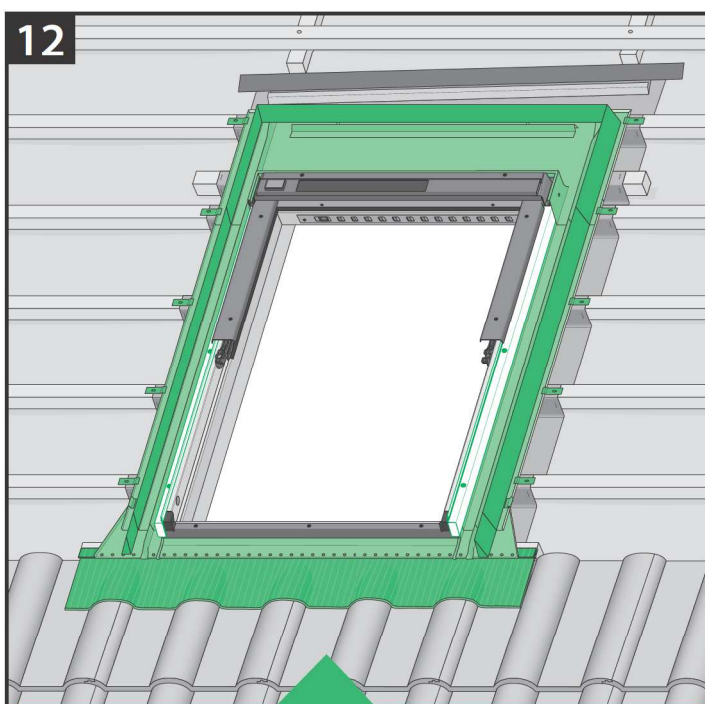
11



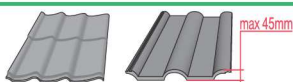
11\*



12



EHN  
EHV



EZN  
EZV



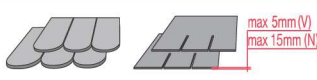
ESN  
ESV



EGV



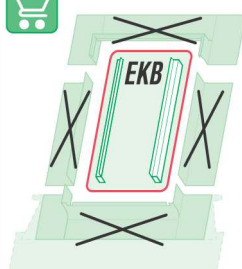
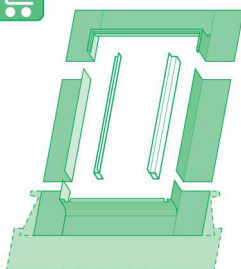
EPV

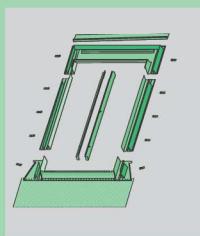
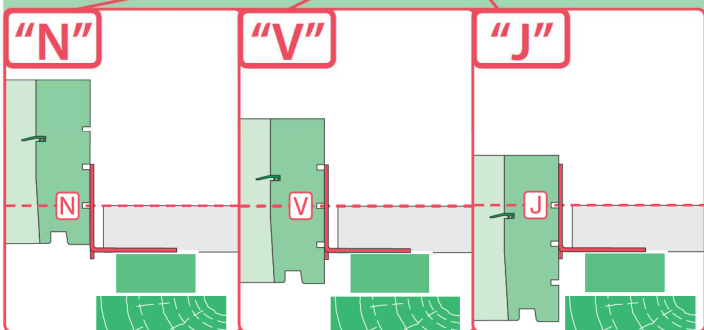
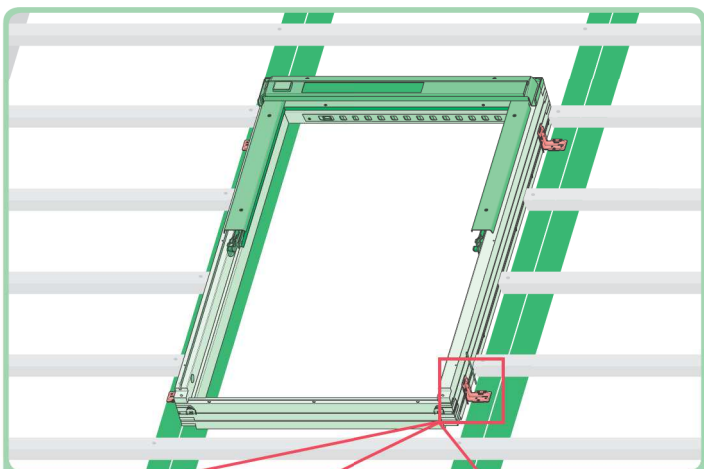
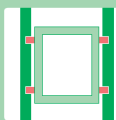


ELN  
ELV

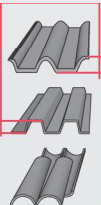


EEN  
EEV

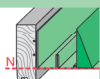




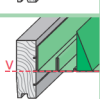
max 90mm



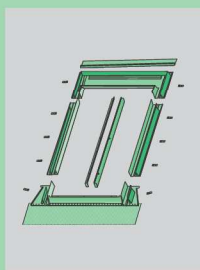
EHN



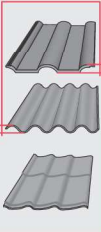
EHV



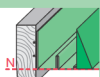
-



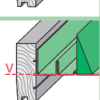
max 45mm



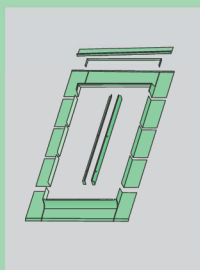
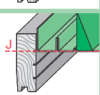
EZN



EZV



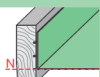
EZJ



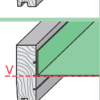
max 15mm (N)  
max 5mm (V)  
max 5mm (J)



