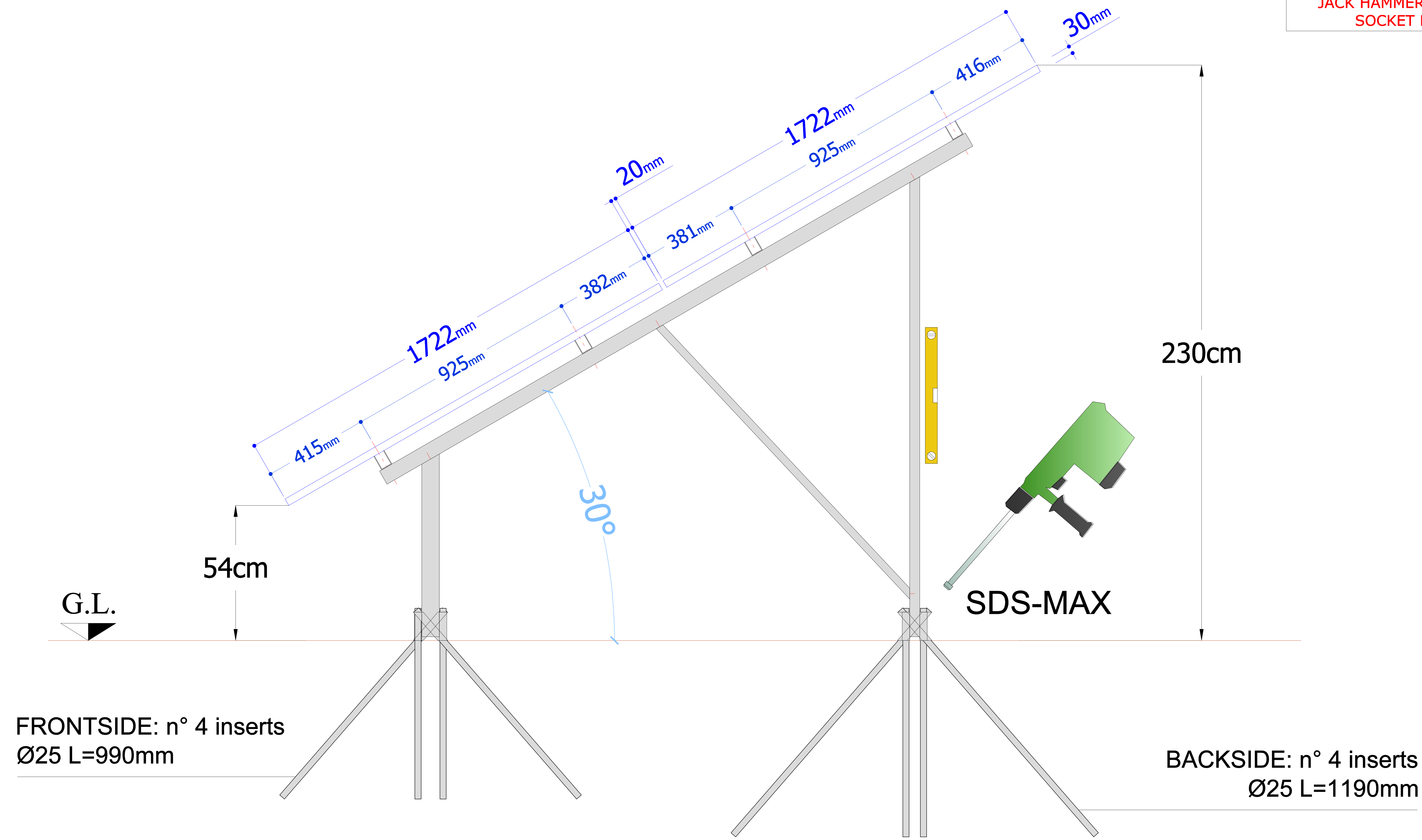
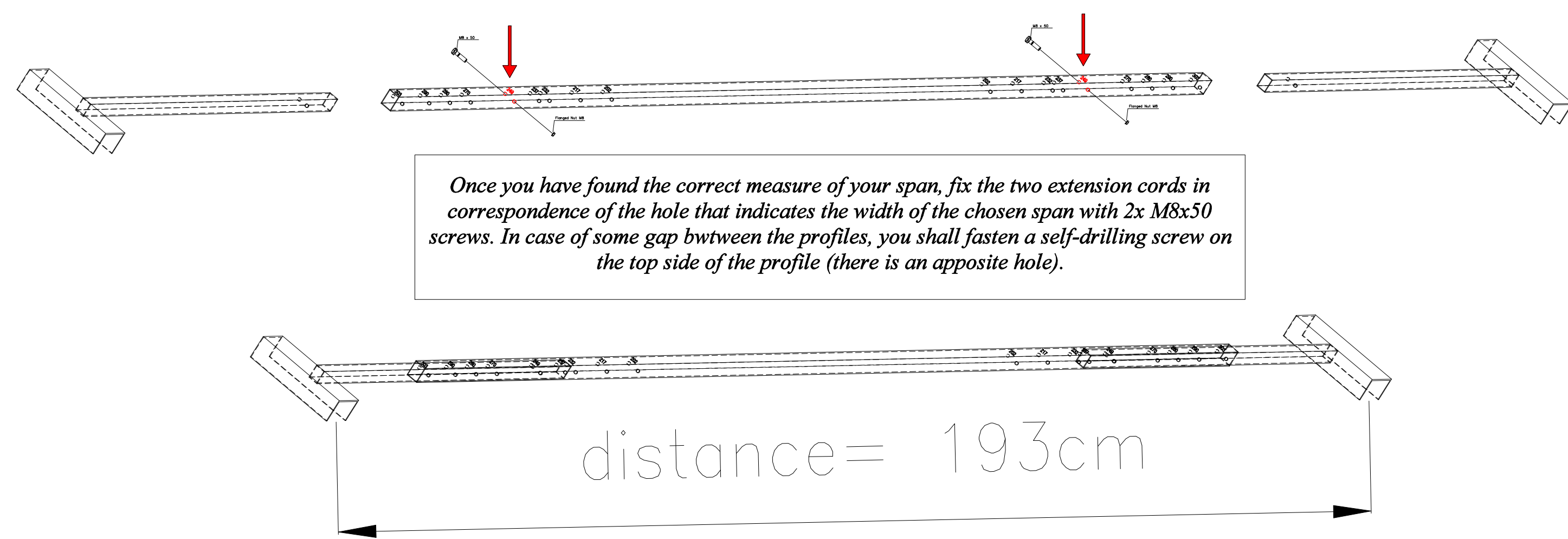


1320 PV modules 410Wp → 541.20kWp
Dimension: 1722 x 1134 x 30 mm

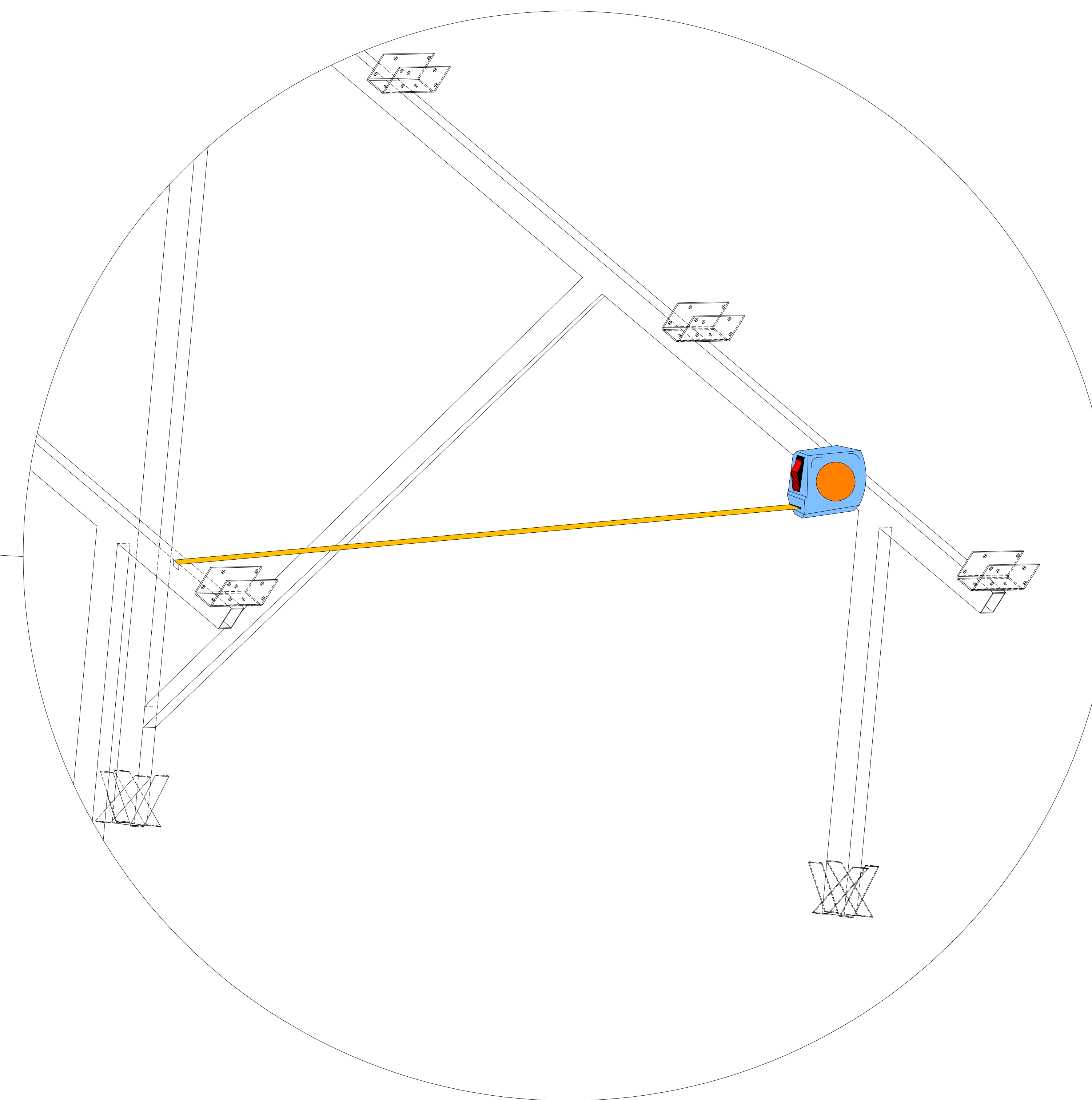
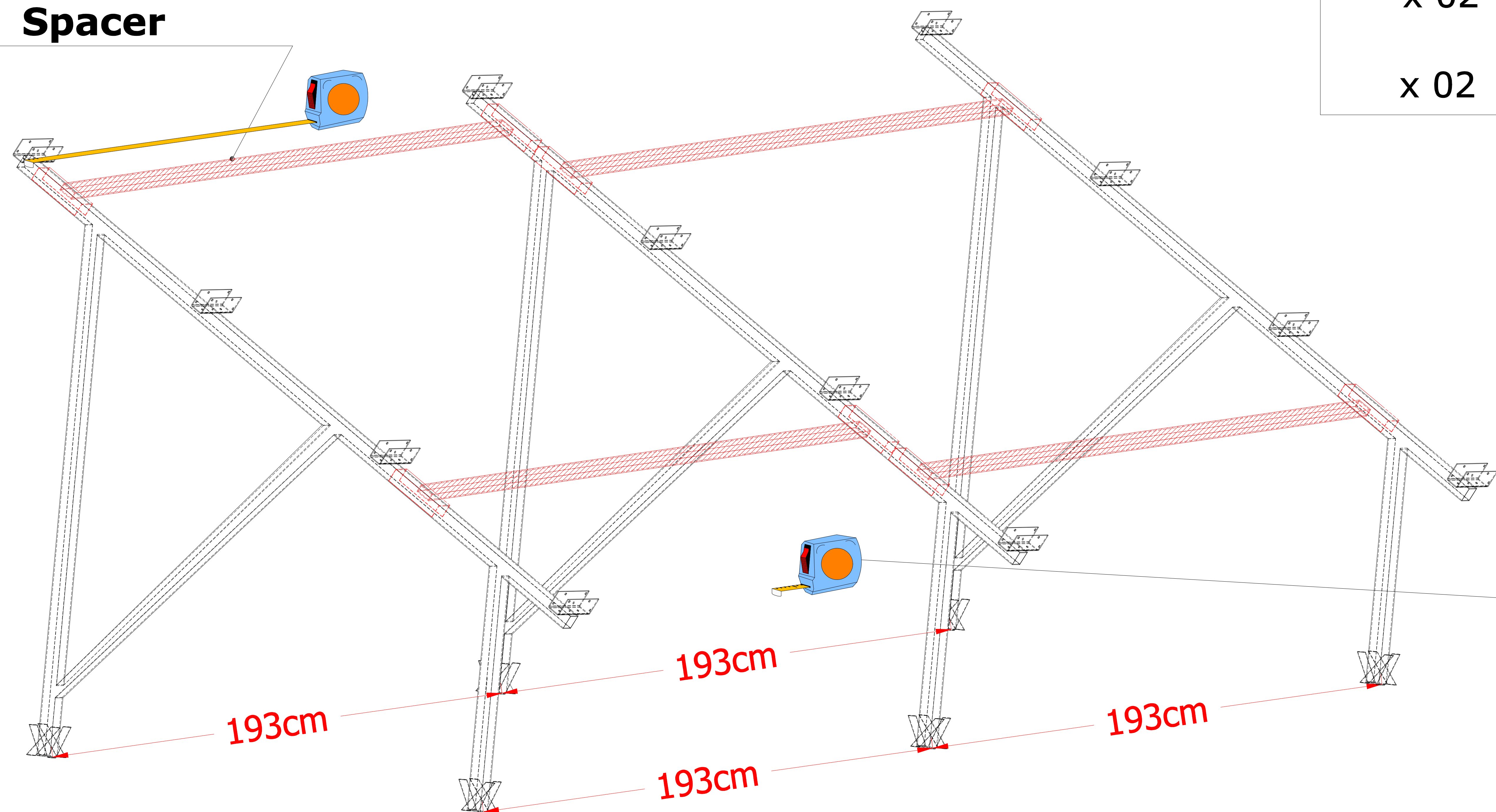


