

Ombrière G-box

Panneau MaviWatt®

PMR (1950 x 1134 x 30)

Notice de montage

MaviWatt®

Outils

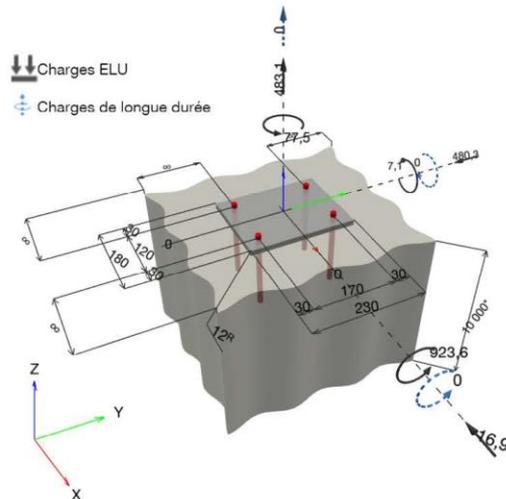


1 Données d'entrée

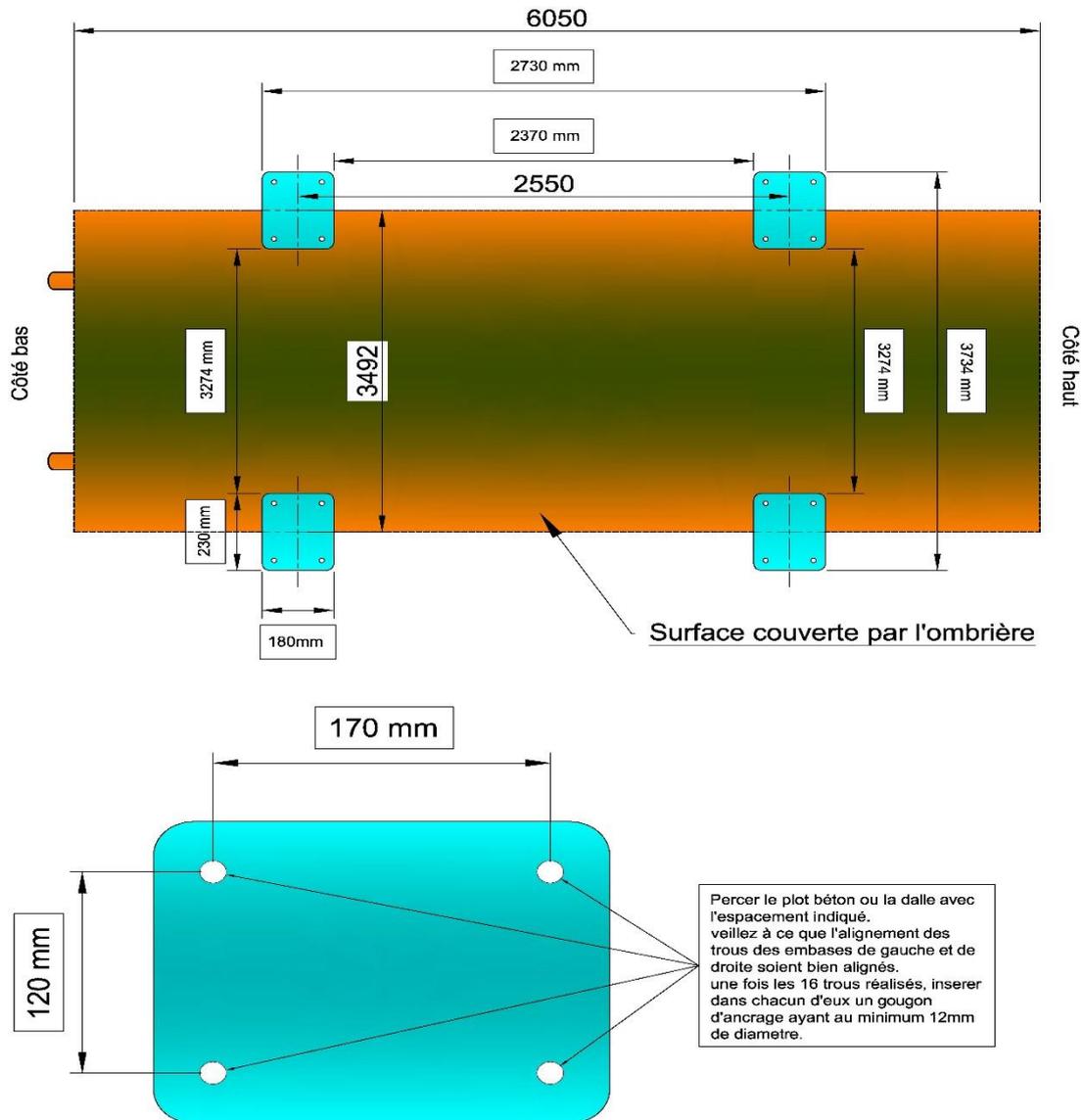
Type et diamètre de la cheville:	HIT-HY 200-A V3 + HAS-U HCR M12	
Période de retour (durée de vie en années):	50	
Code d'article:	indisponible (accessoire de pose) / 2378171 HIT-HY 200-A V3 (mortier)	
Profondeur d'implantation effective:	$h_{ef, opt} = 159,0 \text{ mm}$ ($h_{ef, limit} = 240,0 \text{ mm}$)	
Matériau:	HCR	
Homologation:	ETA 19/0601	
Délivré l Validité:	02/06/2023 -	
Méthode de calcul:	Méthode de calcul EN 1992-4, Produits chimiques	
Montage avec écartement:	$e_b = 0,0 \text{ mm}$ (sans écartement); $t = 12,0 \text{ mm}$	
Platine ^R :	$l_x \times l_y \times t = 180,0 \text{ mm} \times 230,0 \text{ mm} \times 12,0 \text{ mm}$; (Epaisseur de platine recommandée: non calculé)	
Profil:	pas de profil	
Matériau de base:	Béton fissuré béton, C20/25, $f_{c, cyl} = 20,00 \text{ N/mm}^2$; $h = 10\,000,0 \text{ mm}$, Temp. court/long: 40/24 °C, Coefficient de sécurité matériel partiel personnalisé $\gamma_c = 1,500$	
Installation:	trou foré avec perforateur, condition d'installation: sec	
Renforcement:	Pas de renforcement ou distance entre armatures $\geq 150 \text{ mm}$ (tous \varnothing) ou $\geq 100 \text{ mm}$ ($\varnothing \leq 10 \text{ mm}$) Pas de renforcement de bord longitudinal	

^R - Le calcul de la cheville est réalisé avec l'hypothèse d'une platine rigide.

Géométrie [mm] & Charges [daN, daNm]



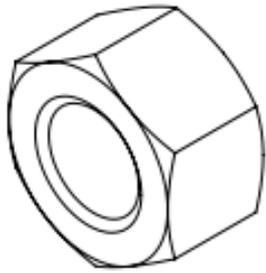
Les données d'entrée et les résultats doivent être vérifiés quant aux conditions existantes et leur plausibilité!
PROFIS Engineering (c) 2003-2024, Hilti AG, FL-9494 Schaan. Hilti est une marque déposée de Hilti AG, Schaan



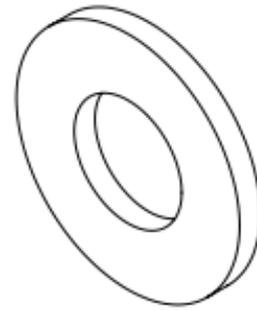
Contraintes montage

- Sol de niveau ou fondation de niveau
- Tréteaux + lève-plaques réglables
- Plots de béton ou pieux

Liste des pièces



Ecrous M12 x 64 M8 x 44



Rondelles M12 x 128 M8 x 60

ST6,3 x 25 mm x 12

M8 x 30 mm x 24

M10 x 70 mm x 8

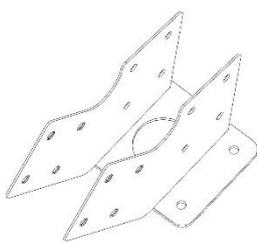
M12 x 60 mm x 16

M12 x 130 mm x 48

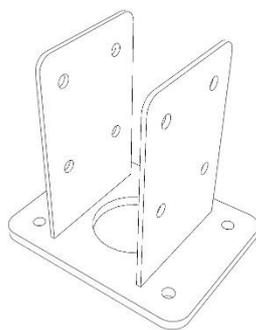
M8 X 16 mm X 24

M8 X 16 TF X 12

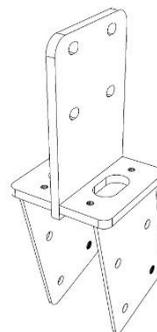
ST 2.9 x 13 mm x 24



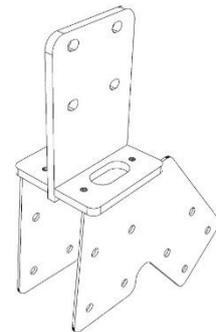
Tôle encastrement long x 2



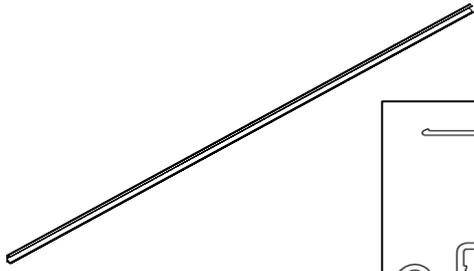
Tôle encastrement court x 2



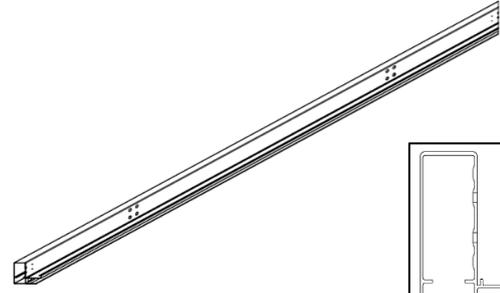
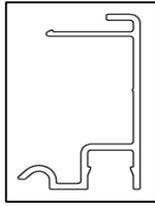
Encastrement haut poteau long x 2



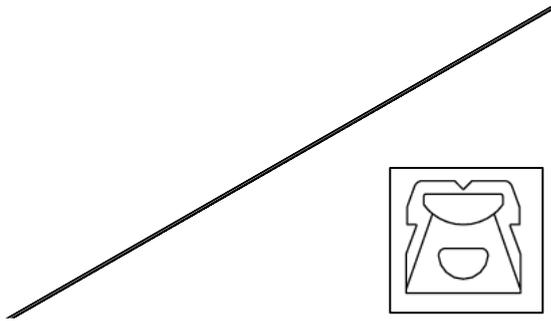
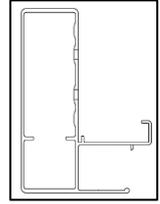
Encastrement haut poteau court x 2



