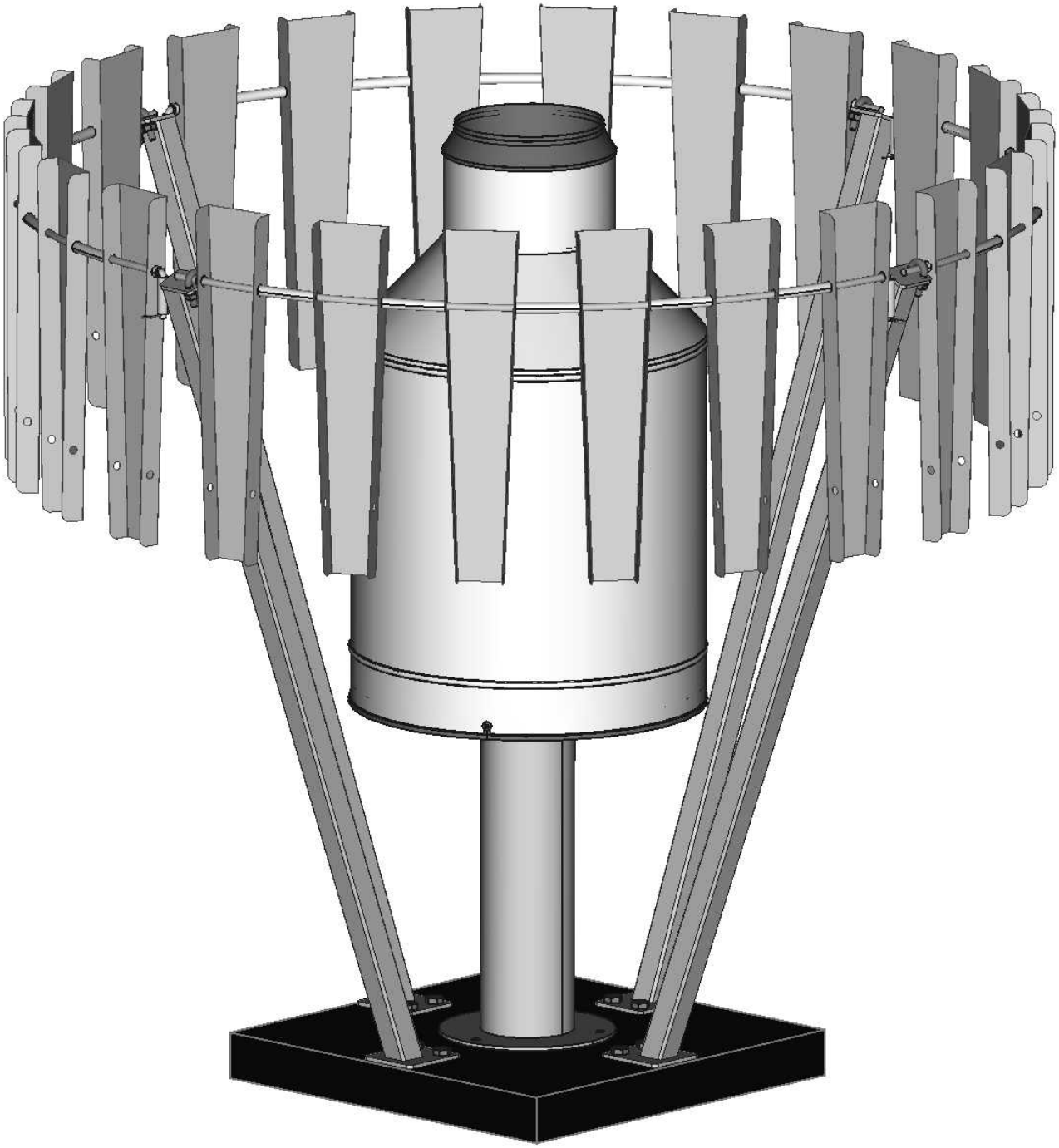
Instalation guide Alter Wind Shield



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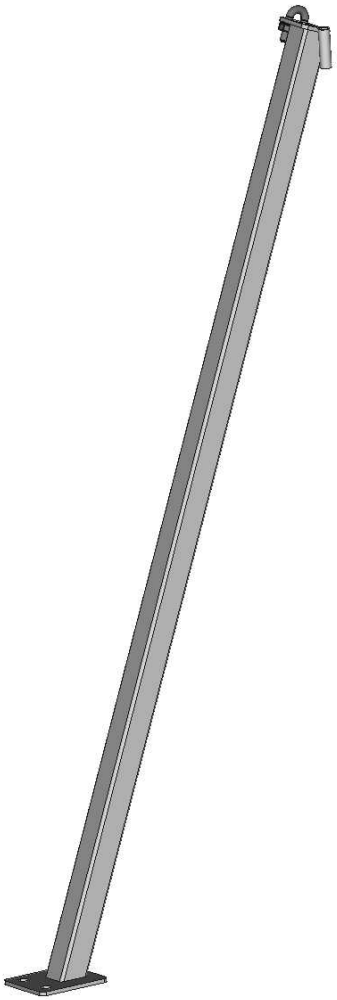
02.2025

MPS - System spol. s.r.o., Pri vinohradoch 326, 831 06, Bratislava, Slovakia, www.mps-system.sk

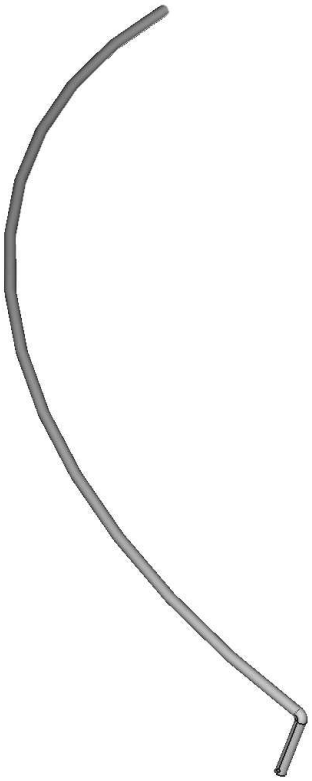
Follow these step-by-step instructions to assemble the TWS for your precipitation measurement system.

Parts list:

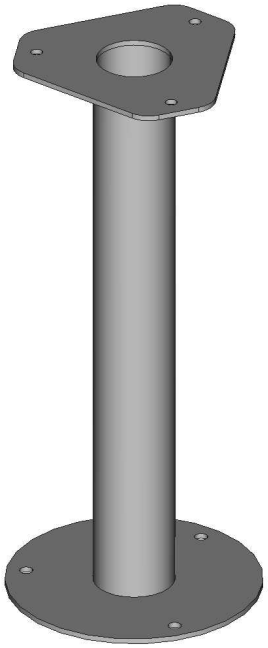
1. AWS Leg 4 **pcs**



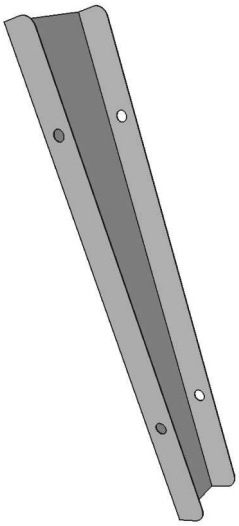
2. AWS Ring segment **4 pcs**



3. TRWS stand **1 pc**
(not part of the AWS delivery)

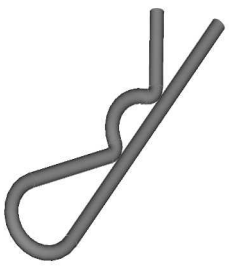


4. AWS Leaf **24 pcs**



5. AWS Spacers
– Long **20 psc**
