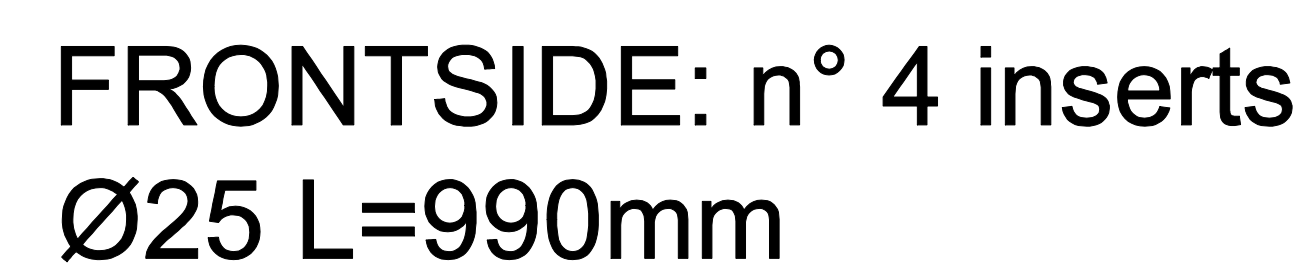
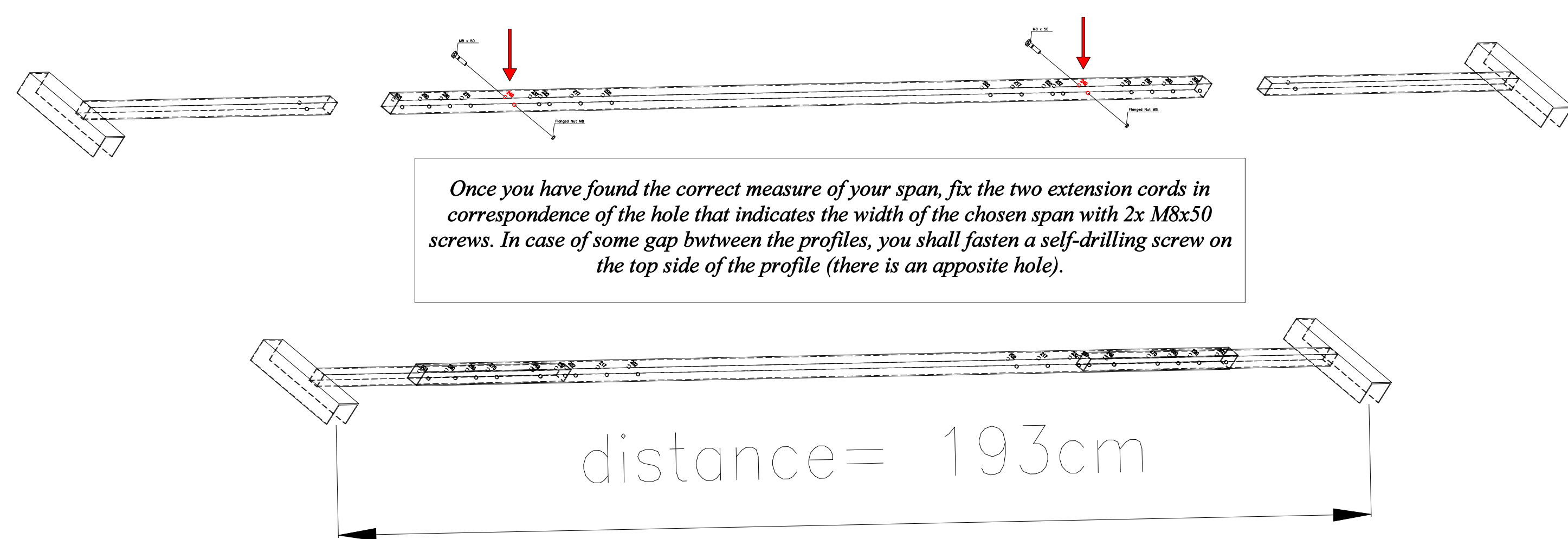


Dimension: 1722 x 1134 x 30 mm

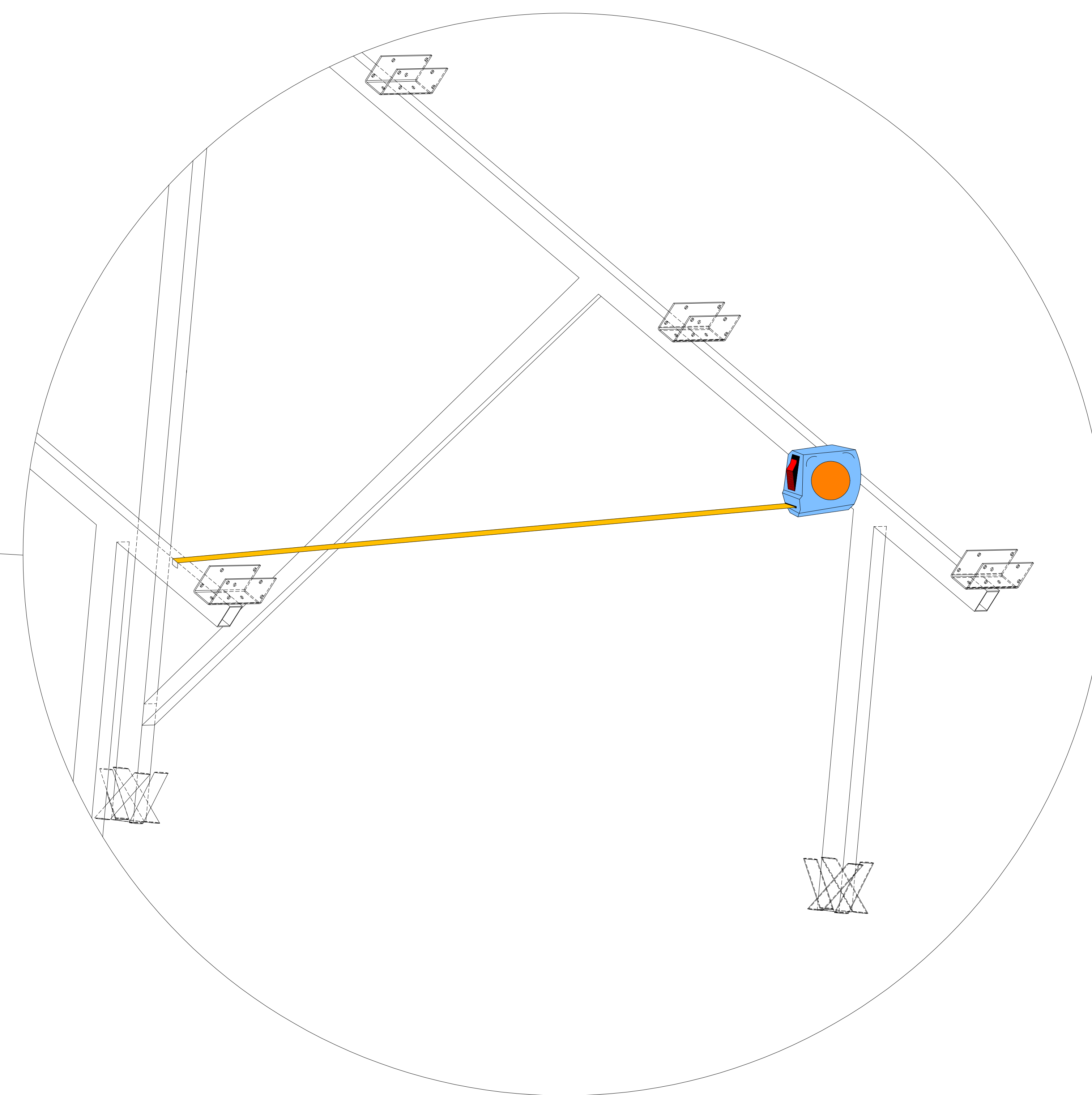
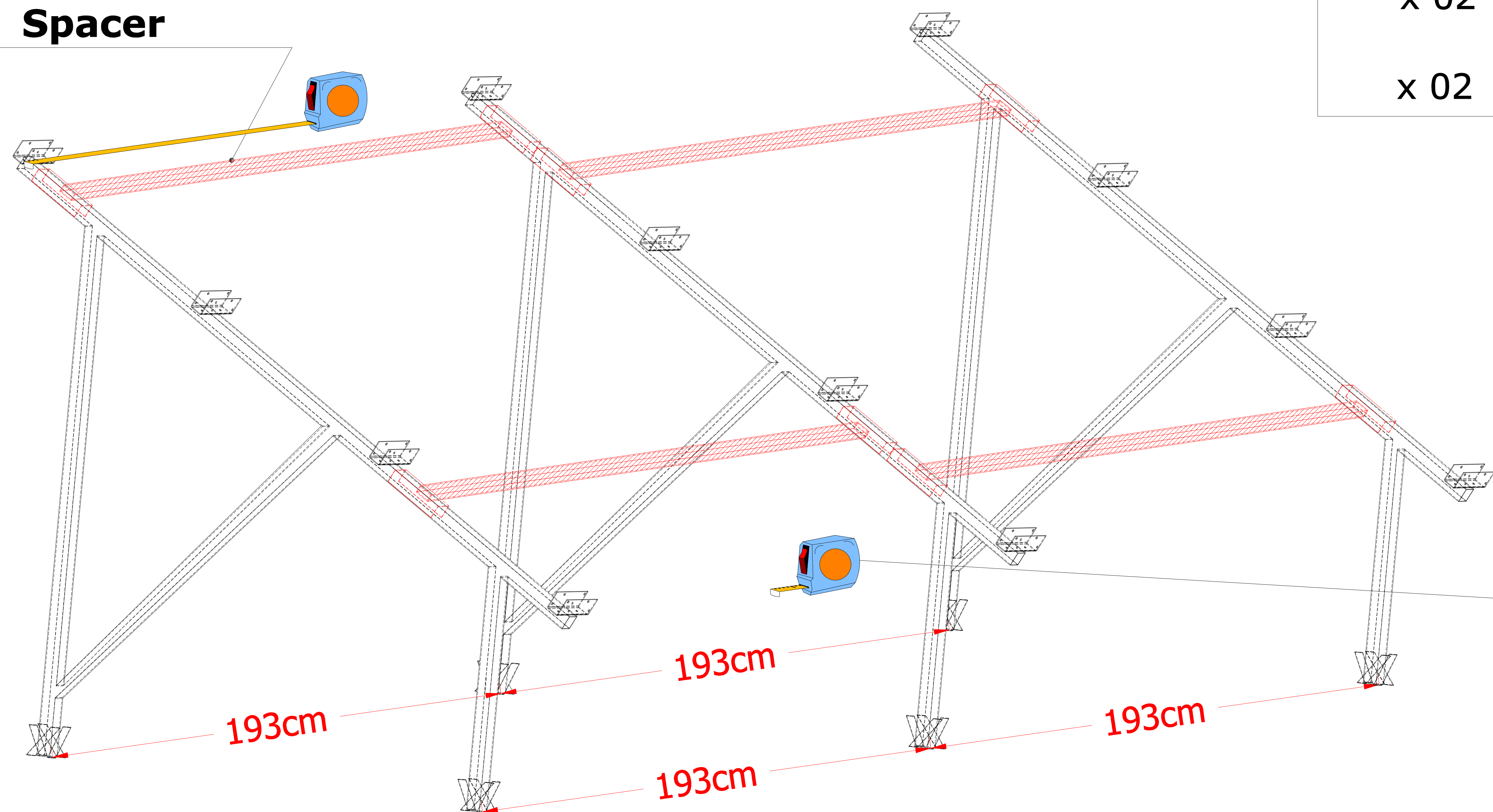


