



**DE** TECHNISCHE INFORMATION / MONTAGEANLEITUNG

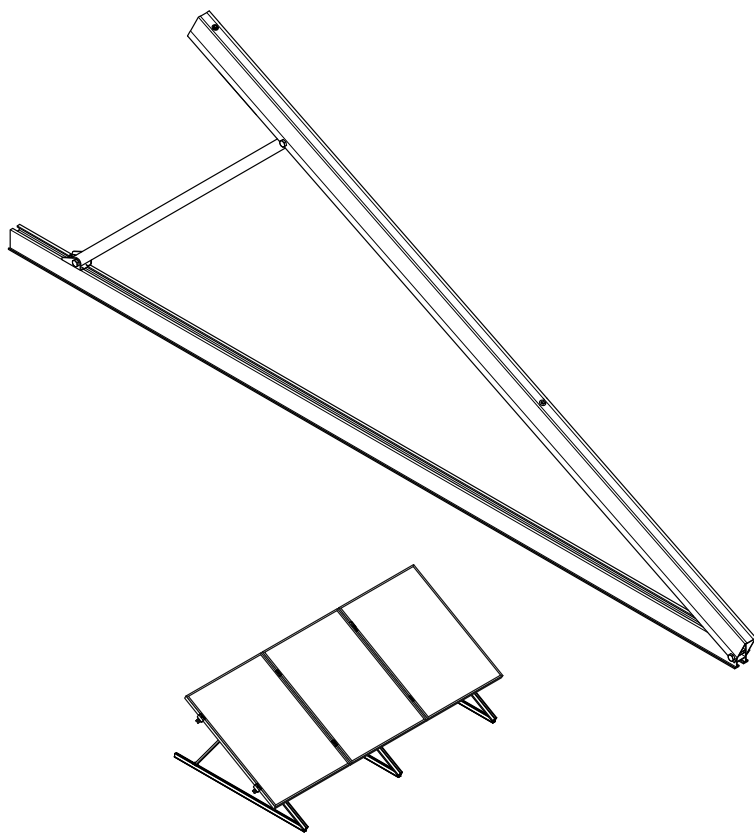
## Flachdach-Montagesystem TRIC F

**EN** TECHNICAL INFORMATION / INSTALLATION INSTRUCTIONS

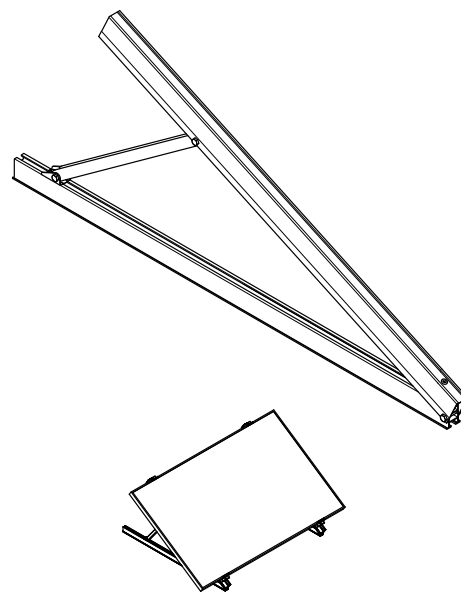
## Flat Roof Mounting System TRIC F

**FR** INFORMATIONS TECHNIQUE / INSTRUCTIONS DE MONTAGE

## Système de montage pour toiture plate TRIC F



TRIC F 15/30/45



TRIC F Quer / TRIC F horizontal / TRIC F paysage

## DE 1 Wichtige Hinweise

- Die Auslegung des Montagesystems (Anzahl der Montagedreiecke) ist projektbezogen entsprechend den vorgegeben Normen (DIN EN 1991-1-3 und DIN EN 1991-1-4:2010-12, Einwirkung auf Tragwerke - Allgemeine Einwirkungen - Schneelasten und Windlasten) durchzuführen.
- Voraussetzung für den bestimmungsgemäßen Einsatz ist immer ein geeigneter Befestigungsuntergrund, der die auftretenden Kräfte (Gewichtslast, Wind und Schneelast) aufnehmen kann.
- Die Montagevorschriften der Solarmodulhersteller sind einzuhalten.

## EN 1 Important Notes

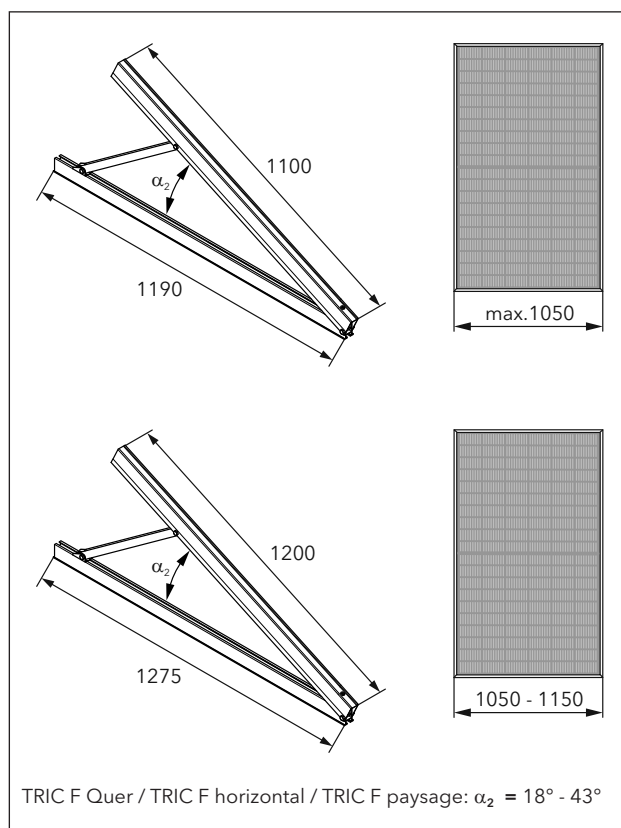
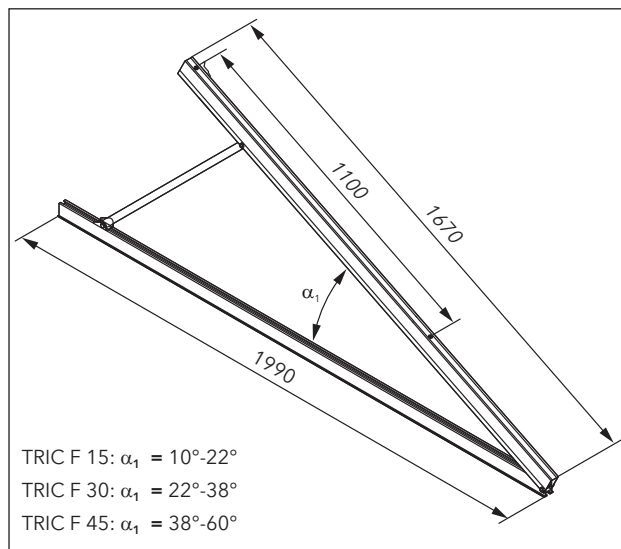
- The dimensioning of the mounting system (number of mounting triangles) should be specifically carried out for each individual project, following the specified structural engineering standards and regulations (EN 1991-1-3 and -1-4).
- Prerequisite for the proper application always is a solid mounting base that can accommodate the occurring forces (weight, wind and snow loads).
- The installation instructions of the solar module manufacturers must be adhered to.