– Short **8 pcs**

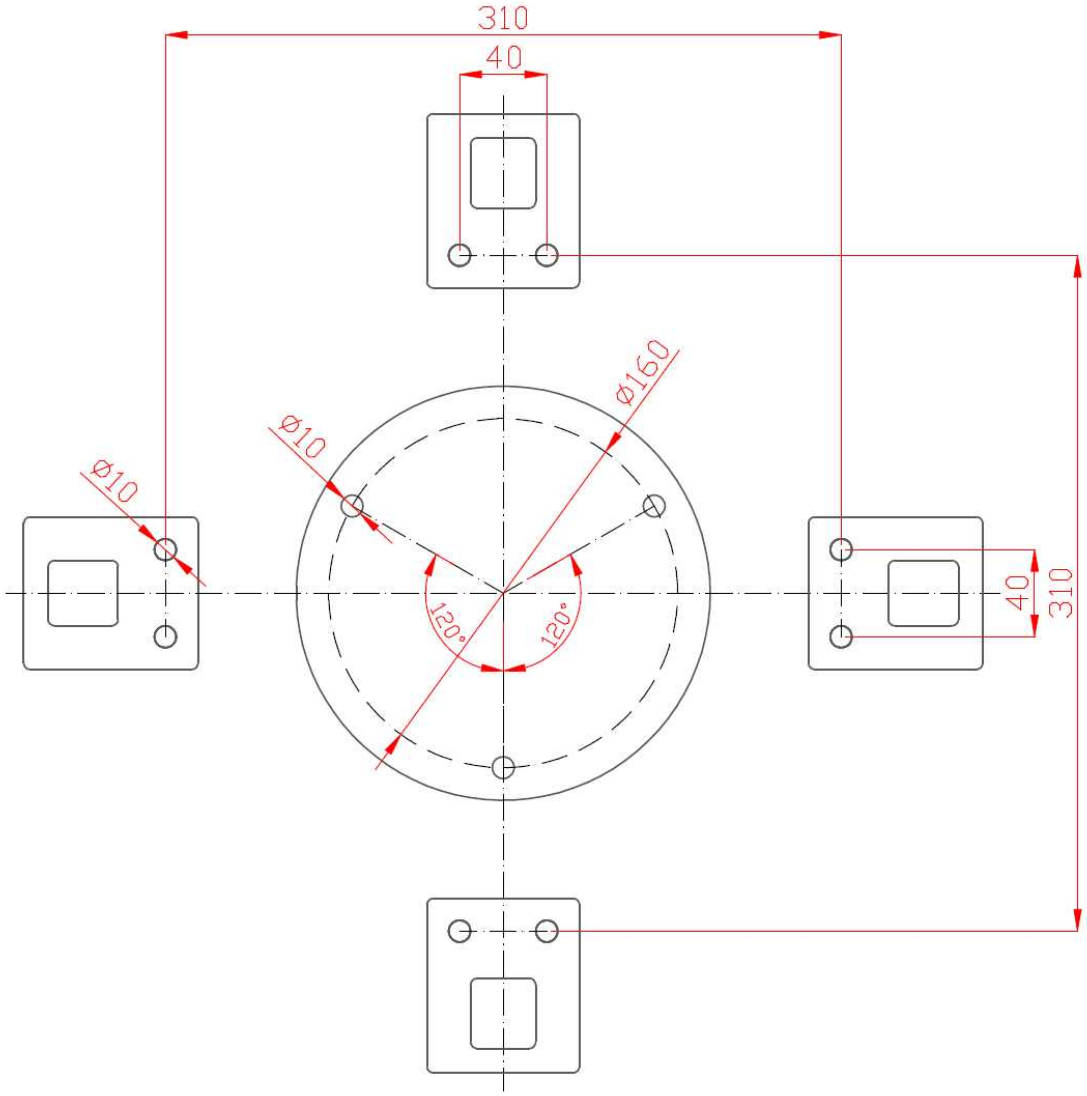
6. AWS R-clip 4 **pcs**



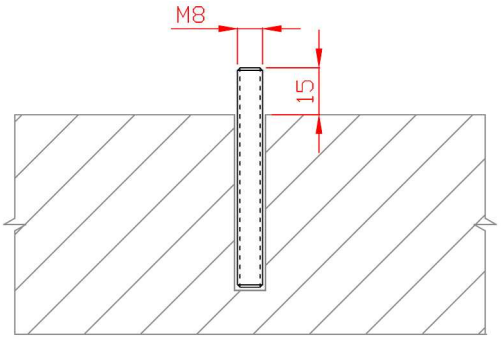
Assembly procedure:

1. Prepare base

- Prepare a stable **concrete base** with a precise horizontal surface, at least **450x450 mm**.
- Drill holes 10mm according to the diagram:

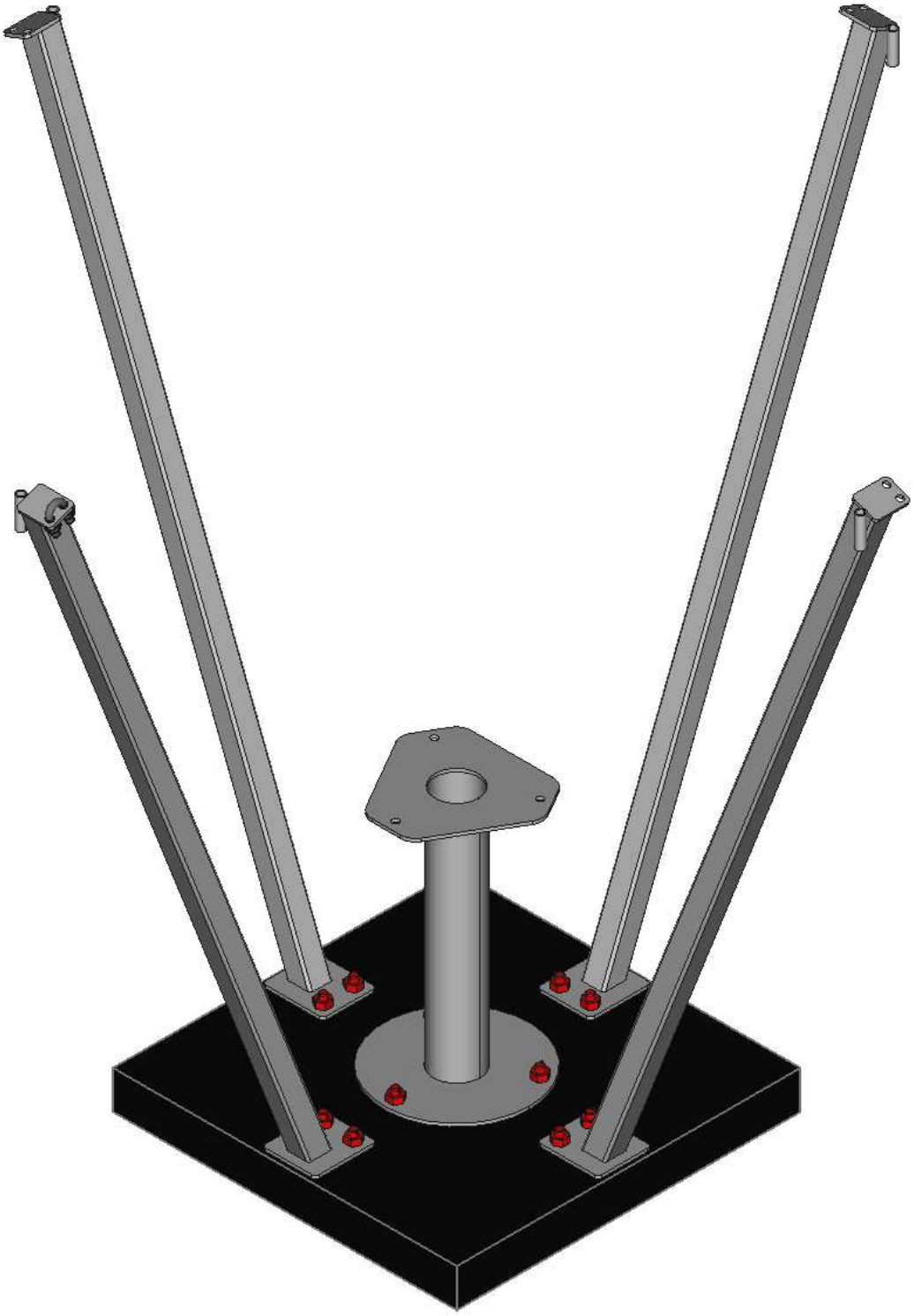


- Secure **11 pcs** of **M8 threaded rods** using a chemical anchor. Make sure that the threaded rod protrudes at least 15 mm above the concrete level.



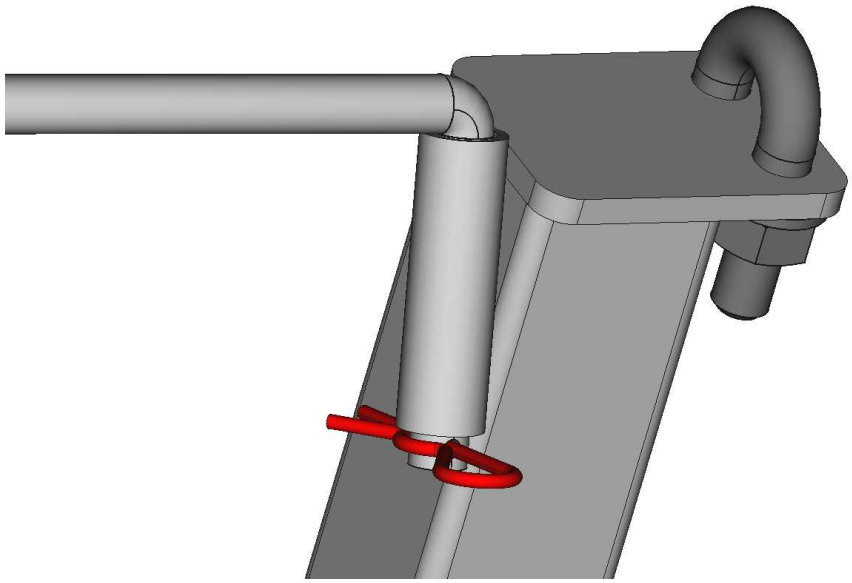
2. Assembly of AWS Legs and TRWS Stand

- After the chemical anchor has hardened, install the **AWS legs** (1) and **TRWS stand** (3)**.**
- Secure with 11 pcs **M8 nuts** and **washers**.
- Tighten with a 13 mm wrench.