Driving-in the inserts to the ground through guides placed at the base of the frames, using a jack-hammer with SDS-MAX tool tip or a common hammer, only when all the structure is installed and it has checked that the spirit level giving the transverse orientation of the structure indicates the horizontal.

		NAME	DATE	Solartricity Stock_2024_01_541.20kW		
DRAWN		M.S.	10/06/2024			
CHECKED						
				TITLE "Tree System" Anchoring.		
 TreeSystem s.r.l. Via Moraro n°22, 35020, Pozzonovo (PD) Tel/fax +390429773082				SIZE	DWG N°: 1	REV
				SCALE:	WEIGHT:	SHEET



Spacer



MATERIAL NEEDED

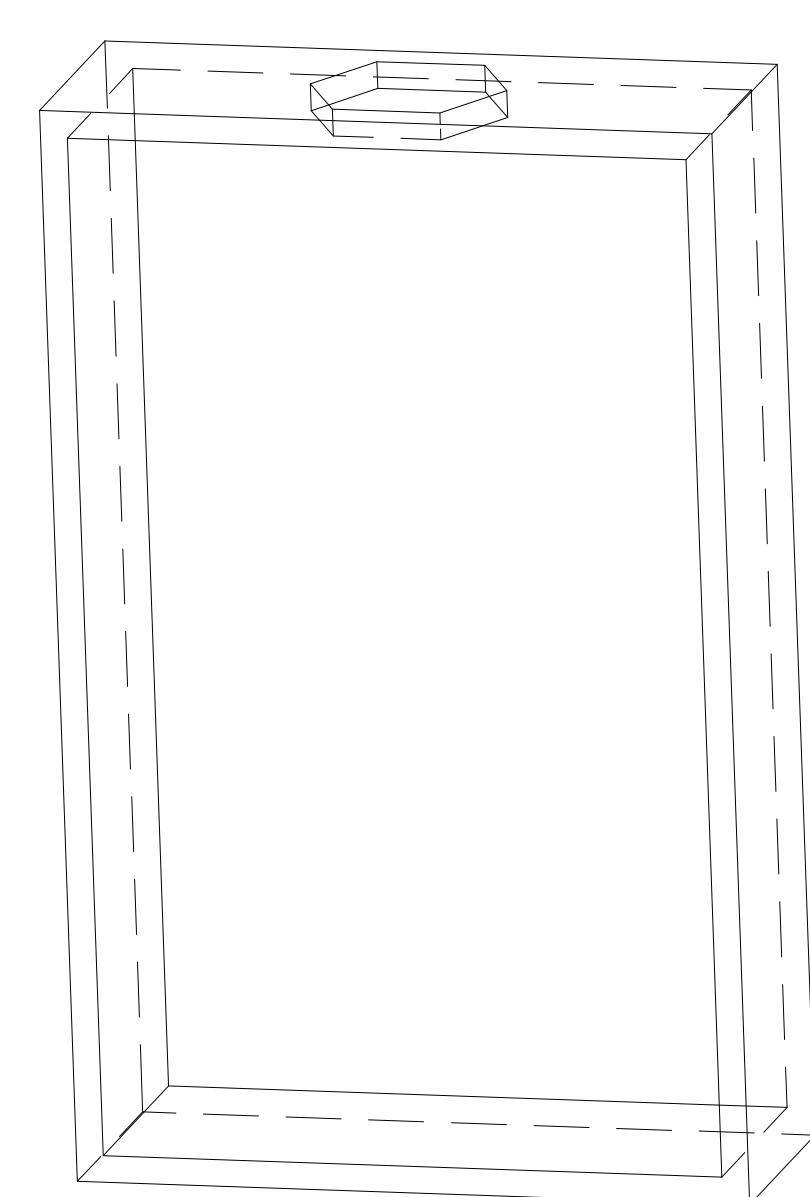
- x 02 FLANGED NUT FOR M8
- x 02 M8 x 50 SCREW
- x 02 SELF DRILLING SCREW