BACKSIDE: n° 4 inserts  
Ø25 L=1190mm

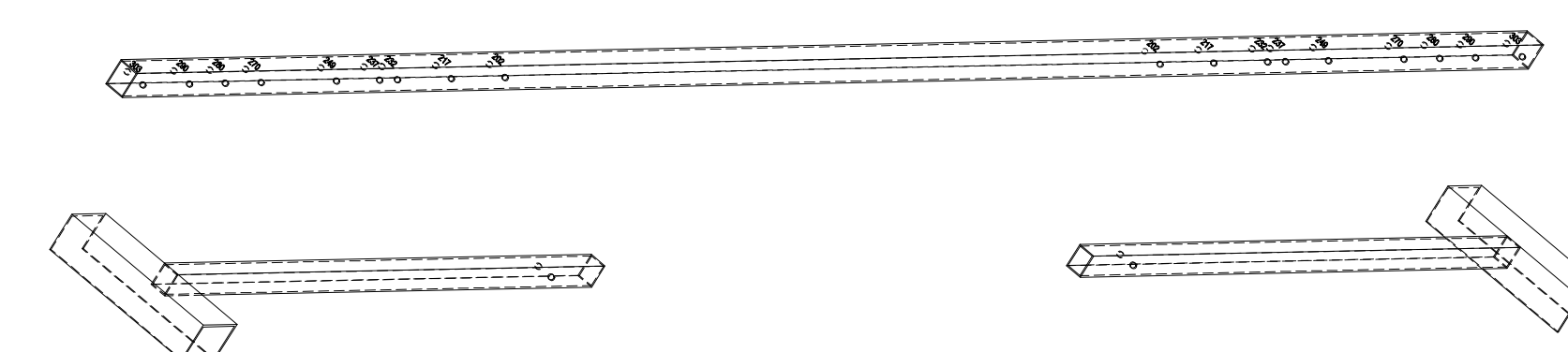
|                                                                                                                                                                                      |      |            |                                        |                  |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|----------------------------------------|------------------|---------|
|                                                                                                                                                                                      | NAME | DATE       | Solartricity<br>Stock_2024_01_164.00kW |                  |         |
| DRAWN                                                                                                                                                                                | M.S. | 10/06/2024 |                                        |                  |         |
| CHECKED                                                                                                                                                                              |      |            |                                        |                  |         |
|                                                                                                                                                                                      |      |            |                                        |                  |         |
|                                                                                                                                                                                      |      |            | TITLE<br>"Tree System" Anchoring.      |                  |         |
| <br><b>TreeSystem s.r.l.</b><br>Via Moraro n°22, 35020, Pozzonovo (PD)<br>Tel/fax +390429773082 |      |            | SIZE                                   | DWG N°:<br><br>1 | REV     |
|                                                                                                                                                                                      |      |            | SCALE:                                 |                  | WEIGHT: |



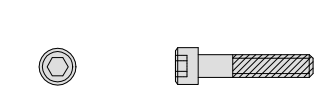
## Spacer



## MATERIAL NEEDED



x 02  FLANGED NUT FOR M8

x 02  M8 x 50 SCREW

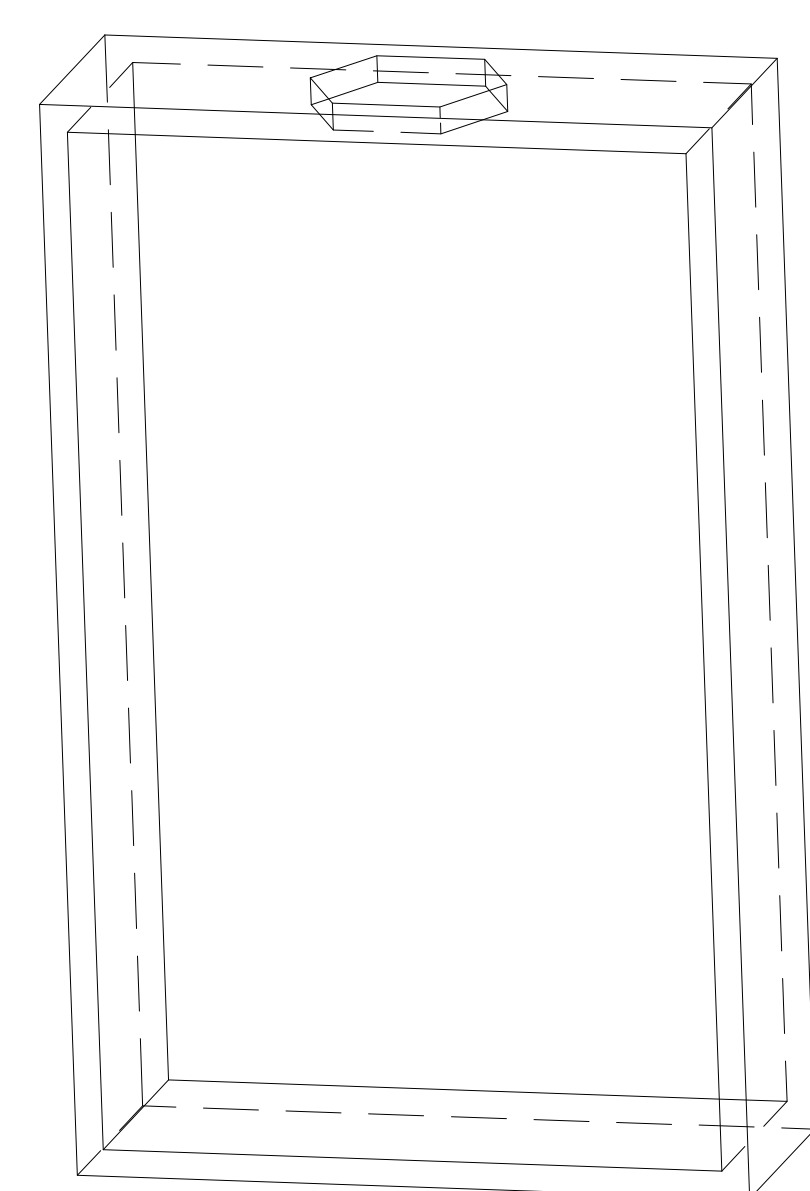
x 02  SELF DRILLING SCREW



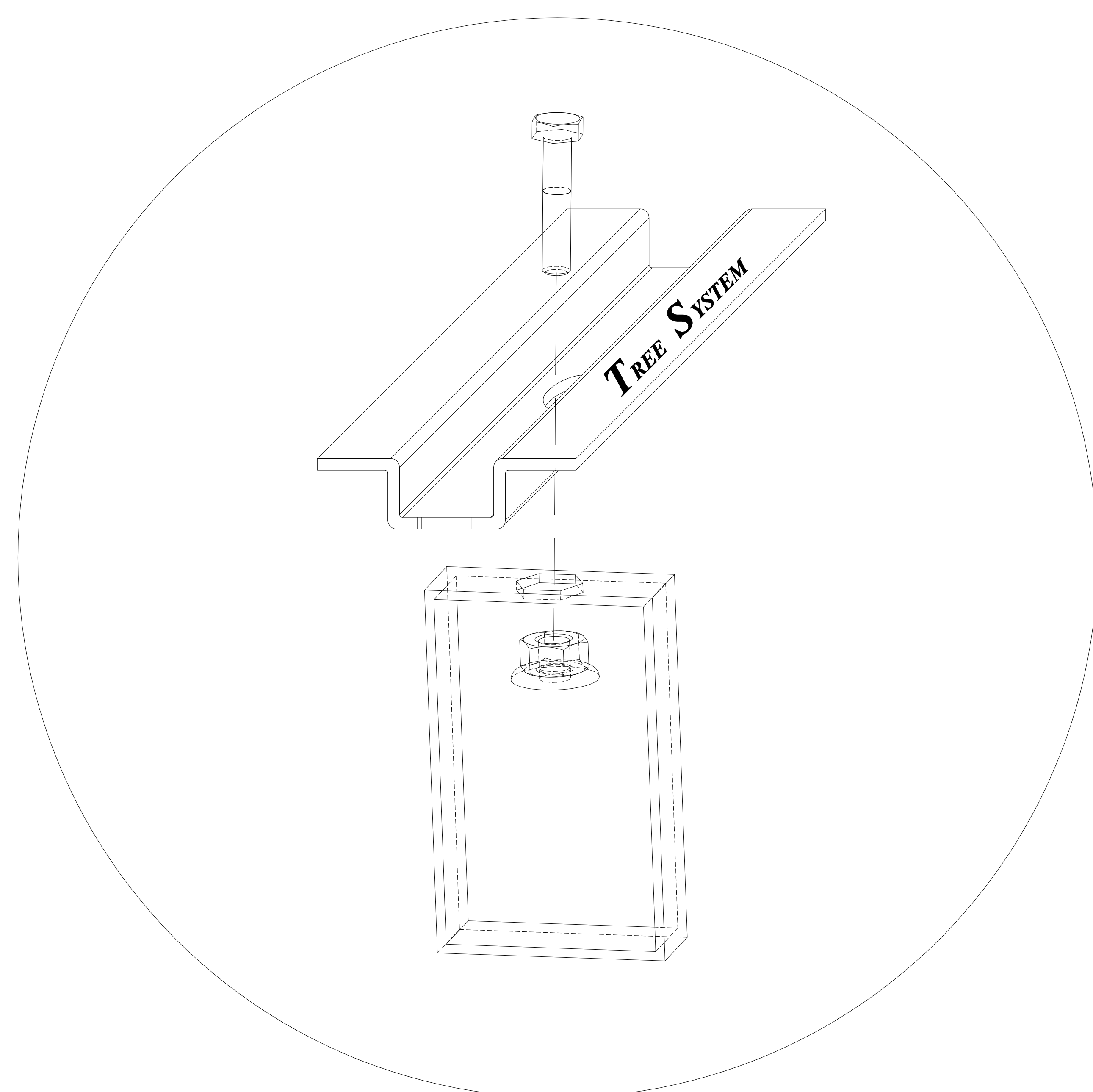
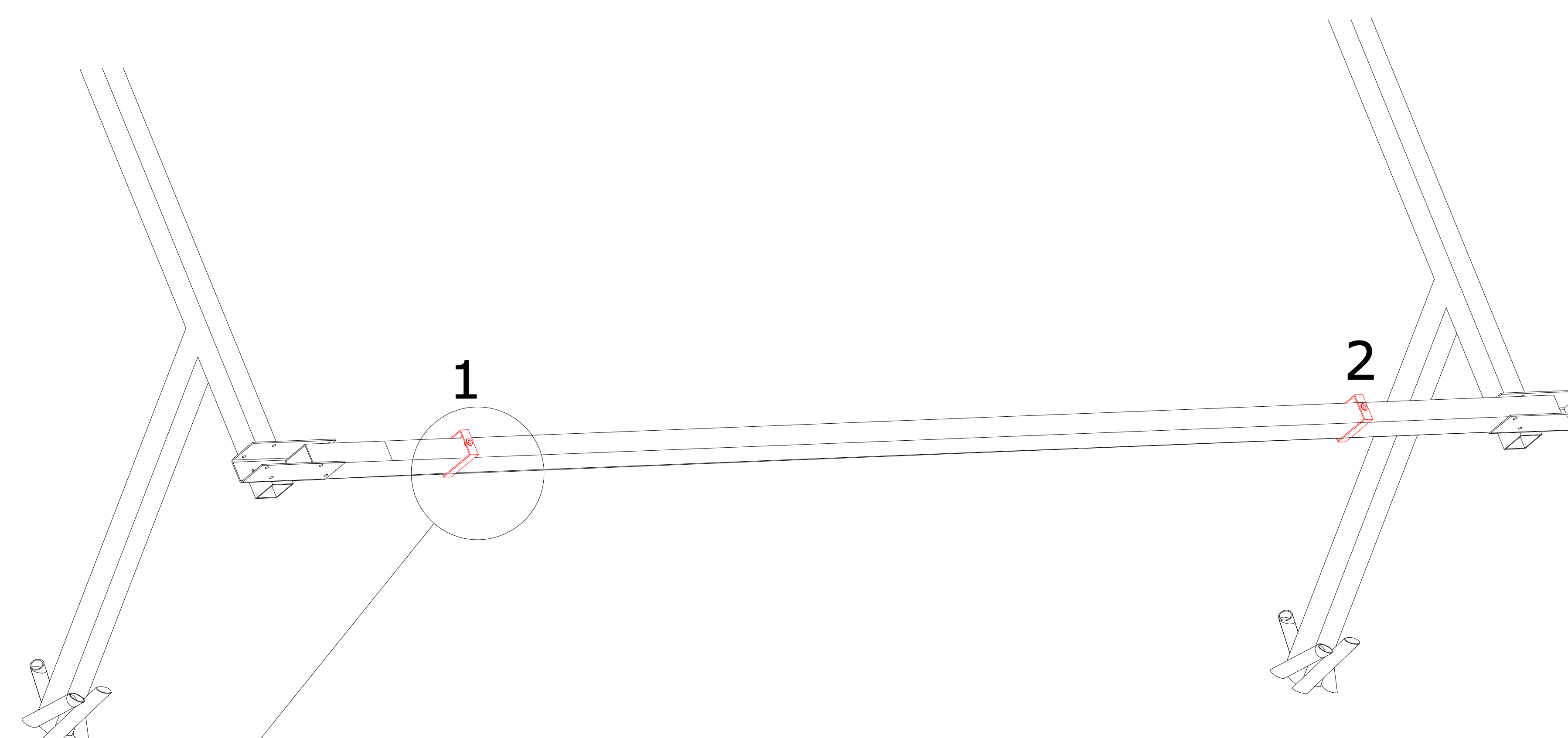
To find the exact spacing between the frames (**193cm or see next**) you can use the spacers placed one in the front side and one on the back side. For spacing different from those it's recommended to use two tape-measures placed one on the front side and one on the back.