## FR 1 Notice importante

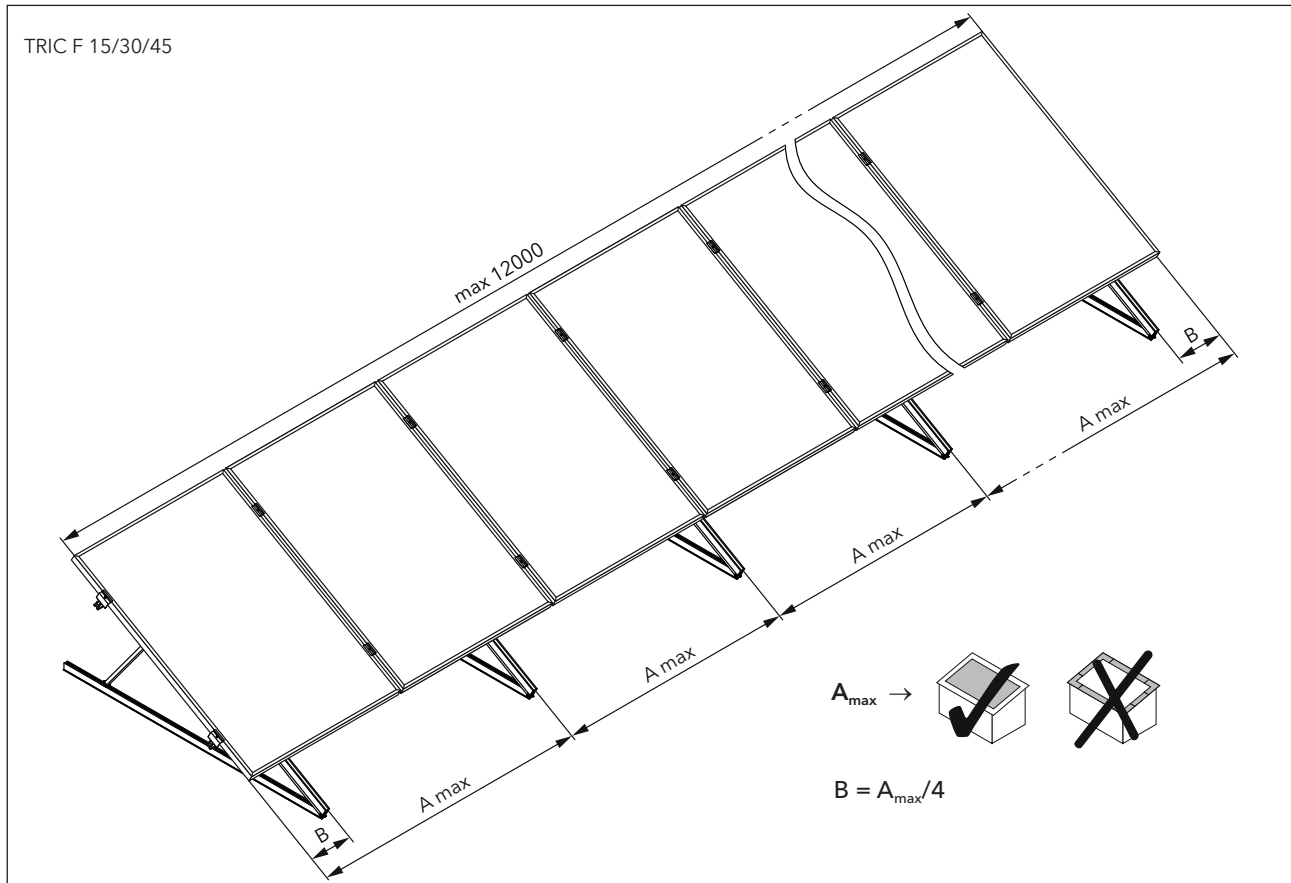
- Le dimensionnement du système de fixation (nombre des triangles d'appui) doit être calculé en fonction des données du projet et devra satisfaire aux normes spécifiés (EN 1991-1-3 et -1-4).
- Une structure de base appropriée pouvant résister aux efforts en présence (poids, vent et neige) représente la condition préalable au respect des normes.
- Respectez les instructions de montage du constructeur des modules solaires.



Alle Maße in mm  
All dimensions in mm  
Toutes les dimensions sont en mm



## 2 Montage / Mounting



### DE TRIC F 15/30/45: Max. zulässiger Abstand der Montagedreiecke

Höhe über NN		0 - 300 m	300 - 500 m	500 - 700 m	700 - 900 m
Schneelastzone	Windzone	$A_{max}$ [mm]	$A_{max}$ [mm]	$A_{max}$ [mm]	$A_{max}$ [mm]
1a	1	1.720	1.500	1.200	920
2	2	1.500	1.090	860	630
2	4	1.090	920	710	550
2a	2	1.330	1.000	710	520
3	2	1.200	860	630	460
3	4	1.000	750	570	410

TRIC F 30° / <10m

### EN TRIC F 15/30/45: Max. tolerated distance between the triangle racks / Distance maximale entre les supports triangulaires