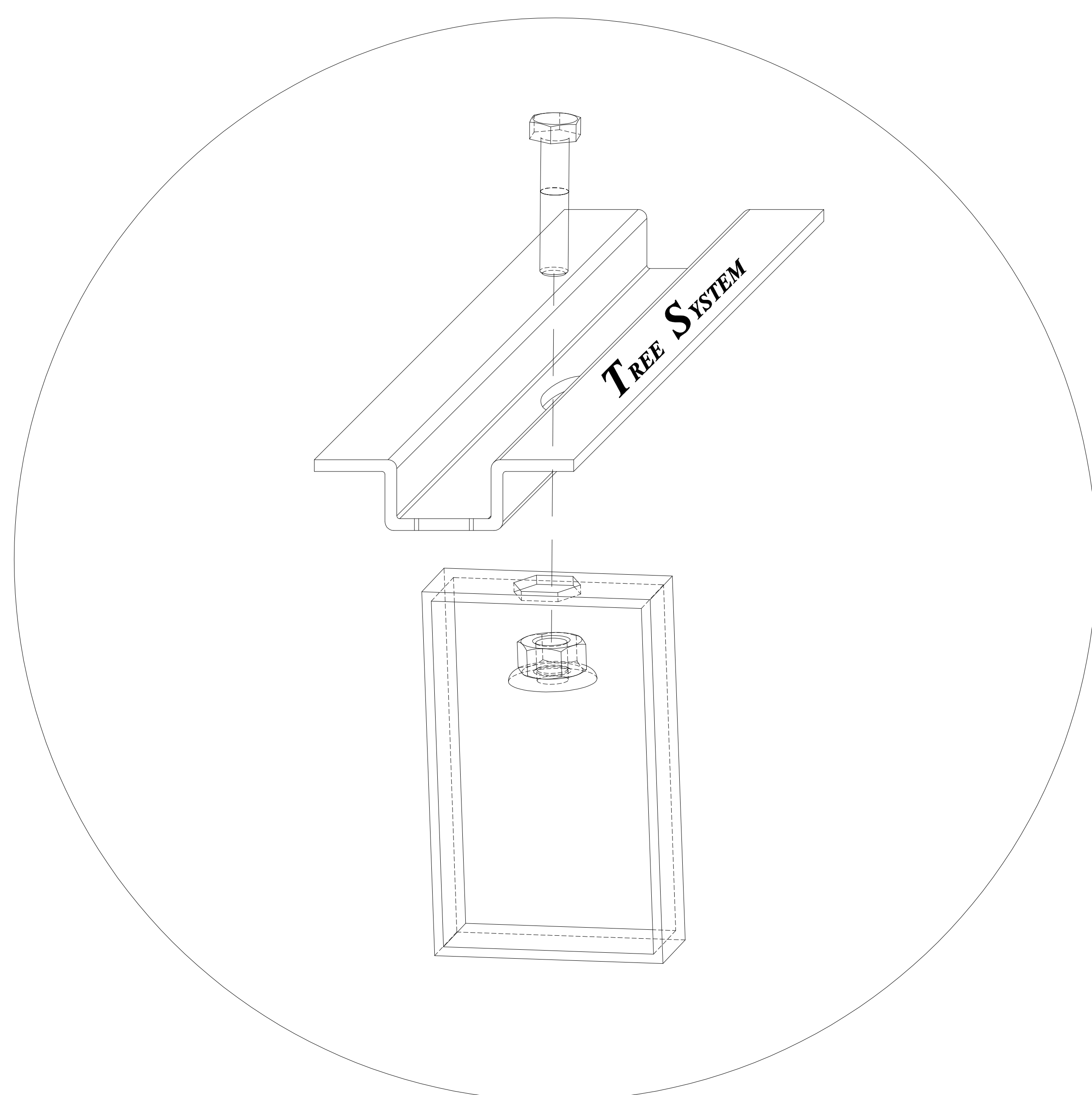
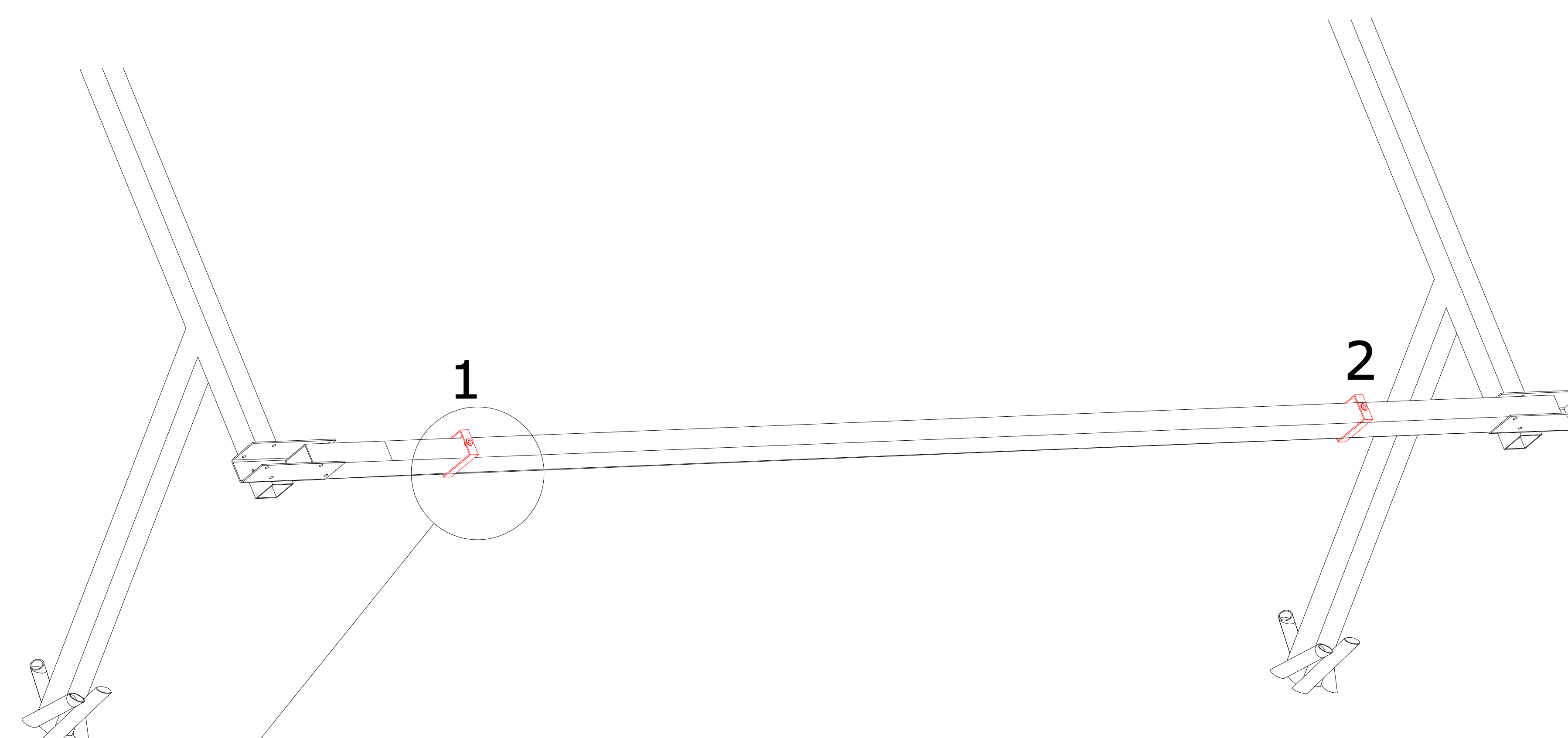
To find the exact spacing between the frames (**193cm or see next**) you can use the spacers placed one in the front side and one on the back side. For spacing different from those it's recommended to use two tape-measures placed one on the front side and one on the back.

To plot the alignment of each rack, just place a picket at the beginning and at the end of each one, positioned on the back side of the frame (at the bottom of the back pillar) and pull a builder line that will determine the correct alignment.

	NAME	DATE	Solartricity Stock_2024_01_541.20kW		
DRAWN	M.S.	10/06/2024			
CHECKED			TITLE Spacing between the frameworks.		
 TreeSystem s.r.l. Via Moraro n°22, 35020, Pozzonovo (PD) Tel/fax +390429773082			SIZE	DWG N°: 2	REV
			SCALE:	WEIGHT:	SHEET



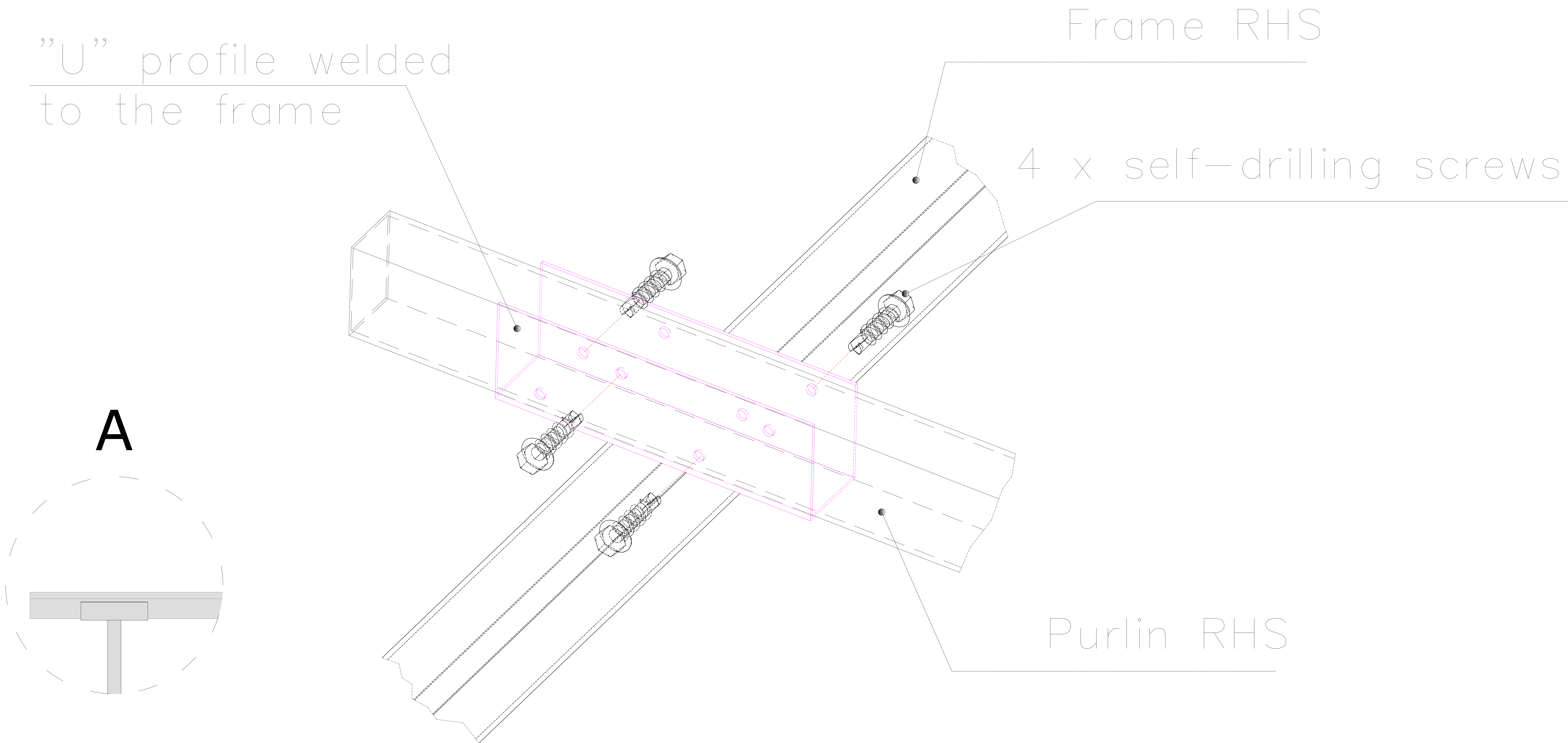
Collar



The "collars" to fix the modules must be inserted before fixing the horizontal beams to the frames: you have to insert **no. 1/2** collars for each span, while for the cantilevers it's sufficient **1** collar, as shown below.

	NAME	DATE	Solartricity Stock_2024_01_541.20kW		
DRAWN	M.S.	10/06/2024			
CHECKED					
			TITLE Insertion collars to fasten PV modules.		
 TreeSystem s.r.l. Via Moraro n°22, 35020, Pozzonovo (PD) Tel/fax +390429773082			SIZE	DWG N°: 3	REV
			SCALE:	WEIGHT:	SHEET

DETAIL "A": INITIAL POSITIONS



PERMITTED TIGHTENING
TORQUE OF MAX 7-8 Nm.



	NAME	DATE	Solartricity Stock_2024_01_541.20kW		
DRAWN	M.S.	10/06/2024			
CHECKED			TITLE Fastening horizontal profiles to the frames.		
 TreeSystem s.r.l. Via Moraro n°22, 35020, Pozzonovo (PD) Tel/fax +390429773082			SIZE	DWG N°: 4	REV
			SCALE:	WEIGHT:	SHEET