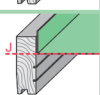
ELN



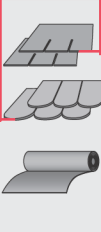
ELV



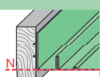
ELJ



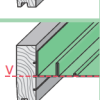
max 5mm



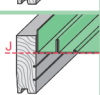
ESN



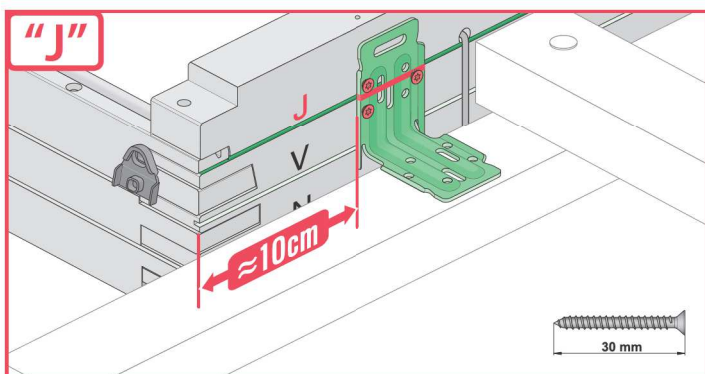
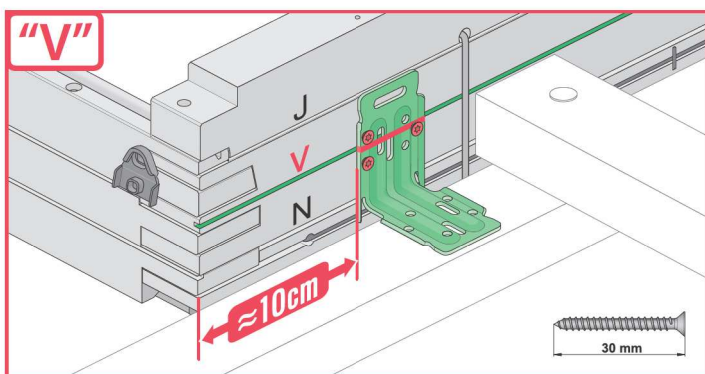
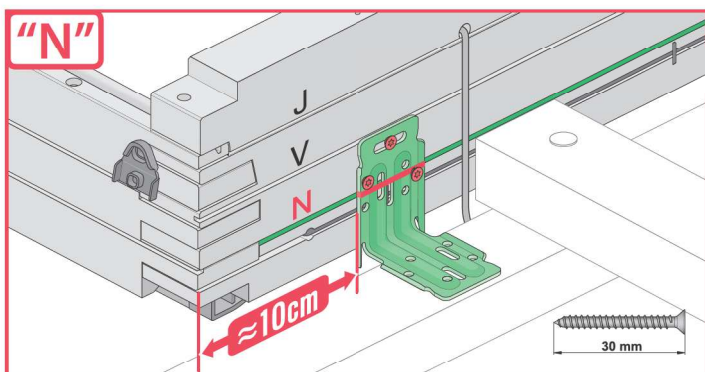
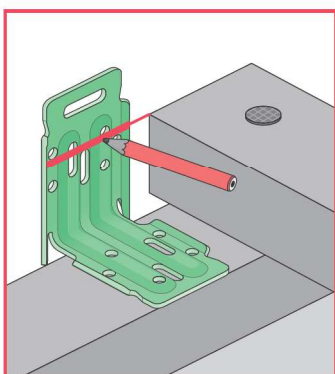
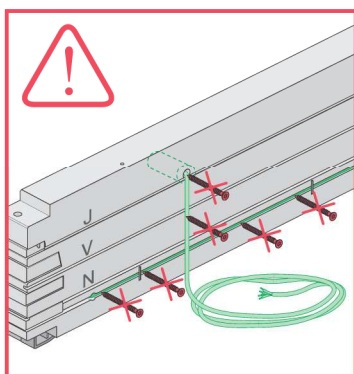
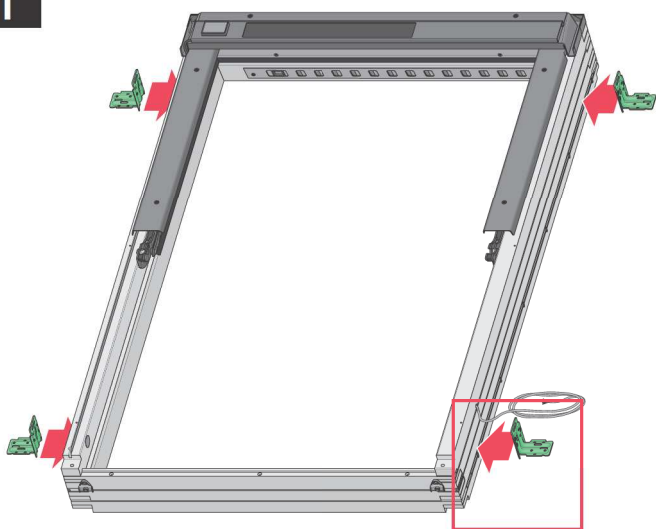
ESV



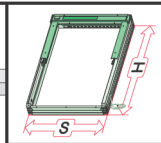
ESJ



1



2



$S + (3 \div 5) \text{ cm}$   
 $S + 5 \text{ cm XWT PLUS}$

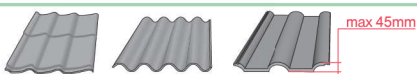


X



max 90mm

EHN 9-12cm  
 EHV 9-12cm



max 45mm

EZN 8-10cm  
 EZV 8-10cm  
 EZJ 20cm



12-16mm

EGV 6cm



max 18mm

EPV 8cm



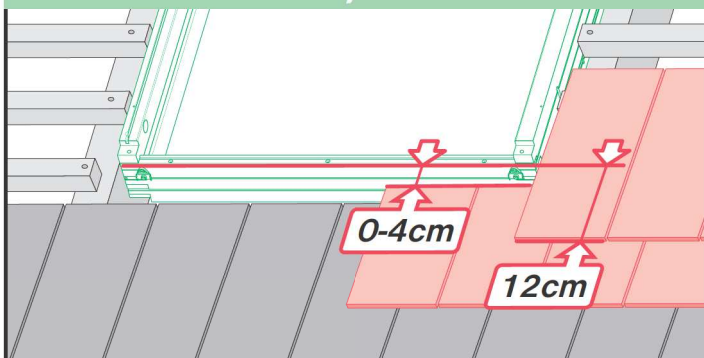
max 5mm (V,J)  
 max 15mm (N)

ELN 0-4cm  
 ELV 0-4cm  
 ELJ 14cm



EEN 0-4cm  
 EEV 0-4cm  
 EEJ 14cm

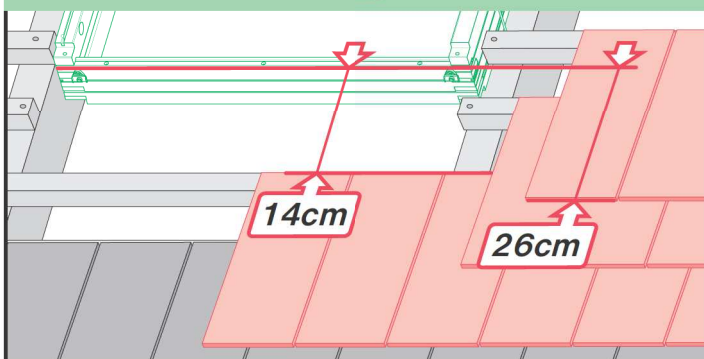
ELN, ELV



0-4cm

12cm

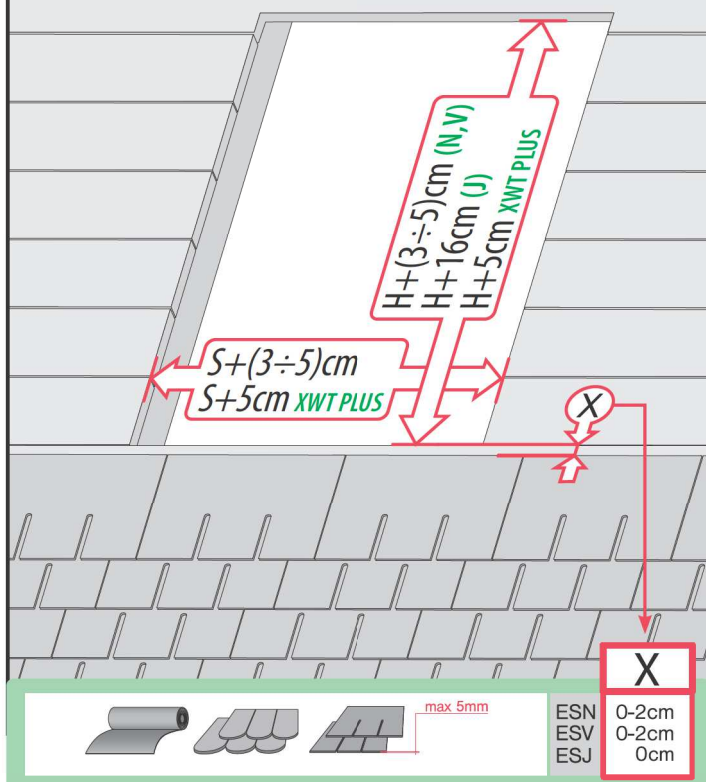
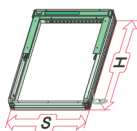
ELJ