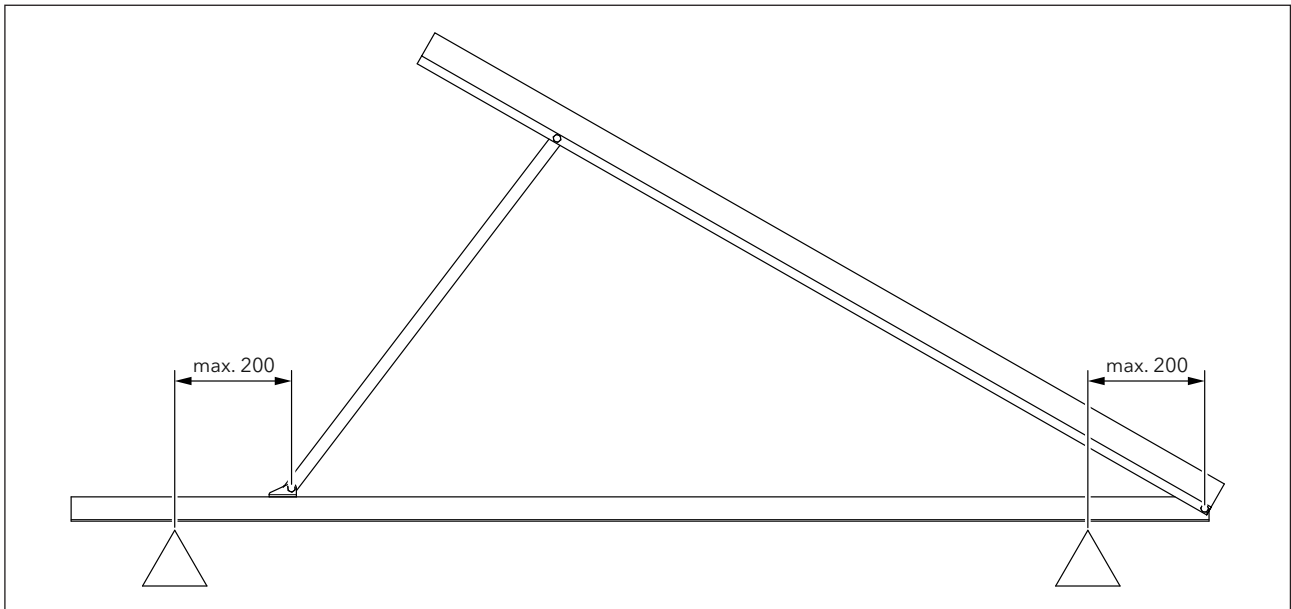
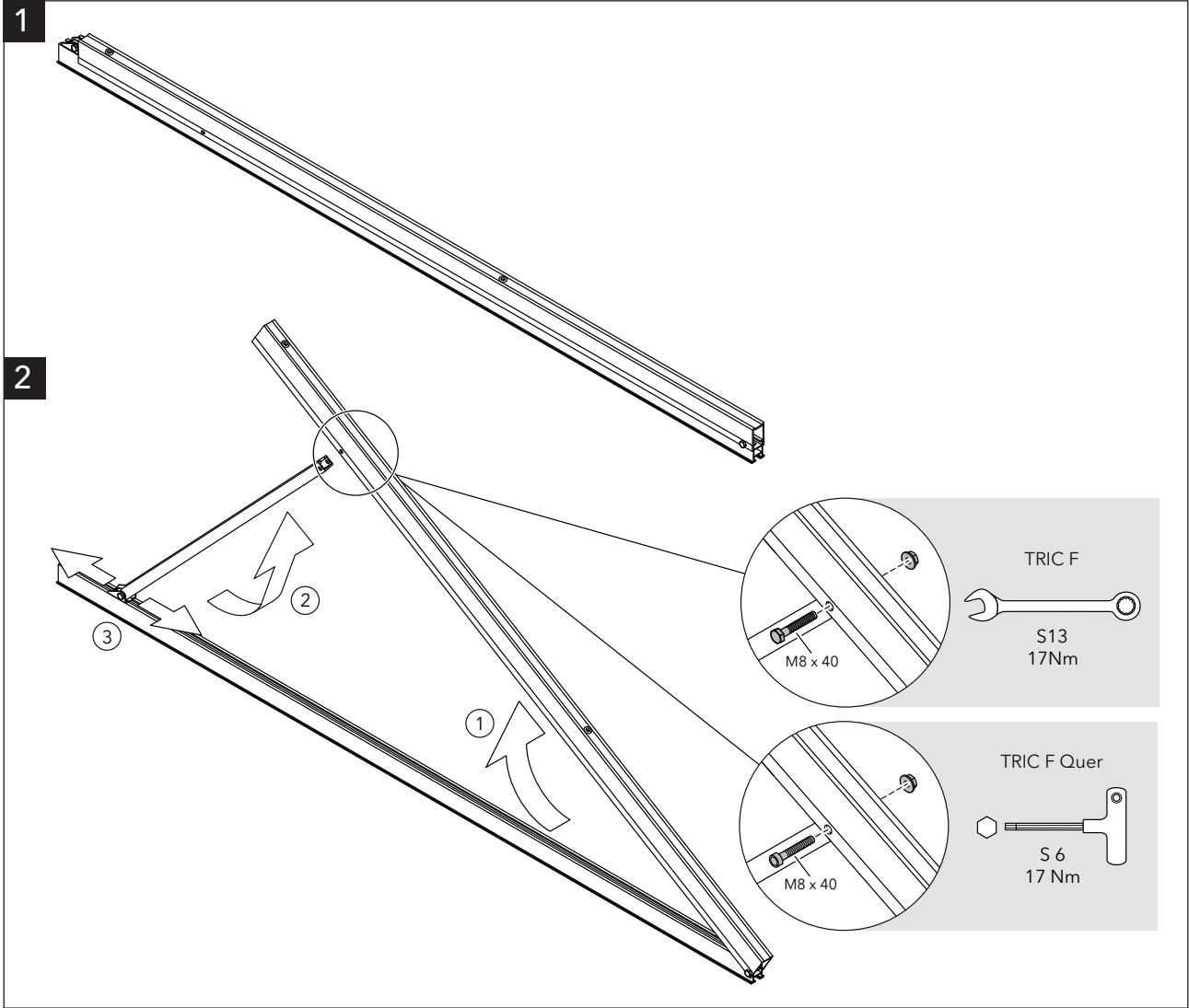
$v_{ref}$ [m/s]	H = 0 - 300 m		H = 300 - 500 m		H = 500 - 700 m		H = 700 - 900 m	
	$S_0$ [kN/m <sup>2</sup> ]	$A_{max}$ [mm]	$S_0$ [kN/m <sup>2</sup> ]	$A_{max}$ [mm]	$S_0$ [kN/m <sup>2</sup> ]	$A_{max}$ [mm]	$S_0$ [kN/m <sup>2</sup> ]	$A_{max}$ [mm]
22,5	0,81	1.720	1,04	1.500	1,63	1.200	2,37	920
25,0	0,89	1.500	1,60	1.090	2,58	860	3,83	630
30,0	0,89	1.090	1,60	920	2,58	710	3,83	550
25,0	1,11	1.330	2,00	1.000	3,23	710	4,78	520
25,0	1,29	1.200	2,37	860	3,86	630	5,76	460
30,0	1,29	1.000	2,37	750	3,86	570	5,76	410

TRIC F 30° / <10m

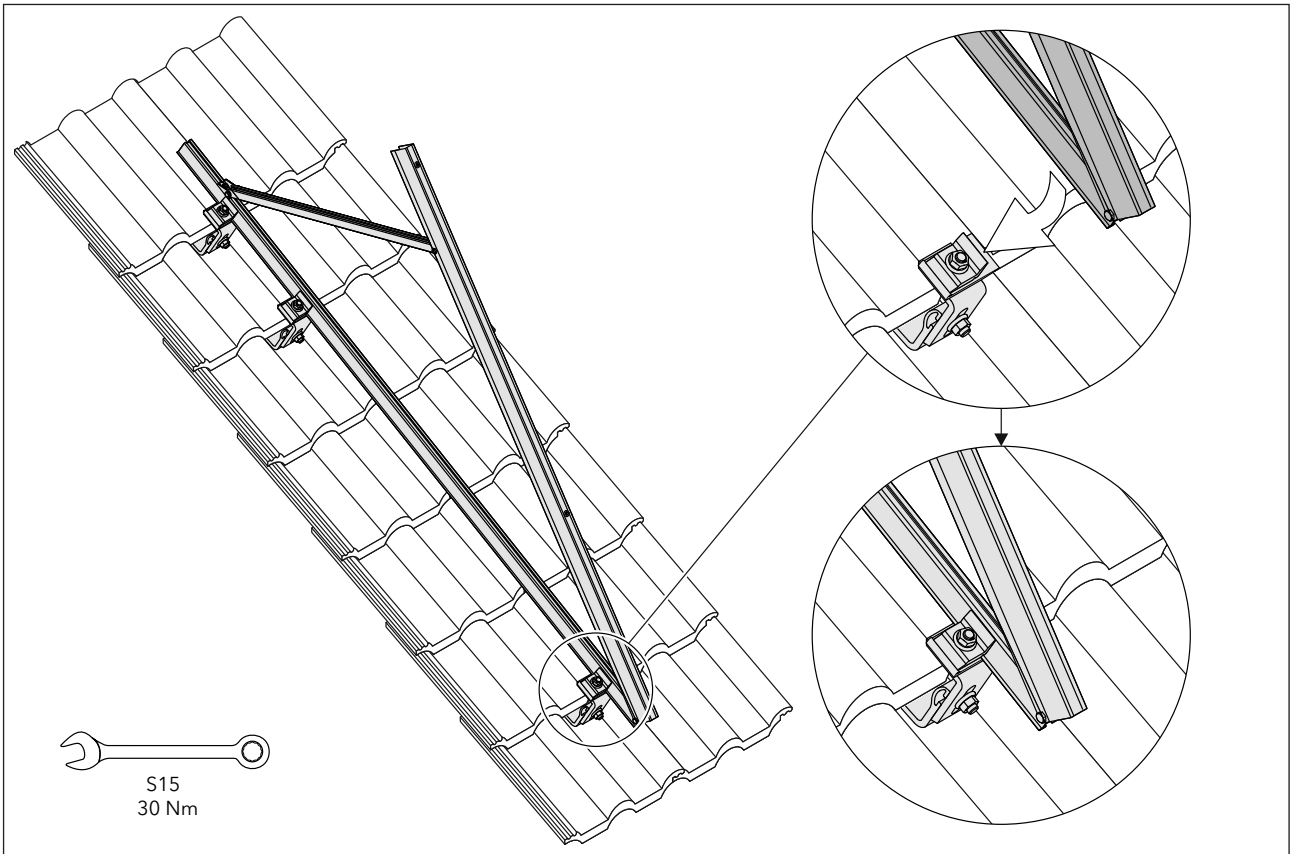
H = meters above sea level / mètres d'altitude