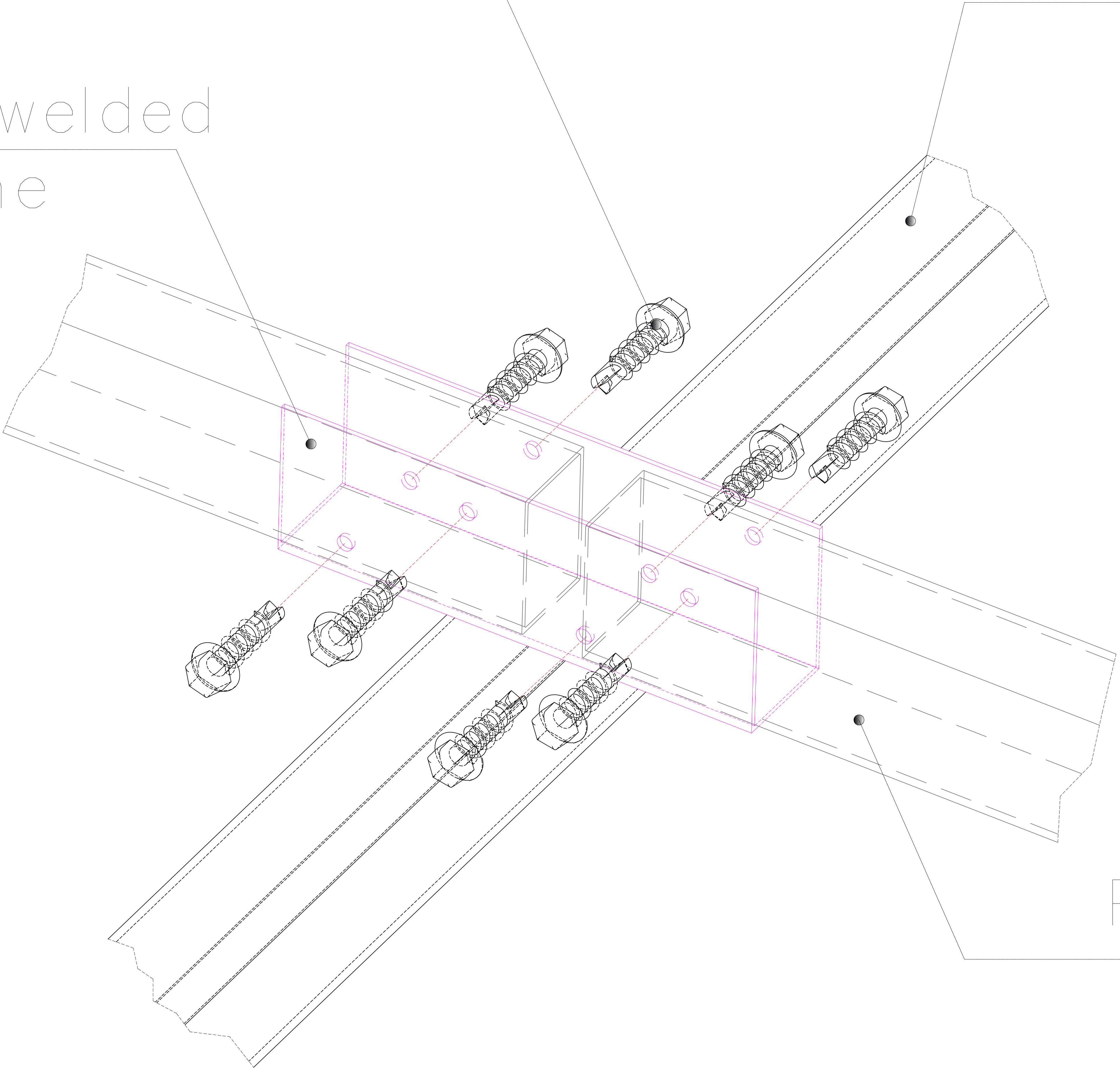
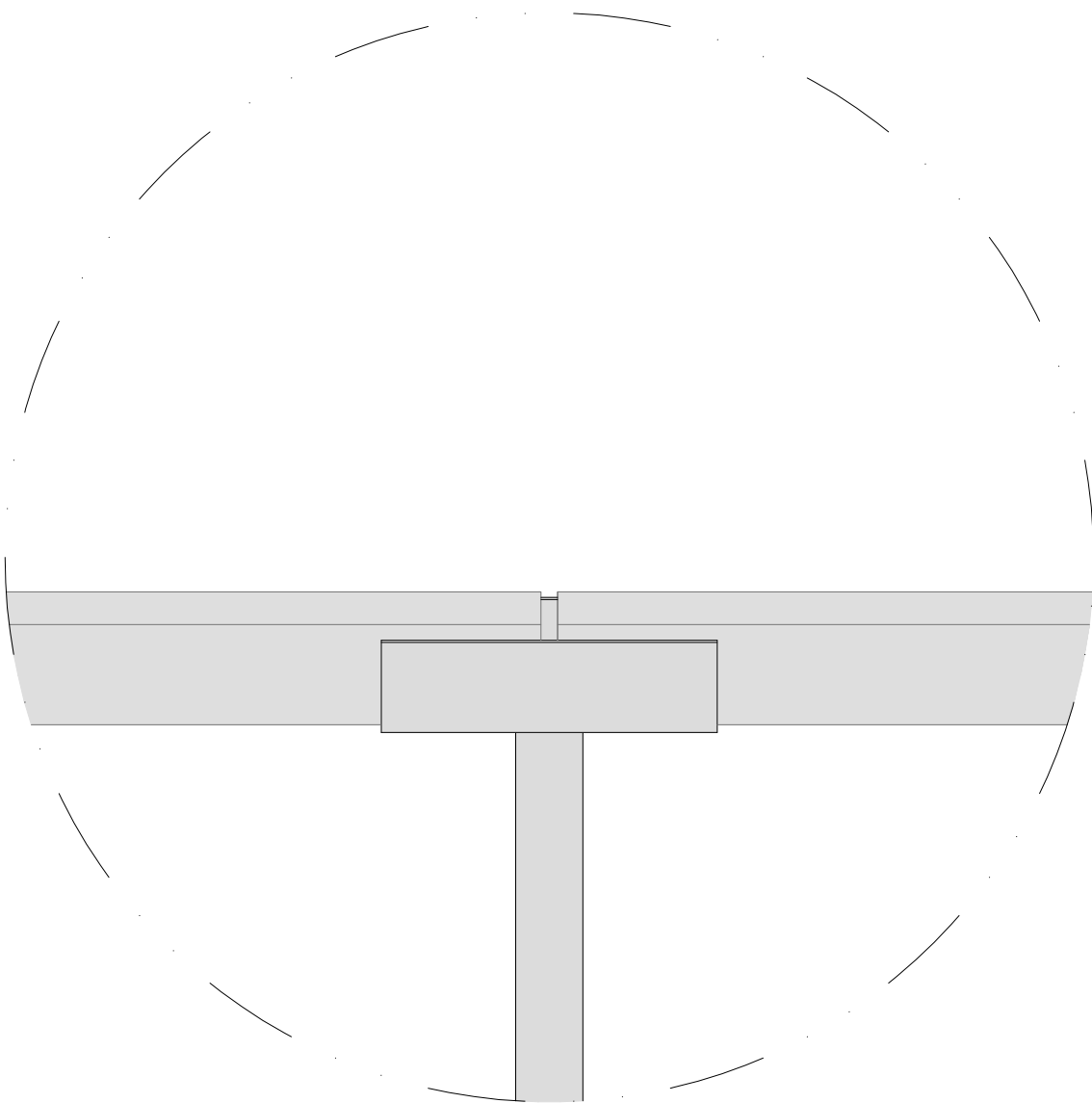
DETAIL "B": Tête-à-Tête Positions

8 x self-drilling screws

Frame RHS

“U” profile welded to the frame

B



Purlin RHS

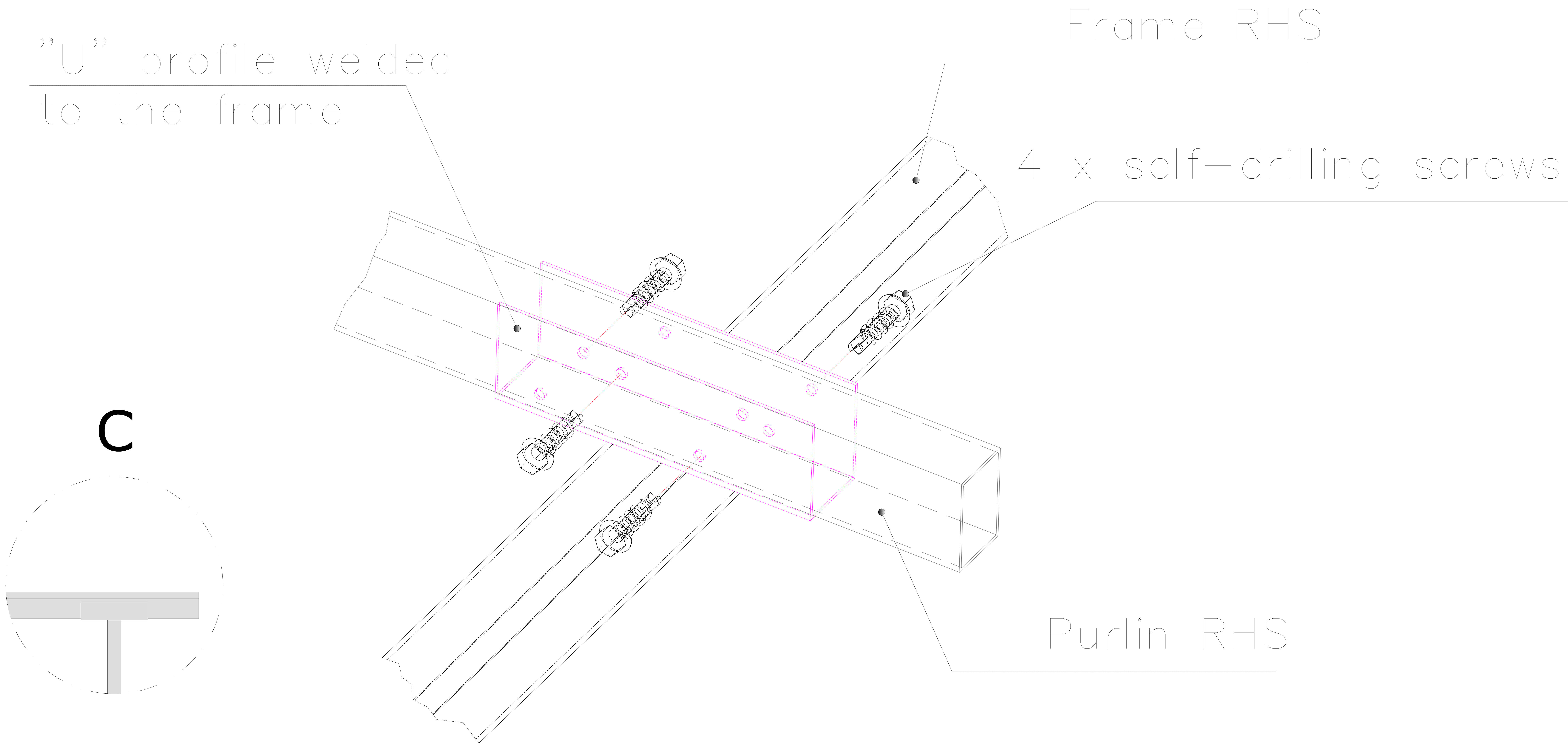
PERMITTED TIGHTENING
TORQUE OF MAX 7-8 Nm.