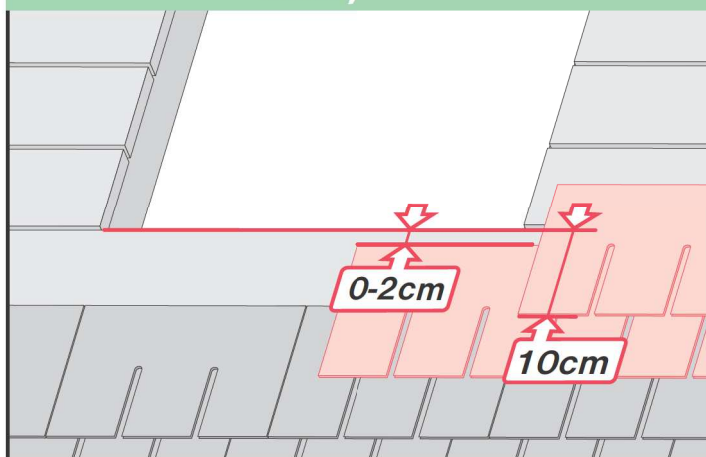
14cm

26cm

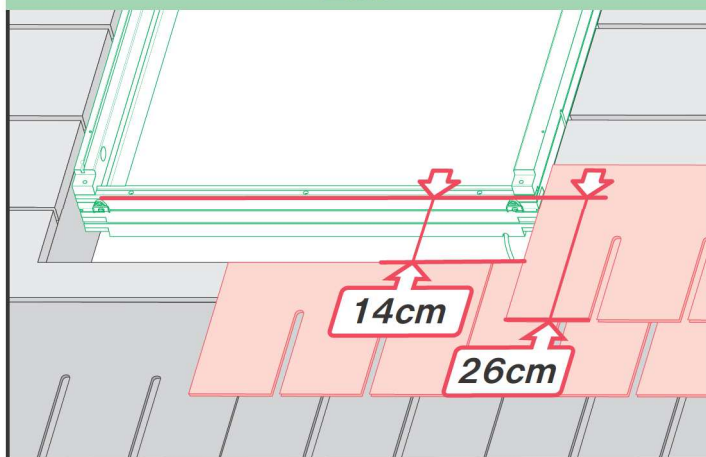
3



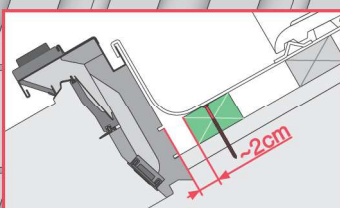
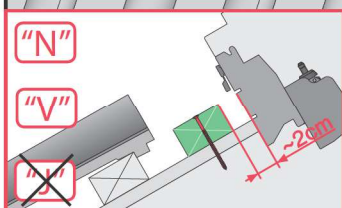
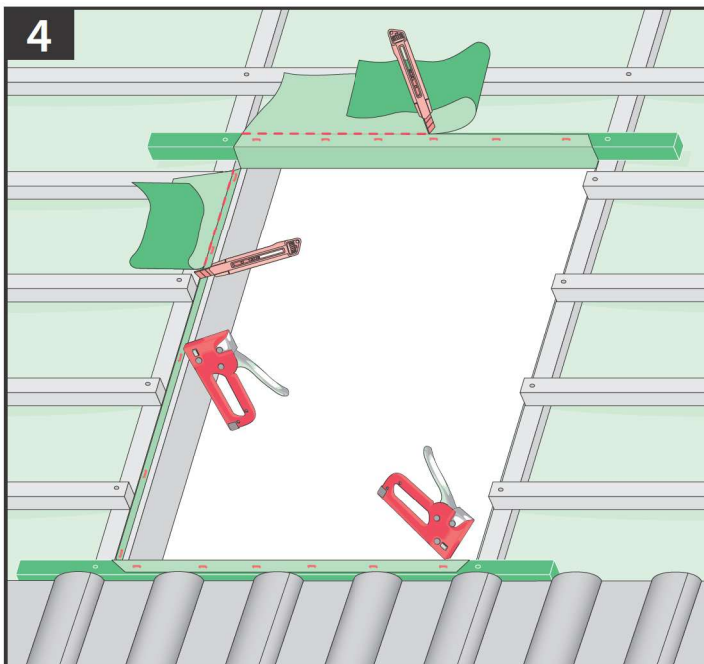
## ESN, ESV



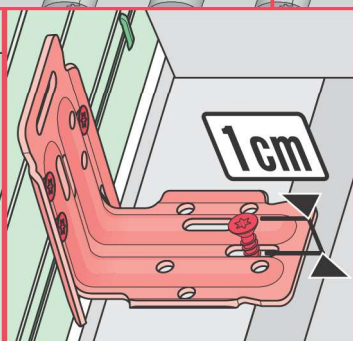
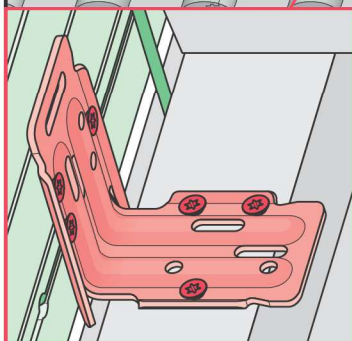
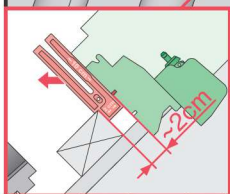
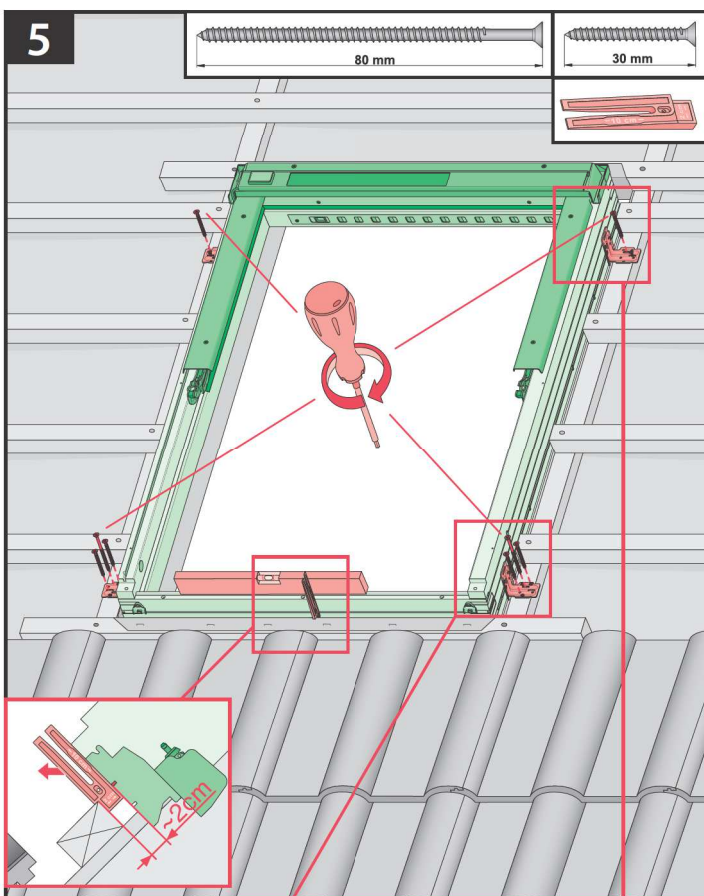
## ESJ