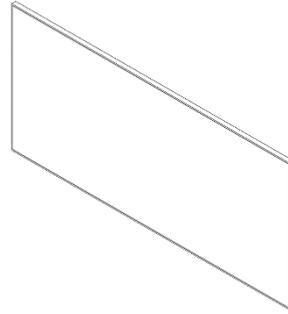
Capot technique 5,4 m x 2 4,7 m x 2



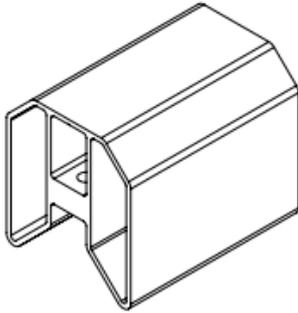
Profilé 5 m x 2 6 m x 2



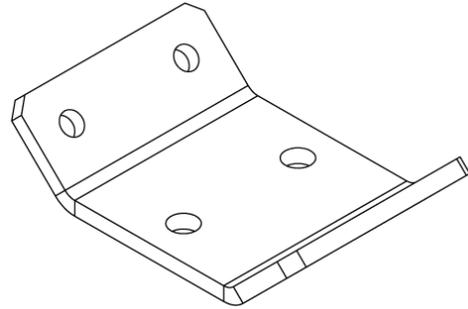
Bandeau LED 5,7 m x 2 4,3 m x 2



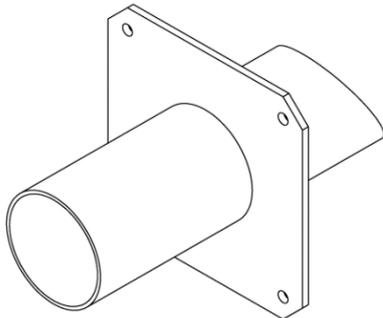
Panneaux x 9



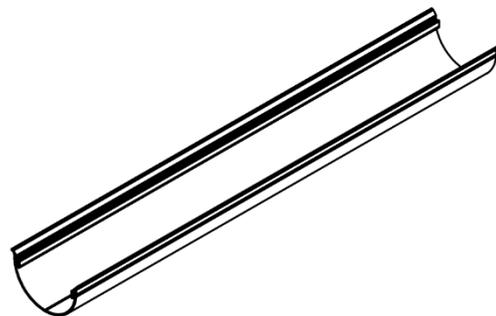
Profilé reprise angle x 4



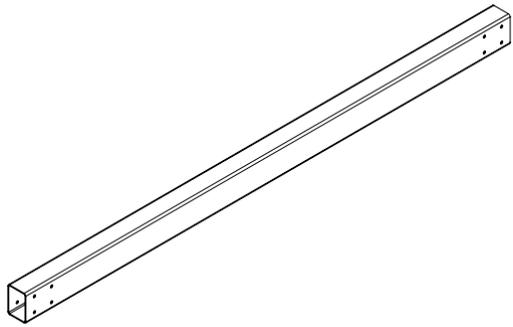
Tôle tendeuse x 4



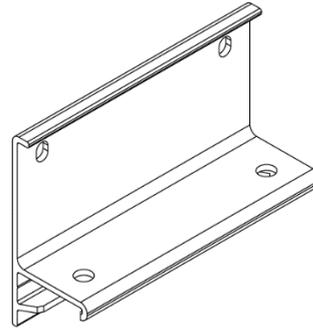
Sortie d'eau horizontale x 2



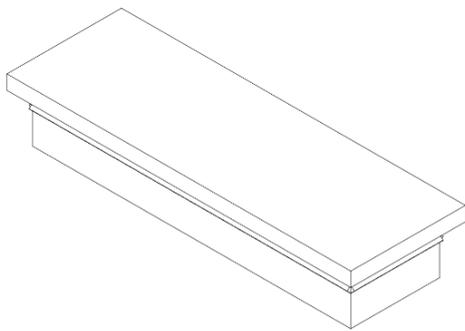
Goulotte 1 m x 6



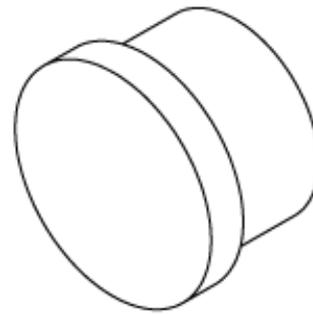
Poteaux 2,5 m x 2 2,8 m x 2 3,3 m x 2



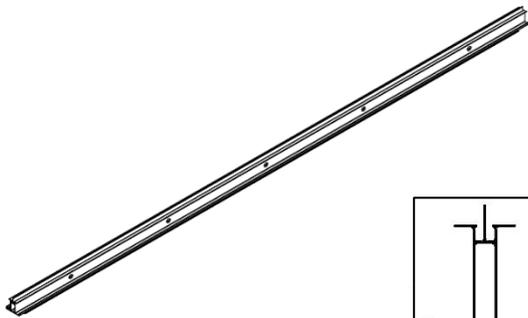
Equerre support profilé x 4



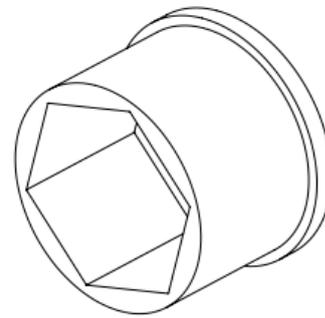
Embout rectangulaire x 2



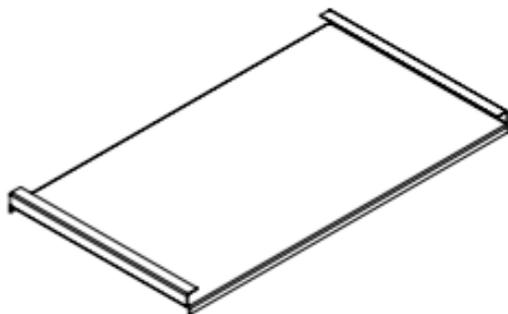
