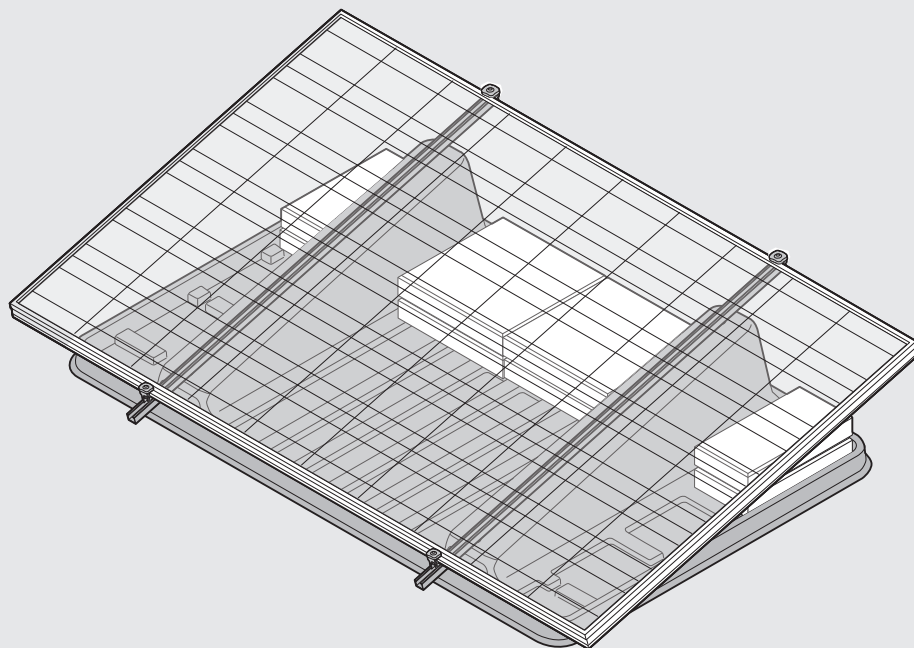


# FRS60

Flat roof mounting system

Système de pose pour toits plats

Montagesysteem voor platte daken



## ENGLISH (EN)

### **Installation instructions**

Always work according to health and safety regulations. Take proper fall prevention measures.

### **Before you start**

Before installation make sure that roof construction and roofing allow for placing the Solar system (weight of installation, ballast, etc).

## FRENCH (FR)

### **Notice de pose**

Veillez à toujours travailler dans des conditions de sécurité optimales. Assurez-vous solidement afin d'éviter tout risque de chute.

### **Avant toute installation**

Avant toute installation, assurez-vous que les caractéristiques du toit autorisent la pose du FRS60 (charge admissible, etc...) de pression du système.

## DUTCH (NL)

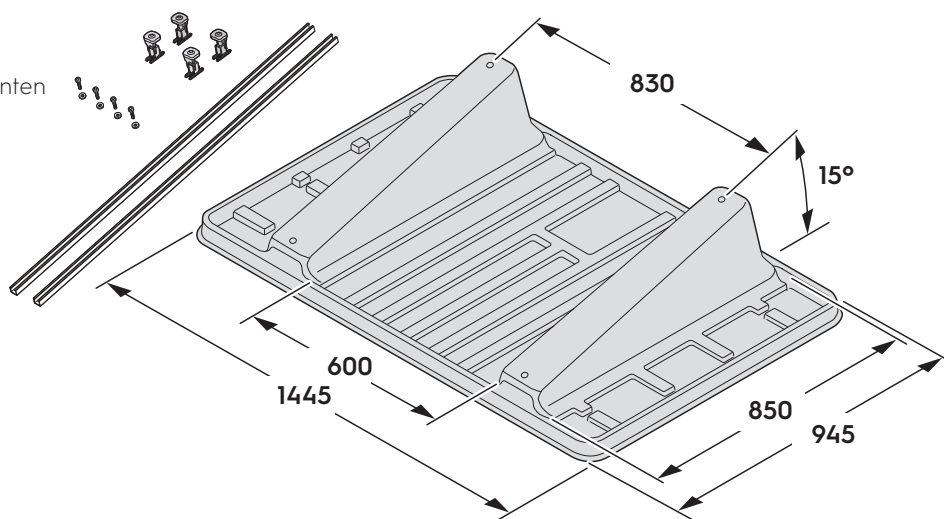
### **Montage handleiding**

Werk altijd volgens de lokaal geldende gezondheids- en veiligheidseisen. Neem maatregelen om vallen te voorkomen.