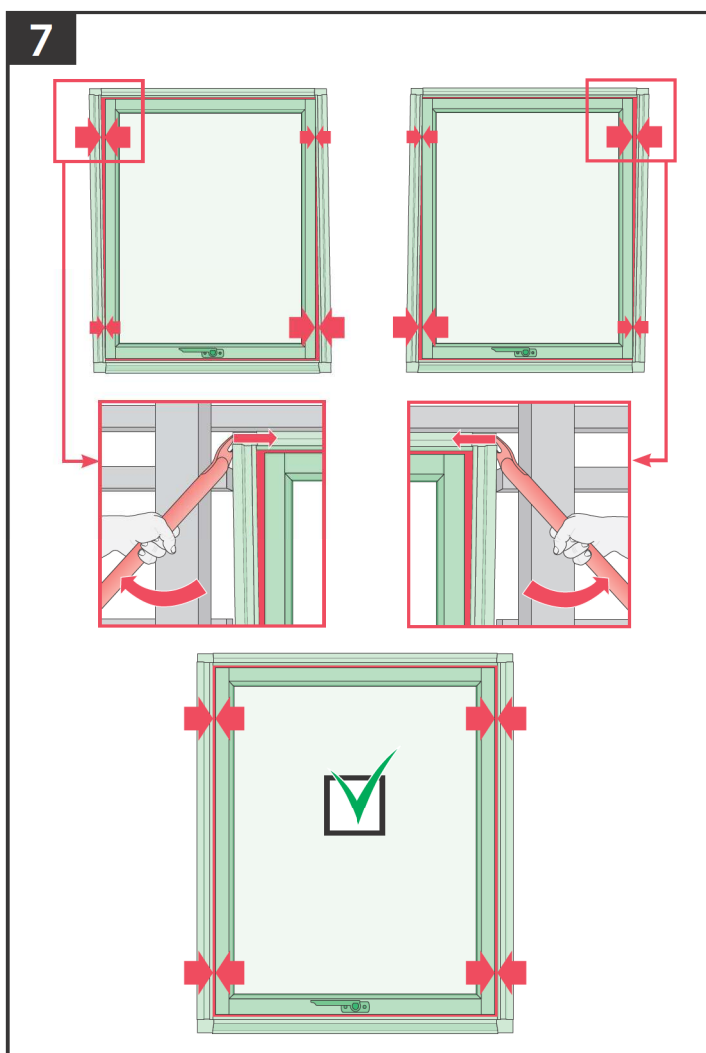
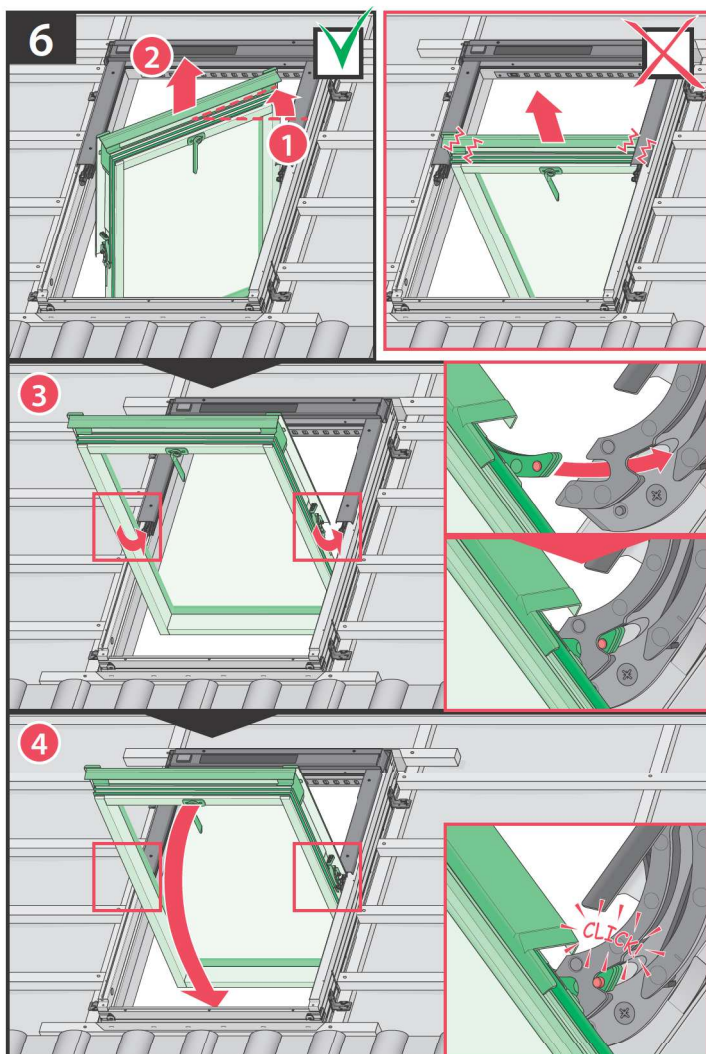