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<br>Stock_2024_01_164.00kW   |                  |       |
| DRAWN                                                                                                                                                                         | M.S. | 10/06/2024 |                                          |                  |       |
| CHECKED                                                                                                                                                                       |      |            | TITLE<br>Spacing between the frameworks. |                  |       |
|                                                                                                                                                                               |      |            |                                          |                  |       |
| <br>TreeSystem s.r.l.<br>Via Moraro n°22, 35020, Pozzonovo (PD)<br>Tel/fax +390429773082 |      |            | SIZE                                     | DWG N°: <b>2</b> | REV   |
|                                                                                                                                                                               |      |            | SCALE:                                   | WEIGHT:          | SHEET |



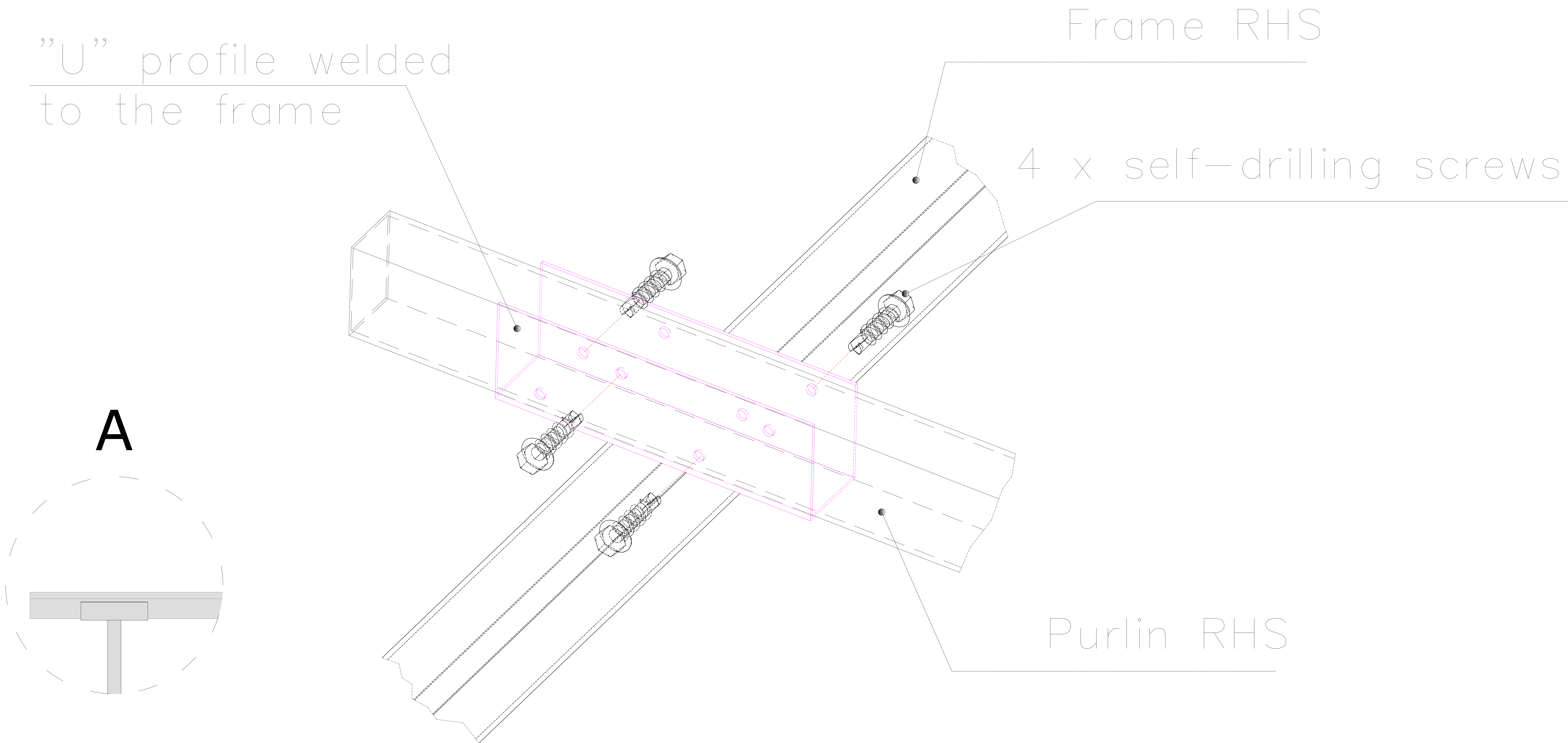
Collar



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<br>Stock_2024_01_164.00kW           |                  |       |
| DRAWN                                                                                                                                                                         | M.S. | 10/06/2024 |                                                  |                  |       |
| CHECKED                                                                                                                                                                       |      |            |                                                  |                  |       |
|                                                                                                                                                                               |      |            | TITLE<br>Insertion collars to fasten PV modules. |                  |       |
| <br>TreeSystem s.r.l.<br>Via Moraro n°22, 35020, Pozzonovo (PD)<br>Tel/fax +390429773082 |      |            | SIZE                                             | DWG N°: <b>3</b> | REV   |
|                                                                                                                                                                               |      |            | SCALE:                                           | WEIGHT:          | SHEET |
|                                                                                                                                                                               |      |            |                                                  |                  |       |

DETAIL "A": INITIAL POSITIONS



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



|                                                                                                                                                                               |      |            |                                                       |                     |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-------------------------------------------------------|---------------------|-------|
|                                                                                                                                                                               | NAME | DATE       | Solartricity<br>Stock_2024_01_164.00kW                |                     |       |
| DRAWN                                                                                                                                                                         | M.S. | 10/06/2024 |                                                       |                     |       |
| CHECKED                                                                                                                                                                       |      |            | TITLE<br>Fastening horizontal profiles to the frames. |                     |       |
|                                                                                                                                                                               |      |            |                                                       |                     |       |
| <br>TreeSystem s.r.l.<br>Via Moraro n°22, 35020, Pozzonovo (PD)<br>Tel/fax +390429773082 |      |            | SIZE                                                  | DWG N°:<br><b>4</b> | REV   |
|                                                                                                                                                                               |      |            | SCALE:                                                | WEIGHT:             | SHEET |