$v_{ref}$  = reference wind speed / vitesse de vent de référence

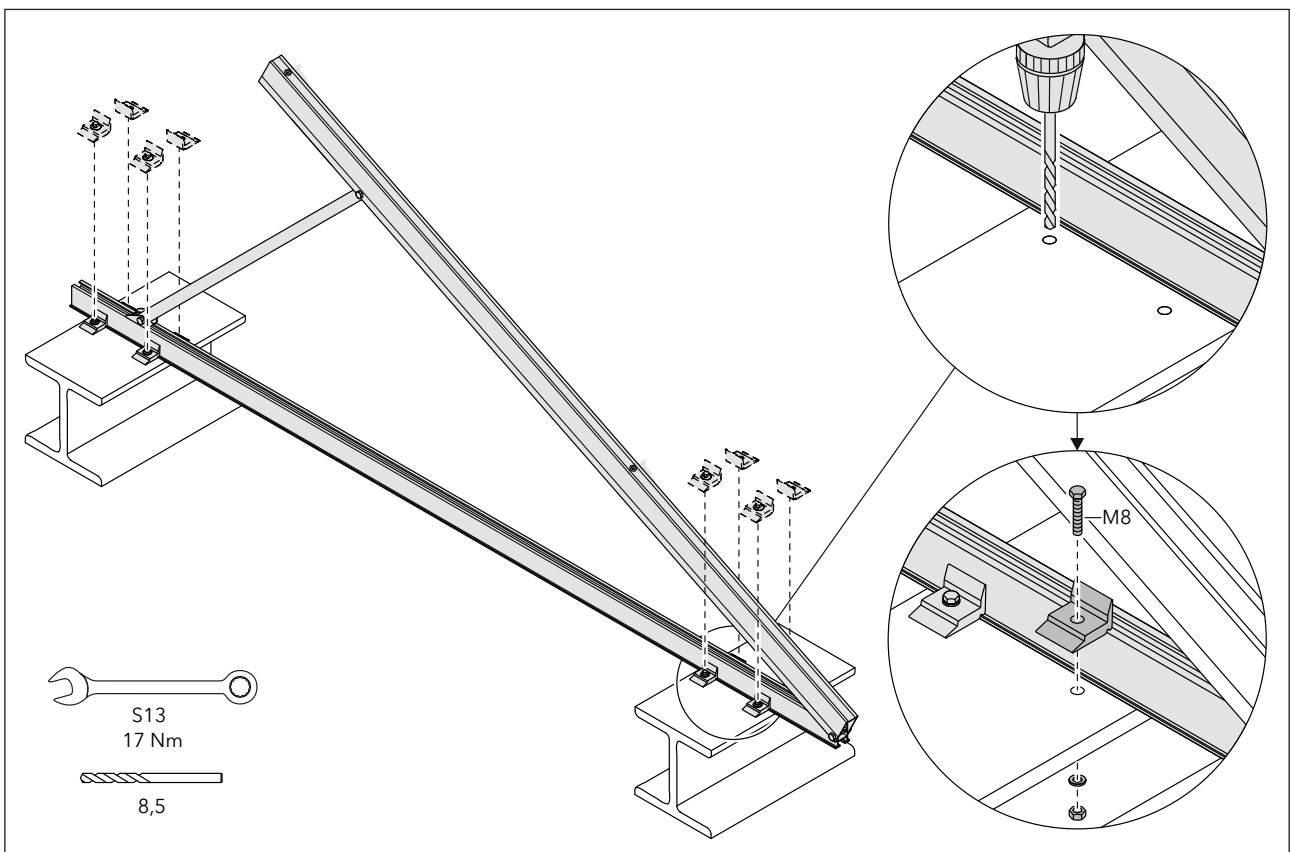
$S_0$  = ground snow load / charge de neige sur le sol



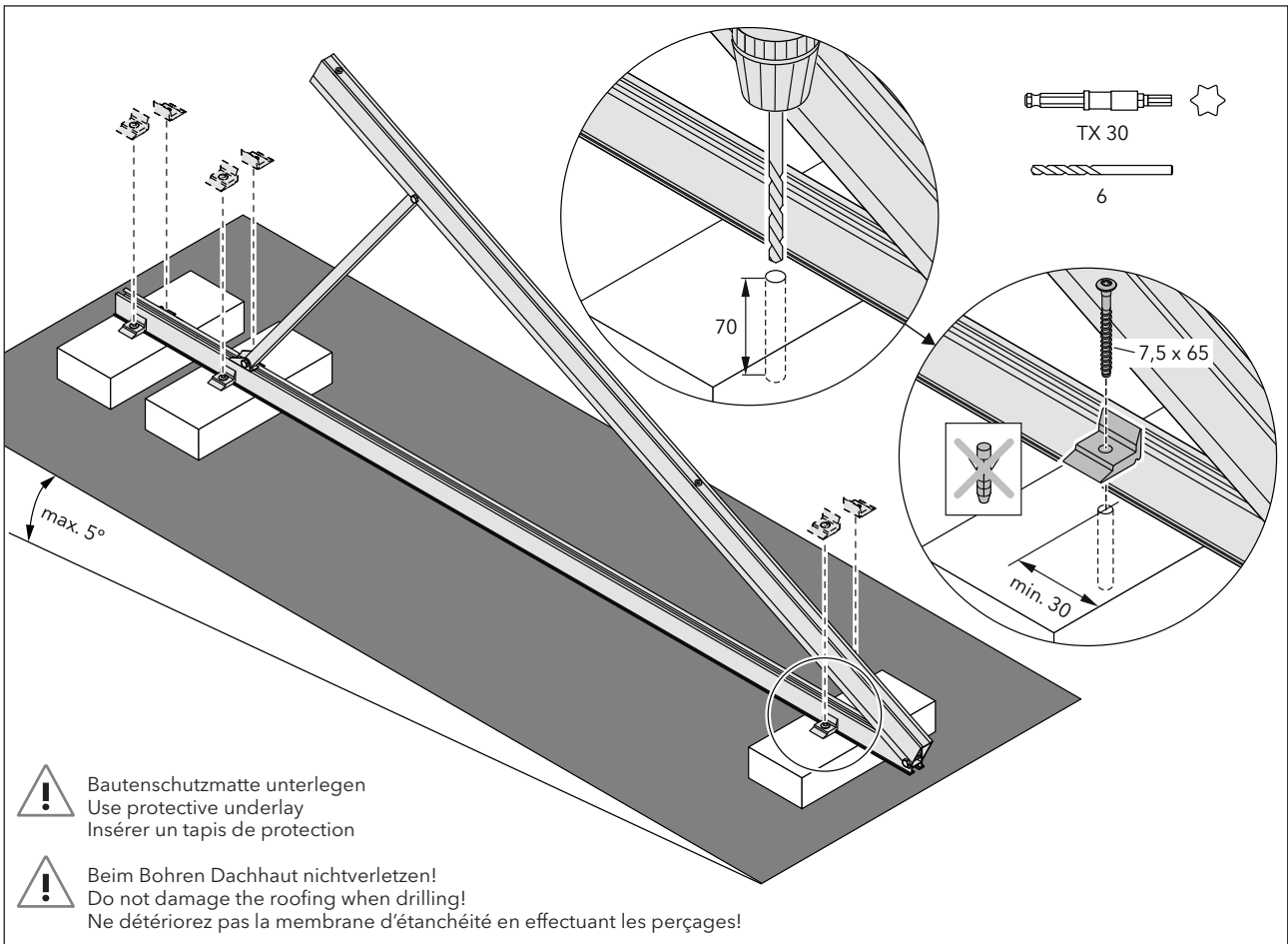
Montage auf Ziegeldächern / Mounting on pan tiles / Montage sur toits en tuiles mécanique