Embout à ailettes x 16



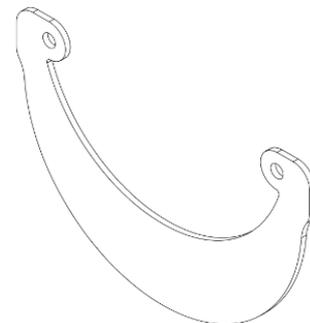
Profilé support panneau x 2



Bouchon x 128



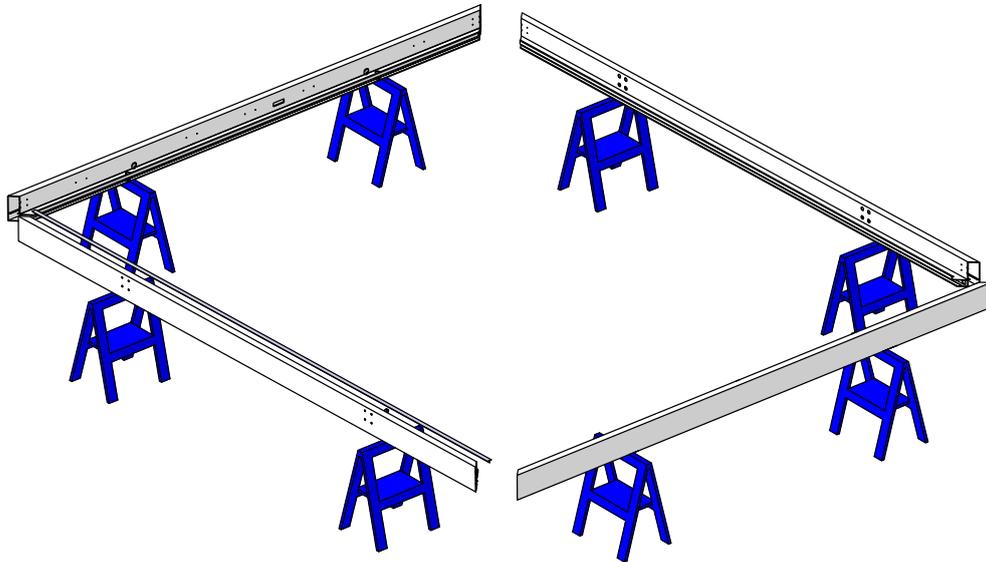
Plaque onduleur x 2



Tôle évacuation goutte x 12

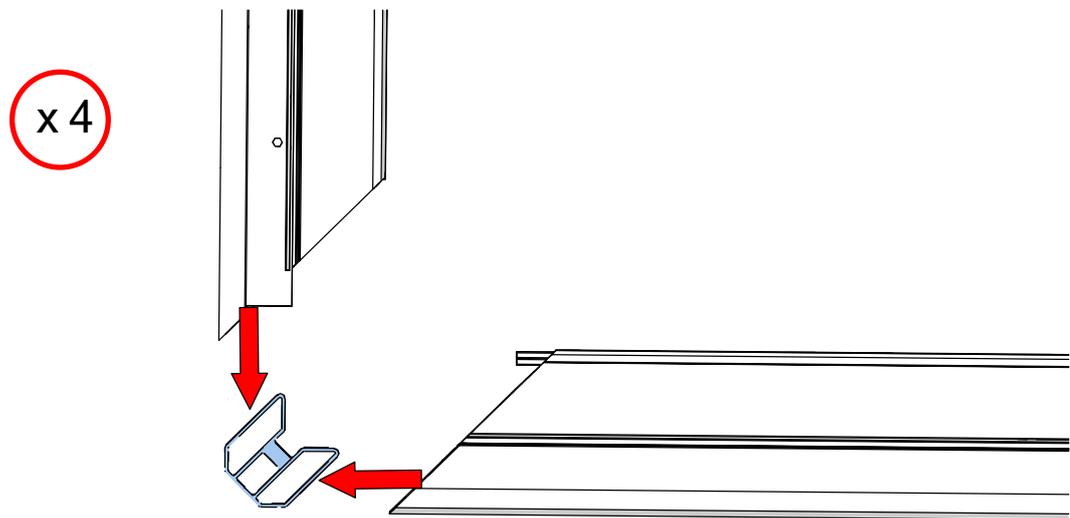
Montage cadre

1 Positionnement profilés



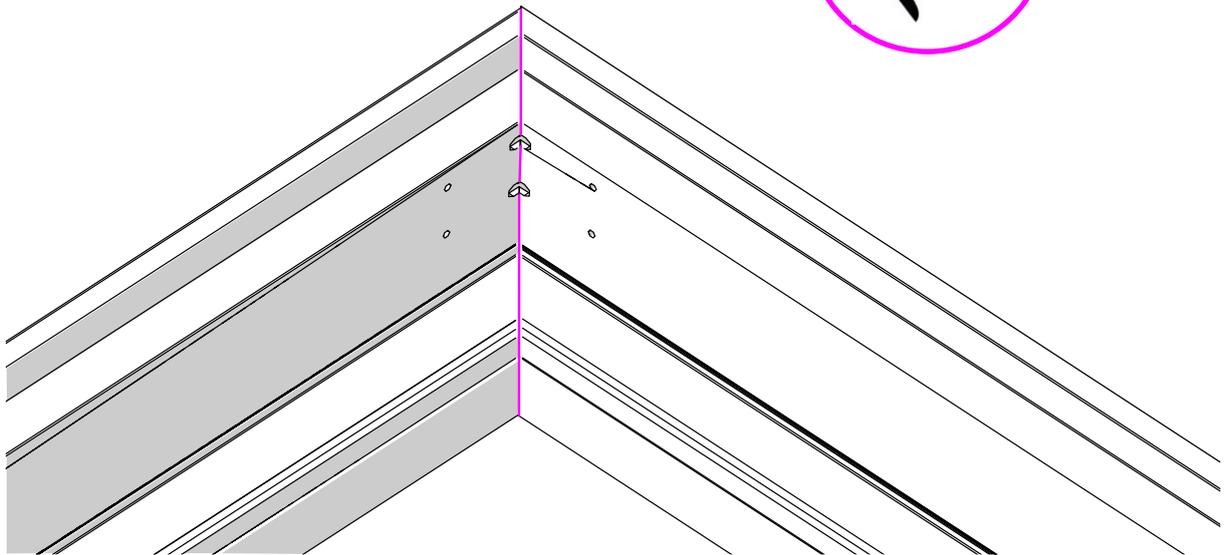
2 Insertion profilé reprise angle

2-1



2-2

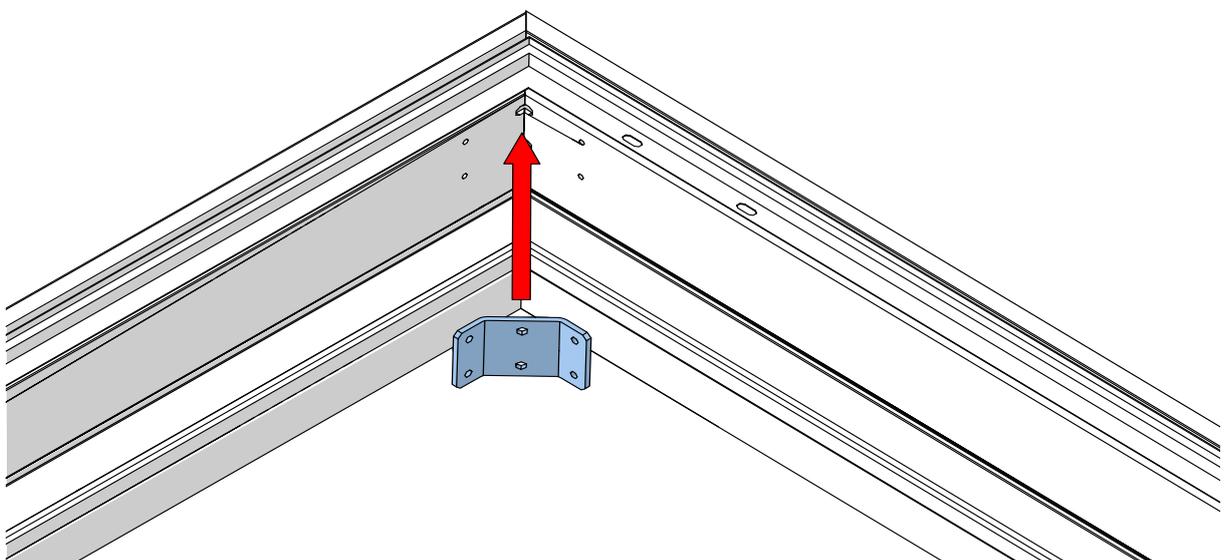
x 4



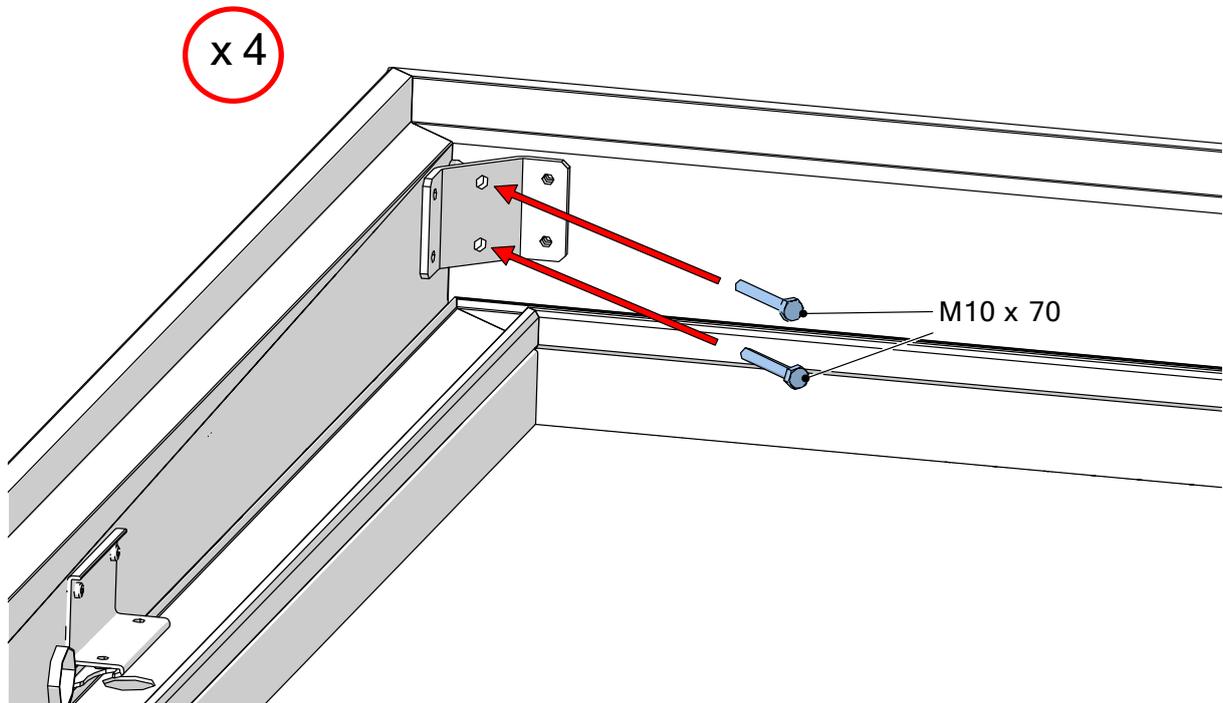
3 Montage tôle tendeuse

3-1

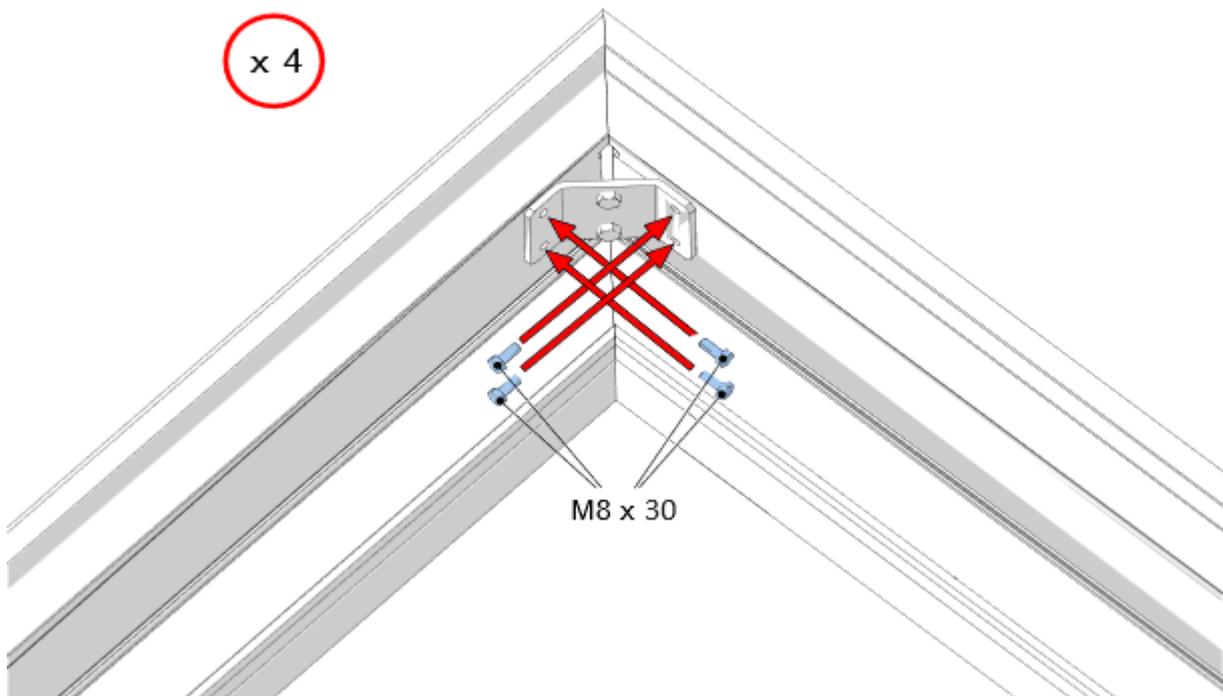
x 4



3-2

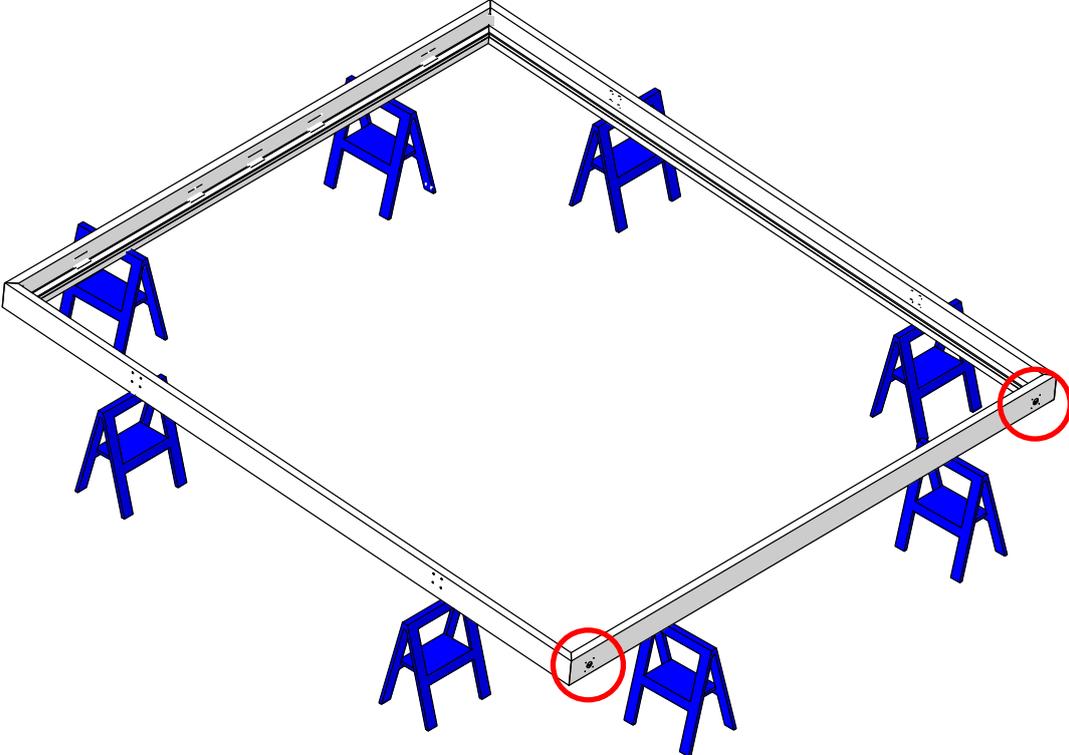


3-3

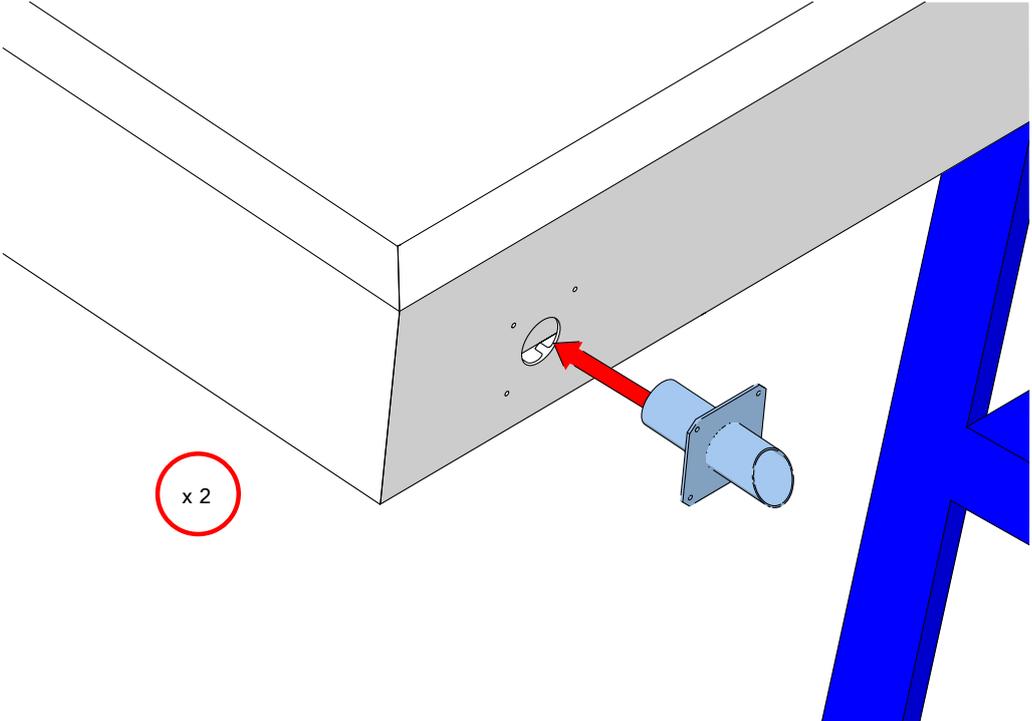


4 Sorties d'eau horizontale

4-1

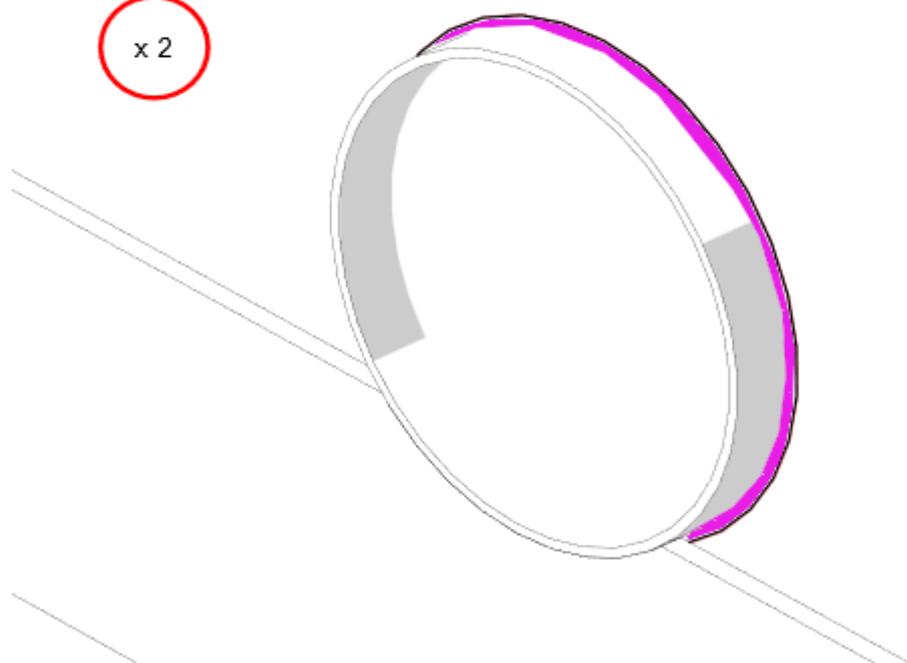


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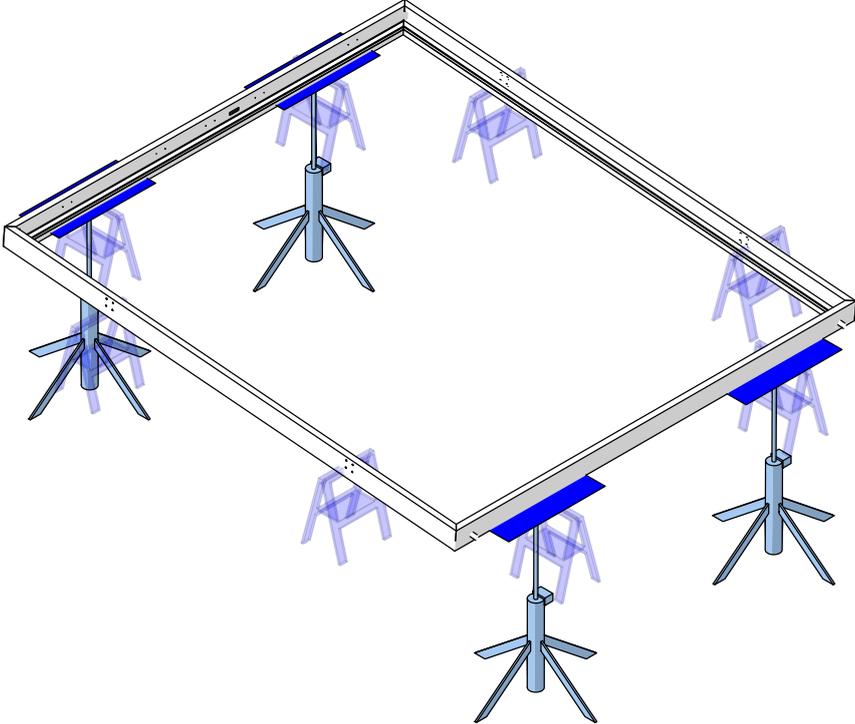