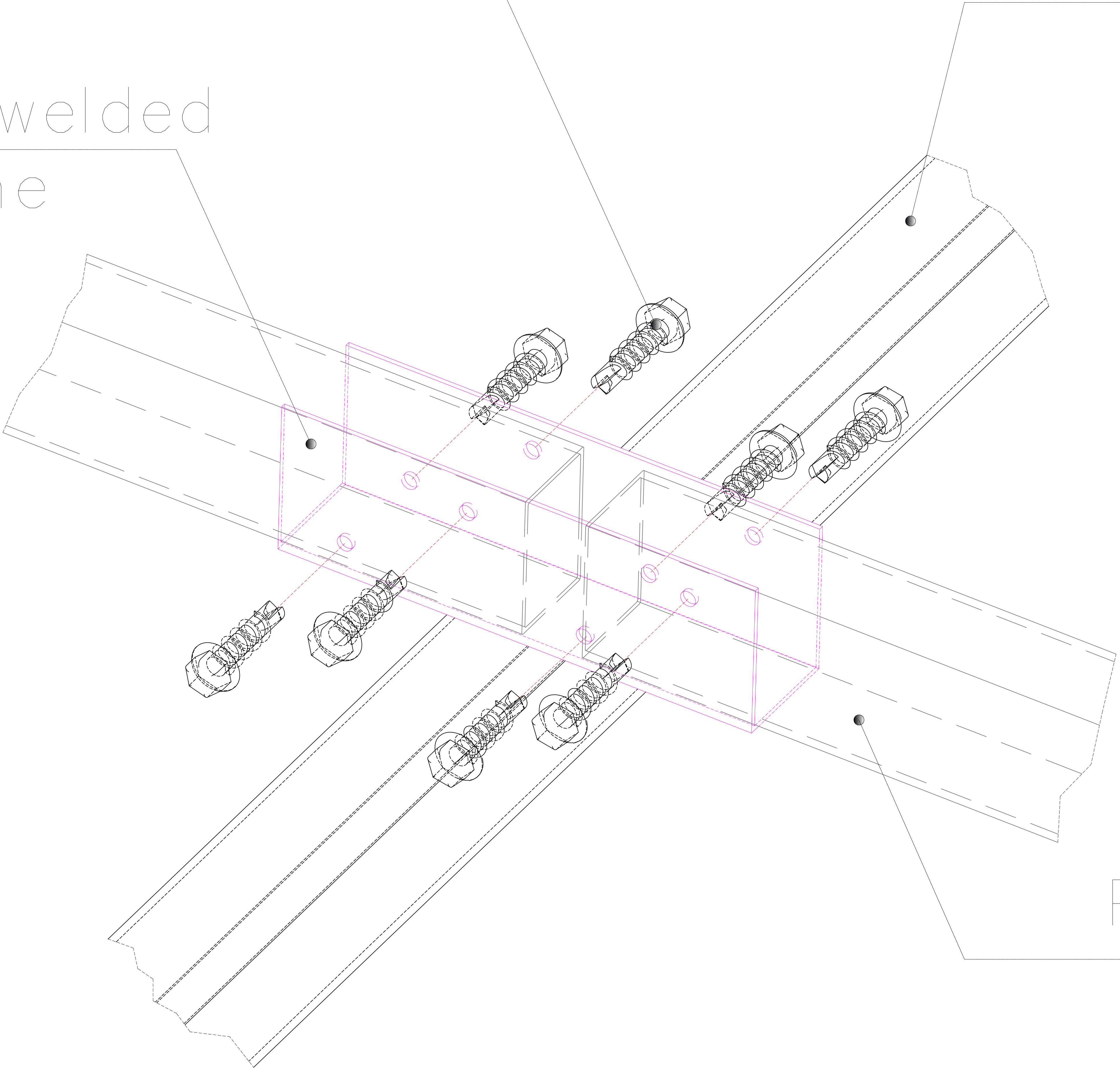
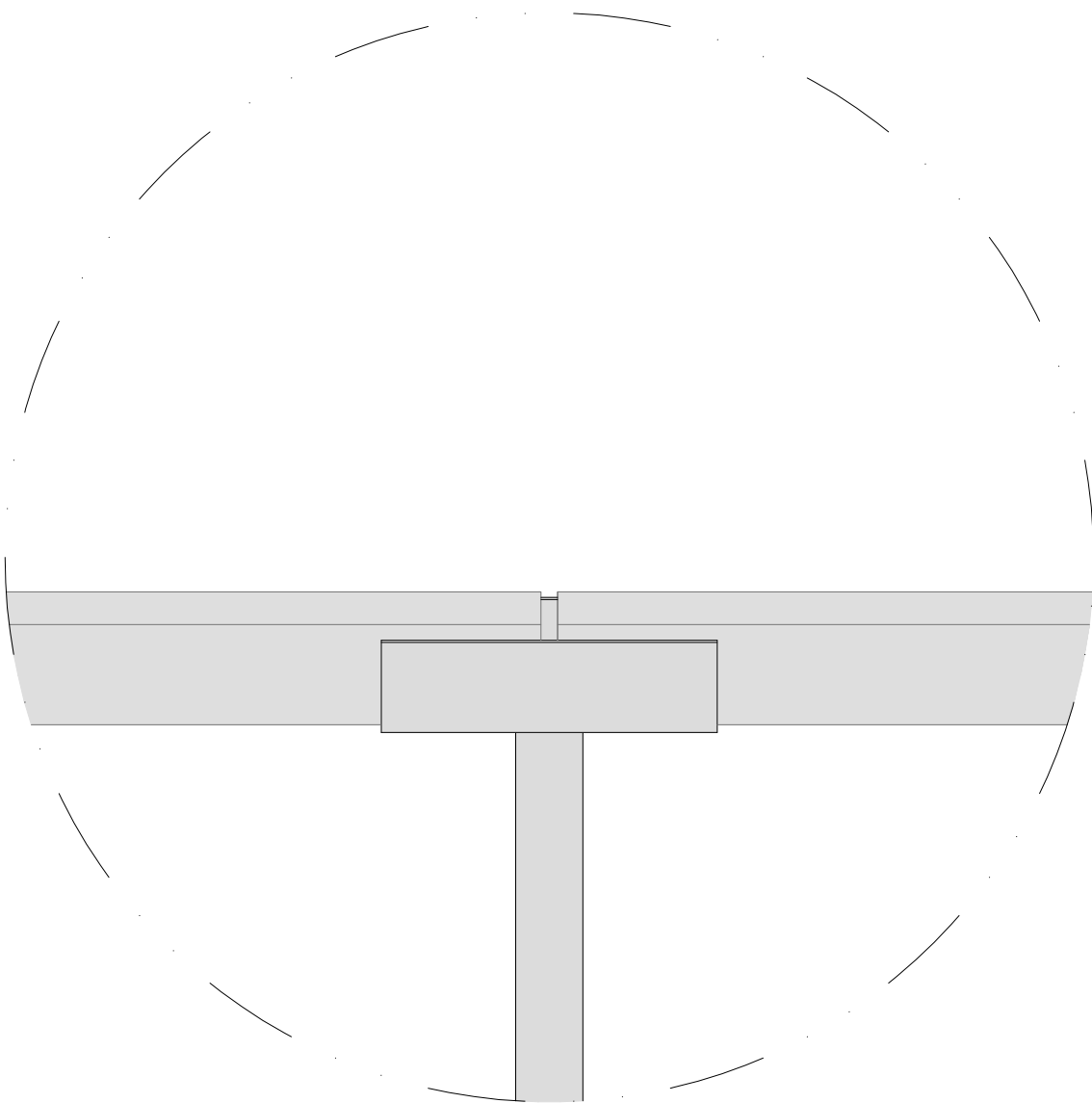
DETAIL "B": Tête-à-Tête Positions

8 x self-drilling screws

Frame RHS

“U” profile welded to the frame

B



Purlin RHS

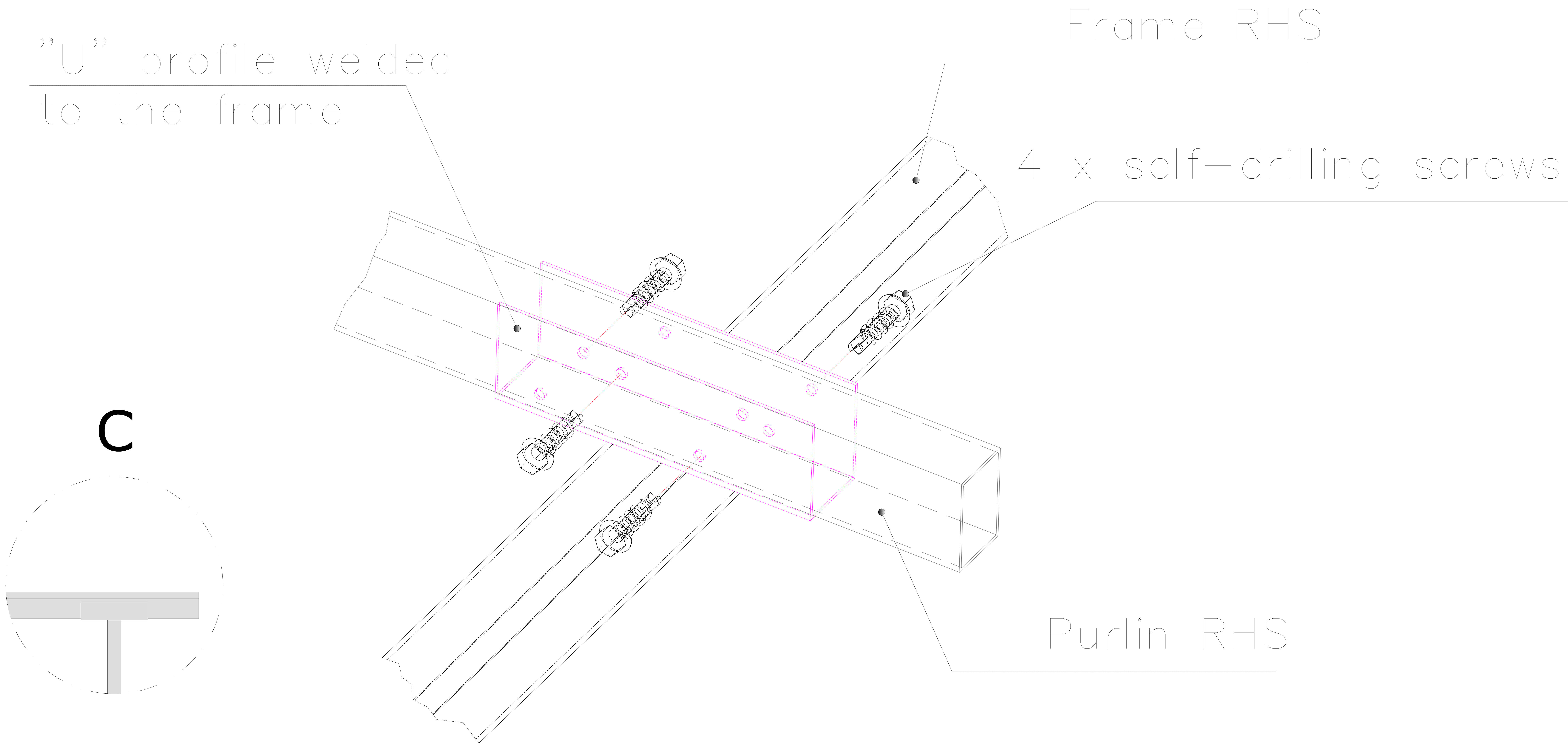
PERMITTED TIGHTENING TORQUE OF MAX 7-8 Nm.



SCREW GUN DRILL with DRIVE SHALLOW SOCKET size 10mm REQUIRED

|                                                                                                                                                                               |      |            |                                                       |           |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-------------------------------------------------------|-----------|-------|
|                                                                                                                                                                               | NAME | DATE       | Solartricity<br>Stock_2024_01_164.00kW                |           |       |
| DRAWN                                                                                                                                                                         | M.S. | 10/06/2024 |                                                       |           |       |
| CHECKED                                                                                                                                                                       |      |            | TITLE<br>Fastening horizontal profiles to the frames. |           |       |
|                                                                                                                                                                               |      |            |                                                       |           |       |
| <br>TreeSystem s.r.l.<br>Via Moraro n°22, 35020, Pozzonovo (PD)<br>Tel/fax +390429773082 |      |            | SIZE                                                  | DWG N°: 5 | REV   |
|                                                                                                                                                                               |      |            | SCALE:                                                | WEIGHT:   | SHEET |

DETAIL "C": FINAL POSITIONS

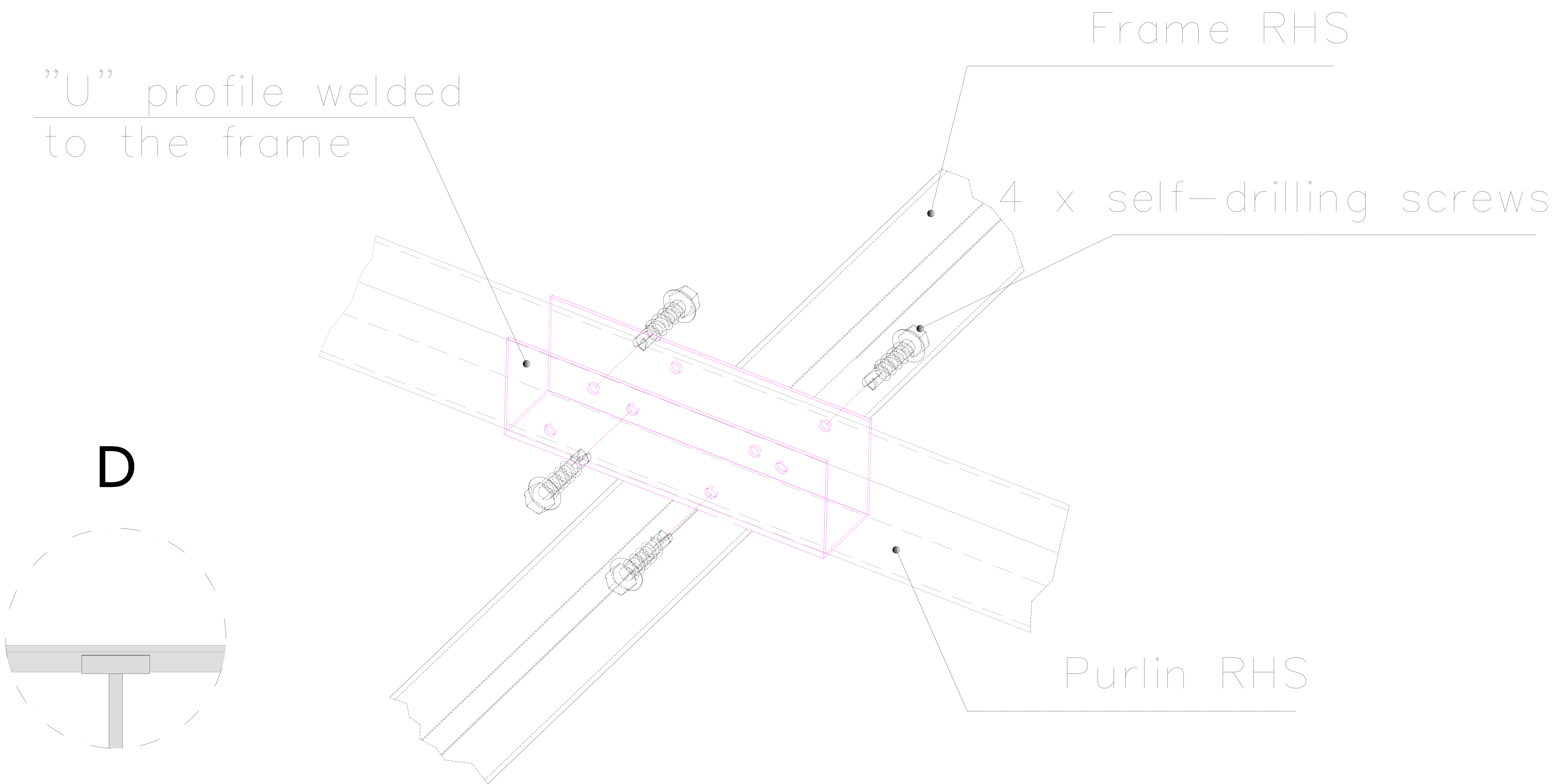


PERMITTED TIGHTENING  
TORQUE OF MAX 7-8 Nm.