4

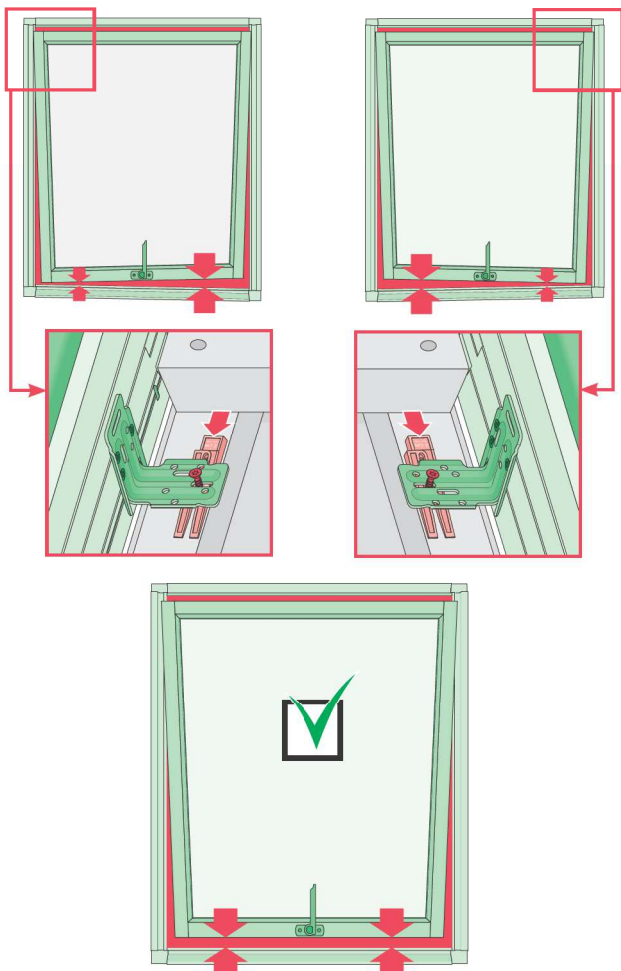


5

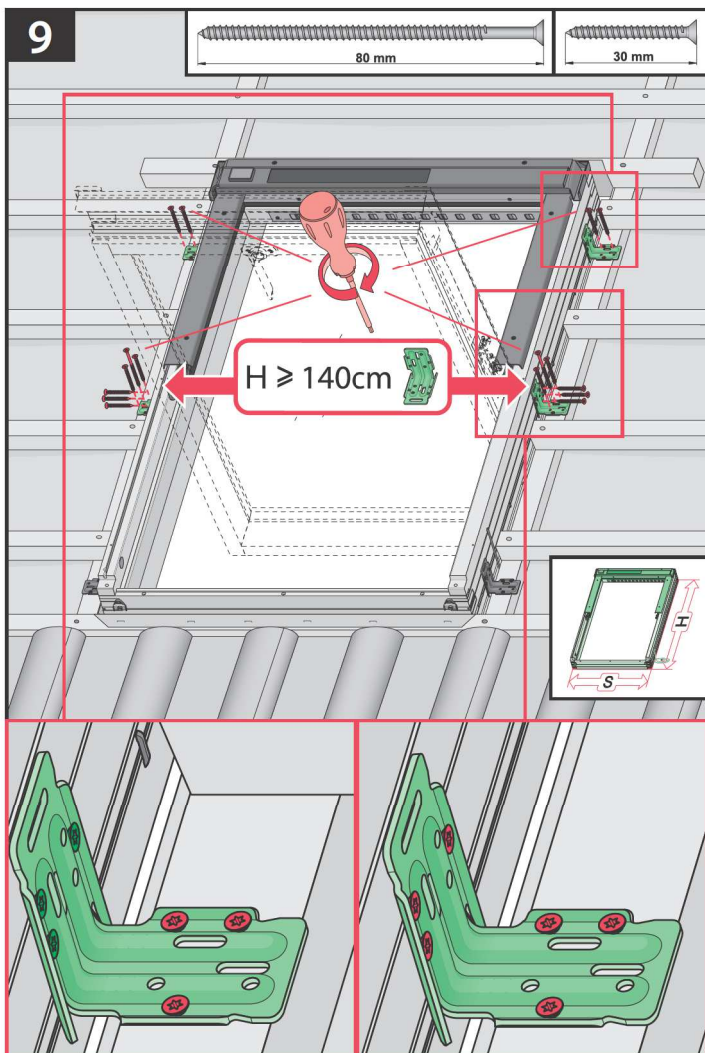




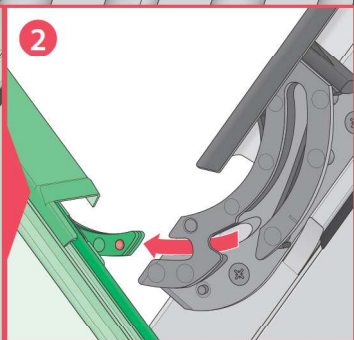
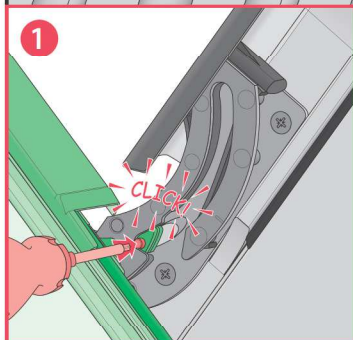
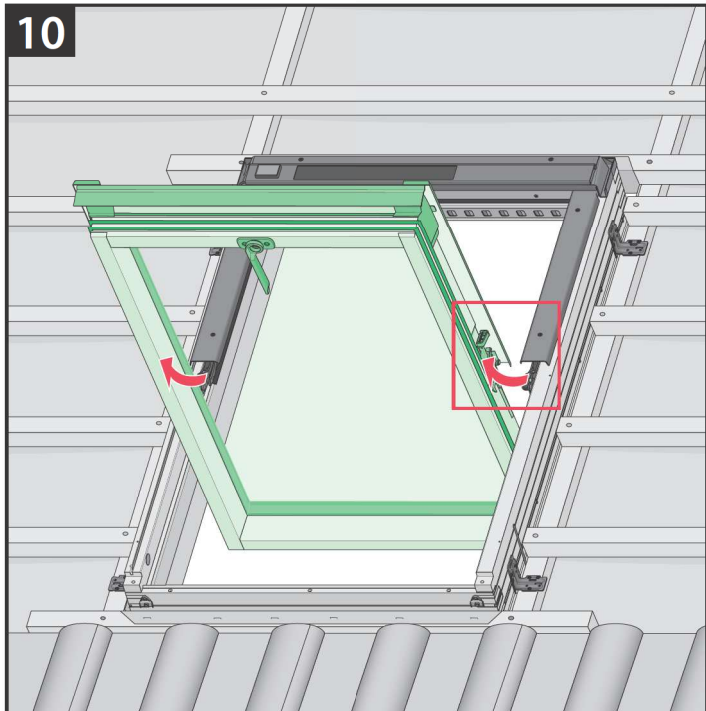
8