4-3

x 2

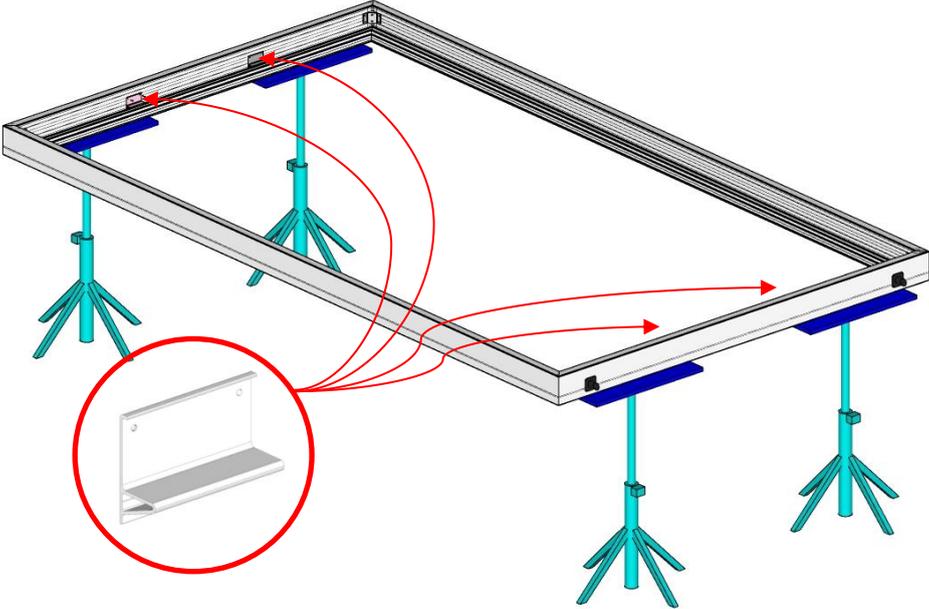


6 Mise en place des lève-plaques

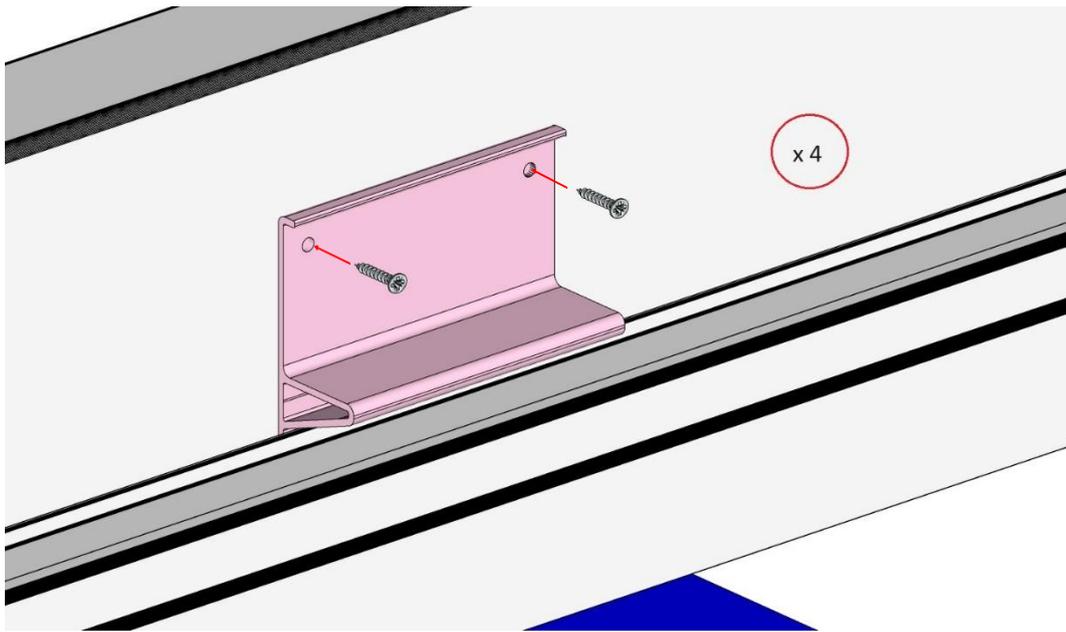


7 Montage des équerres

7-1

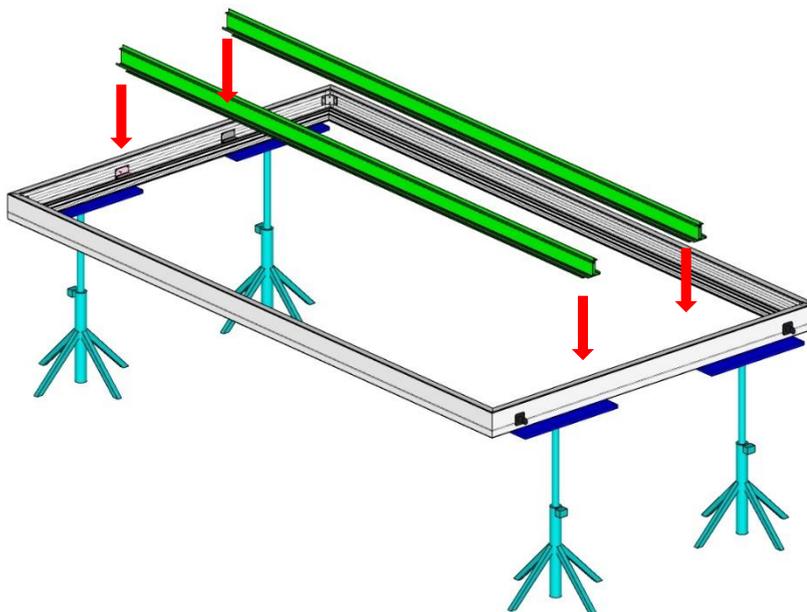


7-2

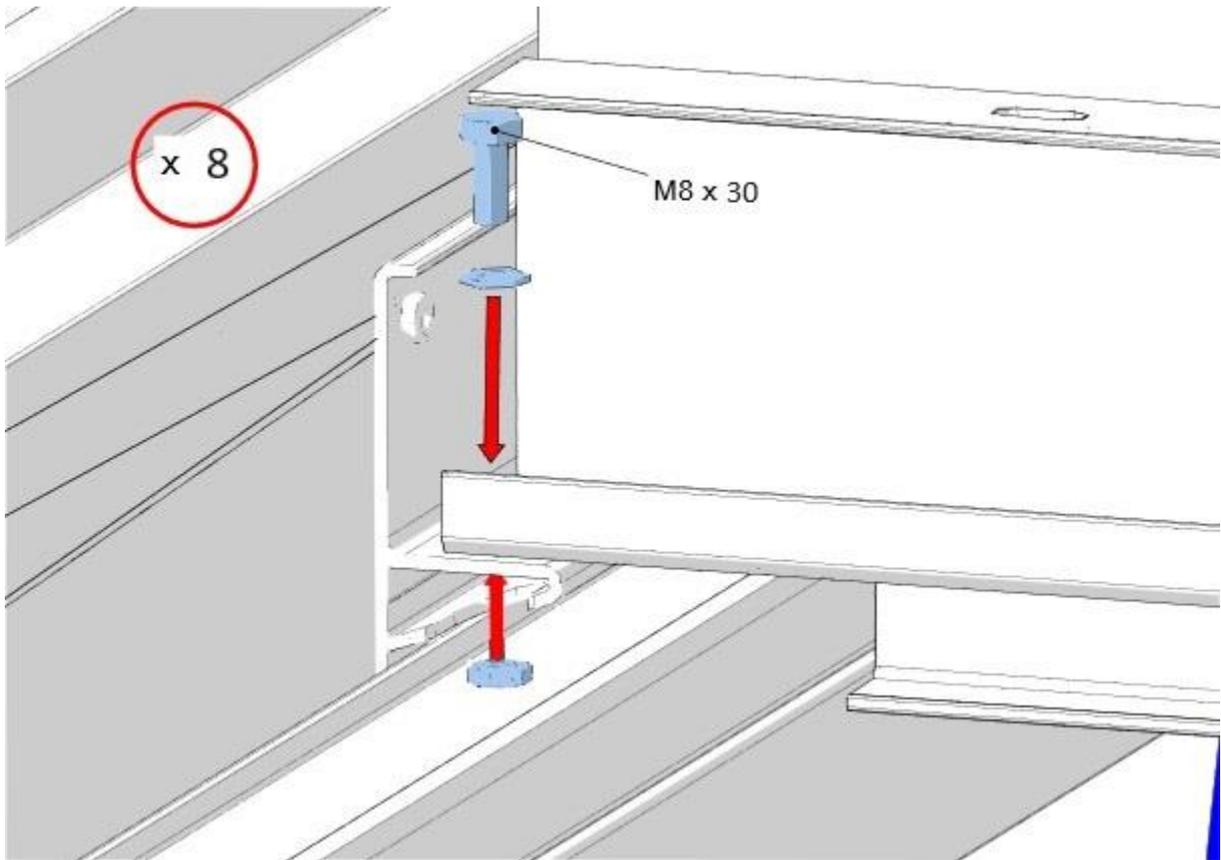


8 Montage des profilés

8-1

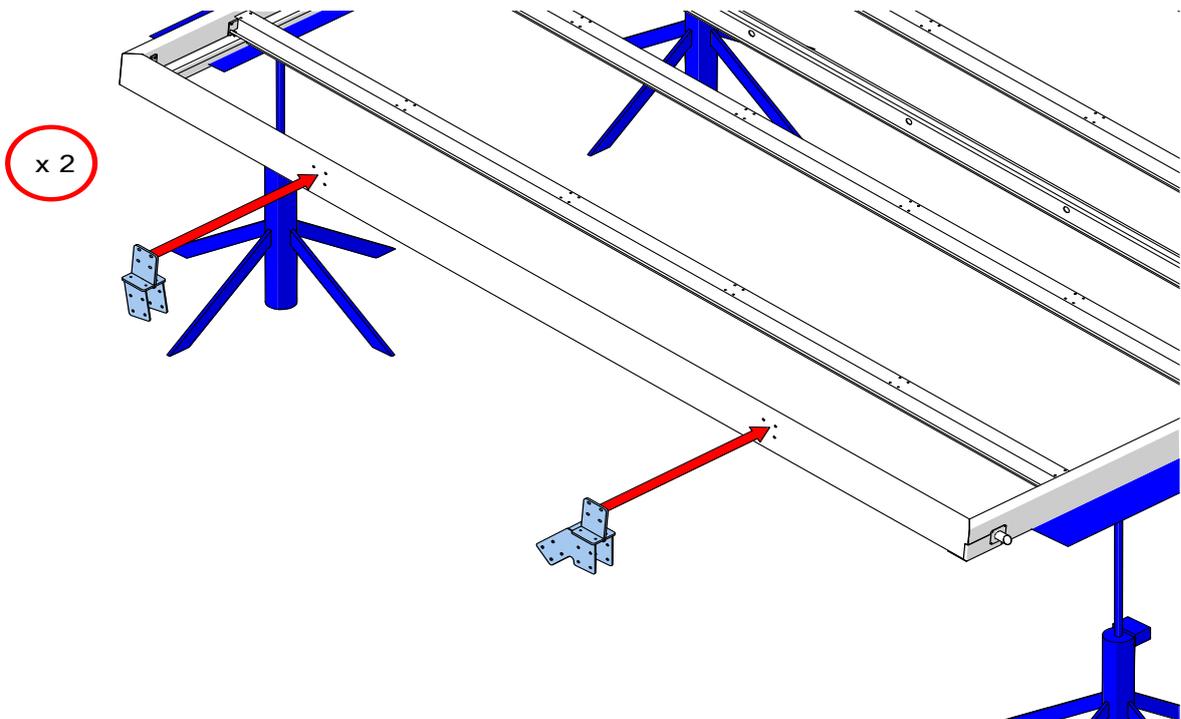


8-2

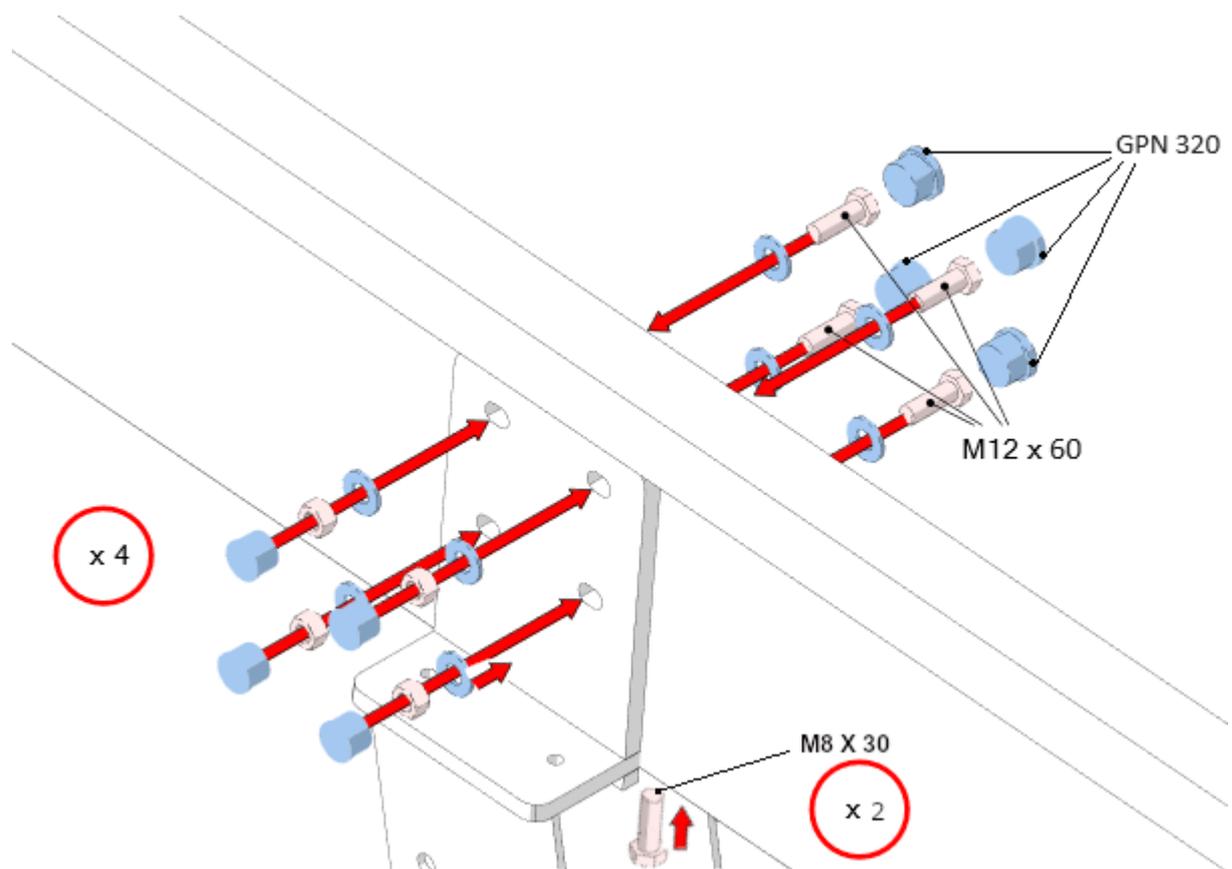


9 Montage des encastremements

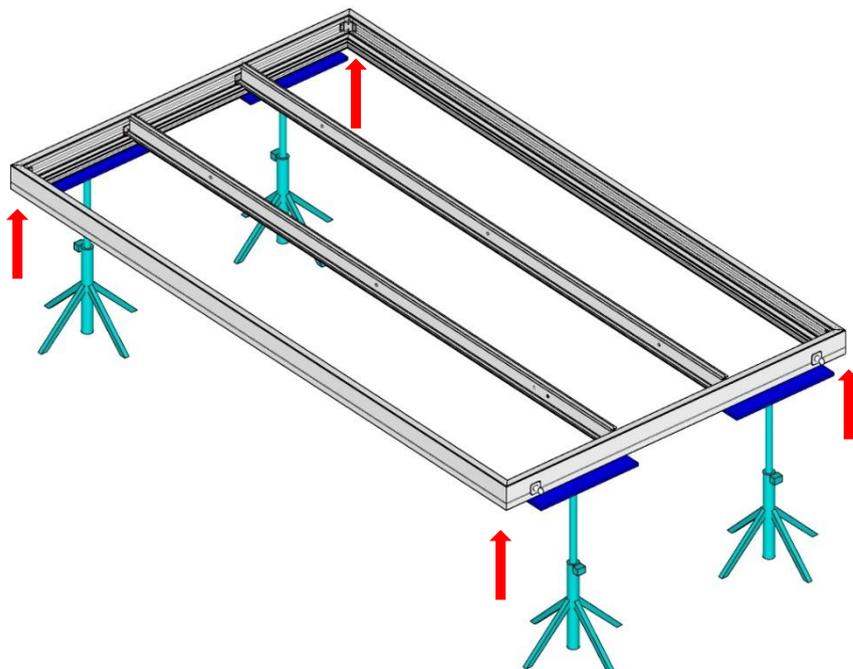
9-1



9-2



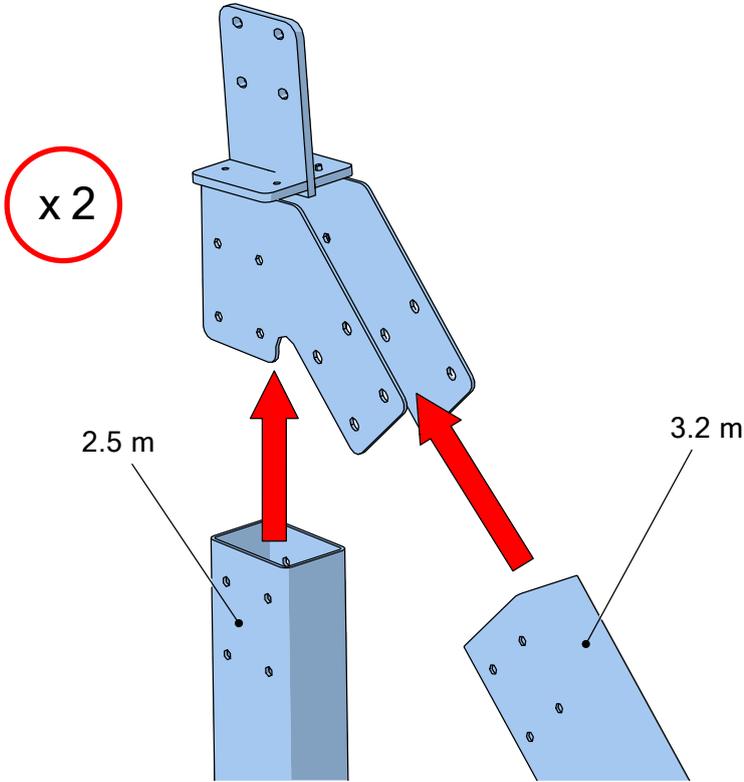
10 Soulèvement avec lève-plaques