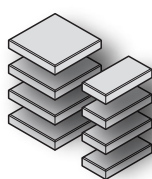
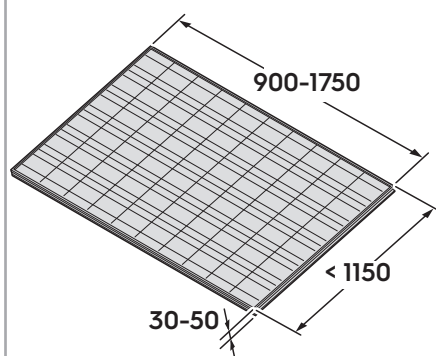
### **Voordat u begint**

Ga na of de dakconstructie en waterdichte laag het plaatsen van de FRS60 toestaan (gewicht van de installatie, ballast, etc.)

- EN Components included
- FR Le kit contient
- NL Meegeleverde componenten

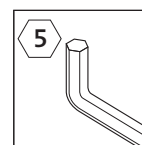
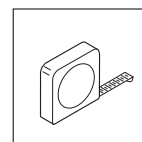


- EN Components not included
- FR Le kit ne contient pas
- NL Niet meegeleverde componenten

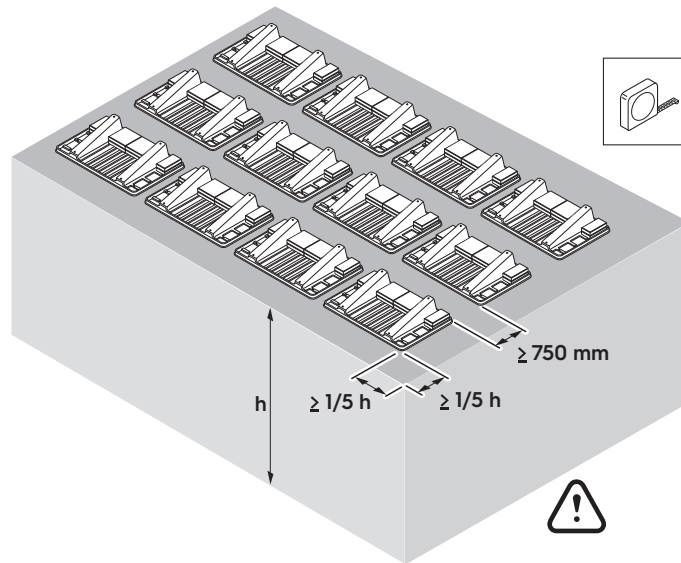


- EN Tiles
- FR Dalle de béton
- NL Tegels

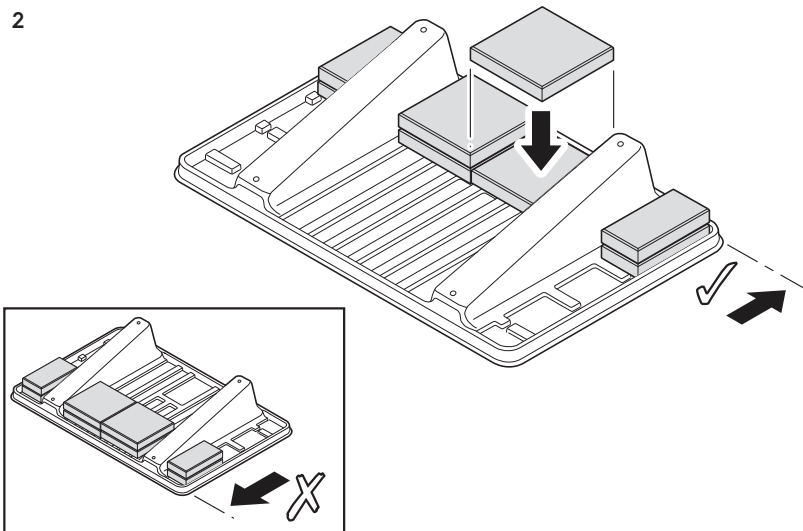
- EN Tools required
- FR Outils nécessaires
- NL Benodigd gereedschap