Montage auf Stahlträgern / Mounting on steel beams / Montage sur poutrelles d'acier



Montage auf Betonsteinen / Mounting on concrete bricks / Montage sur pavés en béton



**1**

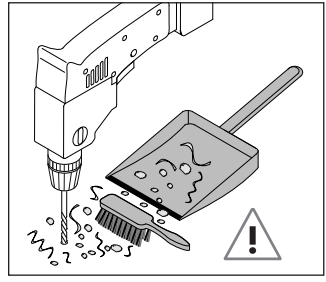
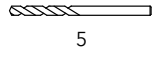
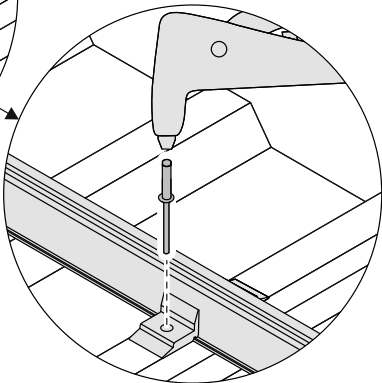
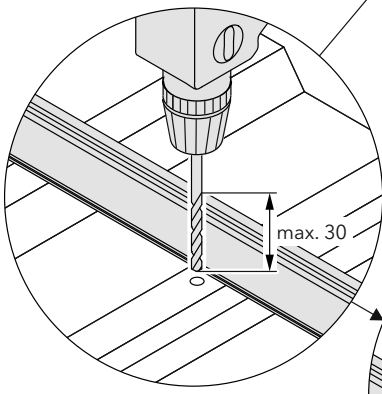
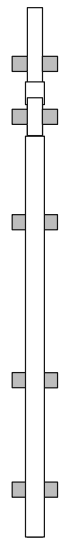
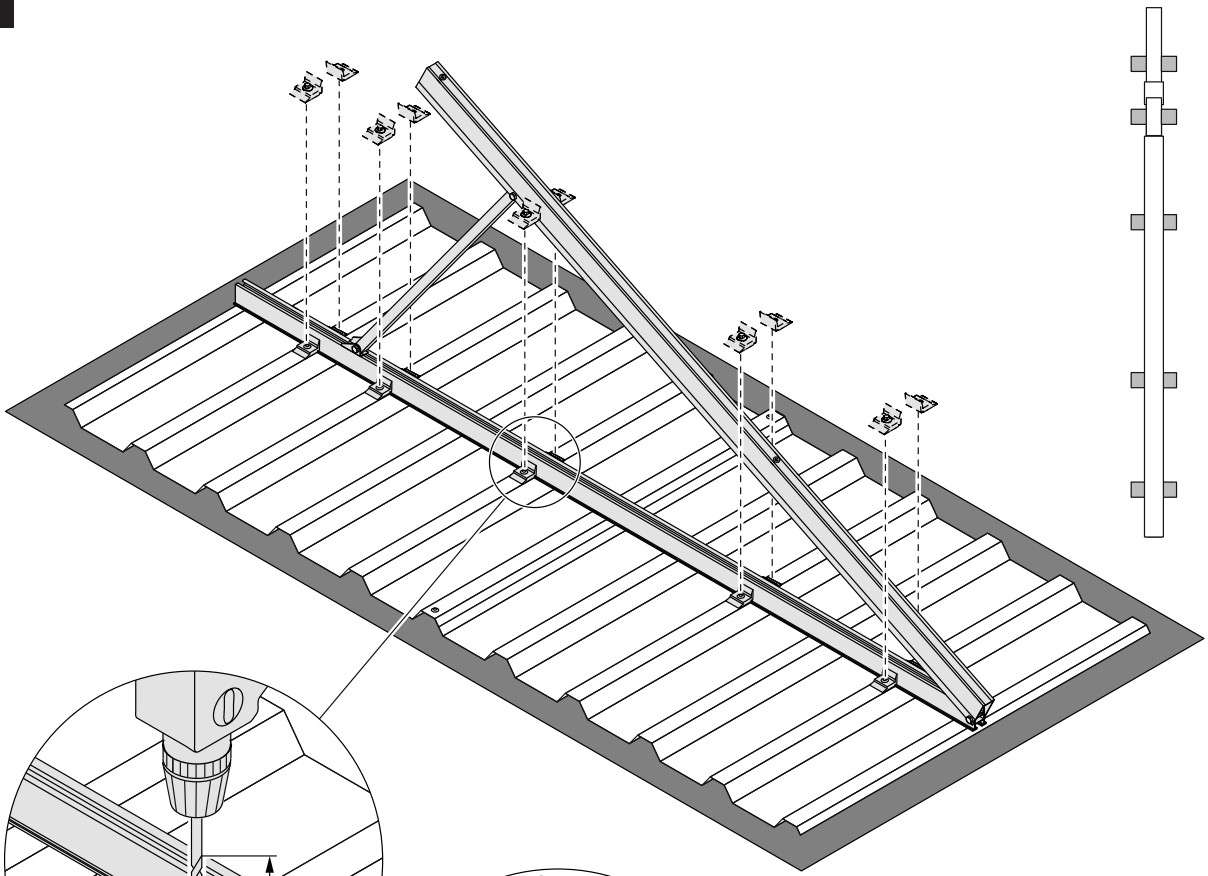
max. 5°