|                                                                                                                                                                               |      |            |                                                       |                     |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-------------------------------------------------------|---------------------|-------|
|                                                                                                                                                                               | NAME | DATE       | Solartricity<br>Stock_2024_01_164.00kW                |                     |       |
| DRAWN                                                                                                                                                                         | M.S. | 10/06/2024 |                                                       |                     |       |
| CHECKED                                                                                                                                                                       |      |            | TITLE<br>Fastening horizontal profiles to the frames. |                     |       |
|                                                                                                                                                                               |      |            |                                                       |                     |       |
| <br>TreeSystem s.r.l.<br>Via Moraro n°22, 35020, Pozzonovo (PD)<br>Tel/fax +390429773082 |      |            | SIZE                                                  | DWG N°:<br><b>6</b> | REV   |
|                                                                                                                                                                               |      |            | SCALE:                                                | WEIGHT:             | SHEET |

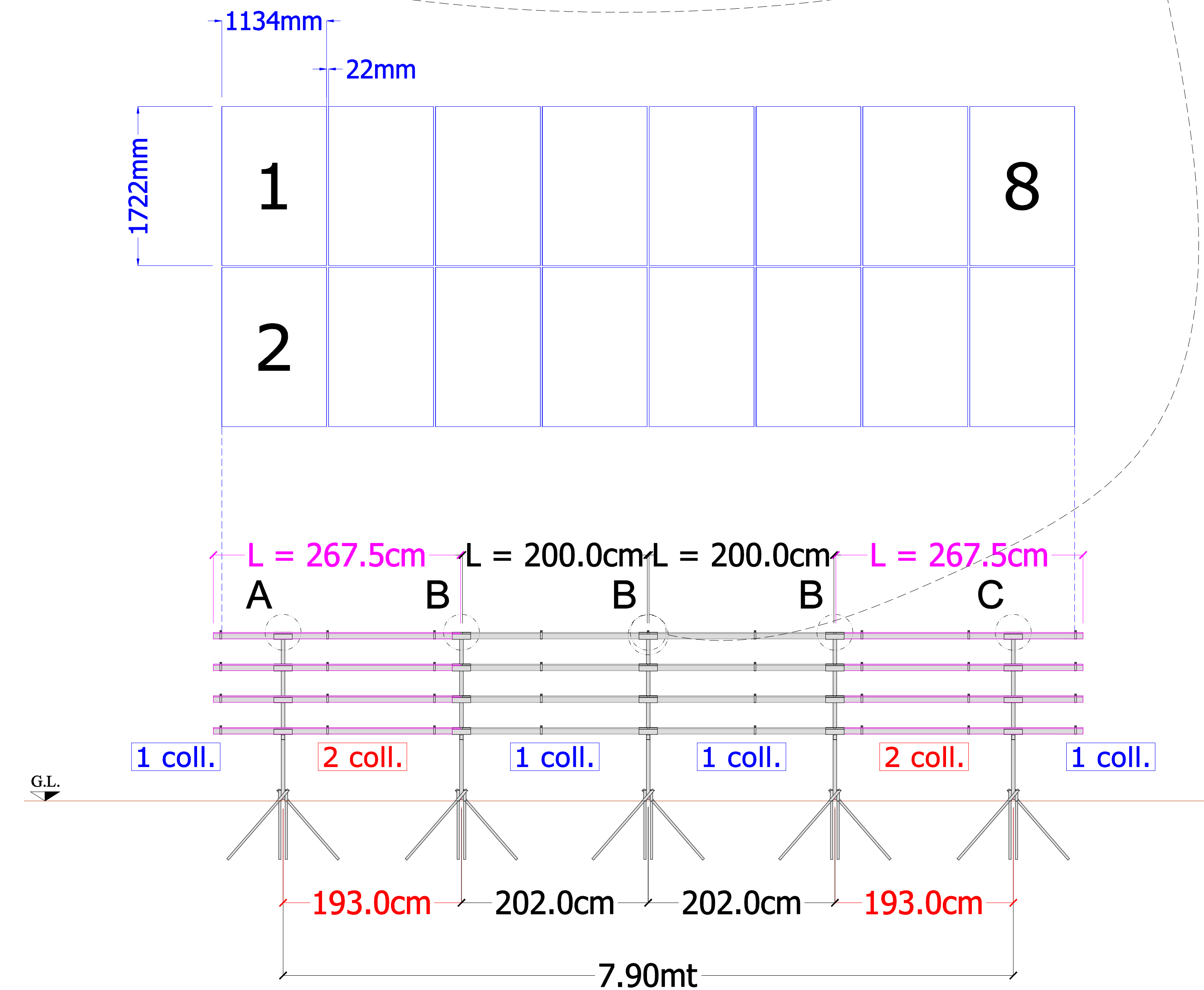
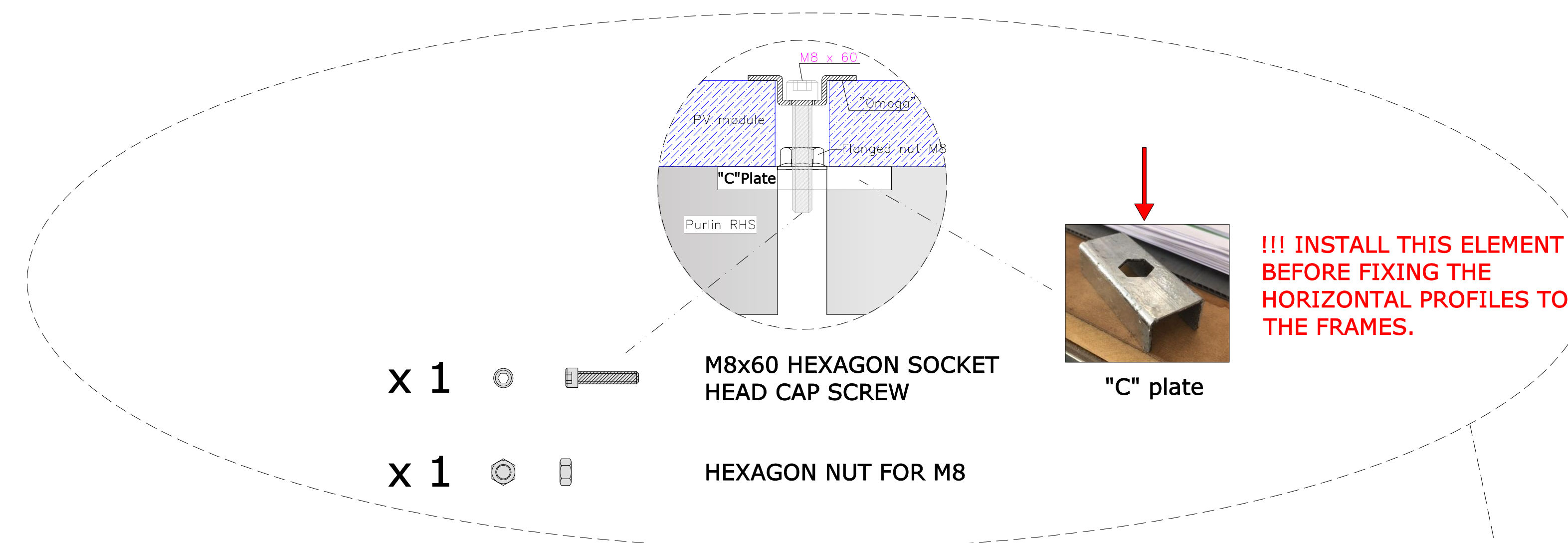
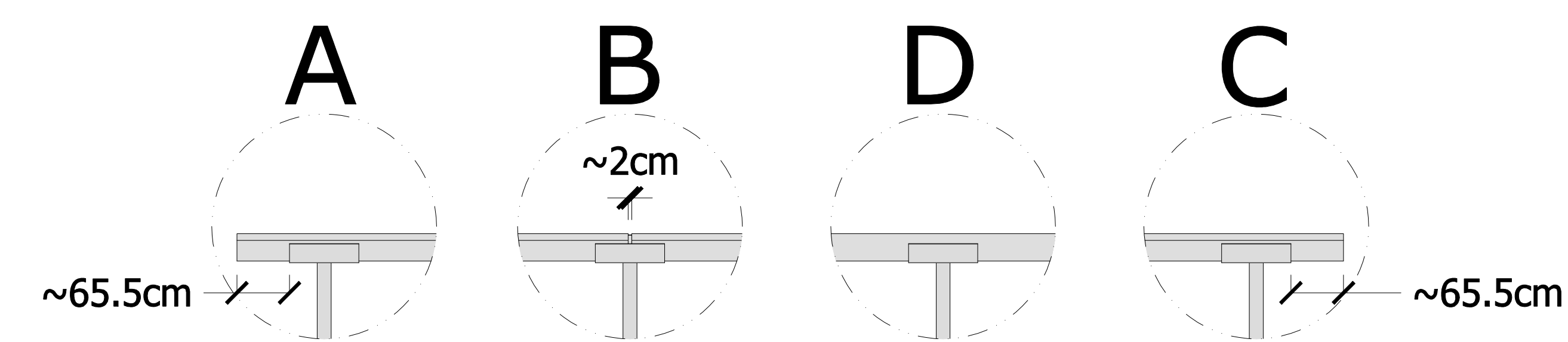
DETAIL "D": PASSING THROUGH



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



|                                                                                          |      |            |                                                       |           |       |
|------------------------------------------------------------------------------------------|------|------------|-------------------------------------------------------|-----------|-------|
|                                                                                          | NAME | DATE       | Solartricity<br>Stock_2024_01_164.00kW                |           |       |
| DRAWN                                                                                    | M.S. | 10/06/2024 |                                                       |           |       |
| CHECKED                                                                                  |      |            | TITLE<br>Fastening horizontal profiles to the frames. |           |       |
|                                                                                          |      |            |                                                       |           |       |
| <br>TreeSystem s.r.l.<br>Via Moraro n°22, 35020, Pozzonovo (PD)<br>Tel/fax +390429773082 |      |            | SIZE                                                  | DWG N°: 7 | REV   |
|                                                                                          |      |            | SCALE:                                                | WEIGHT:   | SHEET |



Tipology of rack: **8+8** Number of racks: **25**

For each rack, it is required:

- 5 FRAMEWORKS 30°;
- 8 PURLINS L=200cm;
- 8 PURLINS L=267.5cm;
- 32 COLLARS;
- 4 "C" PLATES.