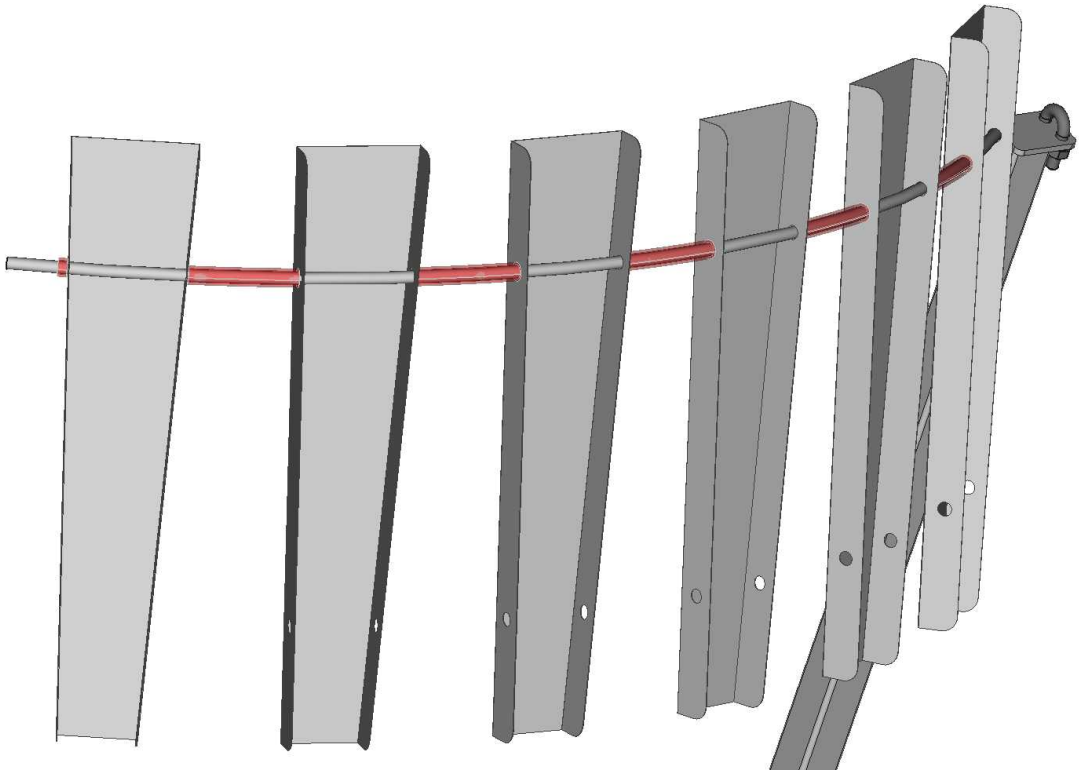


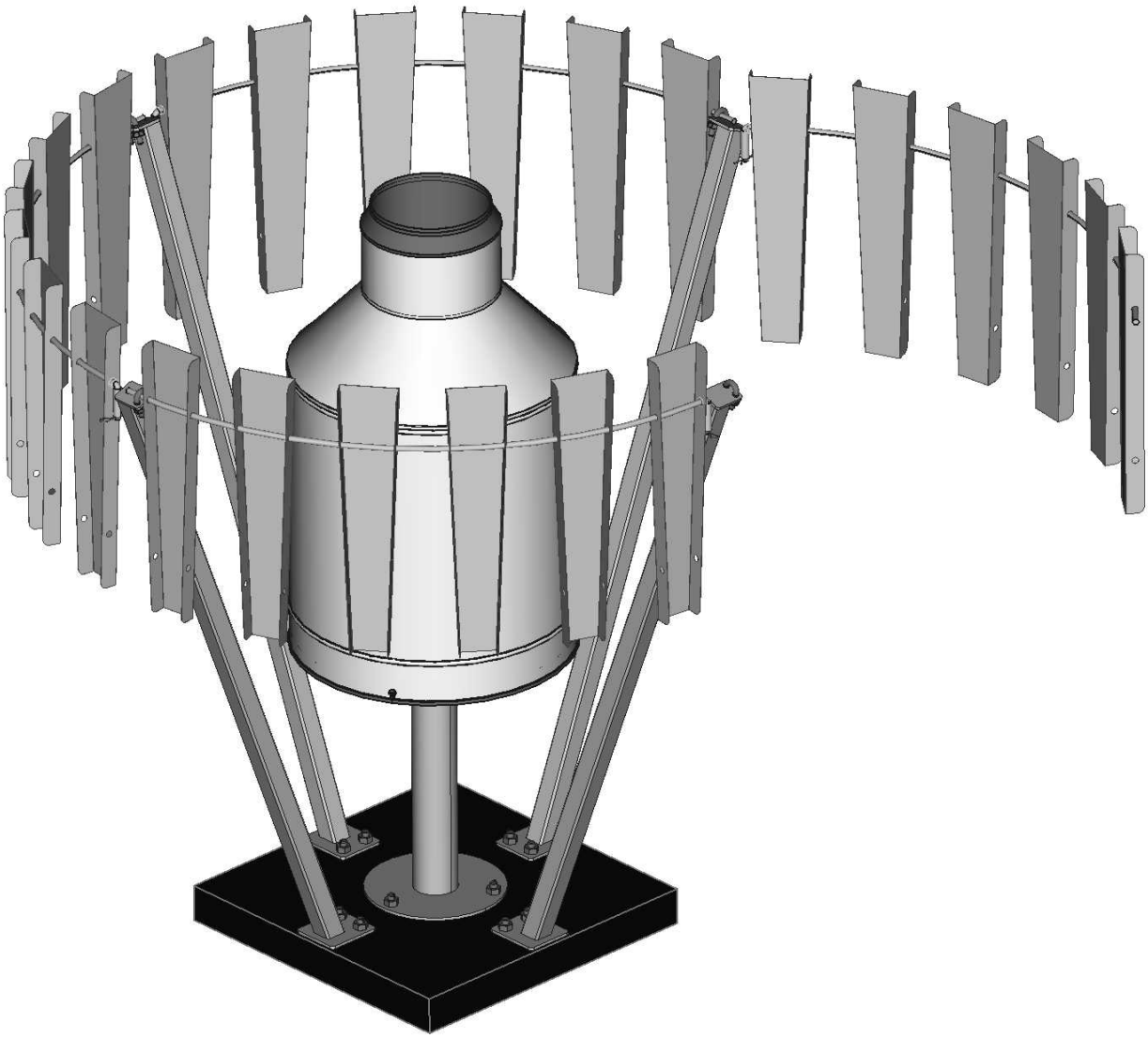
3. Assemble the Ring Segments with Leaves and Spacers