max. 30

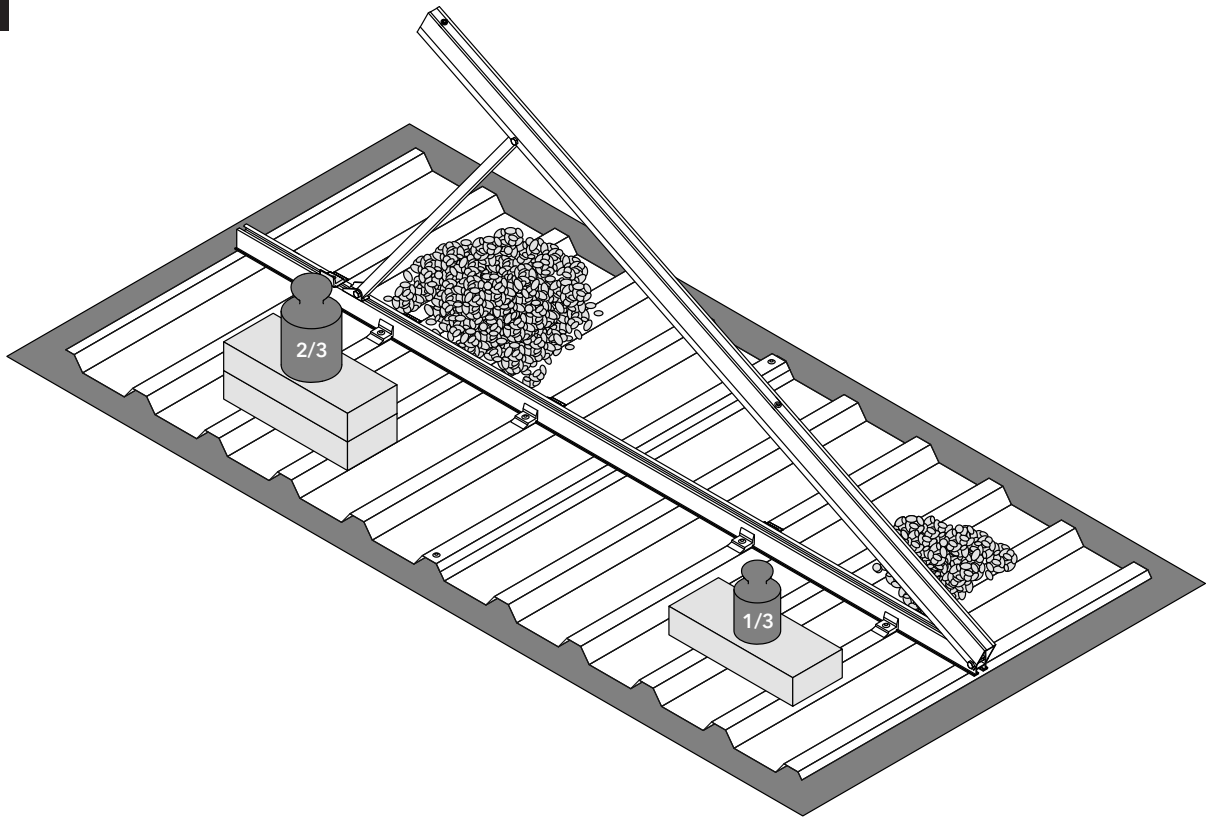
5

Bautenschutzmatte unterlegen  
Use protective underlay  
Insérer un tapis de protection

Beim Bohren Dachhaut nicht verletzen!  
Do not damage the roofing when drilling!  
Ne détériorez pas la membrane d'étanchéité en effectuant les perçages!