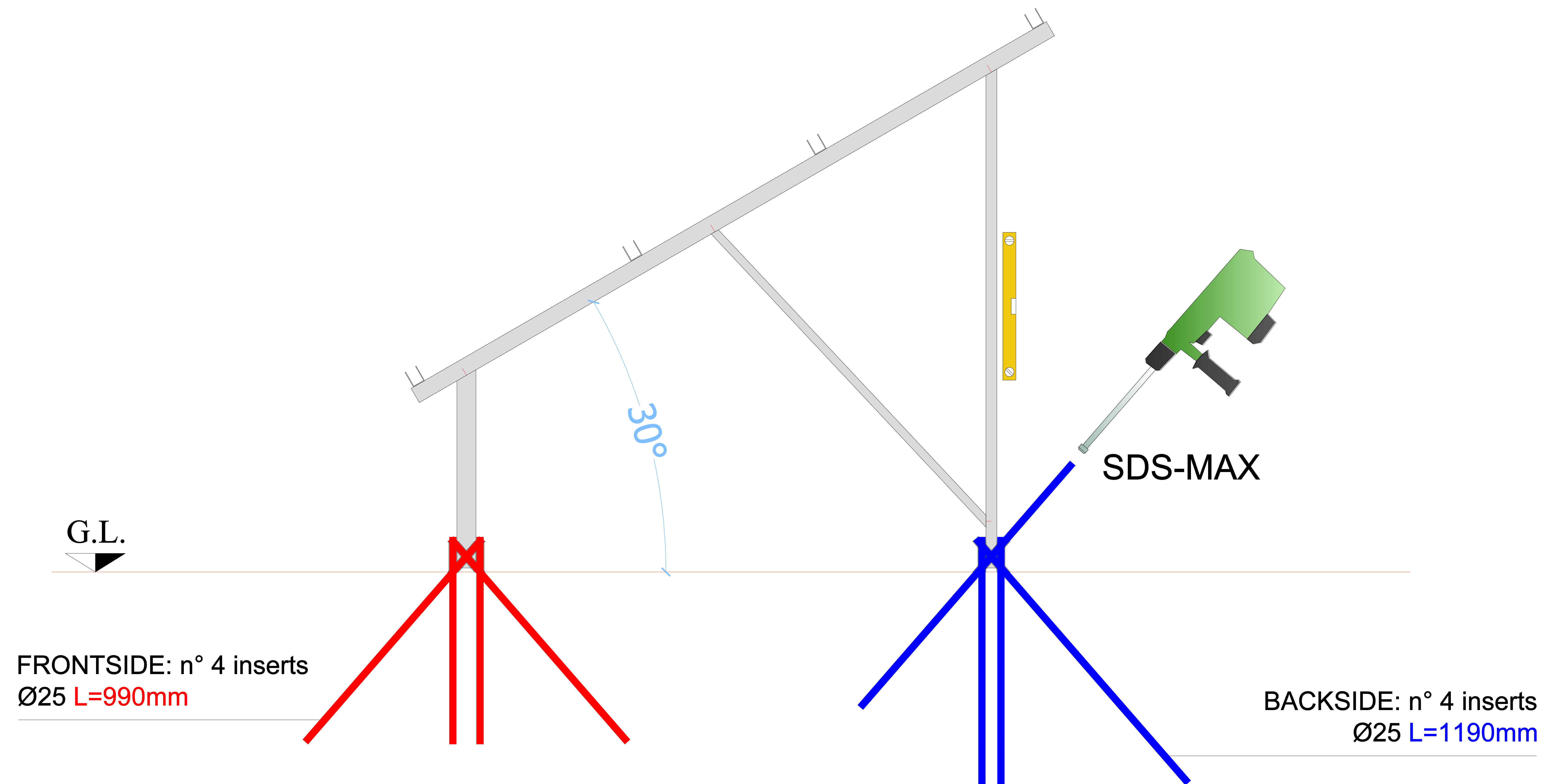
**DO NOT CUT THE  
HORIZONTAL PROFILES  
FOR ANY REASONS,  
SINCE THEY ARE  
ALREADY CUT ON SIZE.**

|                                                                                                                                                                               |      |            |                                        |                  |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|----------------------------------------|------------------|-------|
|                                                                                                                                                                               | NAME | DATE       | Solartricity<br>Stock_2024_01_164.00kW |                  |       |
| DRAWN                                                                                                                                                                         | M.S. | 10/06/2024 |                                        |                  |       |
| CHECKED                                                                                                                                                                       |      |            | TITLE<br>Layout Racks.                 |                  |       |
|                                                                                                                                                                               |      |            |                                        |                  |       |
| <br>TreeSystem s.r.l.<br>Via Moraro n°22, 35020, Pozzonovo (PD)<br>Tel/fax +390429773082 |      |            | SIZE                                   | DWG N°: <b>8</b> | REV   |
|                                                                                                                                                                               |      |            | SCALE:                                 | WEIGHT:          | SHEET |

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



JACK HAMMER with SDS-MAX  
SOCKET REQUIRED

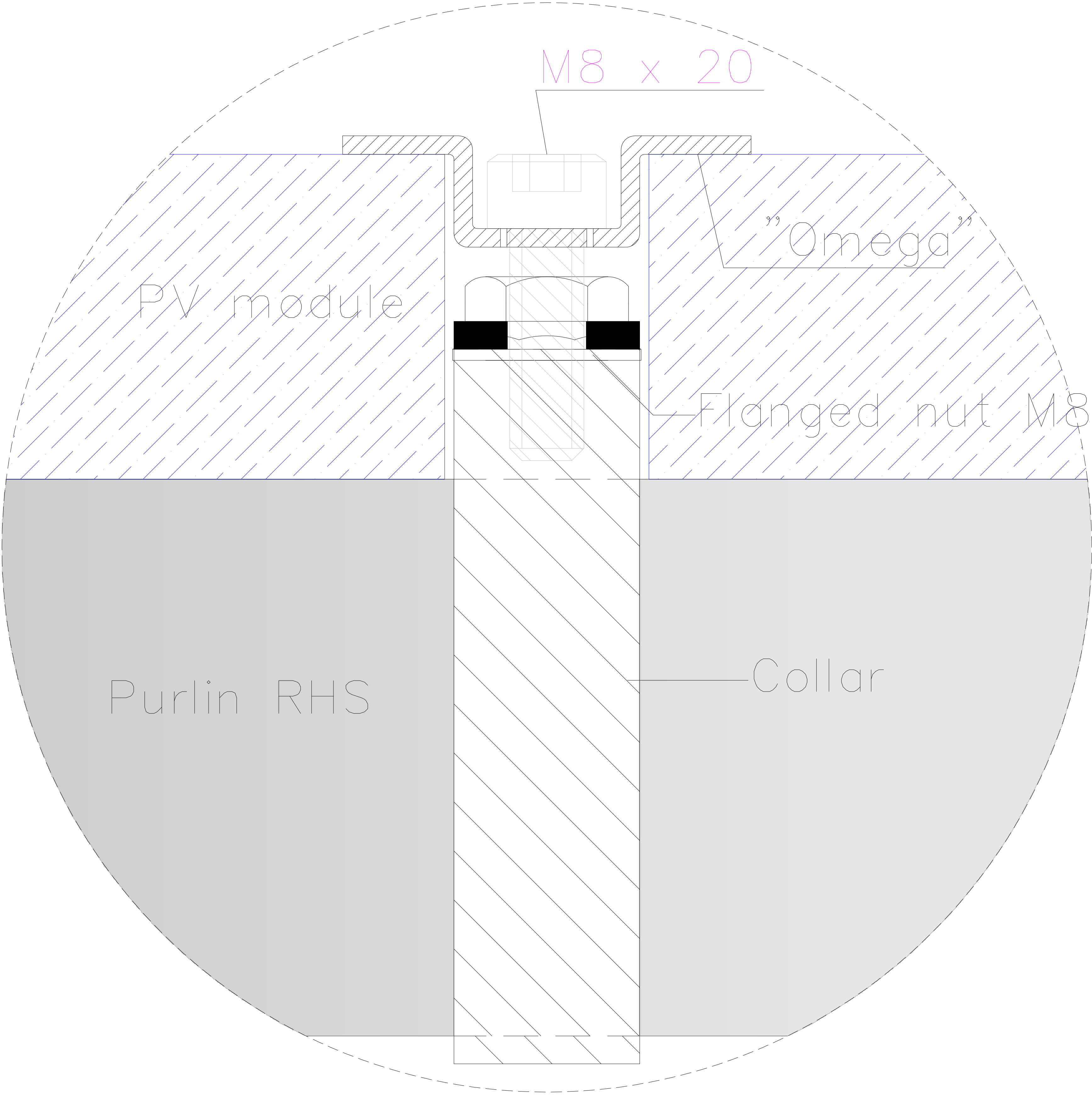
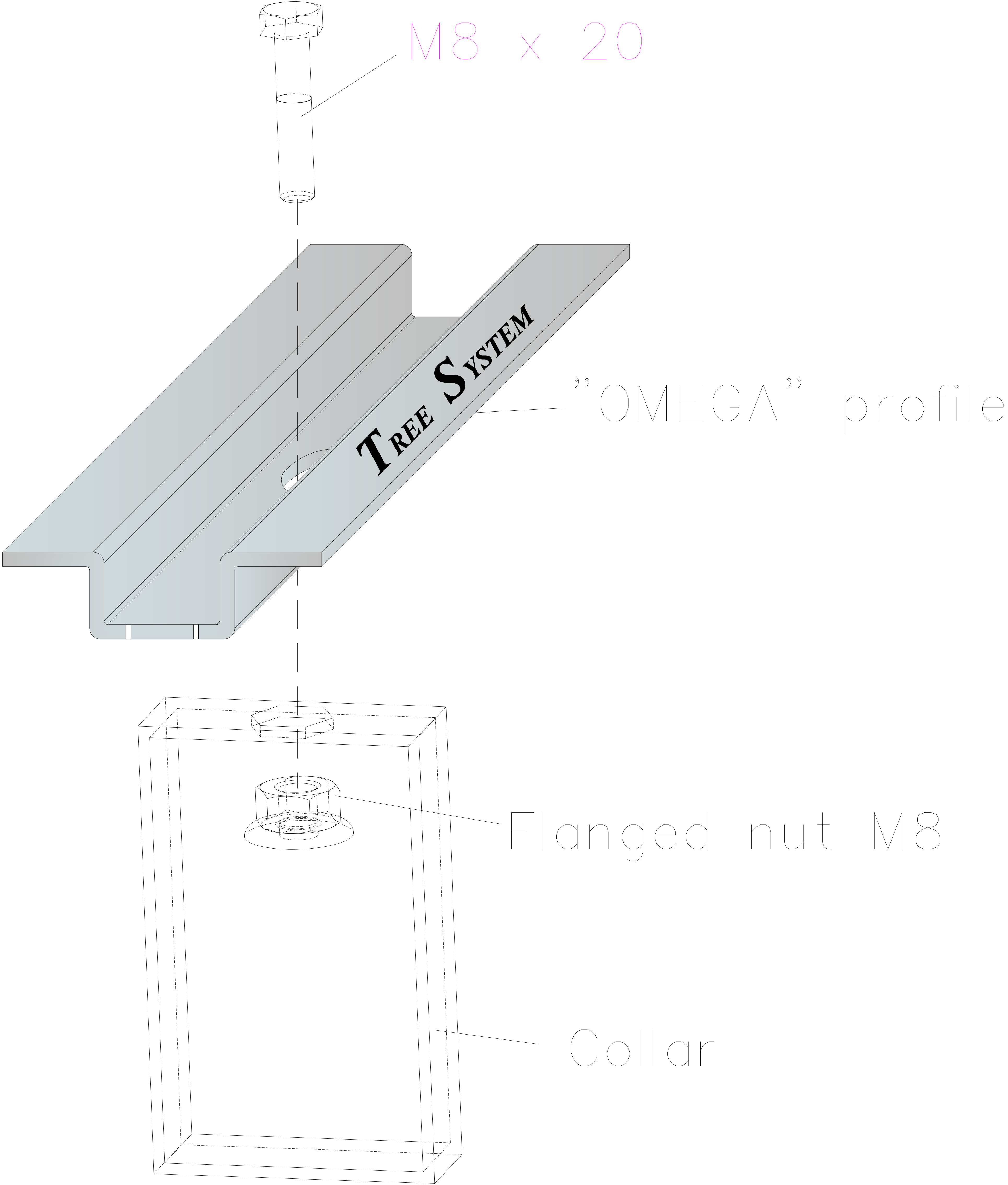


Driving-in the inserts to the ground through guides placed at the base of the frames, using a jack-hammer with SDS-MAX attack for tool, only when all the structure is installed and it has checked that the spirit level giving the transverse orientation of the structure indicates the horizontal.