- 1
- EN Installation
  - FR Installatie
  - NL Installatie



2

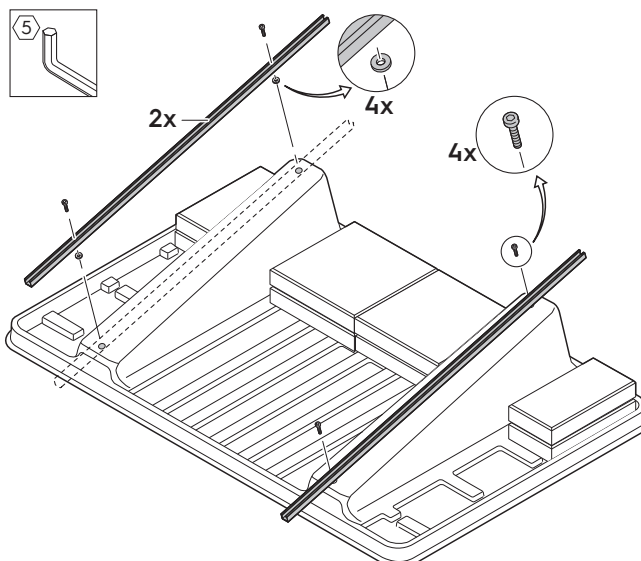


EN **Note:** The tiles should be placed at the back of the bottom plate as much as possible.

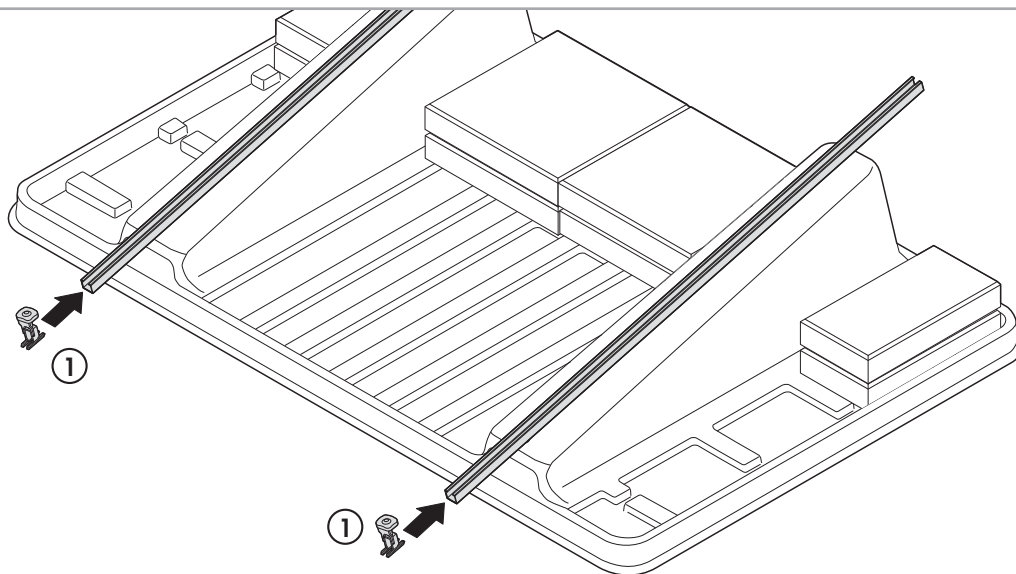
FR **Note:** Empilez les dalles béton le plus possible sur l'arrière du système.

NL **Let op:** De ballast tegels zoveel mogelijk naar achteren op de bodemplaat plaatsen.