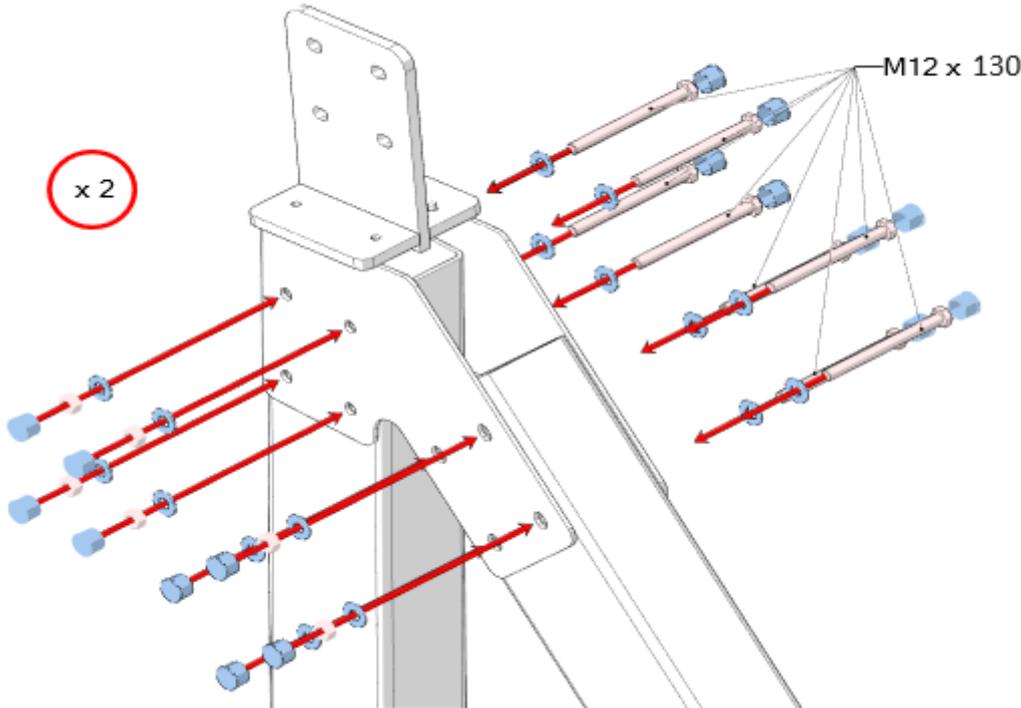
Montage supports

1 Encastrement haut poteau court

1-1

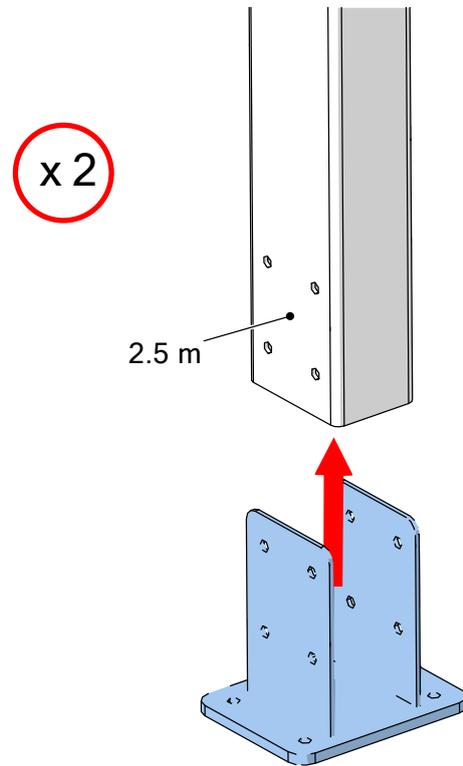


1-2

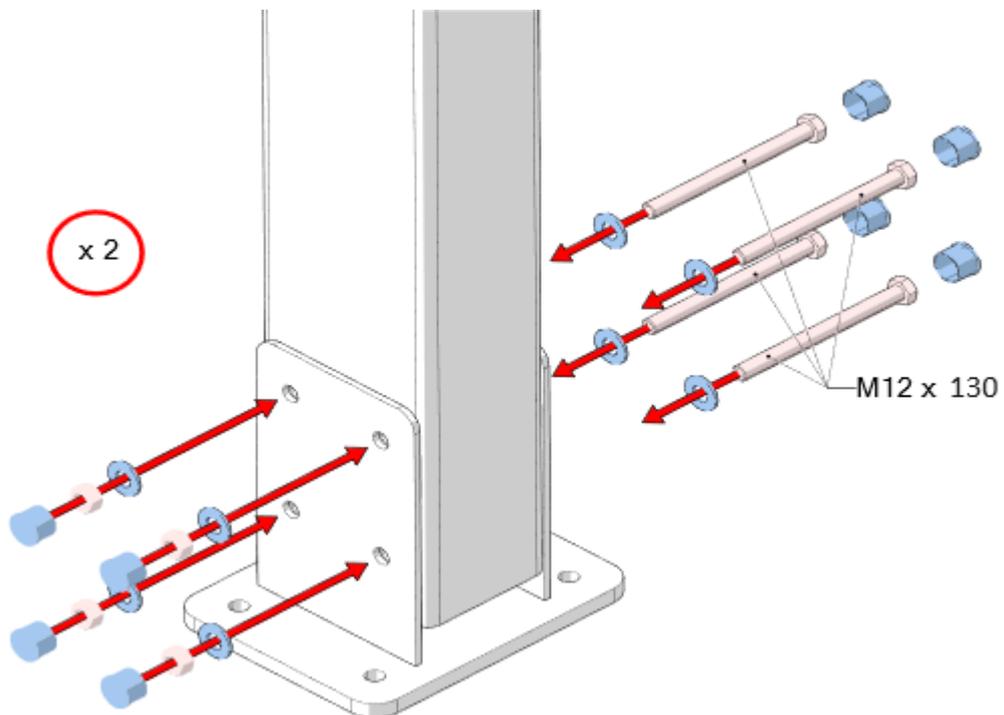


2 Tôle encastrement court

2-1

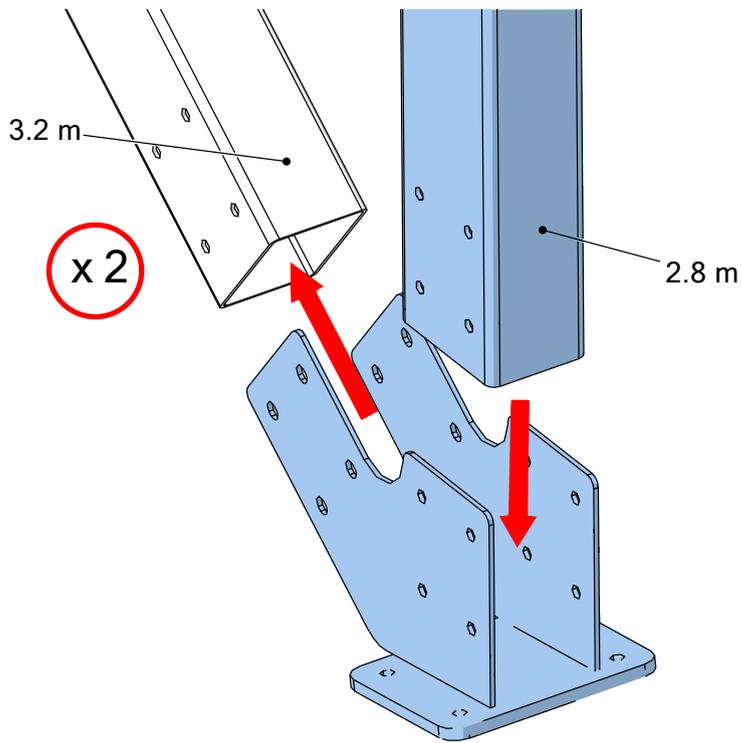


2-2

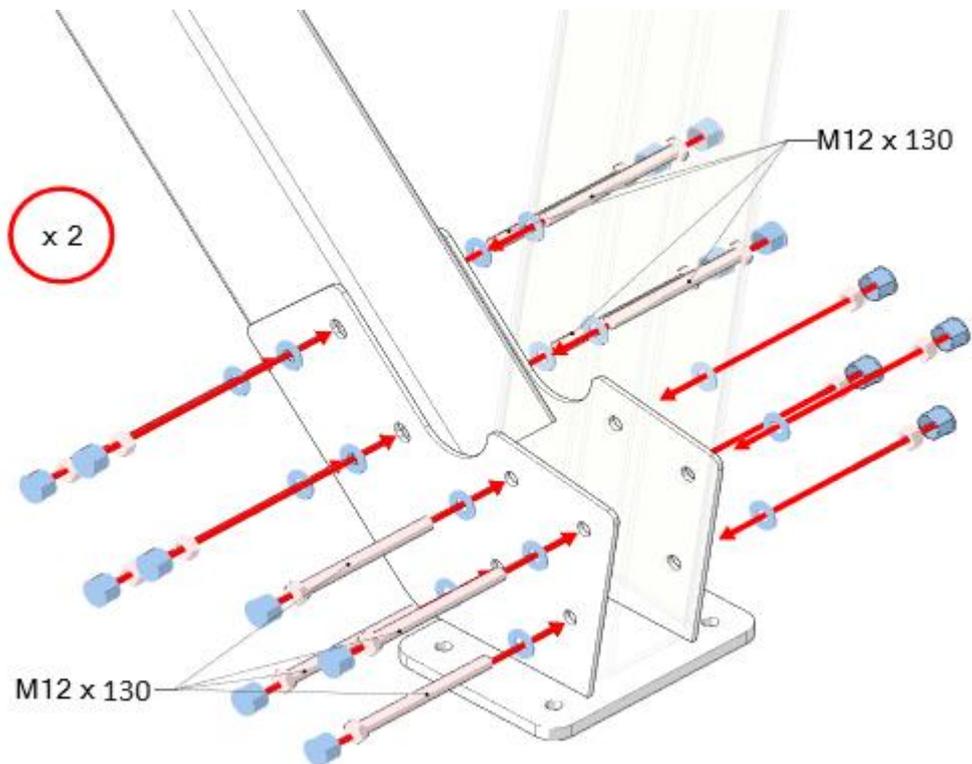


3 Tôle encastrement long

3-1

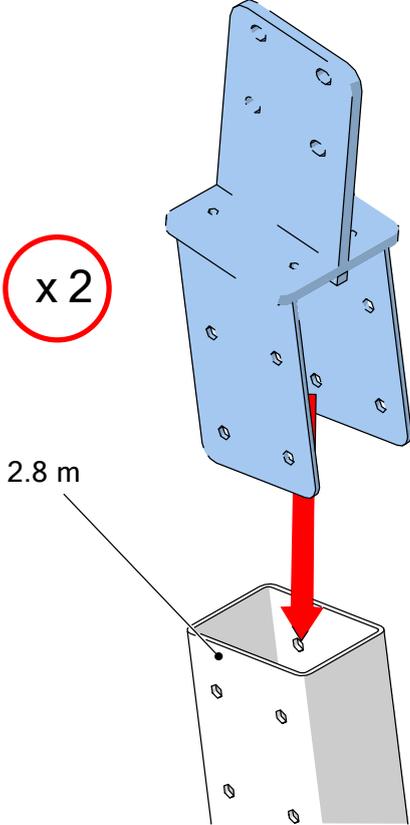


3-2

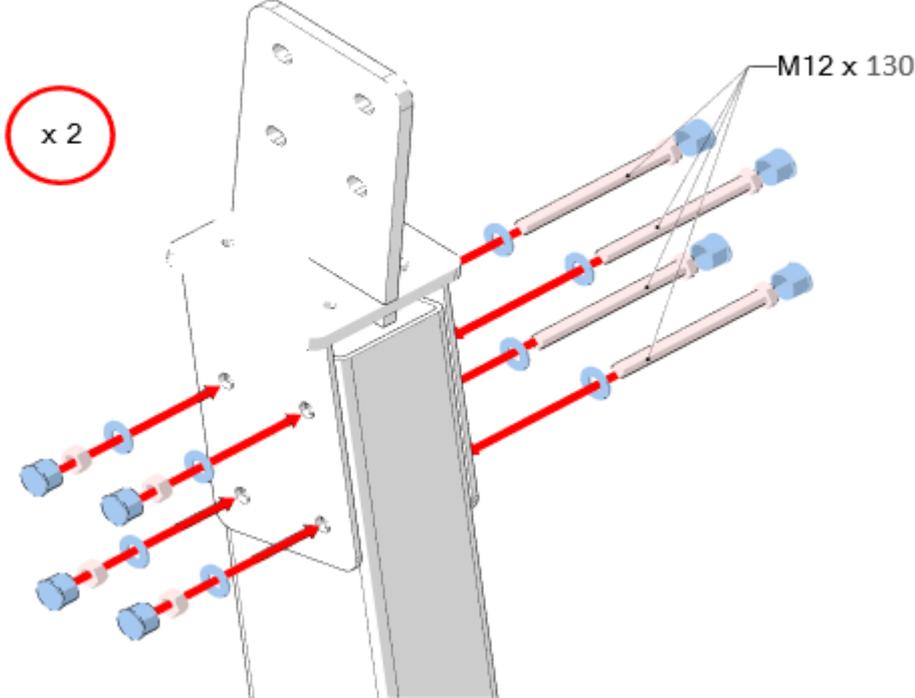


4 Encastrement haut poteau long

4-1



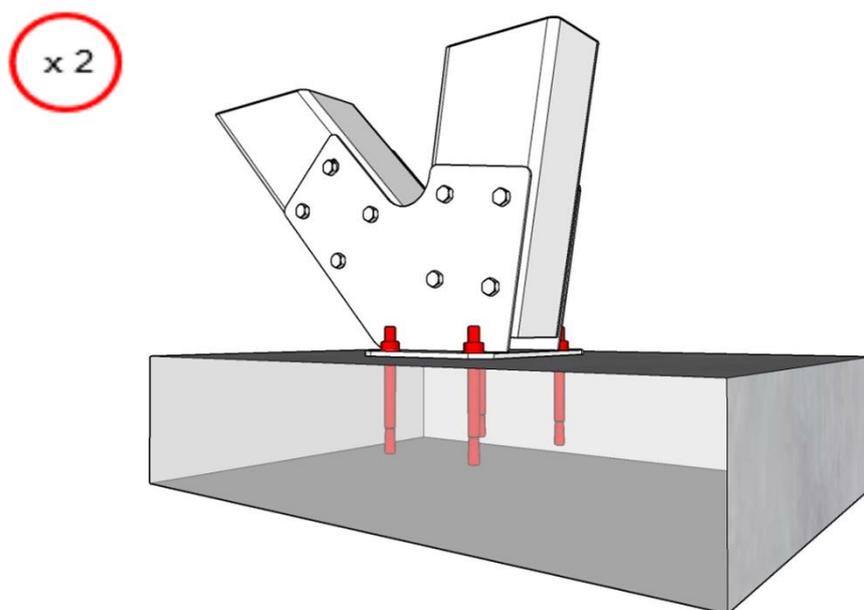
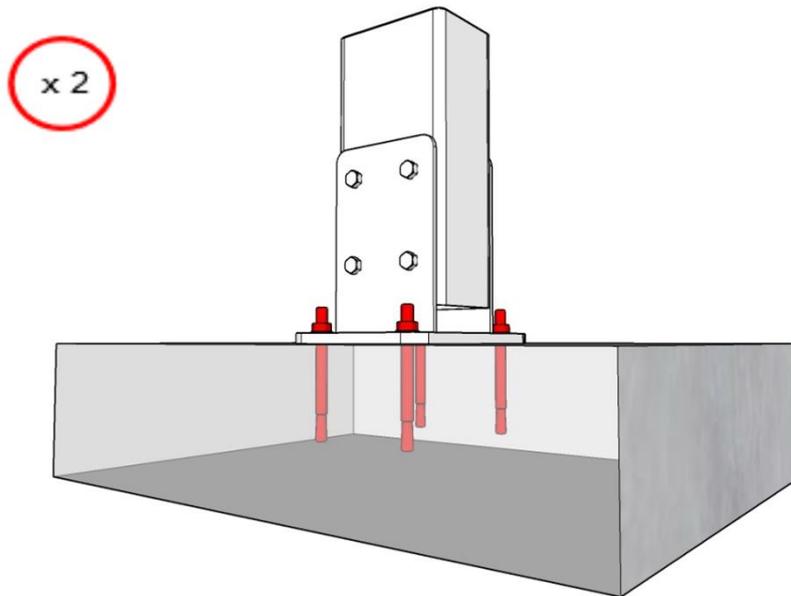
4-2