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

|         |  |      |            |                                        |           |
|---------|--|------|------------|----------------------------------------|-----------|
|         |  | NAME | DATE       | Solartricity<br>Stock_2024_01_164.00kW |           |
| DRAWN   |  | M.S. | 10/06/2024 |                                        |           |
| CHECKED |  |      |            |                                        |           |
|         |  |      |            | TITLE                                  |           |
|         |  |      |            | Anchoring the structure to the ground. |           |
|         |  |      |            | SIZE                                   | DWG N°: 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<br>Stock_2024_01_164.00kW |         |         |       |
| DRAWN                                                                                                                                                                                                | M.S. | 10/06/2024 |                                        |         |         |       |
| CHECKED                                                                                                                                                                                              |      |            |                                        |         |         |       |
|                                                                                                                                                                                                      |      |            | TITLE                                  |         |         |       |
| <div><p><b>TreeSystem s.r.l.</b><br/>Via Moraro n°22, 35020, Pozzonovo (PD)<br/>Tel/fax +390429773082</p></div> |      |            | Fastening for photovoltaic modules.    |         |         |       |
|                                                                                                                                                                                                      |      |            | SIZE                                   | DWG N°: | 10      | REV   |
|                                                                                                                                                                                                      |      |            | SCALE:                                 |         | WEIGHT: | SHEET |