SCREW GUN DRILL with DRIVE
SHALLOW SOCKET size 10mm
REQUIRED

	NAME	DATE	Solartricity Stock_2024_01_541.20kW		
DRAWN	M.S.	10/06/2024			
CHECKED			TITLE Fastening horizontal profiles to the frames.		
 TreeSystem s.r.l. Via Moraro n°22, 35020, Pozzonovo (PD) Tel/fax +390429773082			SIZE	DWG N°: 5	REV
			SCALE:	WEIGHT:	SHEET

DETAIL "C": FINAL POSITIONS

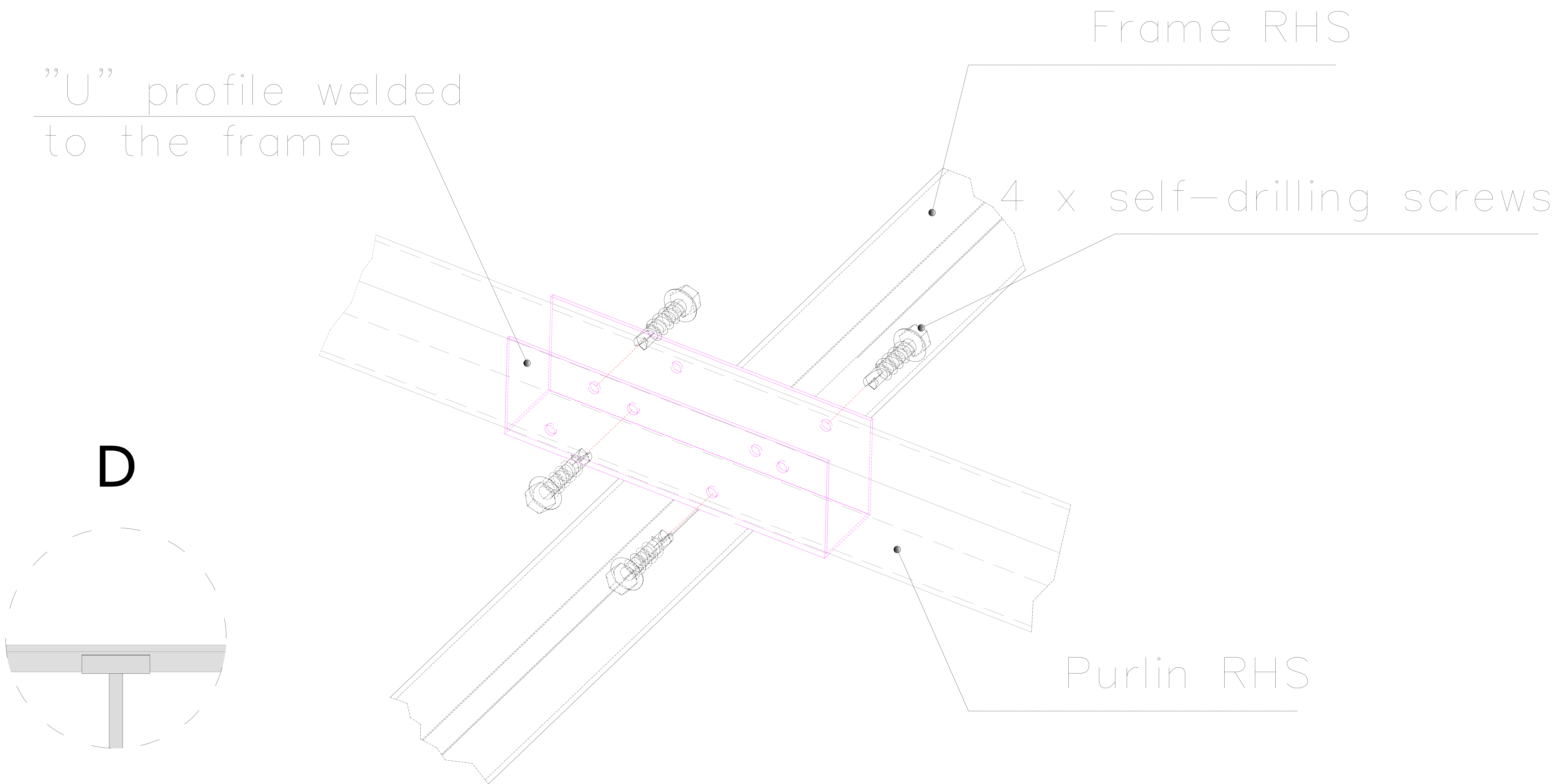


PERMITTED TIGHTENING
TORQUE OF MAX 7-8 Nm.



	NAME	DATE	Solartricity Stock_2024_01_541.20kW		
DRAWN	M.S.	10/06/2024			
CHECKED			TITLE Fastening horizontal profiles to the frames.		
 TreeSystem s.r.l. Via Moraro n°22, 35020, Pozzonovo (PD) Tel/fax +390429773082			SIZE	DWG N°: 6	REV
			SCALE:	WEIGHT:	SHEET

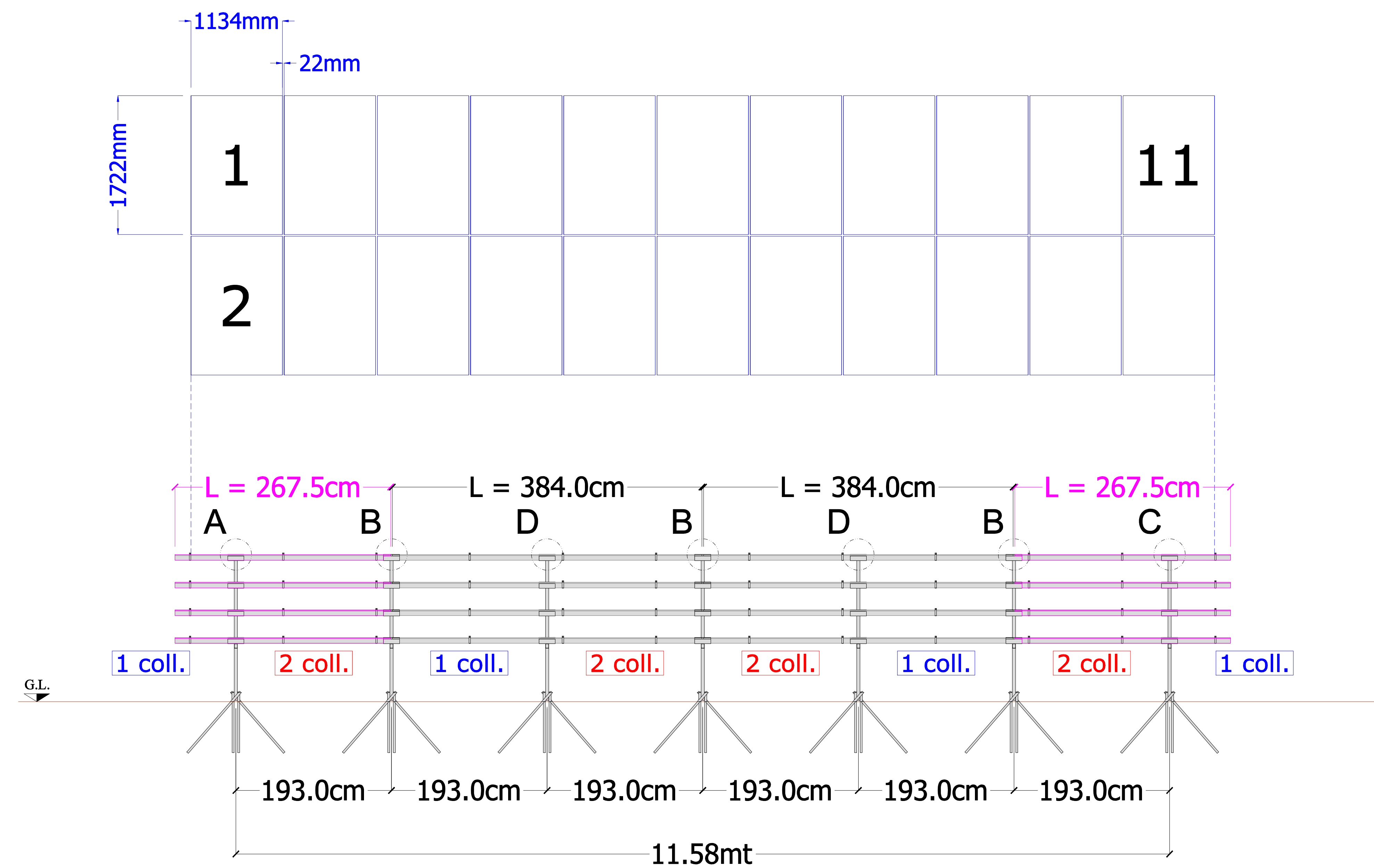
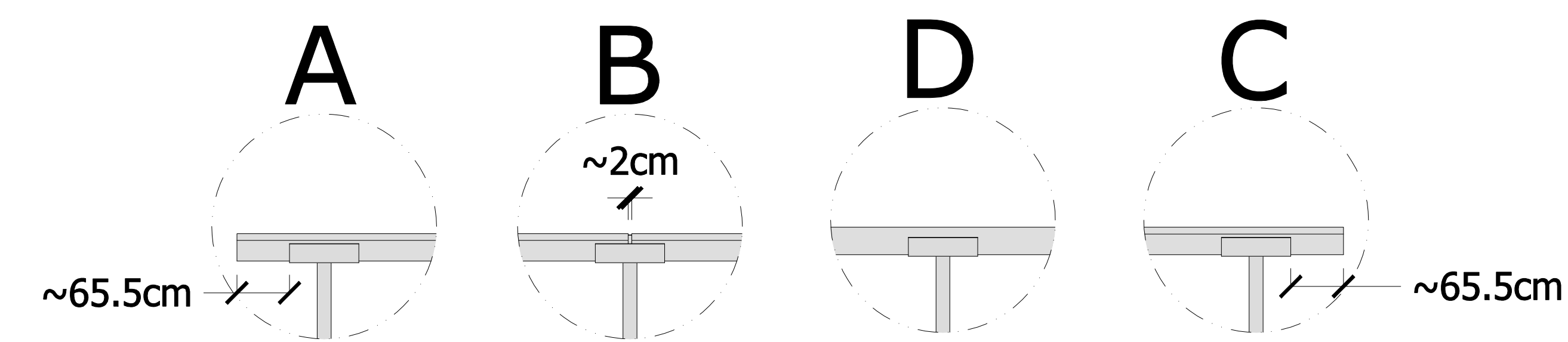
DETAIL "D": PASSING THROUGH



**PERMITTED TIGHTENING
TORQUE OF MAX 7-8 Nm.**



	NAME	DATE	Solartricity Stock_2024_01_541.20kW		
DRAWN	M.S.	10/06/2024			
CHECKED			TITLE Fastening horizontal profiles to the frames.		
 TreeSystem s.r.l. Via Moraro n°22, 35020, Pozzonovo (PD) Tel/fax +390429773082			SIZE	DWG N°:	REV
				7	
SCALE:		WEIGHT:	SHEET		