5 Fixation au sol

Voir préconisation page 3

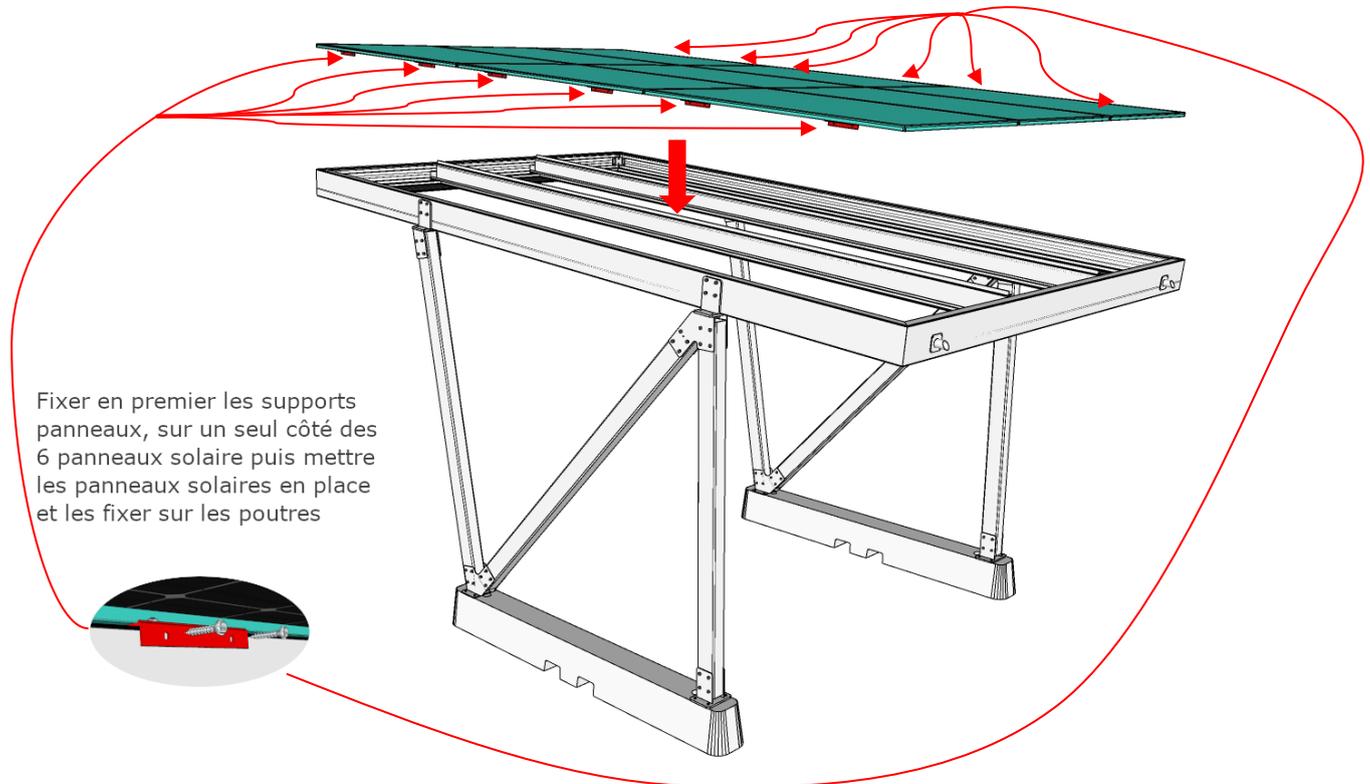
5-1



Montage des panneaux et gouttières

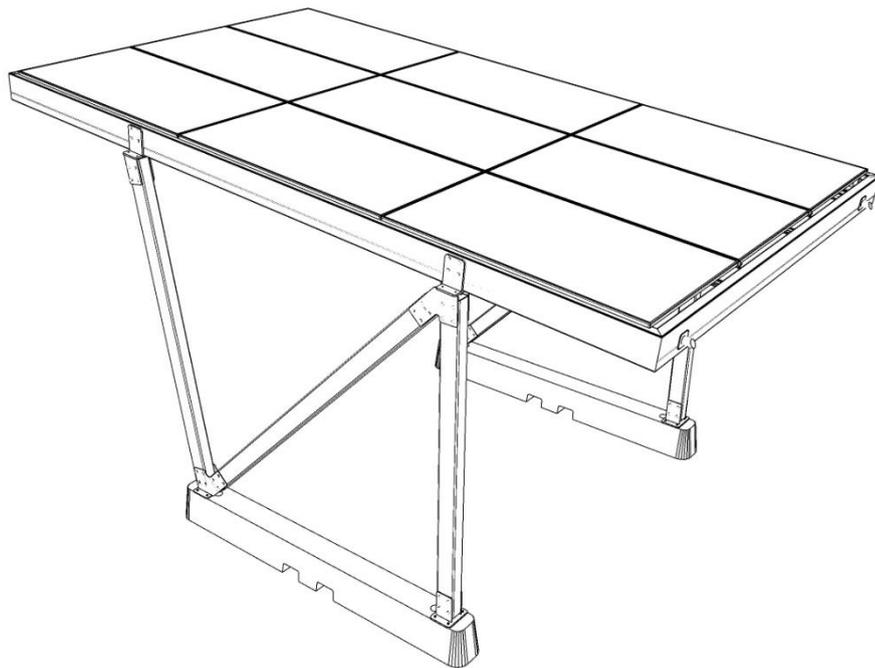
1 Montage panneaux

1-1

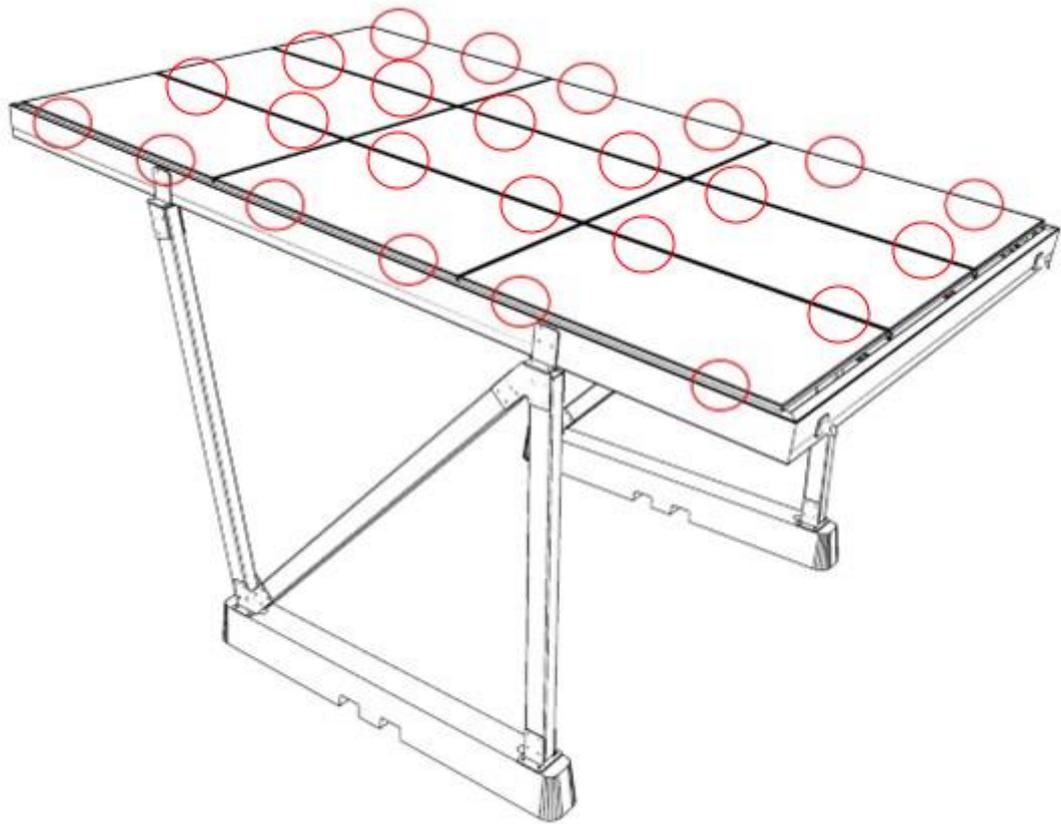


Nota : attention au sens des panneaux

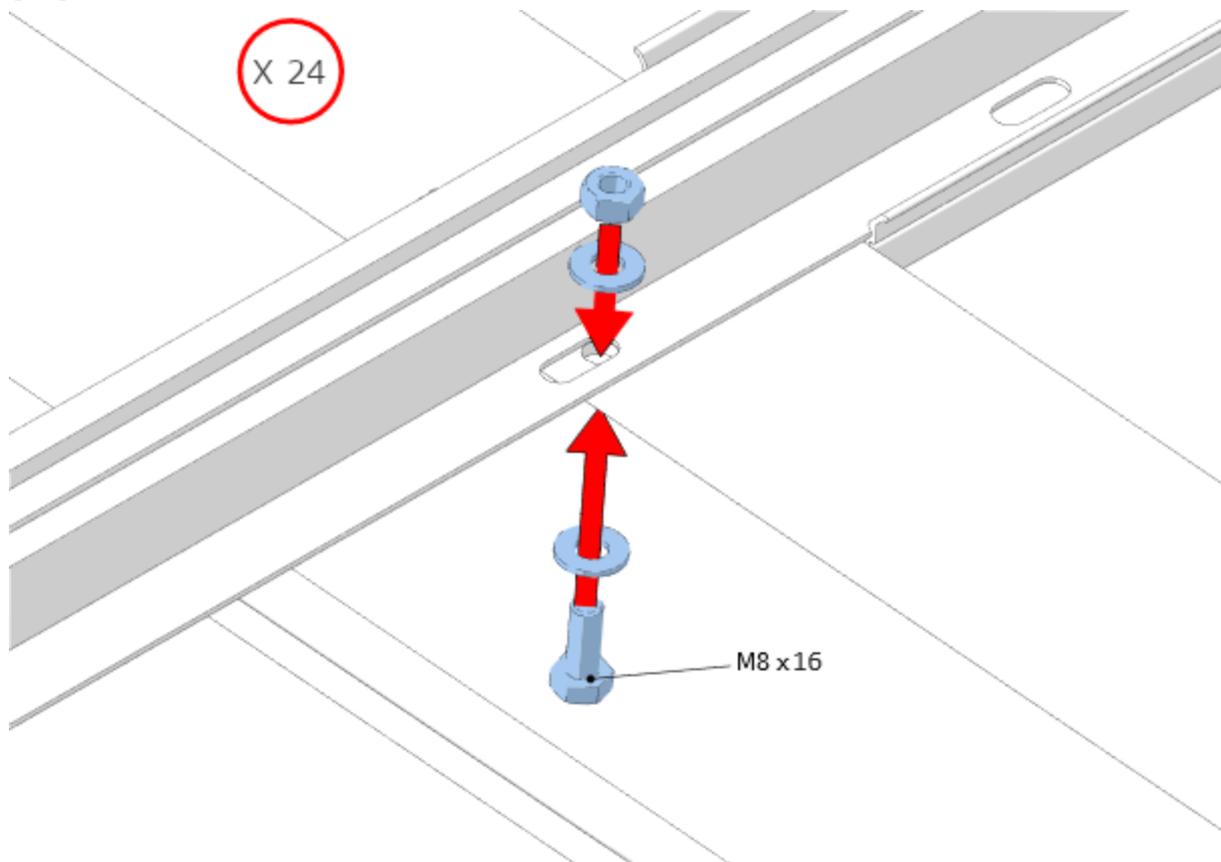
2



1-3

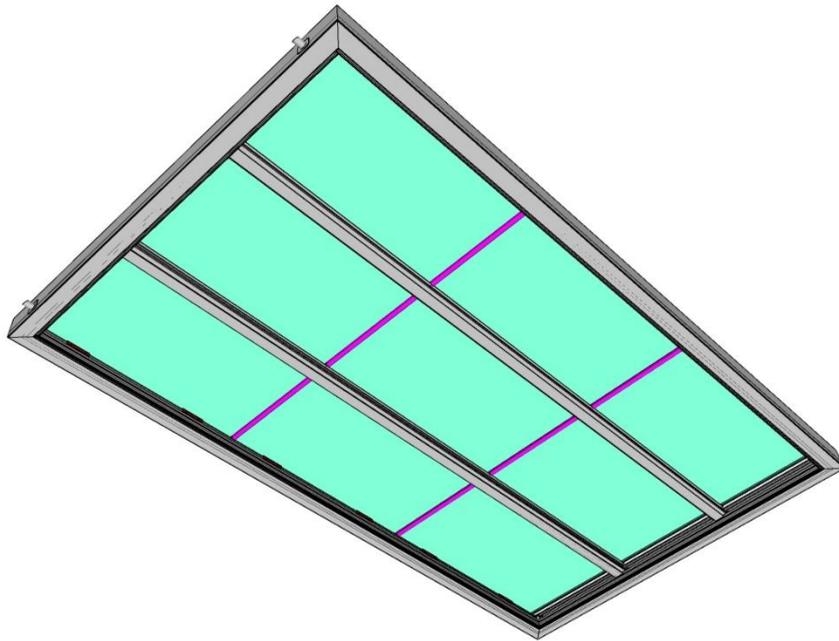


1-4

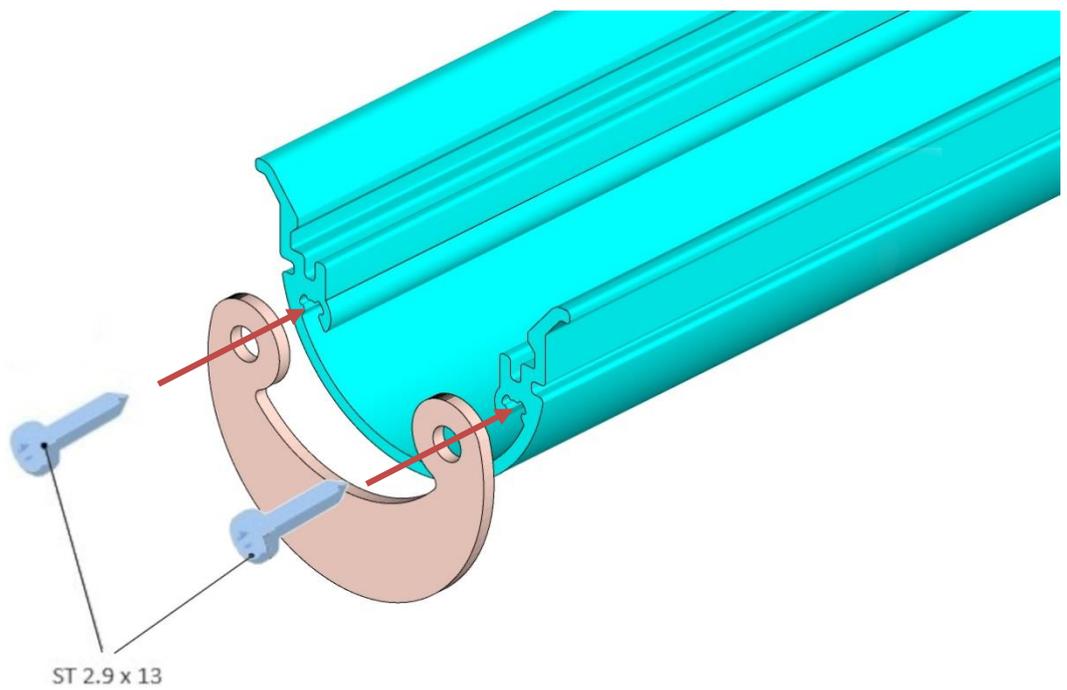


2 Montage gouttière

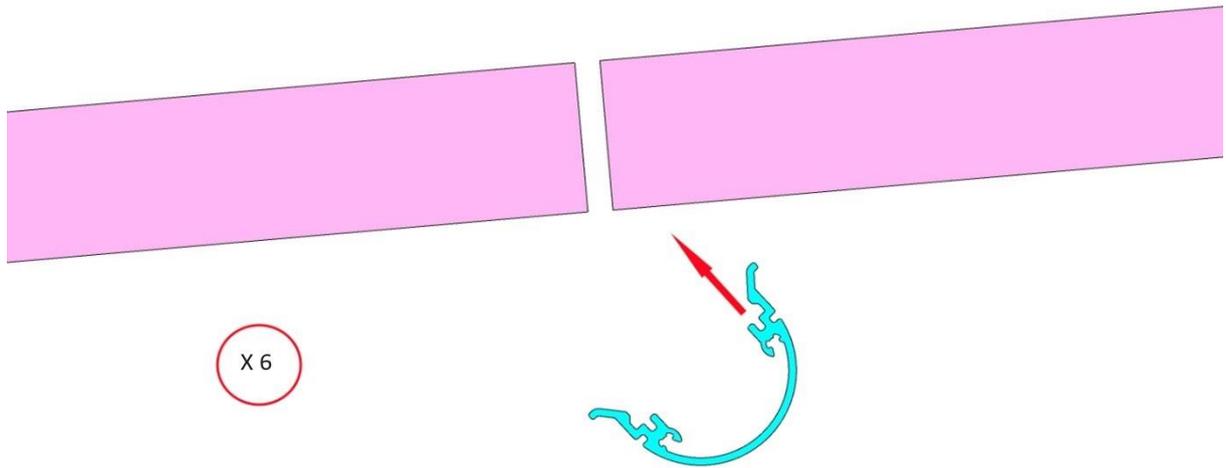
2-1