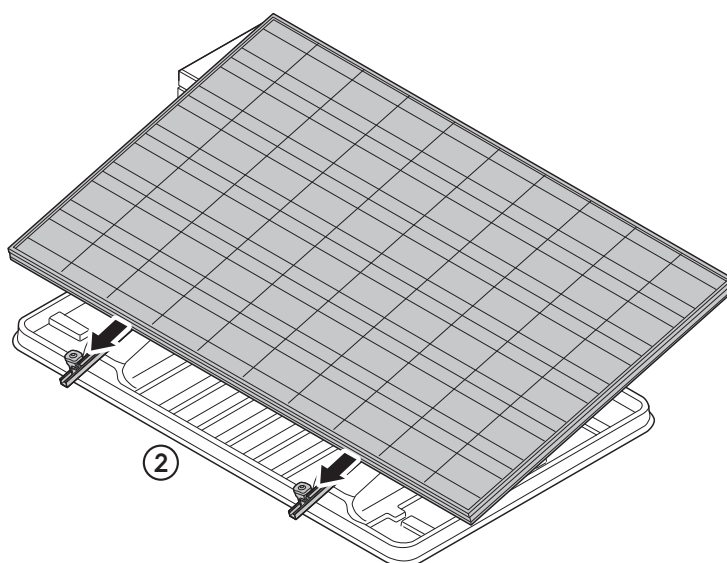
3



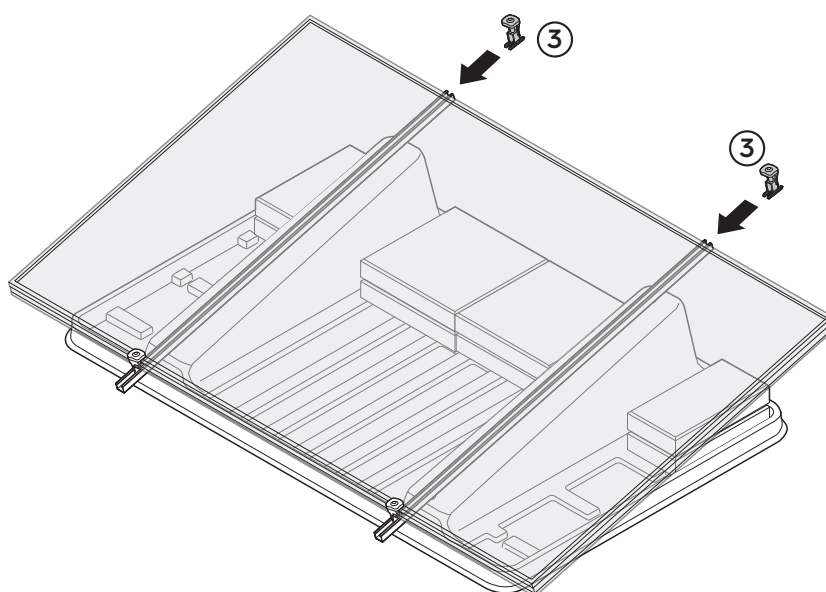
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5



6



## BALLAST TABEL NEDERLAND

|          | h < 4 m                   |                             | 4 m < h < 8 m             |                             | 8 m < h < 12 m            |                             |
|----------|---------------------------|-----------------------------|---------------------------|-----------------------------|---------------------------|-----------------------------|
|          | Paneel tot<br>1,7 x 1,0 m | Paneel tot<br>1,75 x 1,15 m | Paneel tot<br>1,7 x 1,0 m | Paneel tot<br>1,75 x 1,15 m | Paneel tot<br>1,7 x 1,0 m | Paneel tot<br>1,75 x 1,15 m |
| Zone I   | 98 kg                     | 116 kg                      | 106 kg                    | 125 kg                      | 129 kg                    | 153 kg                      |
| Zone II  | 79 kg                     | 94 kg                       | 86 kg                     | 102 kg                      | 106 kg                    | 125 kg                      |
| Zone III | 62 kg                     | 73 kg                       | 68 kg                     | 80 kg                       | 83 kg                     | 98 kg                       |

Berekeningen conform NEN 7250 en Eurocode NEN-EN 1991-1-4:2019  
Zone 5. Bezwijkmechanisme kantelen.

## TABLEAU DES LESTS FRANCE

| Pression dynamique<br>de pointe (daN/m <sup>2</sup> ) | Lest à utiliser dont poids du module (kg) |         |                      |         |
|-------------------------------------------------------|-------------------------------------------|---------|----------------------|---------|
|                                                       | Module < 1,7 x 1,0 m                      |         | Module 1,75 x 1,15 m |         |
|                                                       | Centre                                    | Bordure | Centre               | Bordure |
| 40                                                    | 53                                        | 67      | 63                   | 78      |
| 45                                                    | 60                                        | 75      | 71                   | 88      |
| 50                                                    | 67                                        | 83      | 78                   | 98      |
| 55                                                    | 73                                        | 92      | 86                   | 108     |
| 60                                                    | 80                                        | 100     | 94                   | 118     |
| 65                                                    | 87                                        | 108     | 102                  | 127     |
| 70                                                    | 93                                        | 117     | 110                  | 137     |
| 75                                                    | 100                                       | 125     | 118                  | 147     |
| 80                                                    | 107                                       | 133     | 126                  | 157     |
| 85                                                    | 113                                       | 142     | 133                  | 167     |
| 90                                                    | 120                                       | 150     | 141                  | 177     |
| 95                                                    | 127                                       | 158     | 149                  | 186     |
| 100                                                   | 133                                       | 167     | 157                  | 196     |
| 105                                                   | 140                                       | 175     | 165                  | X       |
| 110                                                   | 147                                       | 183     | 173                  | X       |
| 115                                                   | 153                                       | 192     | 180                  | X       |
| 120                                                   | 160                                       | 200     | 188                  | X       |

Installation en zone H, selon EN1991-1-4  
Lest maximum 200 kg



ENERGY



VENTILATION



BUILDING