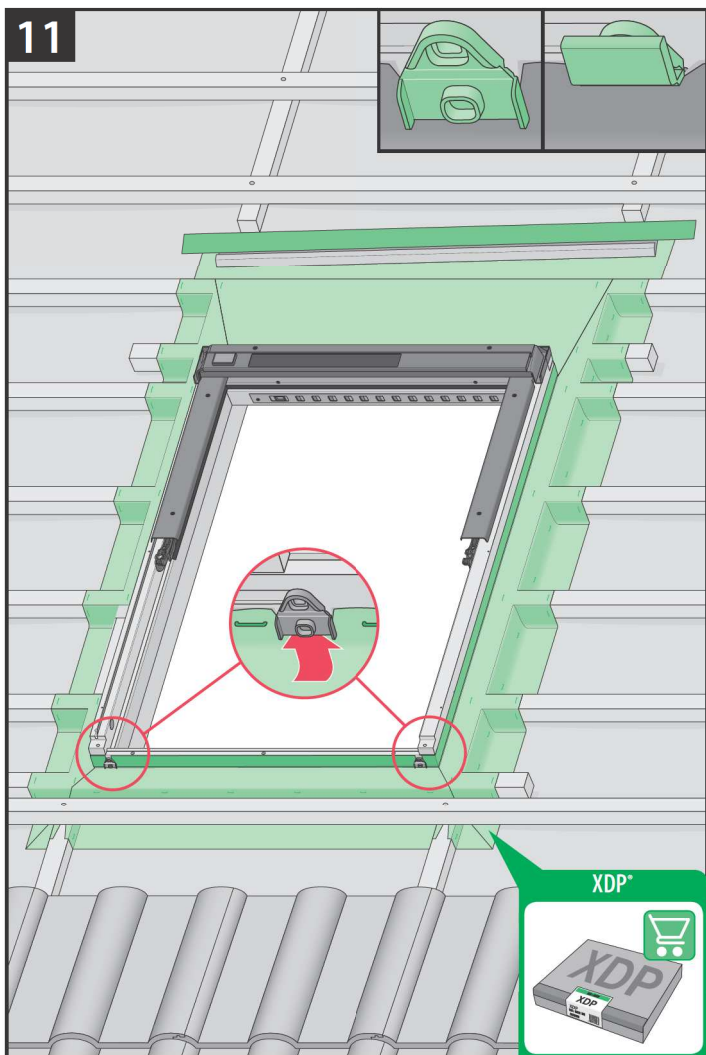
9



10

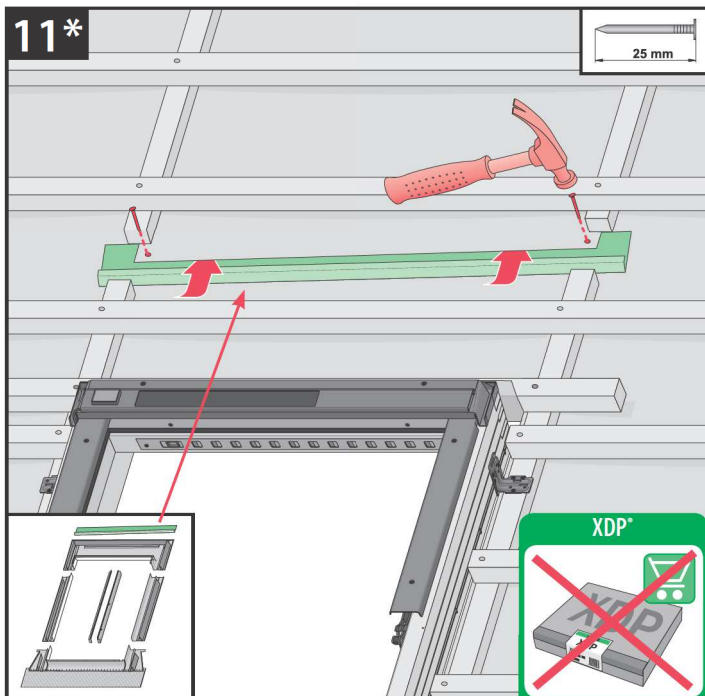


11

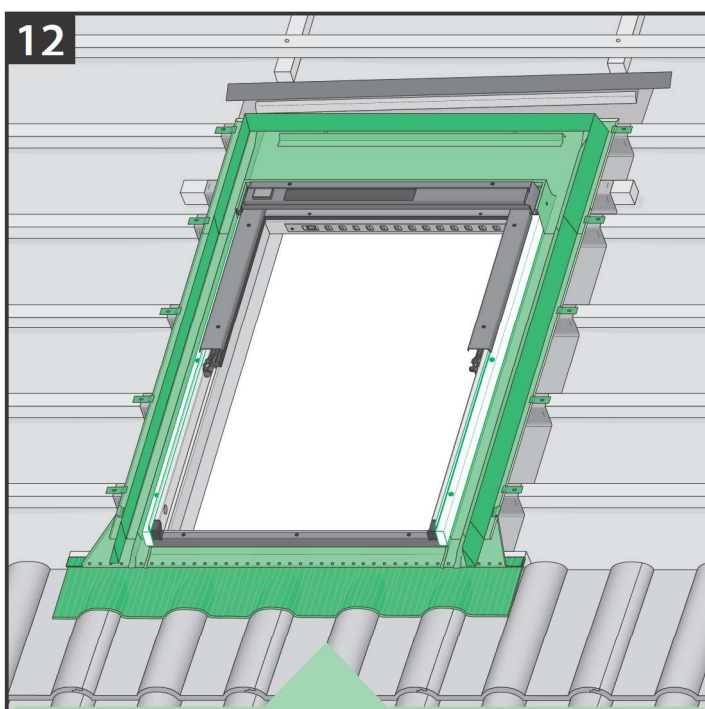


11\*

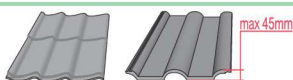
25 mm



12



EHN  
EHV



EZN  
EZV  
EZJ



ESN  
ESV  
ESJ



EGV



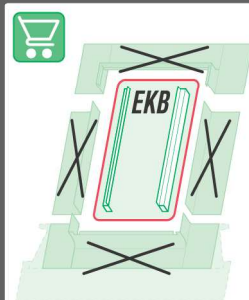
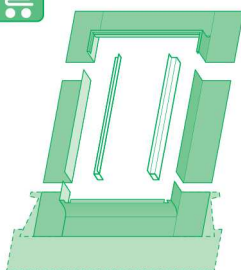
EPV

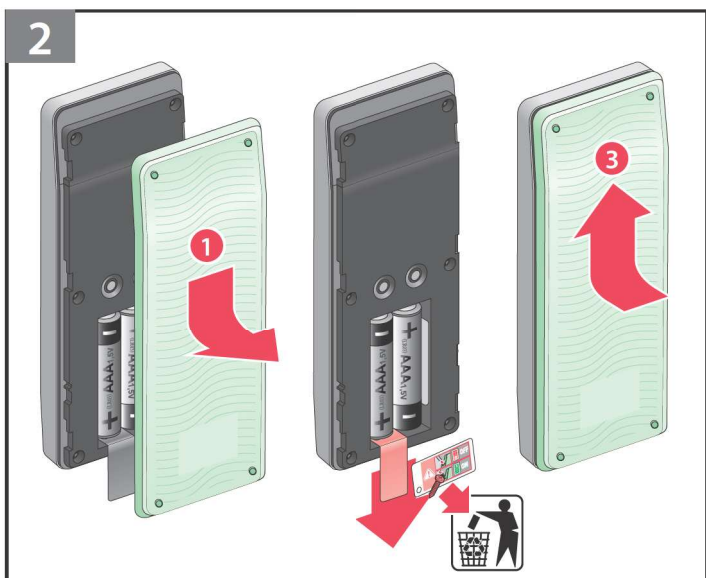
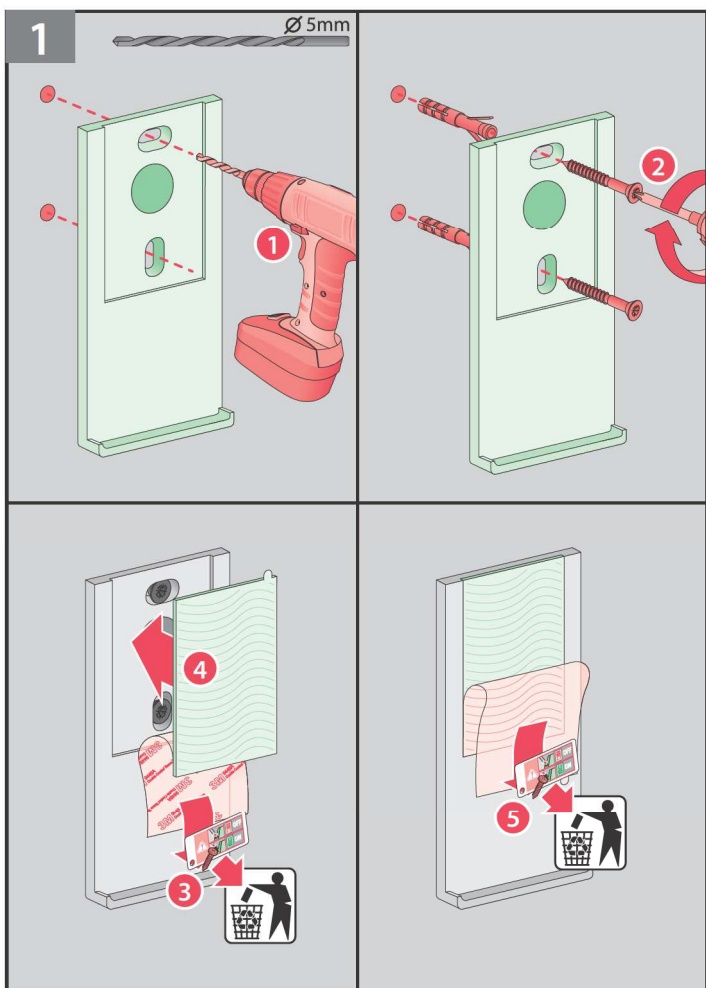


ELN  
ELV  
ELJ

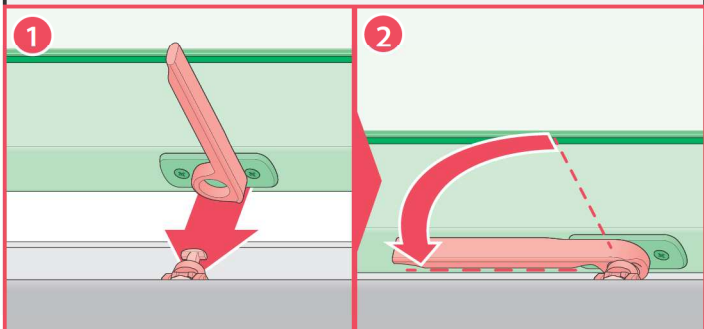
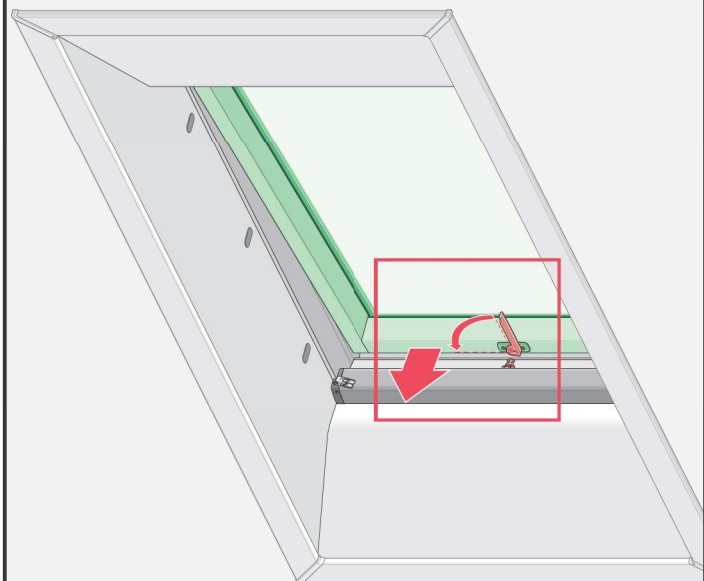