Tipology of rack: **11+11** Number of racks: **60**

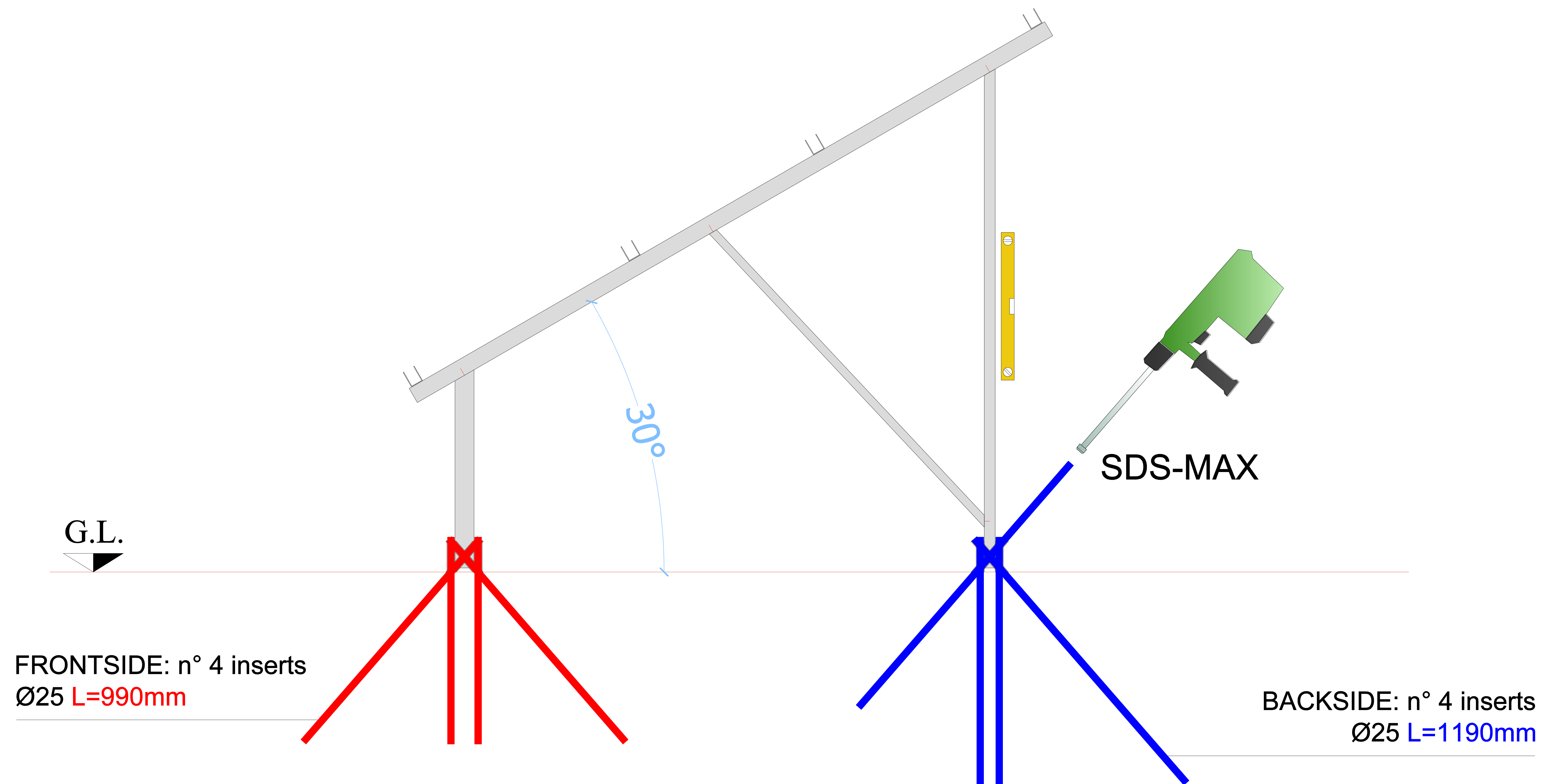
For each rack, it is required:

- 7 FRAMEWORKS 30°;
- 8 PURLINS L=384cm;
- 8 PURLINS L=267.5cm;
- 48 COLLARS.

**DO NOT CUT THE
HORIZONTAL PROFILES
FOR ANY REASONS,
SINCE THEY ARE
ALREADY CUT ON SIZE.**

	NAME	DATE	Solartricity Stock_2024_01_541.20kW		
DRAWN	M.S.	10/06/2024			
CHECKED			TITLE Layout Racks.		
 TreeSystem s.r.l. Via Moraro n°22, 35020, Pozzonovo (PD) Tel/fax +390429773082			SIZE	DWG N°:	REV
				8	
			SCALE:	WEIGHT:	SHEET

PAY ATTENTION TO THE
DIFFERENT **LENGTH** OF THE
INSERTS.

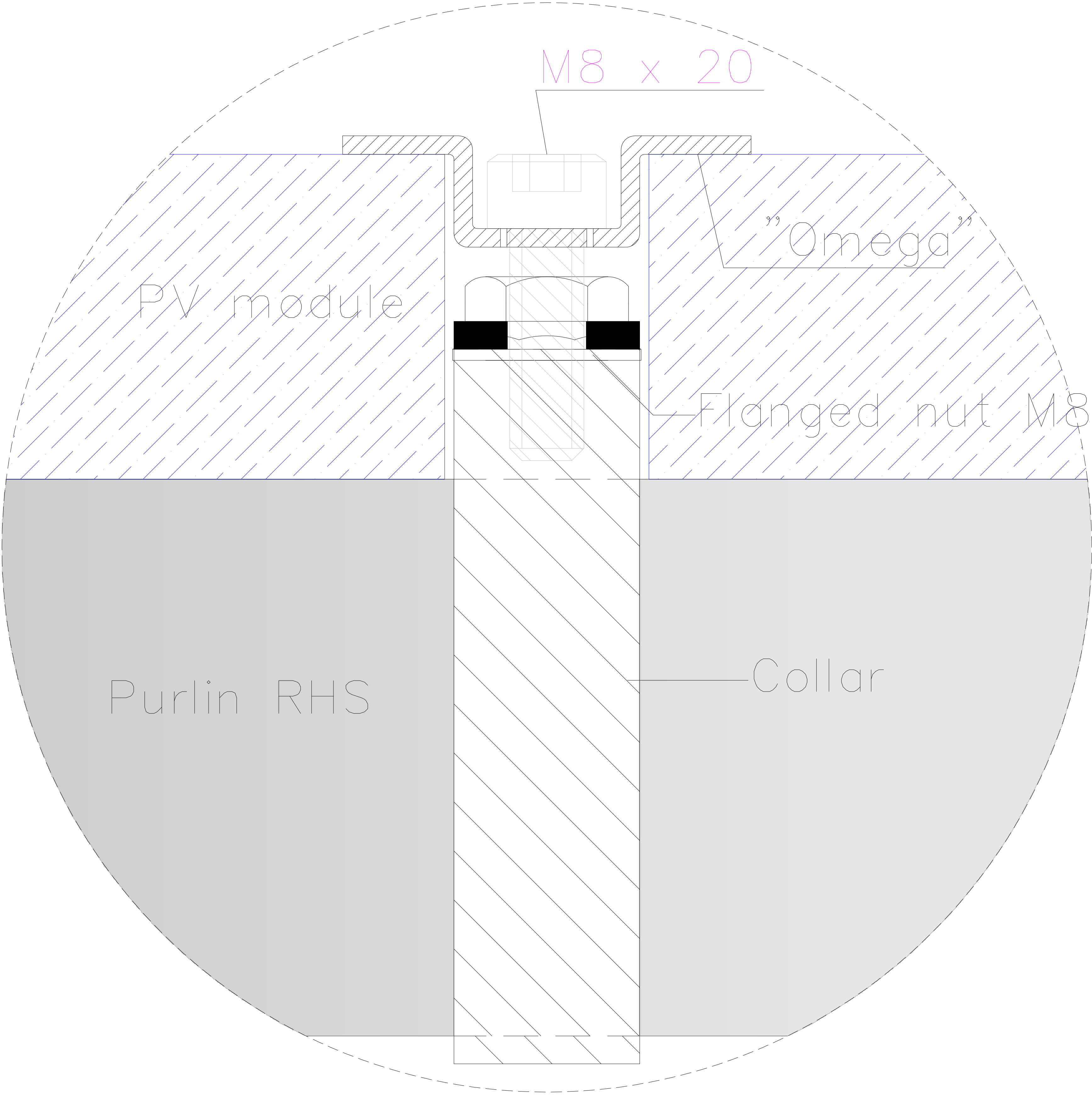
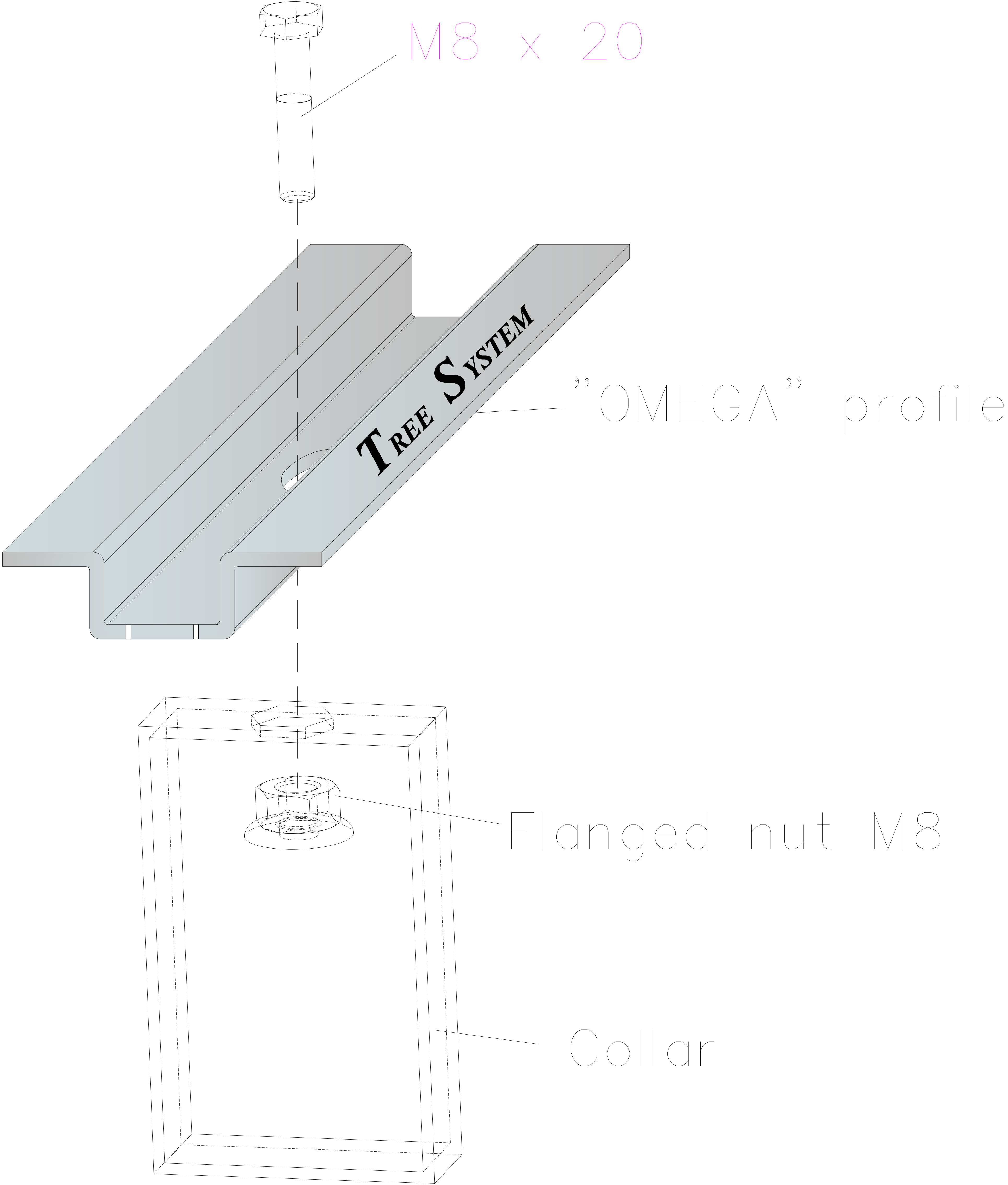


Driving-in the inserts to the ground through guides placed at the base of the frames, using a jack-hammer with SDS-MAX attack for tool, only when all the structure is installed and it has checked that the spirit level giving the transverse orientation of the structure indicates the horizontal.