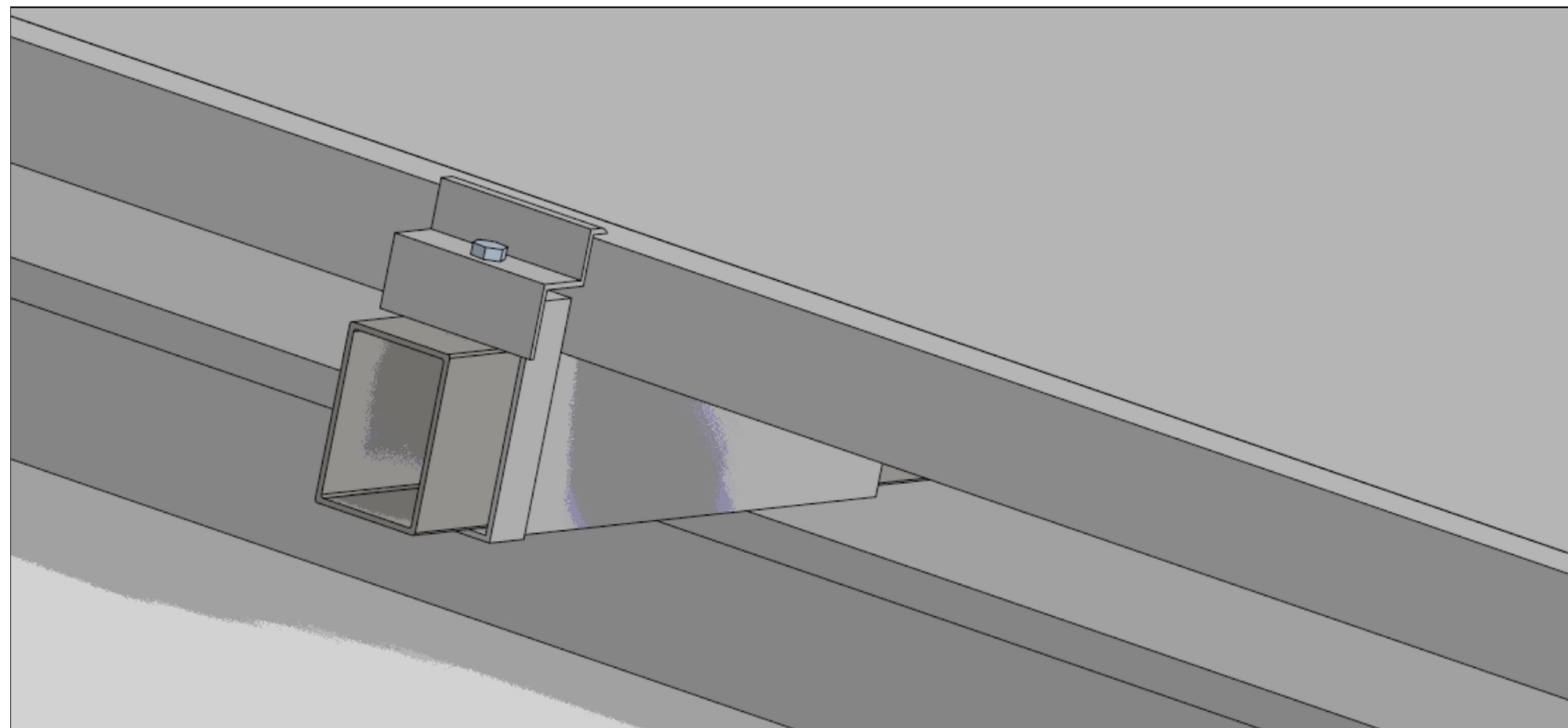
Abutment of  
the module

M8 x 20

"Zed" profile

Purlin RHS

Collar

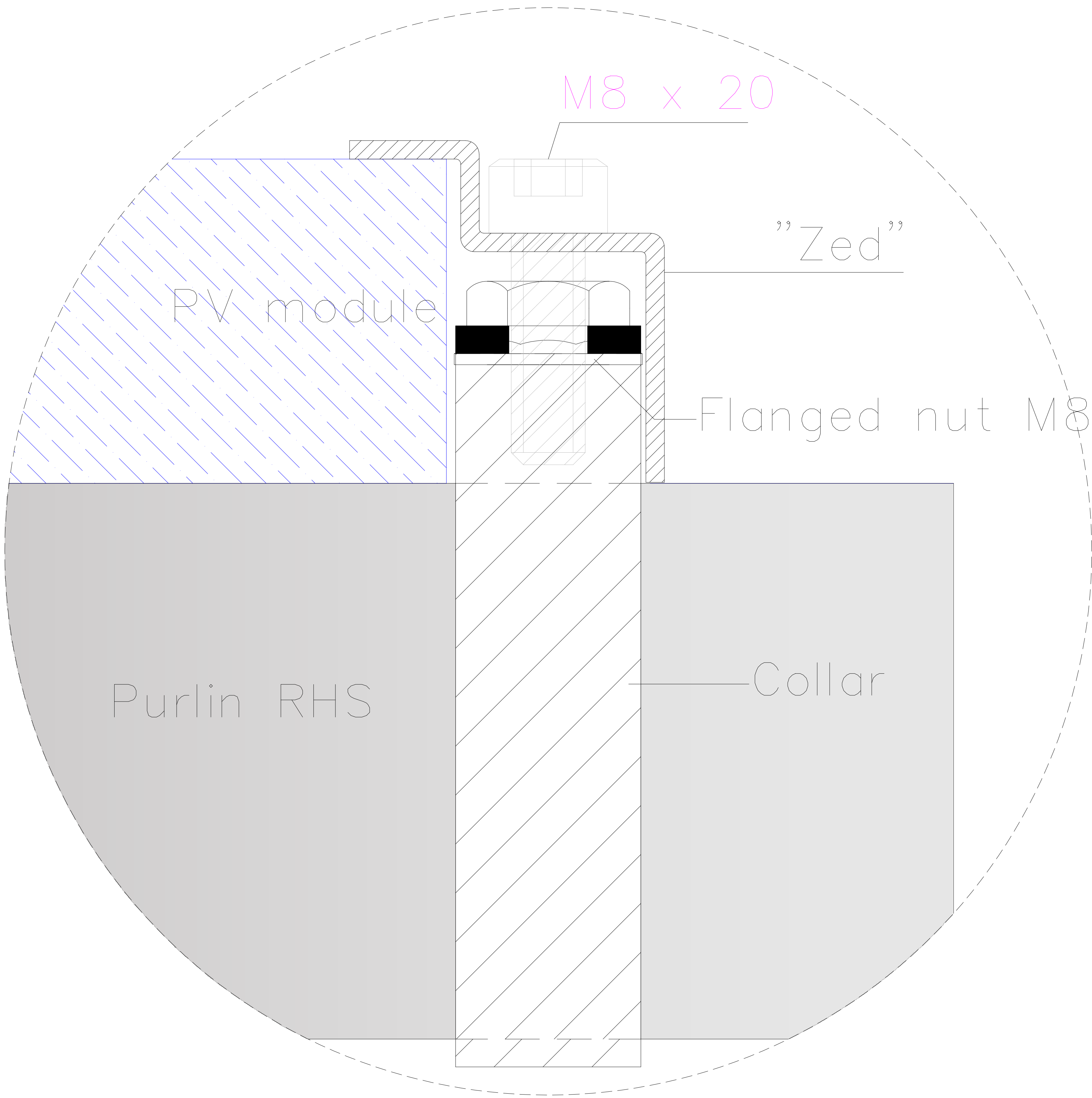


**PERMITTED TIGHTENING  
TORQUE OF MAX 10 Nm (to be  
verified with the prescriptions of  
the module manufacturer).**

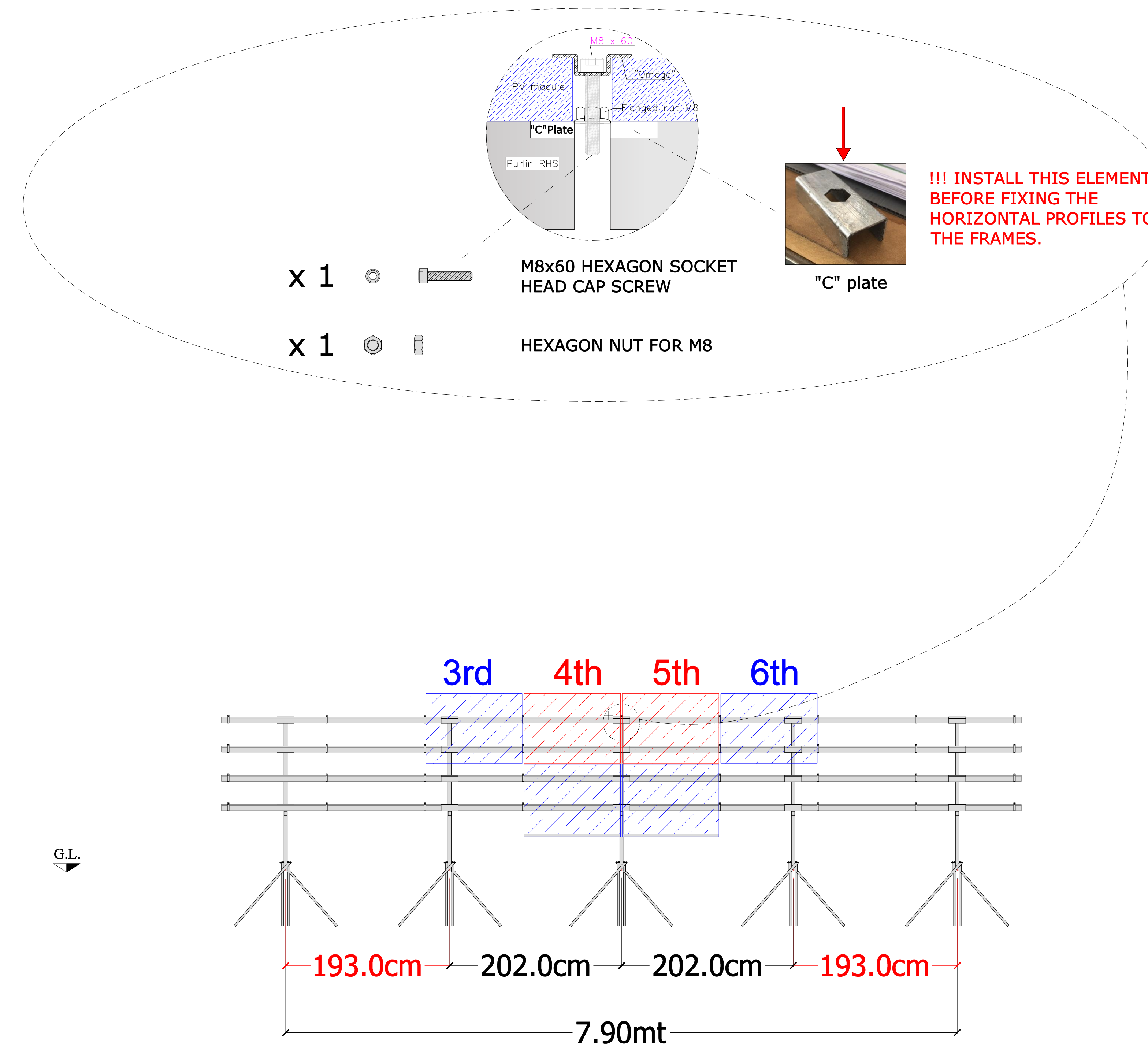


ALLEN KEY SIZE REQUIRED  
size 6mm

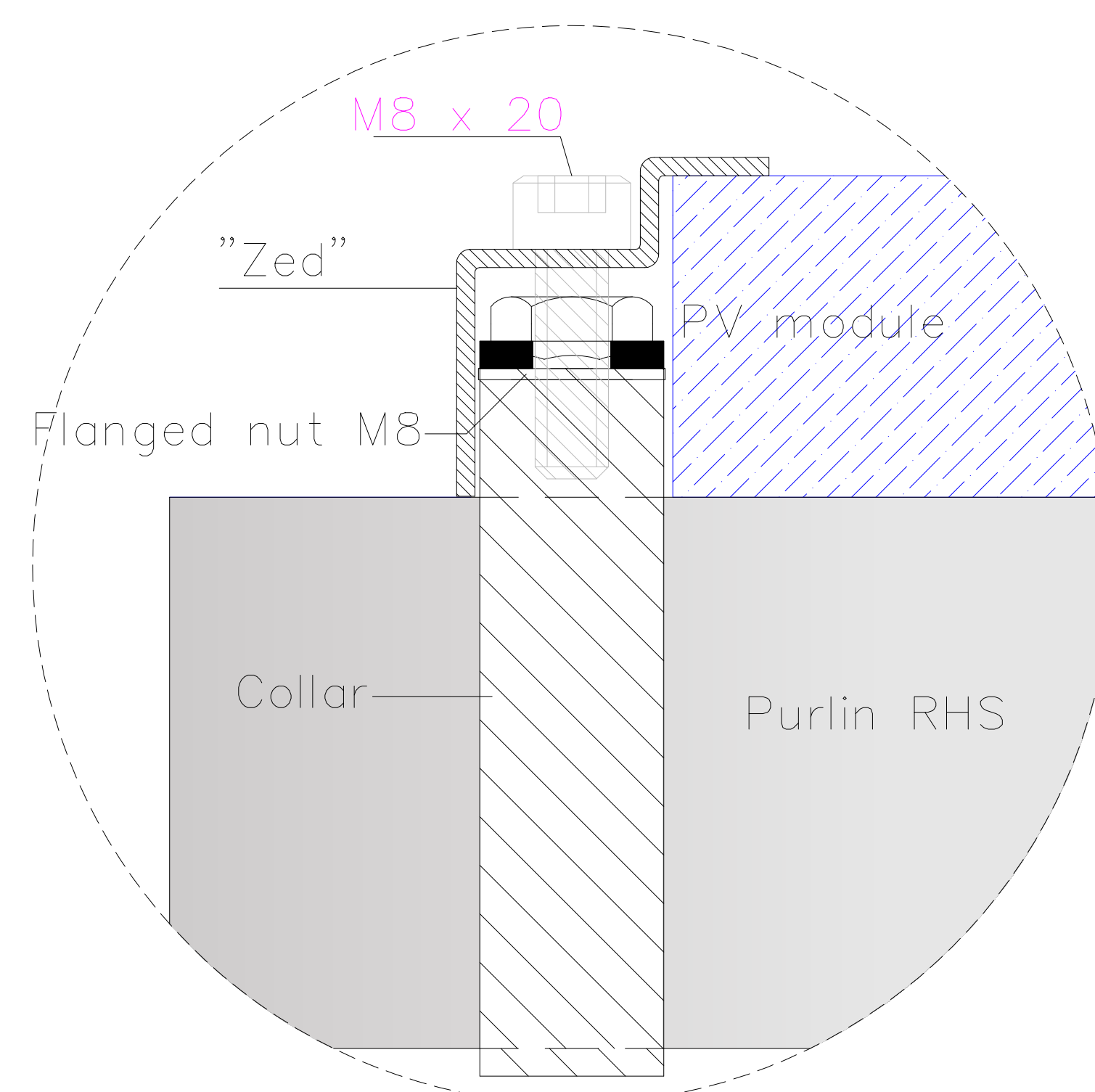
DETAIL "E"



|         |  |        |            |                                              |       |  |
|---------|--|--------|------------|----------------------------------------------|-------|--|
|         |  | NAME   | DATE       | Solartricity<br>Stock_2024_01_164.00kW       |       |  |
| DRAWN   |  | M.S.   | 10/06/2024 |                                              |       |  |
| CHECKED |  |        |            | TITLE<br>Fastening for photovoltaic modules. |       |  |
|         |  |        |            |                                              |       |  |
|         |  |        |            | SIZE DWG N°: 11 REV                          |       |  |
|         |  |        |            |                                              |       |  |
|         |  | SCALE: |            | WEIGHT:                                      | SHEET |  |



## DETAIL "E"

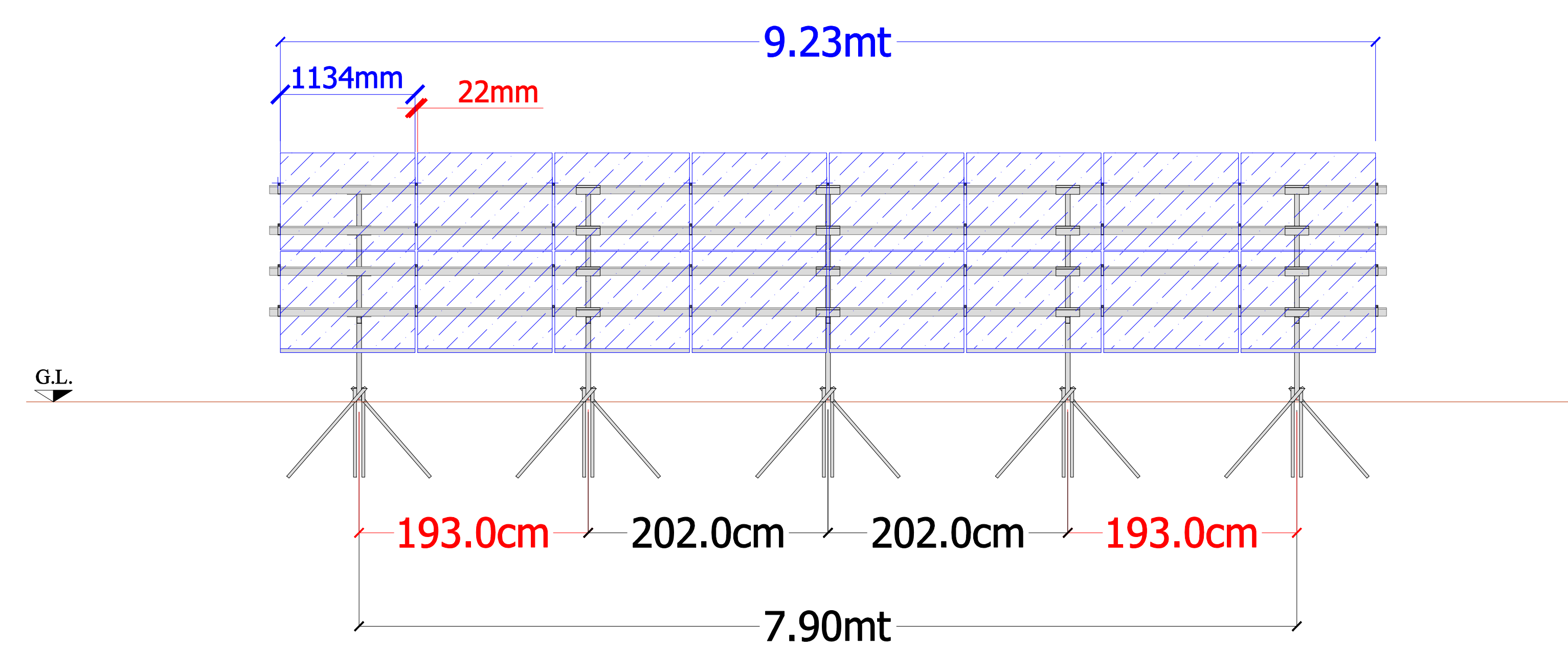


**PERMITTED TIGHTENING TORQUE OF MAX 10 Nm (to be verified with the prescriptions of the module manufacturer).**

Tipology of rack: **8+8** Number of racks: **25**

|                                                                                                                                                                                      |      |            |                                              |           |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|----------------------------------------------|-----------|-------|
|                                                                                                                                                                                      | NAME | DATE       | Solartricity<br>Stock_2024_01_164.00kW       |           |       |
| DRAWN                                                                                                                                                                                | M.S. | 10/06/2024 |                                              |           |       |
| CHECKED                                                                                                                                                                              |      |            | TITLE<br>Fastening for photovoltaic modules. |           |       |
| <br><b>TreeSystem s.r.l.</b><br>Via Moraro n°22, 35020, Pozzonovo (PD)<br>Tel/fax +390429773082 |      |            | SIZE                                         | DWG N°:   | REV   |
|                                                                                                                                                                                      |      |            |                                              | <b>12</b> |       |
|                                                                                                                                                                                      |      |            | SCALE:                                       | WEIGHT:   | SHEET |

400 PV modules 410Wp → 164.00kWp  
Dimension: 1722 x 1134 x 30 mm



Tipology of rack: **8+8** Number of racks: **25**

|                                                                                                                                                                                      |      |            |                                        |                   |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|----------------------------------------|-------------------|-------|
|                                                                                                                                                                                      | NAME | DATE       | Solartricity<br>Stock_2024_01_164.00kW |                   |       |
| DRAWN                                                                                                                                                                                | M.S. | 10/06/2024 |                                        |                   |       |
| CHECKED                                                                                                                                                                              |      |            |                                        |                   |       |
|                                                                                                                                                                                      |      |            | TITLE                                  |                   |       |
|                                                                                                                                                                                      |      |            | Final result.                          |                   |       |
| <br><b>TreeSystem s.r.l.</b><br>Via Moraro n°22, 35020, Pozzonovo (PD)<br>Tel/fax +390429773082 |      |            | SIZE                                   | DWG N°: <b>13</b> | REV   |
|                                                                                                                                                                                      |      |            | SCALE:                                 | WEIGHT:           | SHEET |
|                                                                                                                                                                                      |      |            |                                        |                   |       |