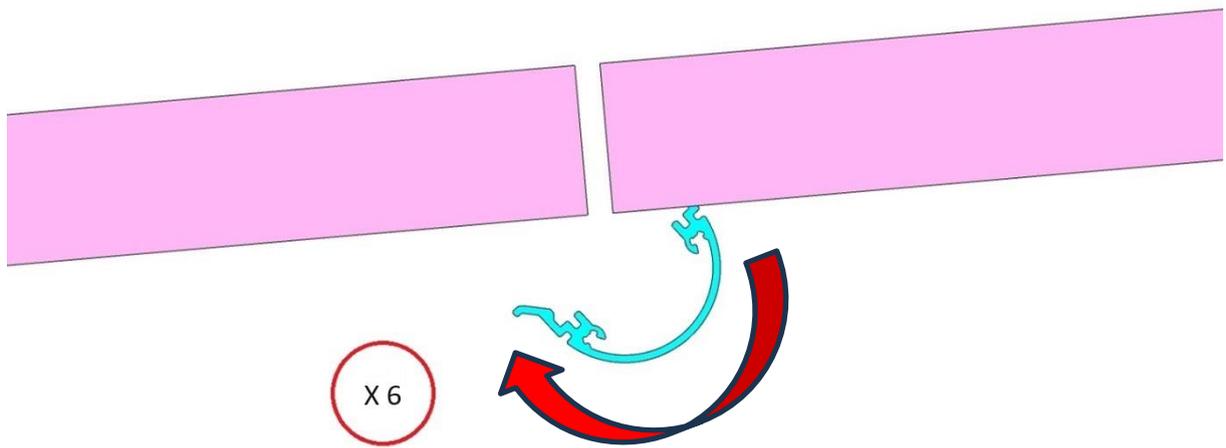
2-2

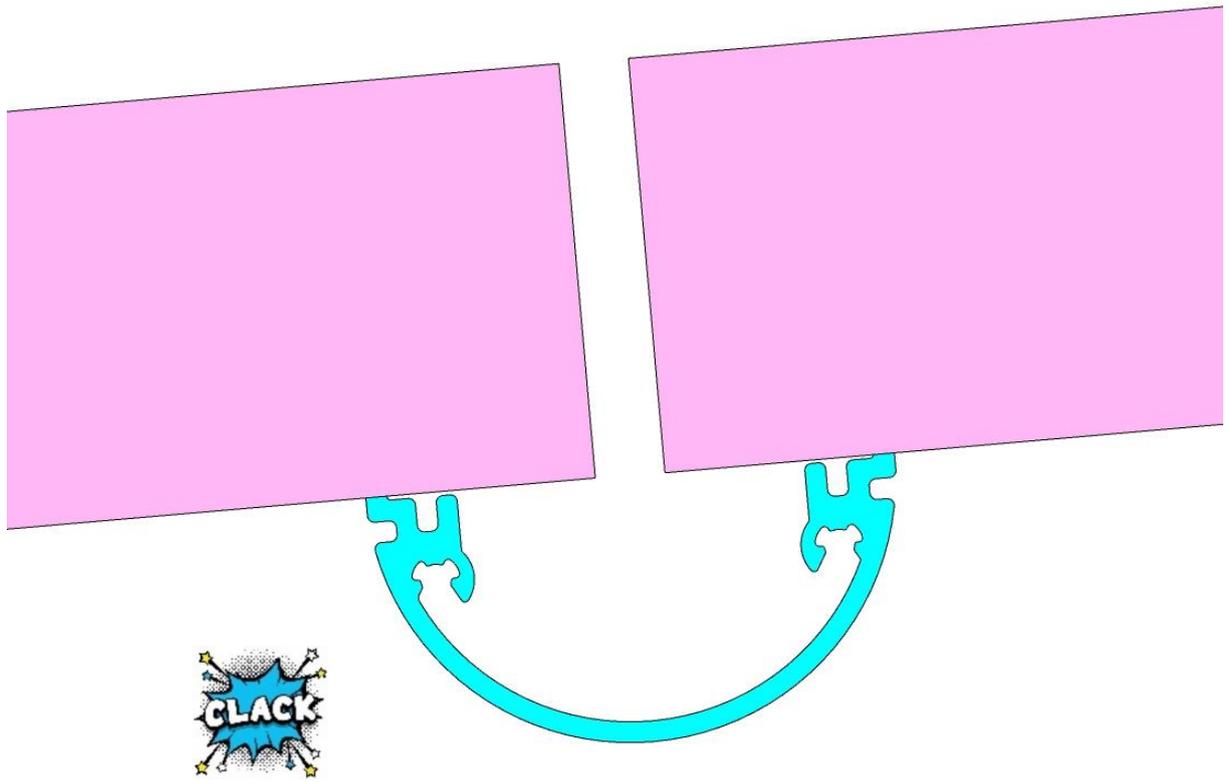


2-3

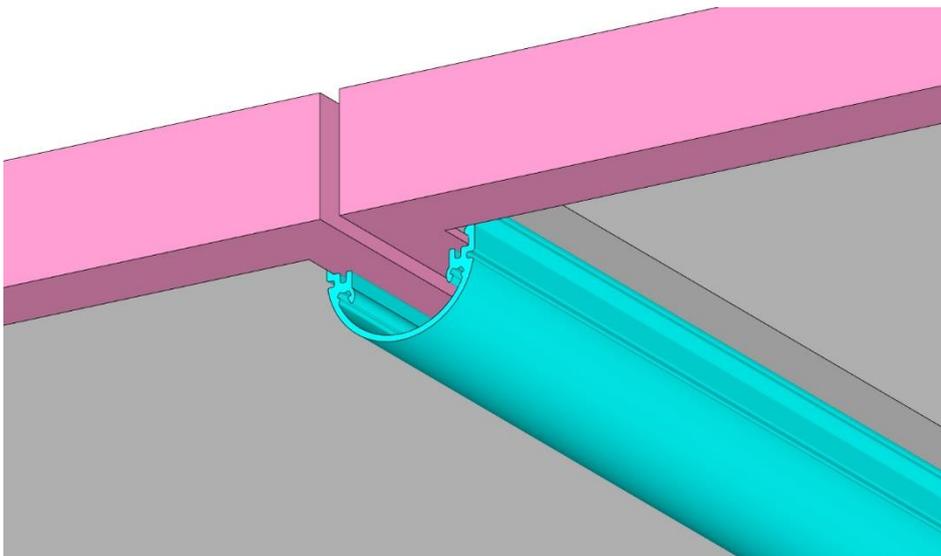


2-4





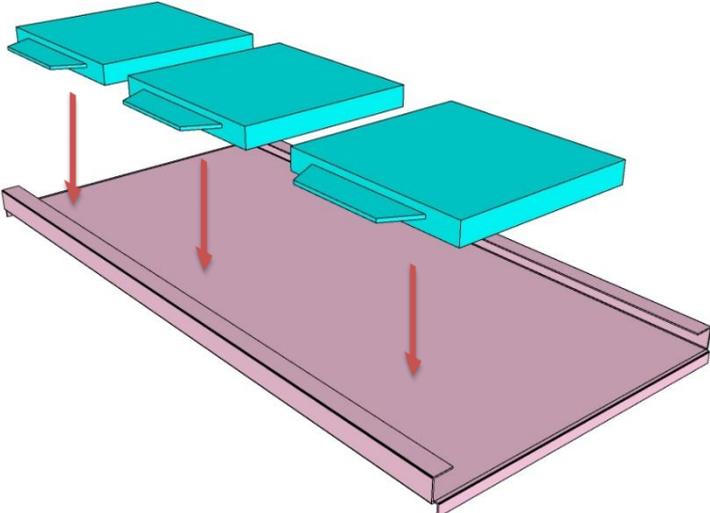
2-5



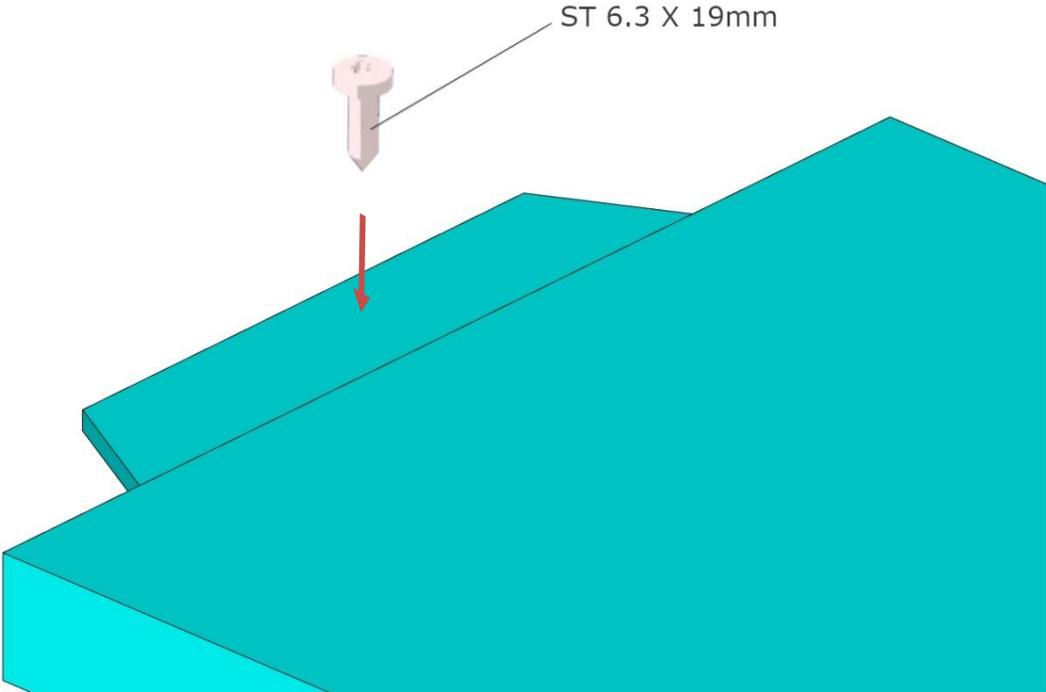
Montage des onduleurs et câbles

1 Montage onduleurs

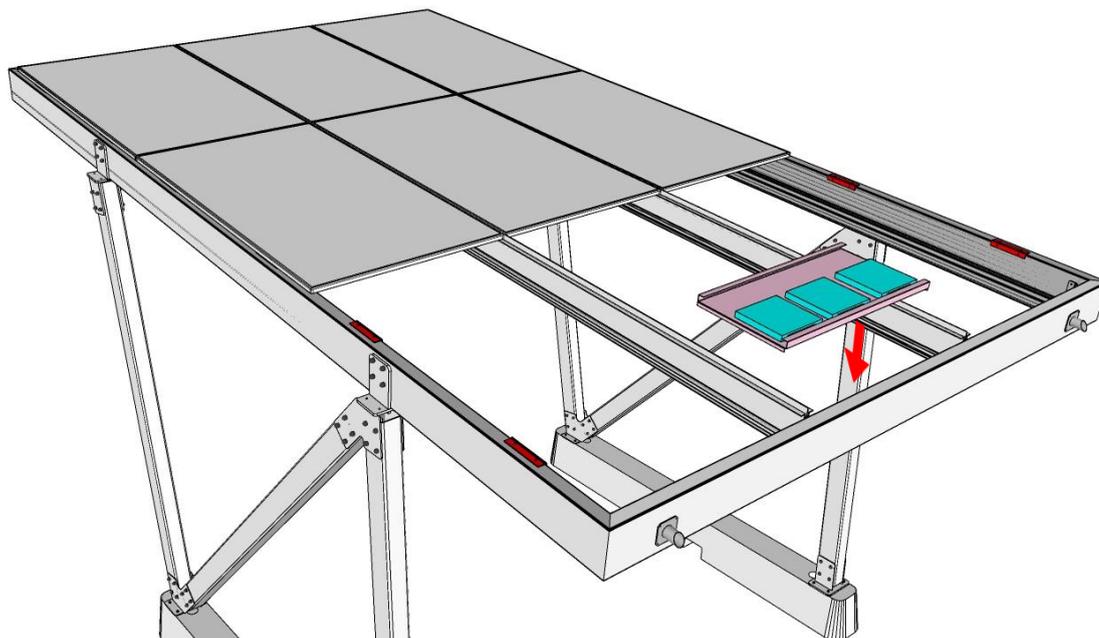
1-1



1-2



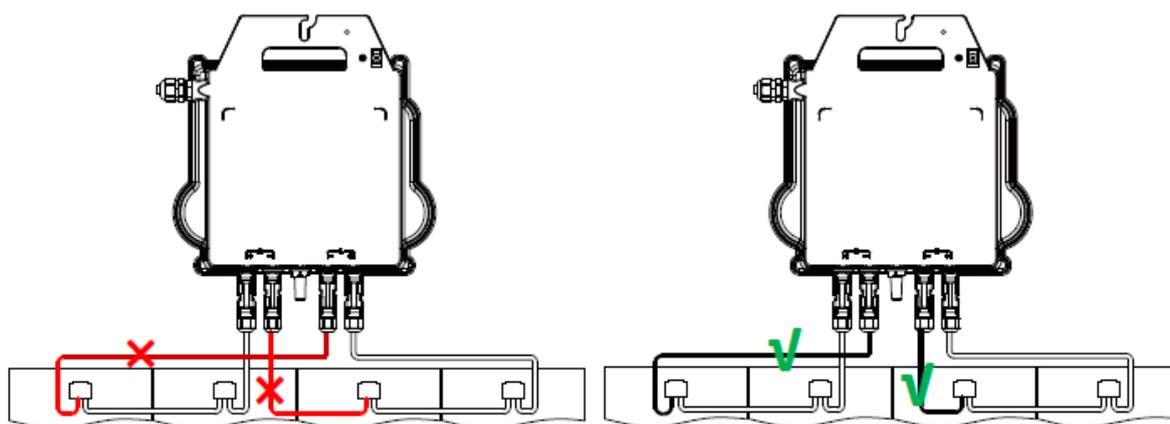
1-3



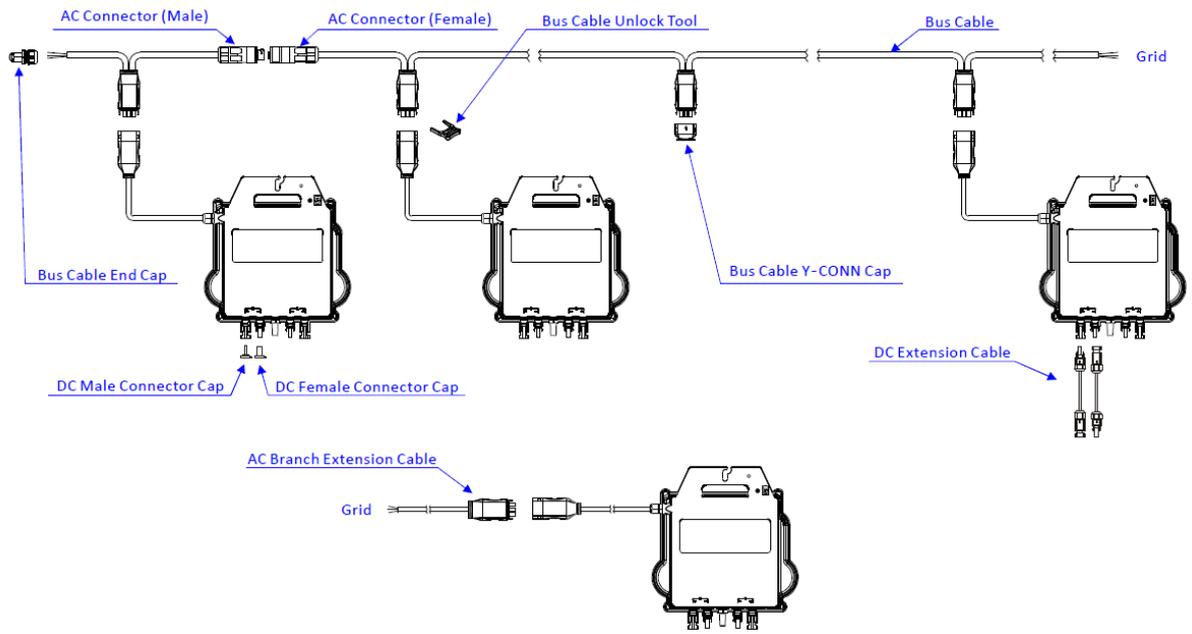
Nota : la plaque est posée sur la structure, non vissée