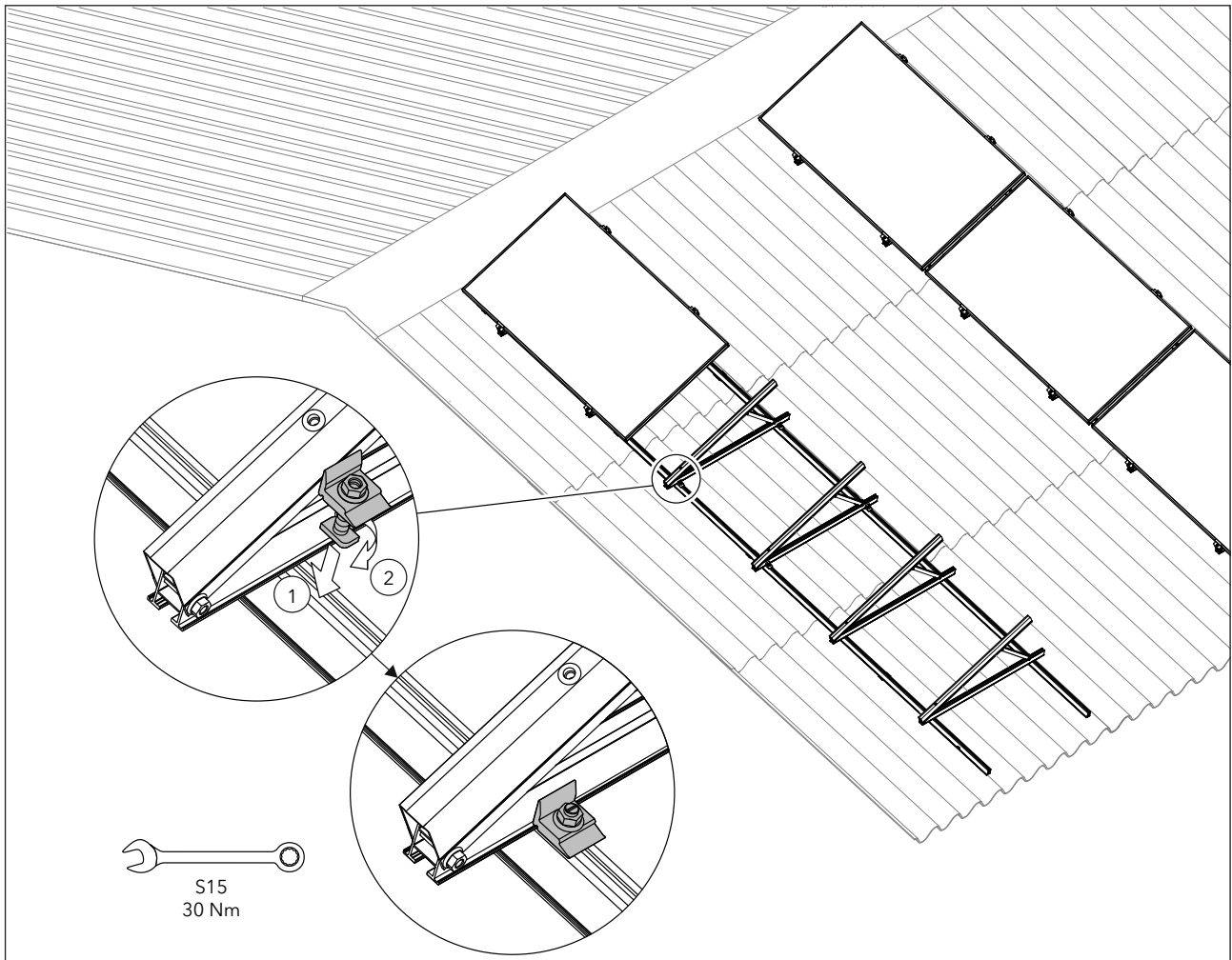


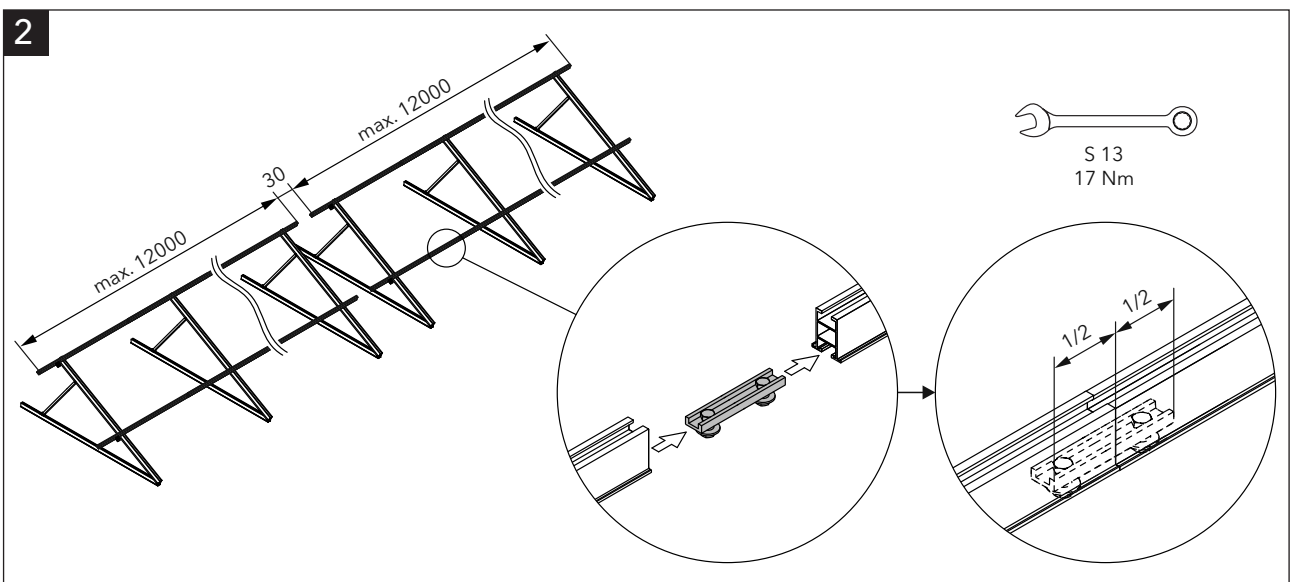
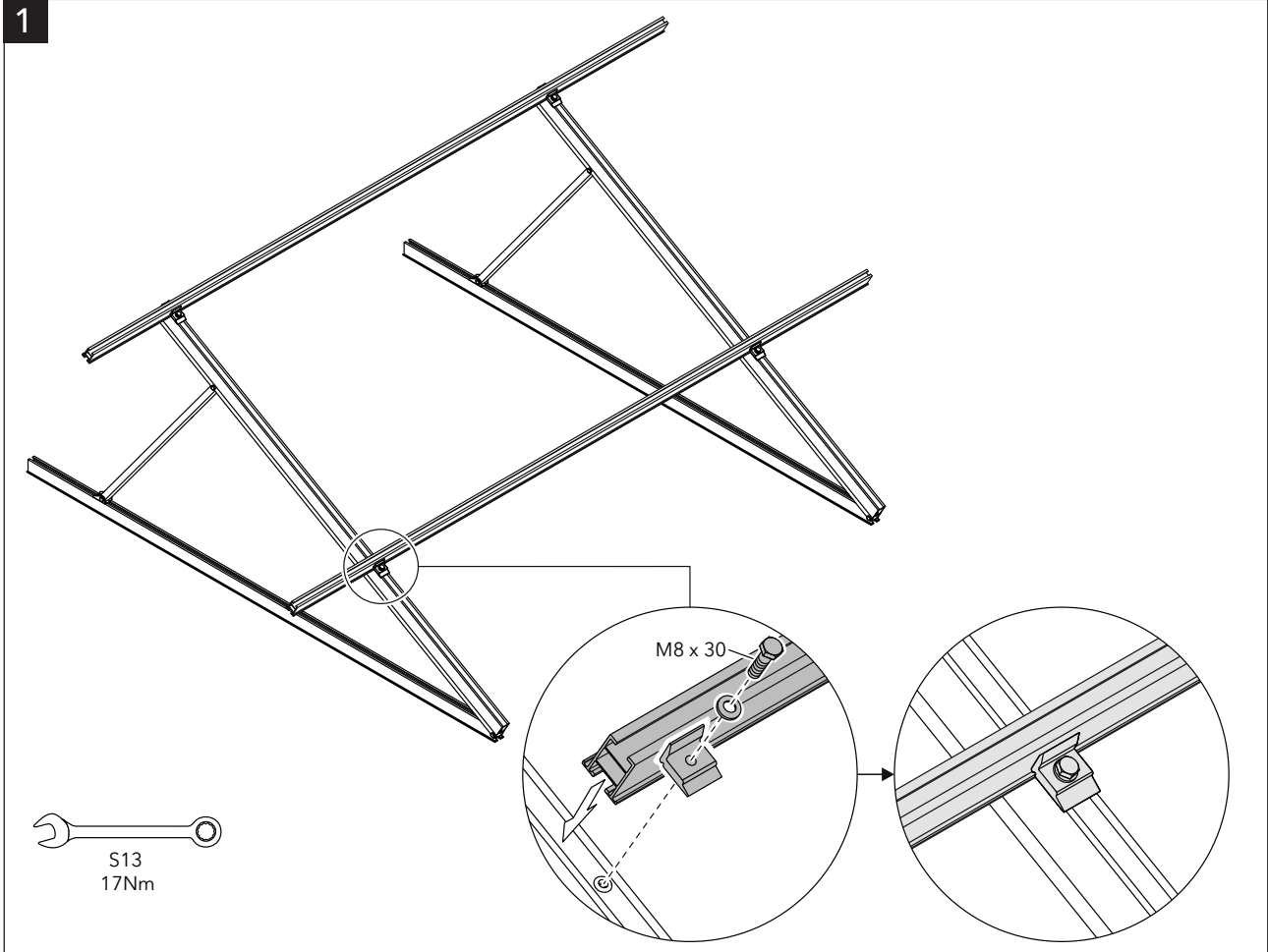


Auflastung (kg pro m<sup>2</sup> Modulfläche\*) / Load (kg per m<sup>2</sup> module surface\*) / Charge (kg par m<sup>2</sup> de surface de modules\*)

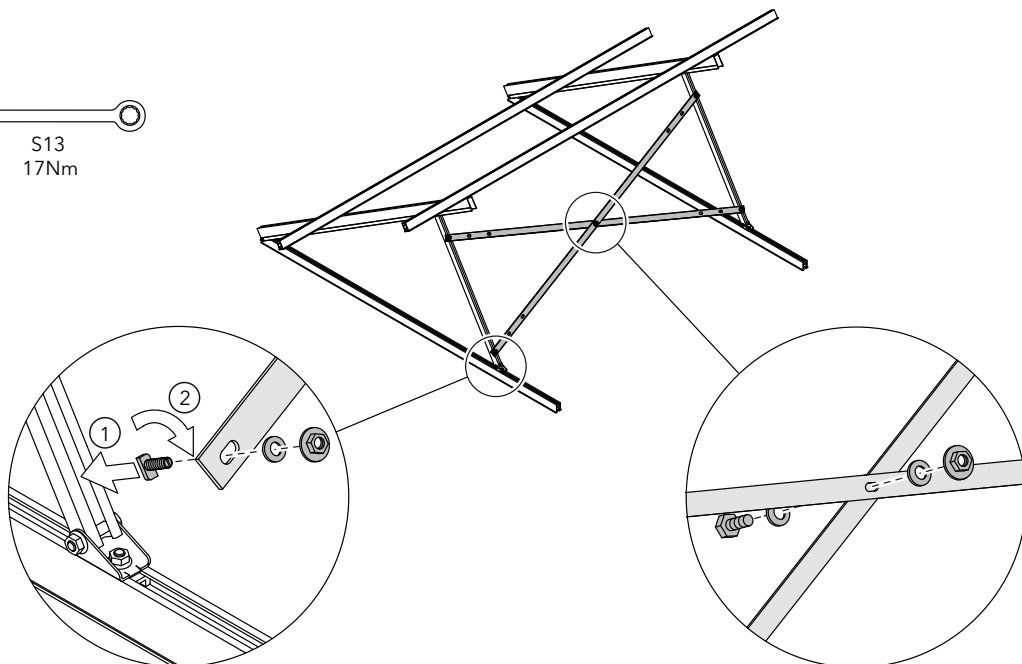
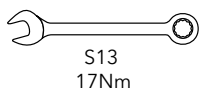
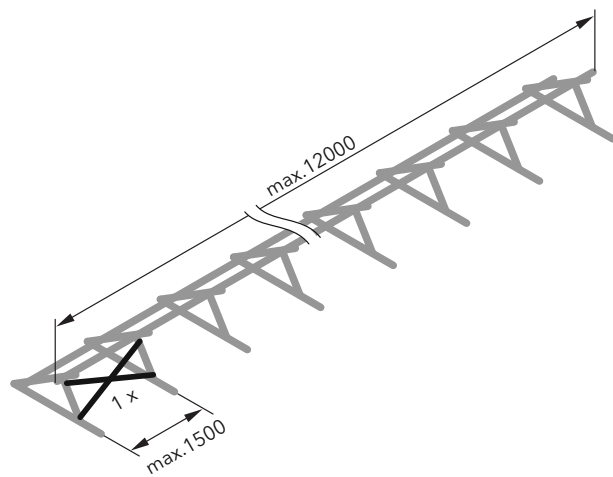
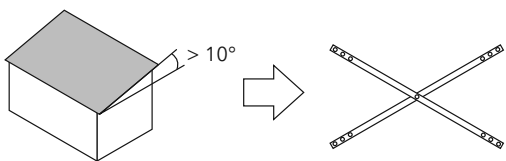
	DE	EN	FR			
<b>Windzone</b>				<b>[kg]</b>	<b>[kg]</b>	<b>[kg]</b>
1				105,0	172,5	232,5
2				135,0	217,5	285,0
3				172,5	270,0	352,5
4				210,0	330,0	427,5
TRIC F 30° /  <10m /  < 800m (Binnenland / inland / à l'intérieur du pays) v <sub>ref</sub> = reference wind speed / vitesse de vent de référence						
* inkl. Sicherheitsbeiwerten nach DIN 1055-100 * incl. safety factor acc. to EN 1991 * incluant un coefficient de sécurité selon EN 1991						