IN CASE OF DAMAGING OF THE COATING DURING THE INSTALLATION, BE CAREFUL TO REPAIR IT PROMPTLY.

	NAME	DATE	Solartricity Stock_2024_01_541.20kW		
DRAWN	M.S.	10/06/2024			
CHECKED			TITLE Anchoring the structure to the ground.		
 TreeSystem s.r.l. Via Moraro n°22, 35020, Pozzonovo (PD) Tel/fax +390429773082			SIZE	DWG N°:	REV
				9	
SCALE:		WEIGHT:	SHEET		

DETAIL "D"



**PERMITTED TIGHTENING
TORQUE OF MAX 10 Nm (to be
verified with the prescriptions of
the module manufacturer).**



		NAME	DATE	Solartricity Stock_2024_01_541.20kW	
DRAWN		M.S.	10/06/2024		
CHECKED				TITLE Fastening for photovoltaic modules.	
 TreeSystem s.r.l. Via Moraro n°22, 35020, Pozzonovo (PD) Tel/fax +390429773082		SIZE DWG N°:		10	REV
		SCALE:	WEIGHT:	SHEET	

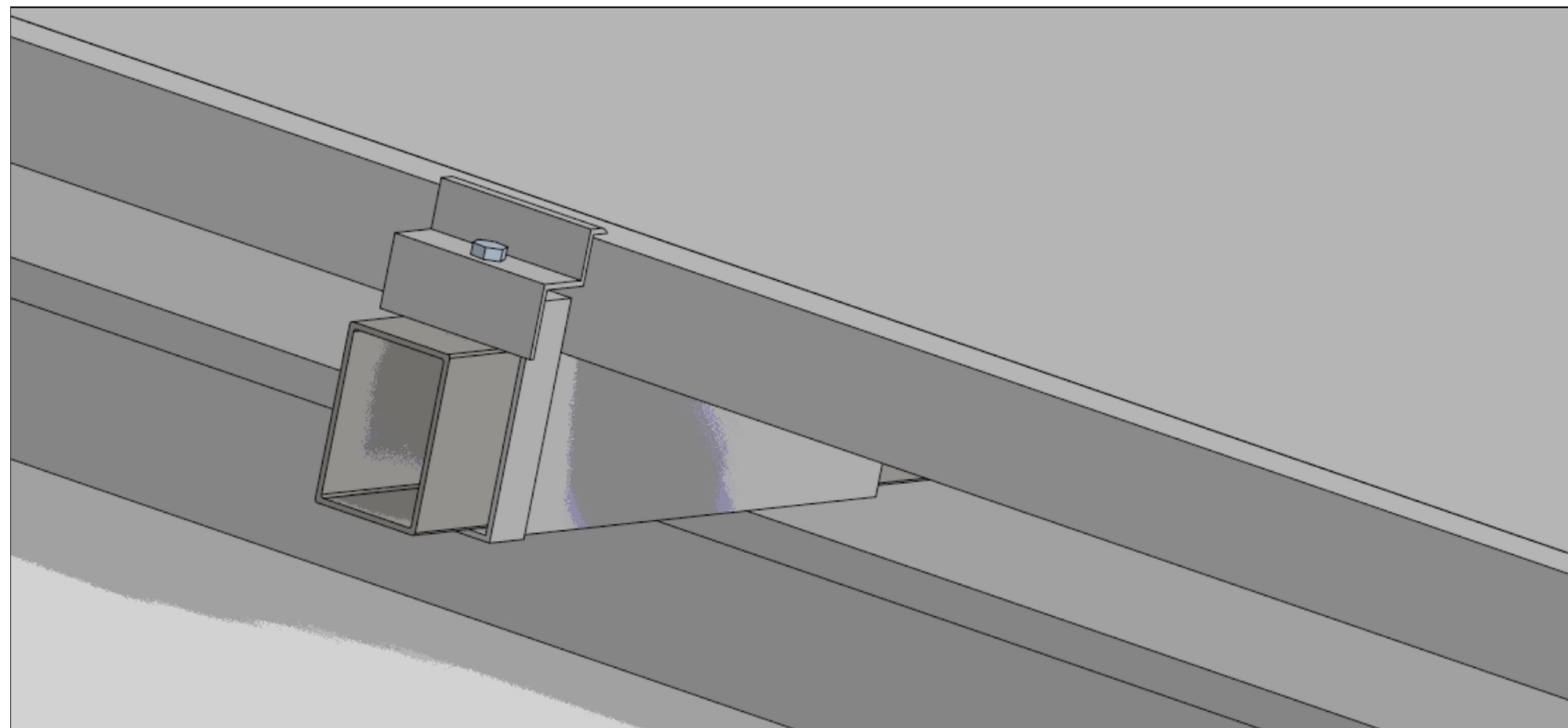
Abutment of
the module

M8 x 20

"Zed" profile

Purlin RHS

Collar

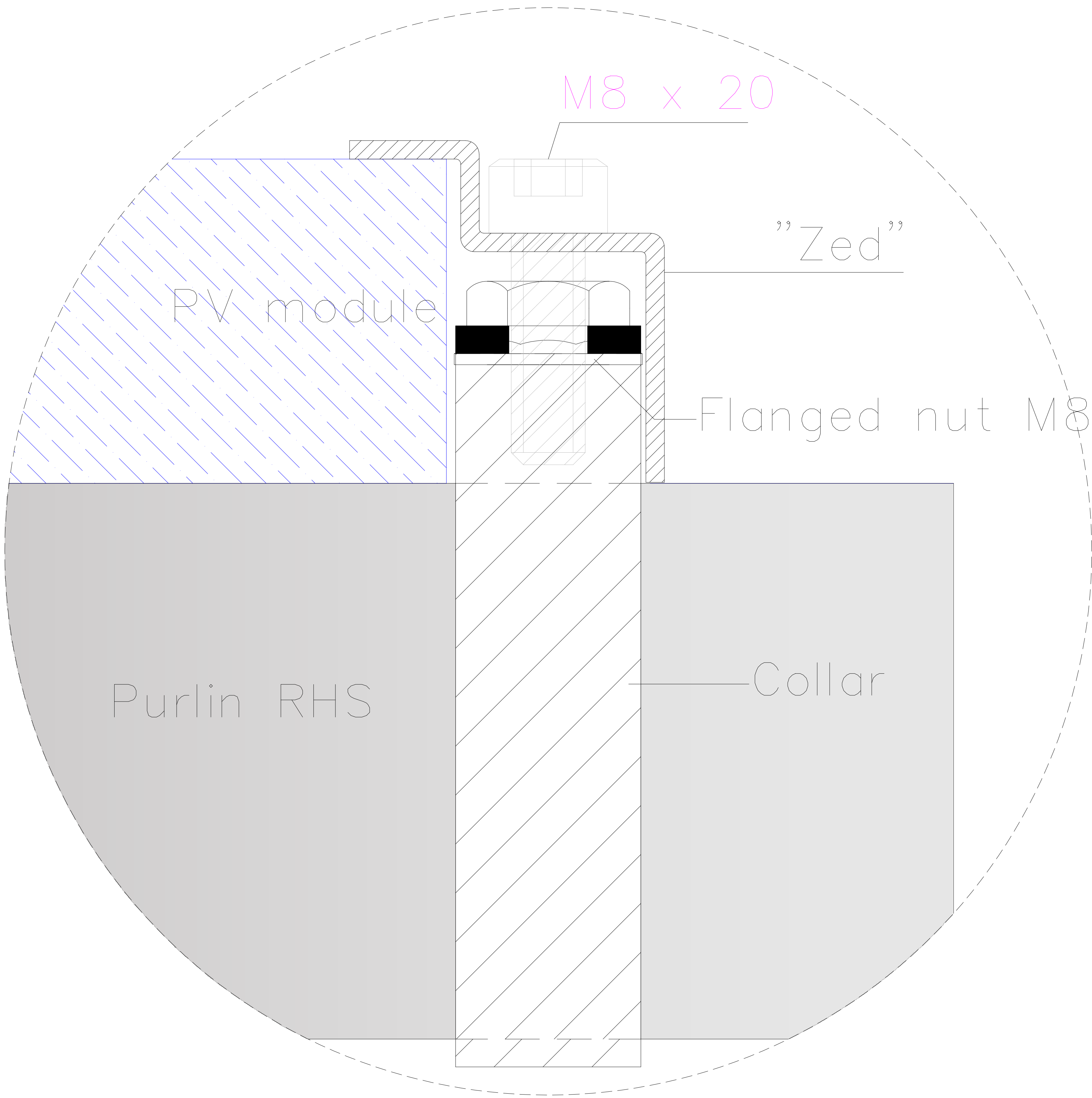


**PERMITTED TIGHTENING
TORQUE OF MAX 10 Nm (to be
verified with the prescriptions of
the module manufacturer).**

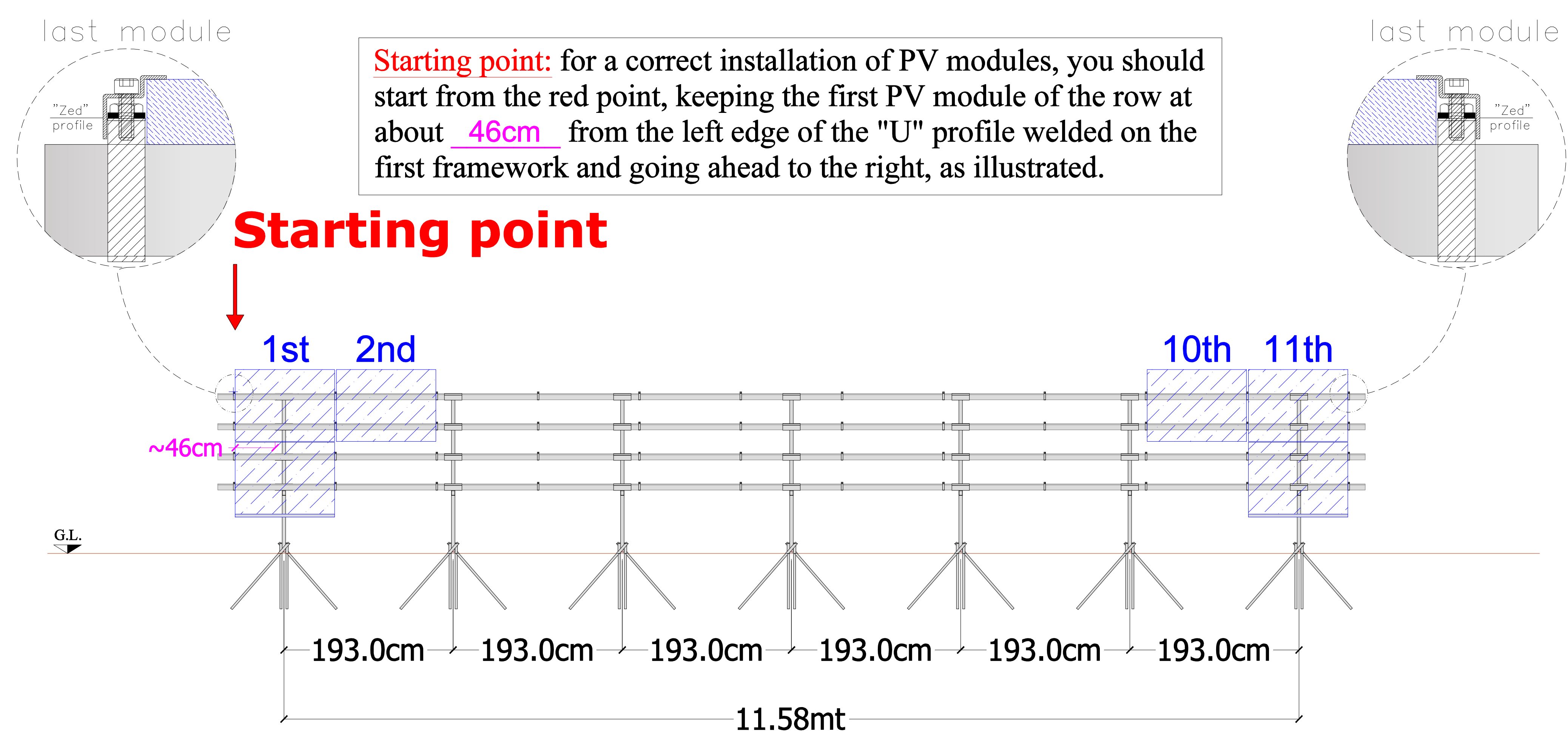


ALLEN KEY SIZE REQUIRED
size 6mm

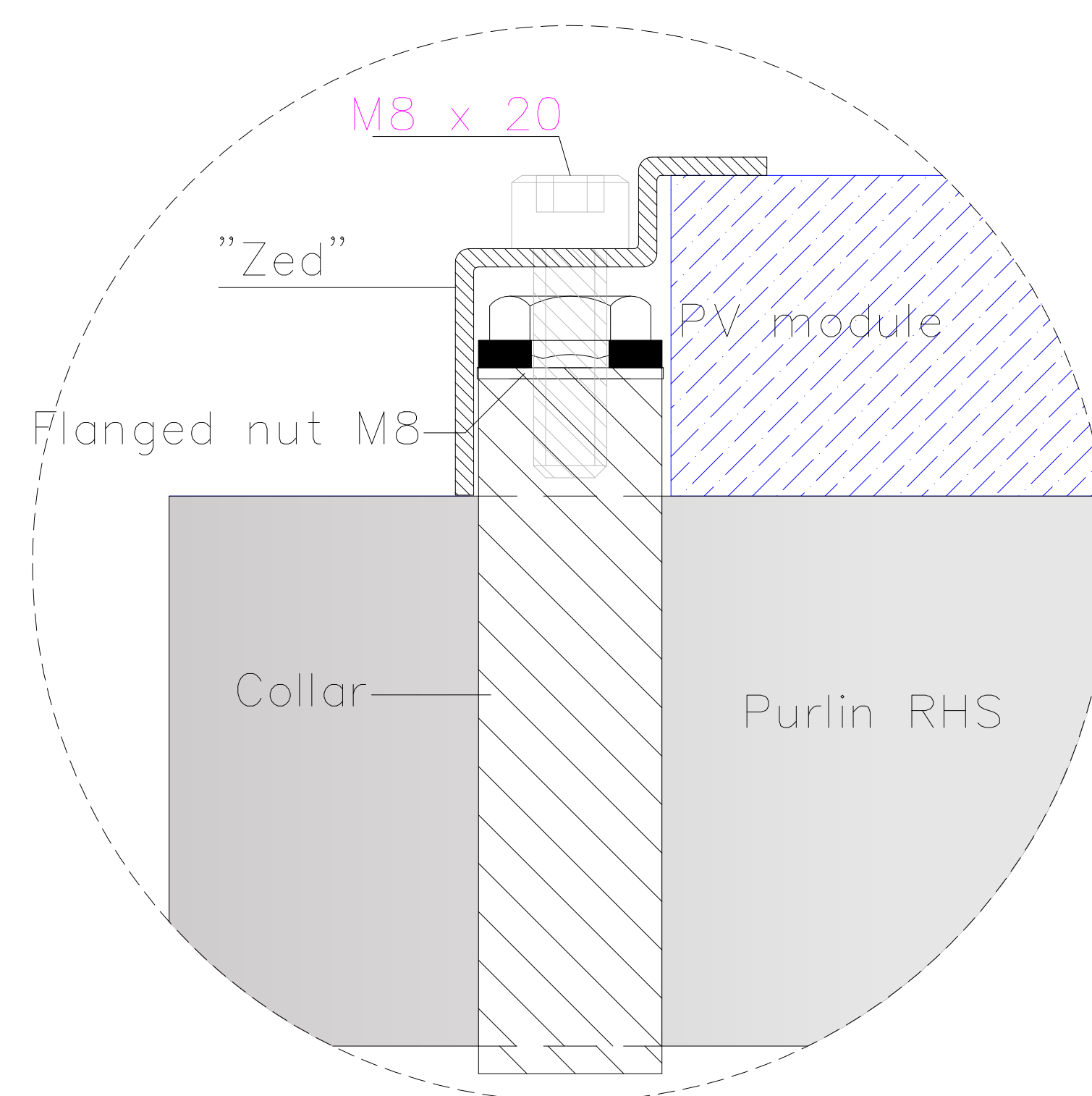