2 Montage câbles

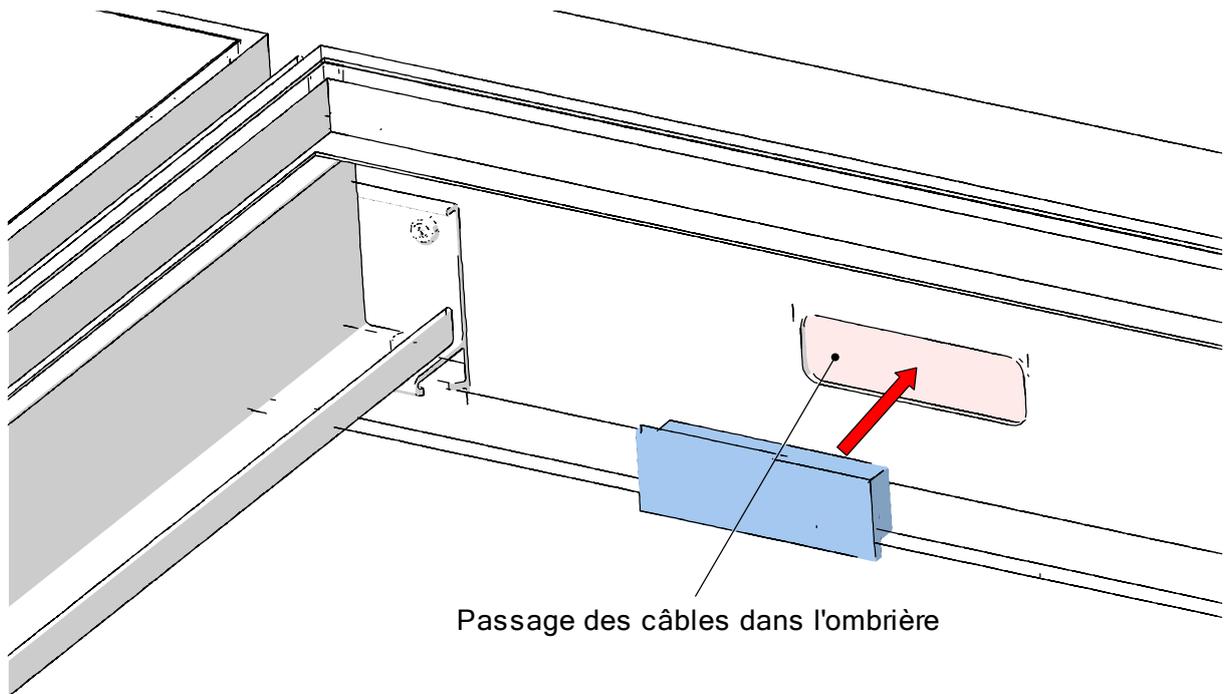
2-1



2-2

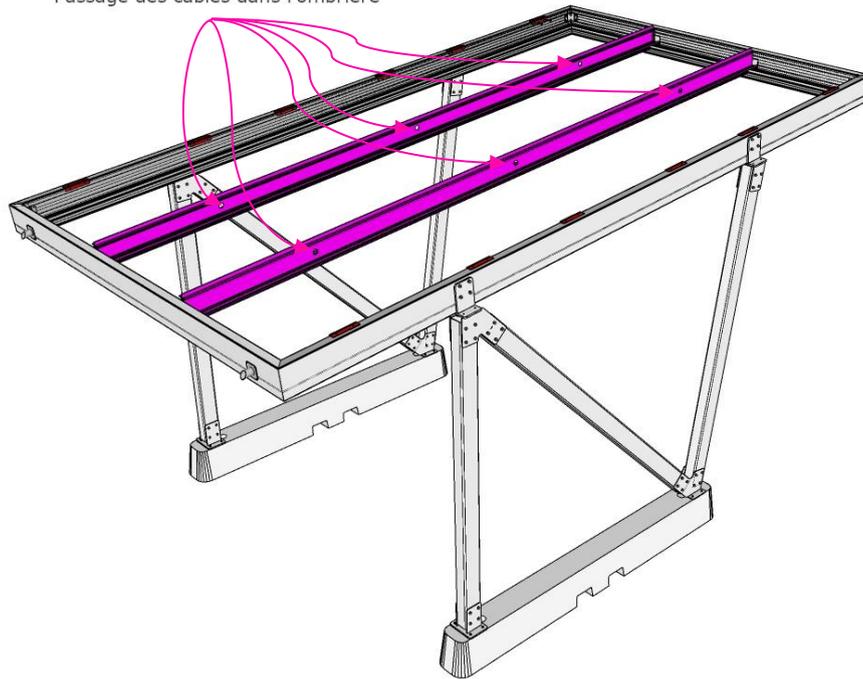


2-3

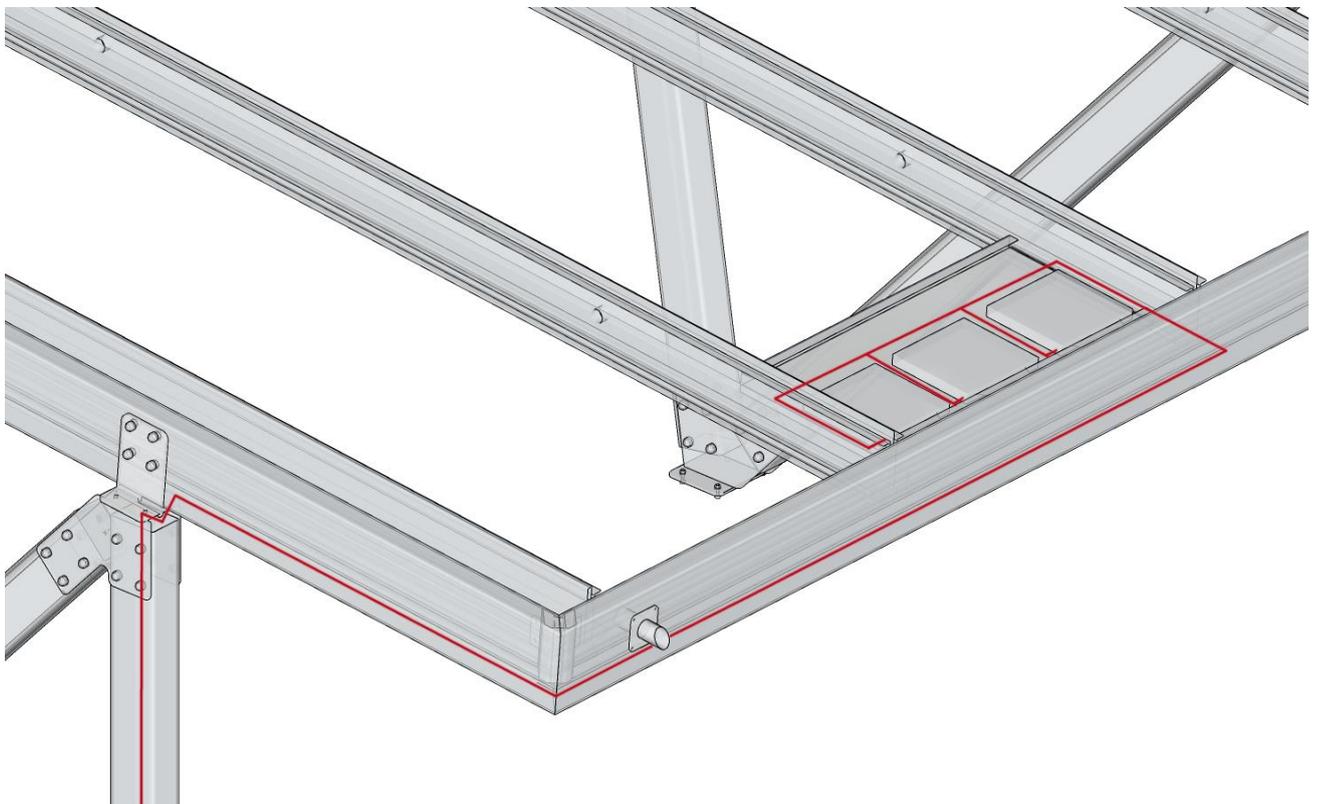


2-4

Passage des cables dans l'ombrière

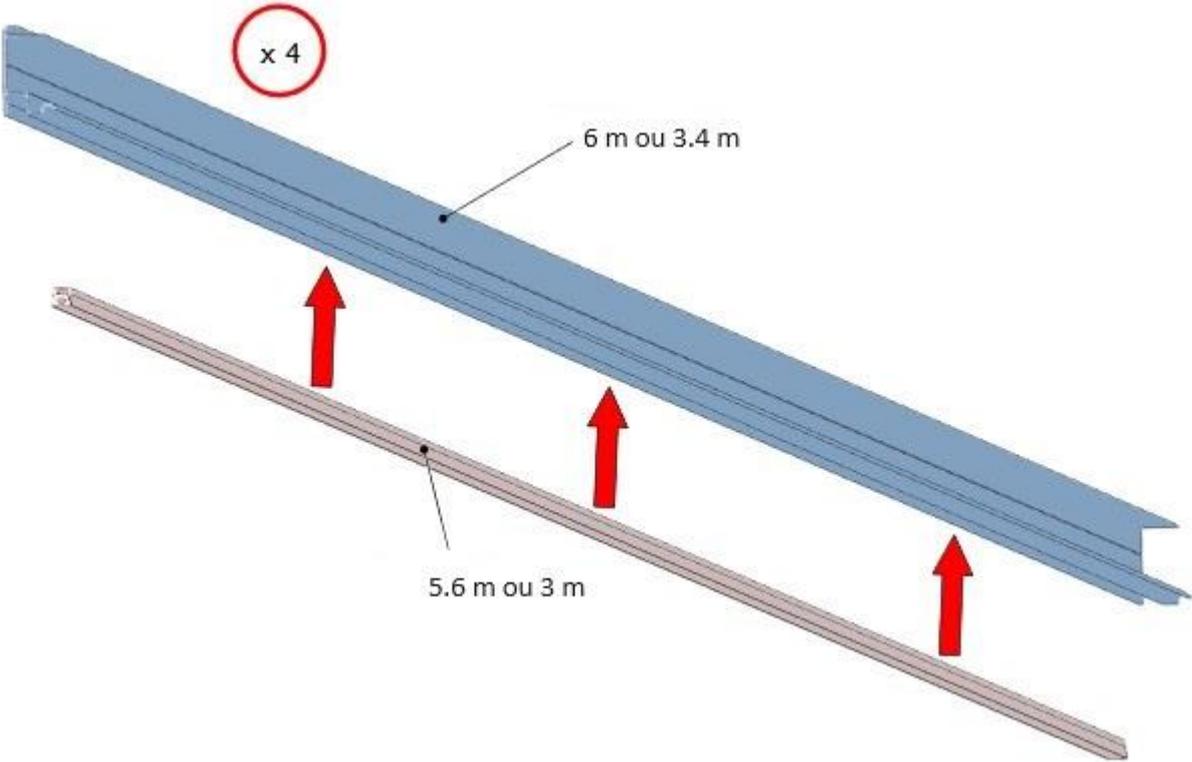


2-5

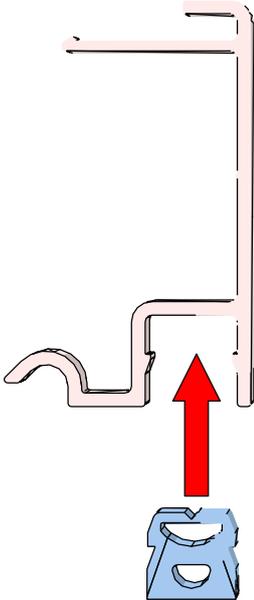


Montage des capots et bandeau LED

1-1



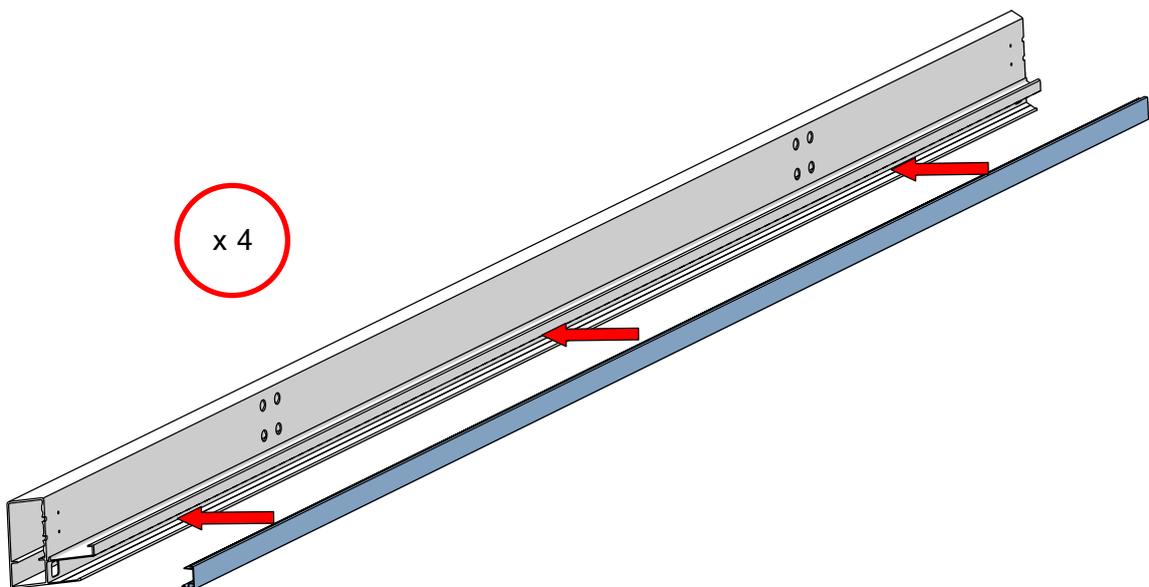
1-2



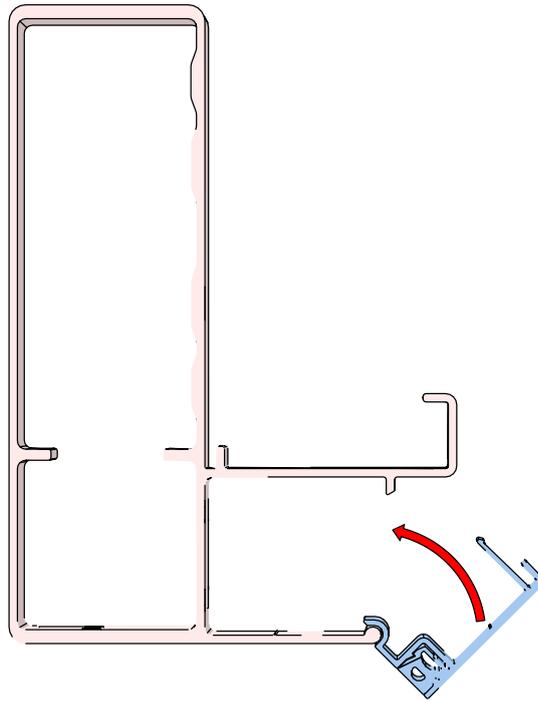
1-3



1-4

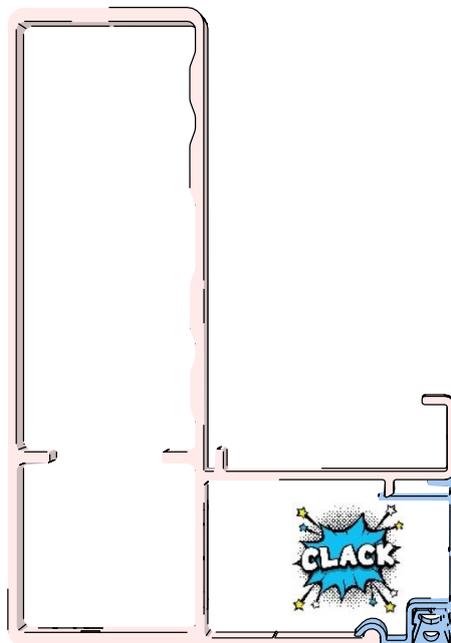


1-5

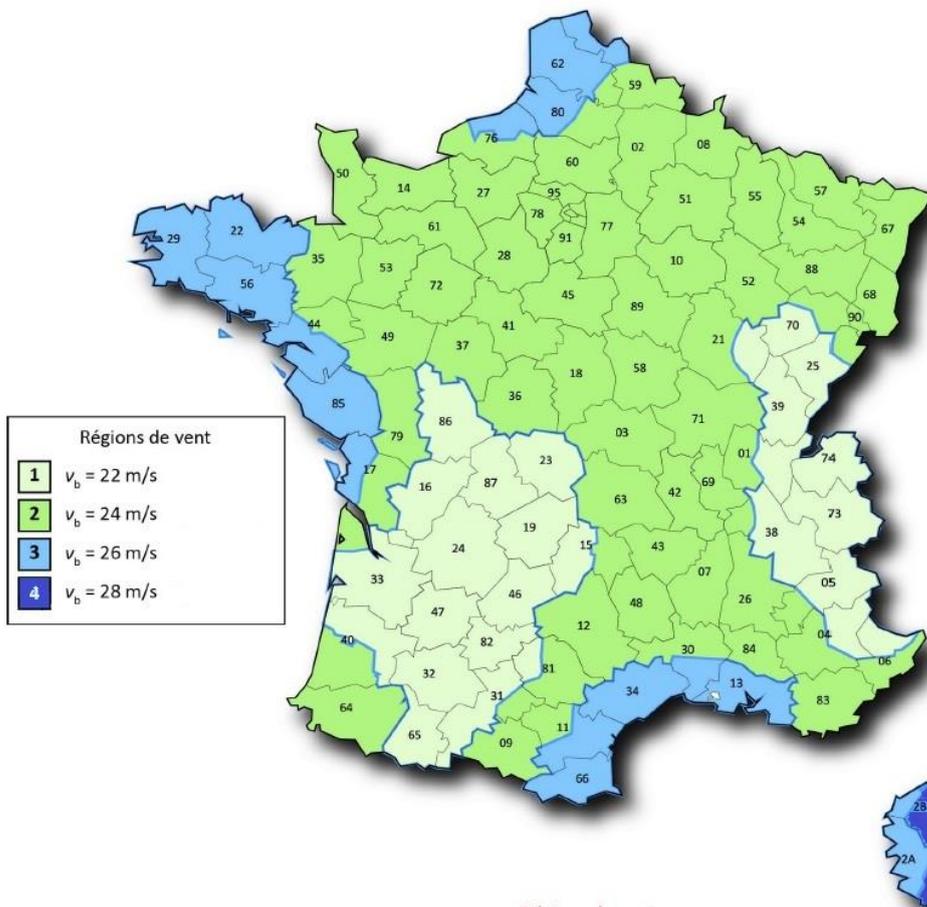
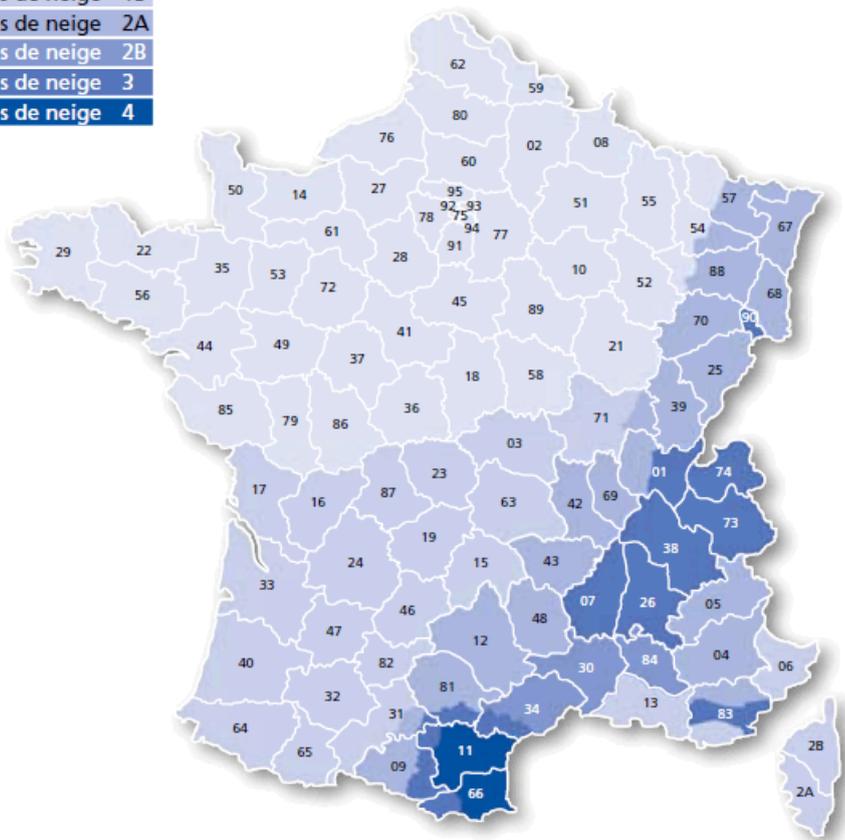


Monter d'abord les capots sur les côtés, ensuite celui à l'avant puis celui à l'arrière

1-6



- zones de neige 1A
- zones de neige 1B
- zones de neige 2A
- zones de neige 2B
- zones de neige 3
- zones de neige 4



Régions de vent	
1	$v_b = 22 \text{ m/s}$
2	$v_b = 24 \text{ m/s}$
3	$v_b = 26 \text{ m/s}$
4	$v_b = 28 \text{ m/s}$

Régions de vent
Annexe Nationale de l'EN 1991-1-4