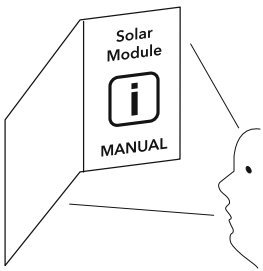
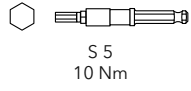
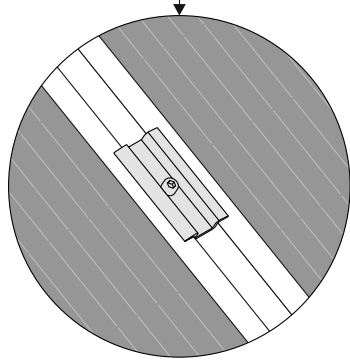
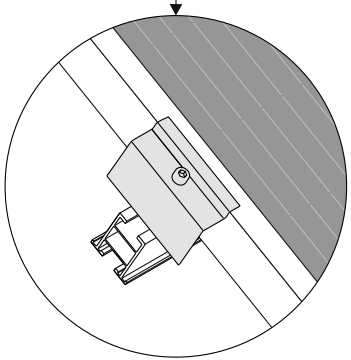
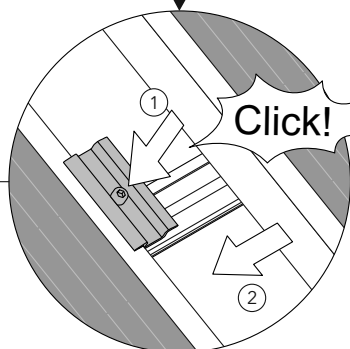
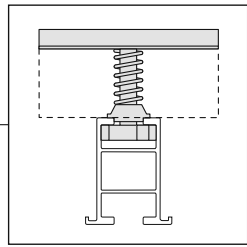
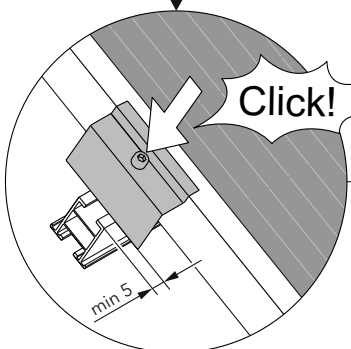
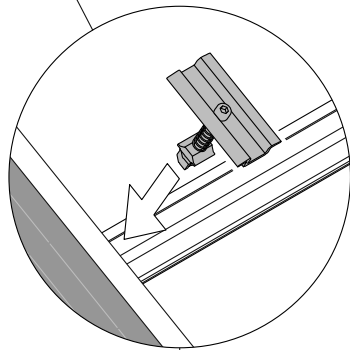
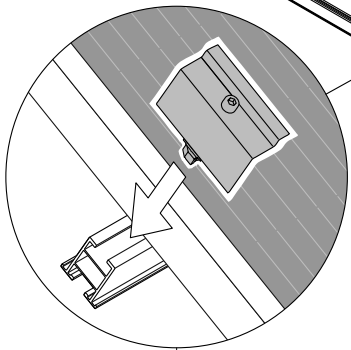
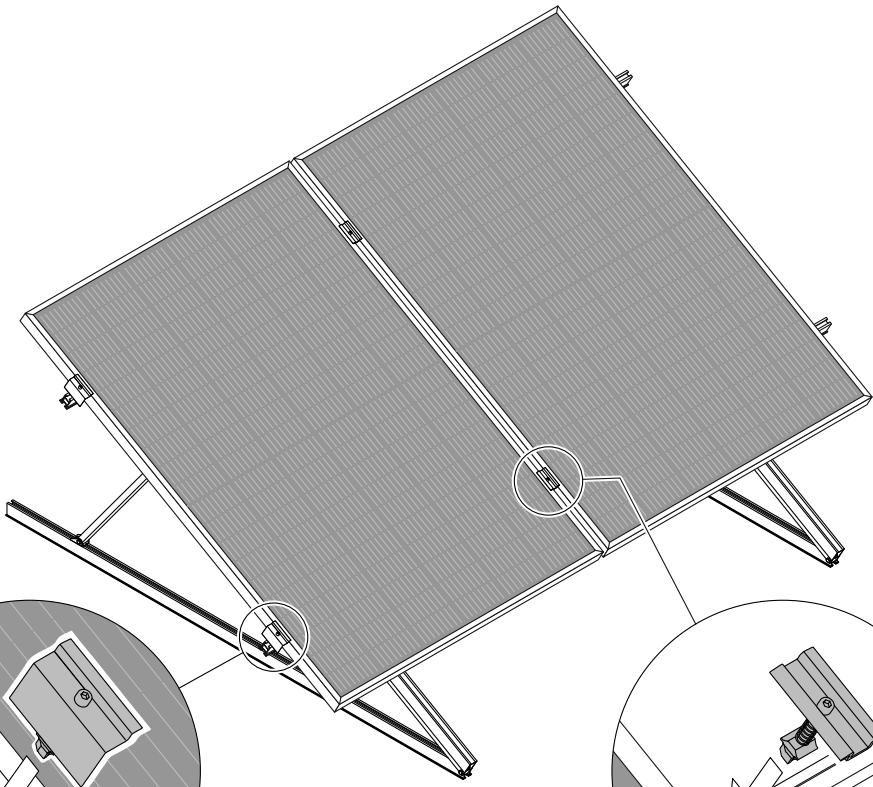
Montage quer zur Dachneigung / Mounting transverse to the roof pitch / Montage transversal par rapport à l'inclinaison du toit





3





TRIC F Quer Modulmontage / TRIC F horizontal module installation / TRIC F paysage montage des modules