EEN  
EEV  
EEJ

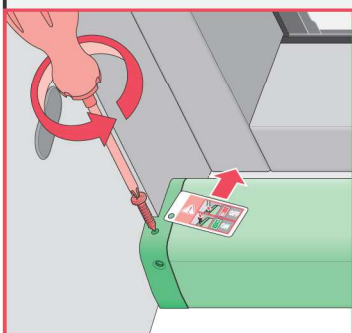
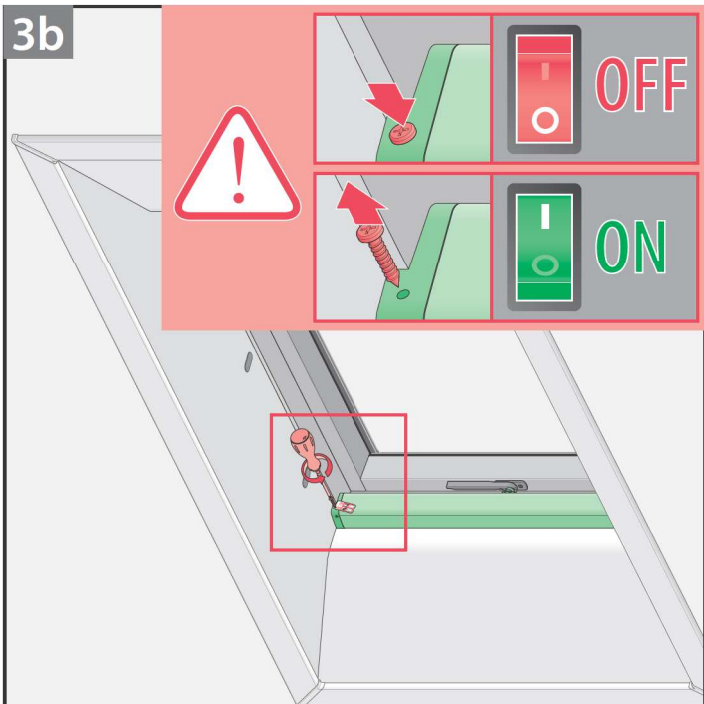