DETAIL "E"



	NAME	DATE	Solartricity Stock_2024_01_541.20kW		
DRAWN	M.S.	10/06/2024			
CHECKED			TITLE Fastening for photovoltaic modules.		
 TreeSystem s.r.l. Via Moraro n°22, 35020, Pozzonovo (PD) Tel/fax +390429773082			SIZE	DWG N°: 11	REV
			SCALE:	WEIGHT:	SHEET



DETAIL "E"

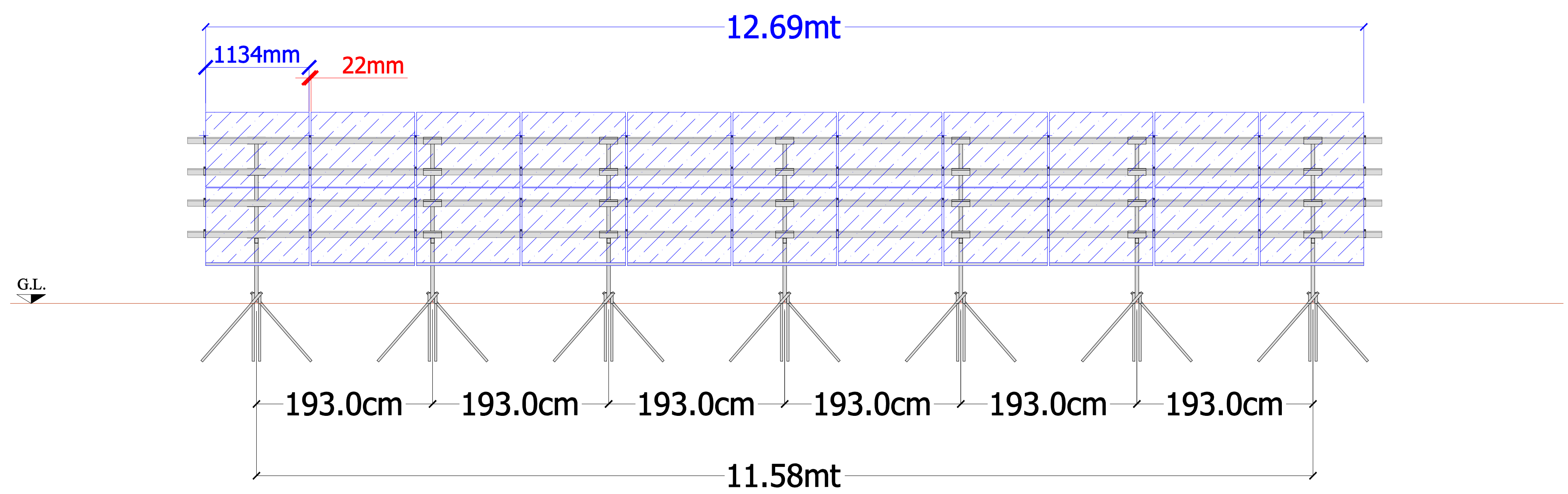


PERMITTED TIGHTENING TORQUE OF MAX 10 Nm (to be verified with the prescriptions of the module manufacturer).

Tipology of rack: **11+11** Number of racks: **60**

	NAME	DATE	Solartricity Stock_2024_01_541.20kW		
DRAWN	M.S.	10/06/2024			
CHECKED			TITLE Fastening for photovoltaic modules.		
 TreeSystem s.r.l. Via Moraro n°22, 35020, Pozzonovo (PD) Tel/fax +390429773082			SIZE	DWG N°:	REV
				12	
			SCALE:	WEIGHT:	SHEET

1320 PV modules 410Wp → 541.20kWp
Dimension: 1722 x 1134 x 30 mm



Tipology of rack: **11+11** Number of racks: **60**

	NAME	DATE	Solartricity Stock_2024_01_541.20kW		
DRAWN	M.S.	10/06/2024			
CHECKED					
			TITLE		
TreeSystem[®] GROUND MOUNTINGS TreeSystem s.r.l. Via Moraro n°22, 35020, Pozzonovo (PD) Tel/fax +390429773082			Final result.		
			SIZE	DWG N°:	REV
			SCALE:	WEIGHT:	SHEET