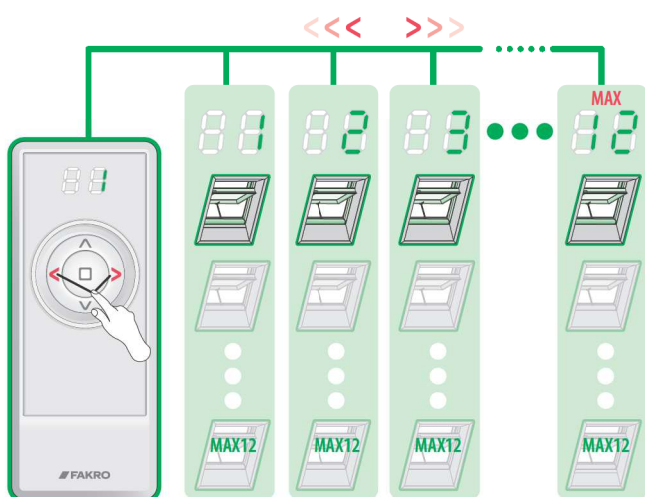
3a



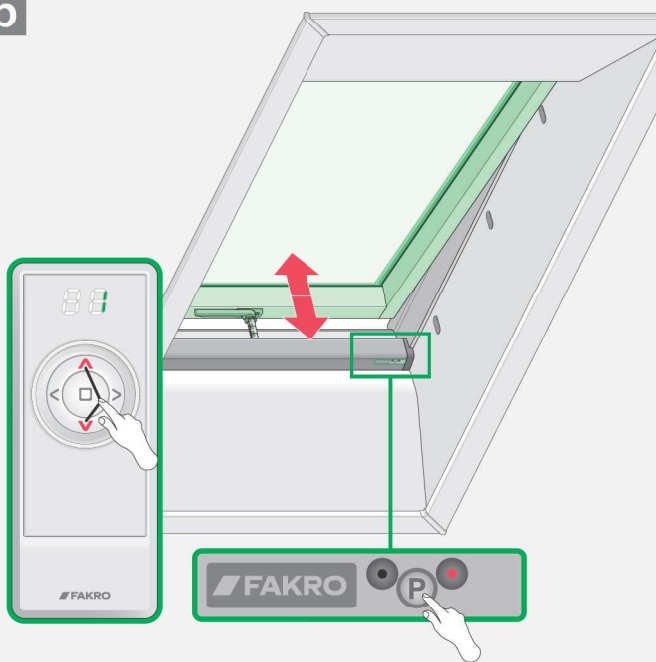
3b



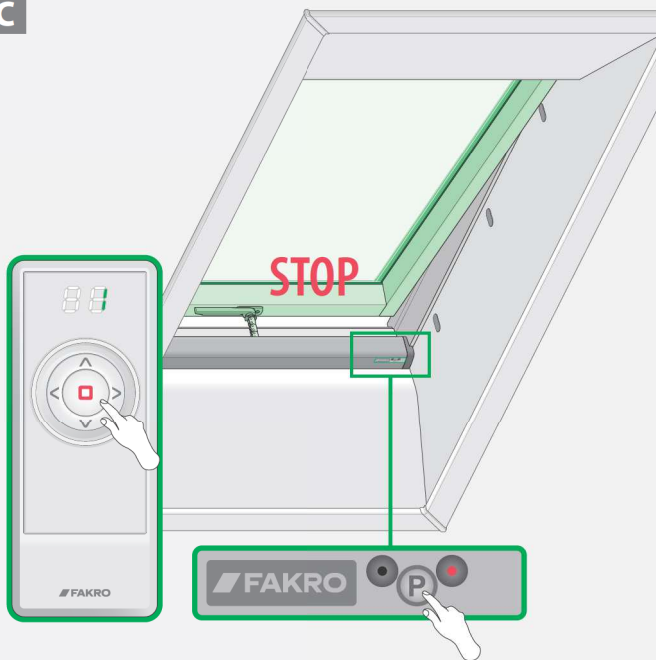
4a

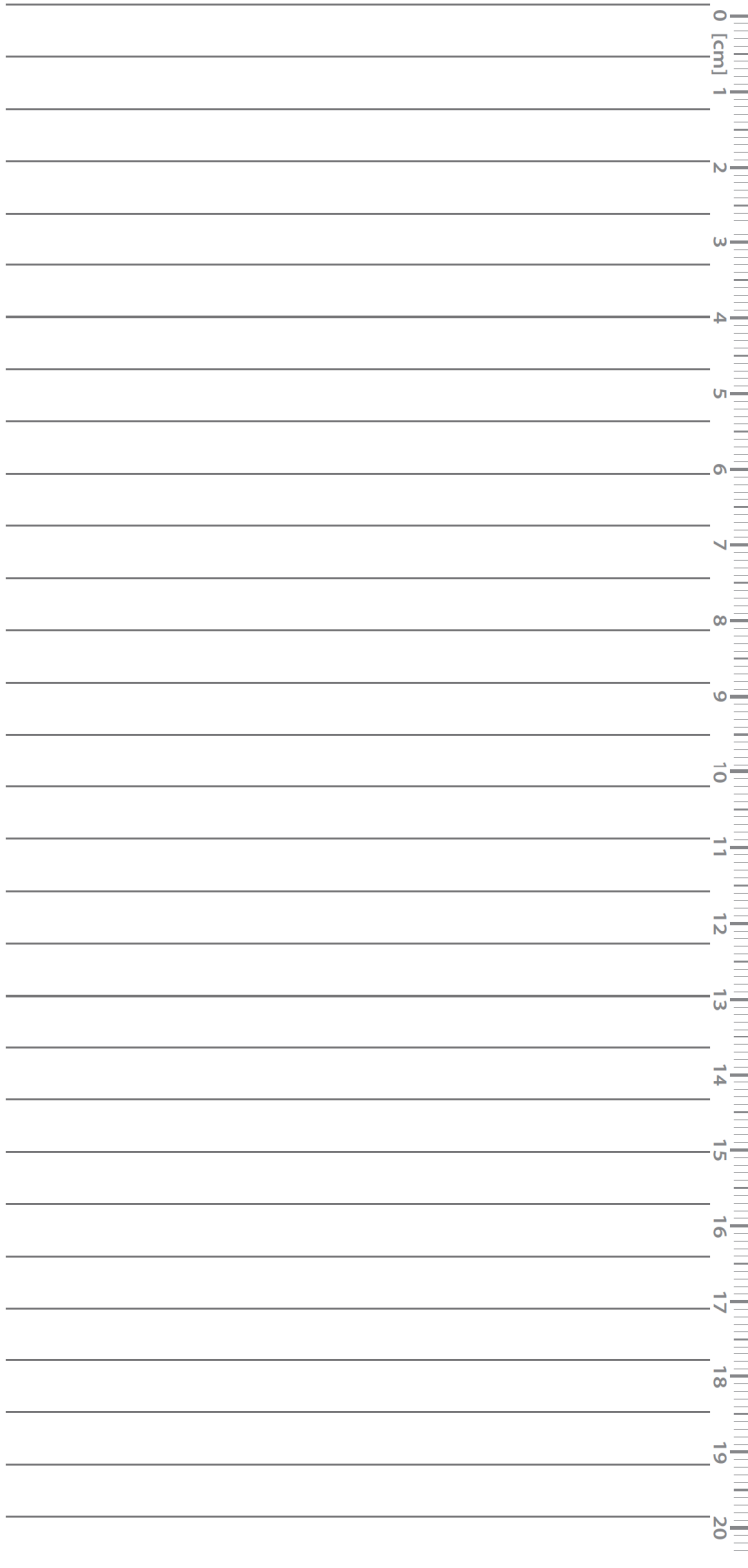


4b



4c





|           |                                                                                                                                                                                                                                                                |           |                                                                                                                                                                                                                                                                                                    |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BG</b> | Производител и Продавач не носят отговорност за неспазване на съответните закони, строителни норми и изисквания за безопасност от потребителя на продукта, архитекта, монтажника или собственика на сграда.                                                    | <b>IT</b> | Il Produttore e il Rivenditore non potranno essere ritenuti responsabili per il mancato rispetto, da parte dell'utente del prodotto, del progettista, dell'installatore o del proprietario dell'edificio, delle leggi vigenti, nonché dei regolamenti edilizi e di quelli relativi alla sicurezza. |
| <b>CZ</b> | Výrobce ani prodejce nenesou žádnou odpovědnost za nedodržení příslušných platných zákonů, stavebních předpisů a bezpečnostních požadavků uživatelem výrobku, architektem, montážníkem nebo vlastníkem budovy.                                                 | <b>NL</b> | De fabrikant en verkoper zijn niet aansprakelijk voor gevolgen bij het niet opvolgen van toepasselijke wetten, bouwbesluiten en veiligheidsvoorschriften door de gebruiker van het product, de architect, de installateur of de eigenaar van het gebouw.                                           |
| <b>DE</b> | Hersteller und Verkäufer übernehmen keine Haftung für Nichtbeachtung entsprechender Rechts- und Bauvorschriften sowie Sicherheitsanforderungen seitens Produktbenutzers, Architekten, Monteure oder Gebäudebesitzers.                                          | <b>PL</b> | Producent i Sprzedawca nie ponosi żadnej odpowiedzialności za nieprzestrzeganie stosownych przepisów prawa, przepisów budowlanych i wymogów bezpieczeństwa przez użytkownika produktu, architekta, montażystę lub właściciela budynku.                                                             |
| <b>ES</b> | El fabricante y el vendedor no tienen ninguna responsabilidad por el incumplimiento de la ley vigente, normas de construcción y exigencias de seguridad por parte del usuario del producto, arquitecto, instalador o el propietario del edificio.              | <b>PT</b> | O fabricante e o vendedor não tem nenhuma responsabilidade pelo o não cumprimento da lei, códigos de construção e as exigências de segurança por parte do usuário do produto, arquiteto, instalador ou proprietário do edifício.                                                                   |
| <b>FR</b> | Le fabricant et le revendeur ne prend aucune responsabilité de ne pas respecter les lois applicables, les règlements sur les bâtiments et les exigences de sécurité par l'utilisateur du produit, l'architecte, l'installateur ou le propriétaire du bâtiment. | <b>RO</b> | Nici producătorul, nici distribuitorul nu își vor asuma niciun fel de răspundere pentru nerespectarea legilor în vigoare, a legilor din domeniul construcțiilor sau a măsurilor de siguranță impuse utilizatorilor produsului, arhitecților, montatorilor sau proprietarilor clădirii.             |
| <b>GB</b> | Manufacturer and Seller shall bear no liability for failure to comply with the applicable laws, building codes and safety requirements by the user of the product, architect, fitter or owner of the building.                                                 | <b>RU</b> | В случае несоблюдения архитектором, монтажником или владельцем здания строительных правил и норм безопасности ответственность с производителя и продавца снимается.                                                                                                                                |
| <b>HU</b> | A Gyártó és a Forgalmazó nem vállal semmiféle felelősséget a vonatkozó törvényi, építési és biztonsági előírások termékfelhasználó, építész, beépítőmester vagy épületfelújítók által be nem tartásáért.                                                       | <b>SK</b> | Výrobca a predajca nenesú žiadnu zodpovednosť za nedodržanie príslušných ustanovení zákona, stavebných predpisov a bezpečnostných požiadaviek užívateľom výrobku, architektom, montérom alebo majiteľom objektu.                                                                                   |

## Неофицијален превод на македонски јазик

Неофицијален превод на македонски јазик, Ymalko. Меродавен е оригиналниот документ:  
fakro-ftp-v-solar-installation-multi.pdf,  
[https://www.fakro.com/att/COMMON/prof/roofer/fitting\\_instructions/roof\\_windows/FTP-V\\_Solar\\_FTU-V\\_Solar\\_FTW-V\\_Solar\\_FAKRO.pdf](https://www.fakro.com/att/COMMON/prof/roofer/fitting_instructions/roof_windows/FTP-V_Solar_FTU-V_Solar_FTW-V_Solar_FAKRO.pdf).

Документ: „Упатство за монтажа: FTP-V Solar, FTU-V Solar, FTW-V Solar (МК)“

Овој превод е подготвен од Ymalko како помош при читањето. Не е документ на производителот и не го заменува. Во случај на каква било разлика или нејаснотија важи оригиналниот документ на производителот.

Страниците 1–9 се преводот; страниците 10–37 се оригиналниот документ на производителот FAKRO, приложен без измени.

Називите на производите, шифрите, стандардите, ознаките на мерните единици и сите бројчени вредности се пренесени точно како што се отпечатени во оригиналот.

Датум на преводот: 01.10.2026.