- Insert the **AWS ring segments** (2) into the hinges on the **AWS legs** (1).
- Secure with **R-clip** (6).



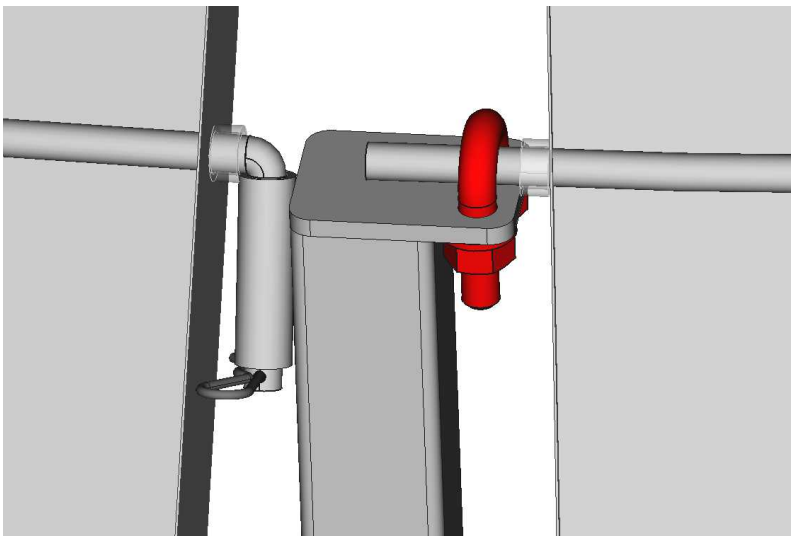
- On each **Ring Segment** (2), alternately attach **Leaves** (4) and **Spacers** (5). Use the holes at the wider ends of the Leaves for attachment. Between **six leaves**, use **5 pcs of long spacers** (5), and on both ends use **2 pcs short spacers** (5) each.
  Warning: Leaves edges are very sharp – always use gloves when handling!
- Ensure the flat sides of the Leaves face inward, towards the rain gauge.





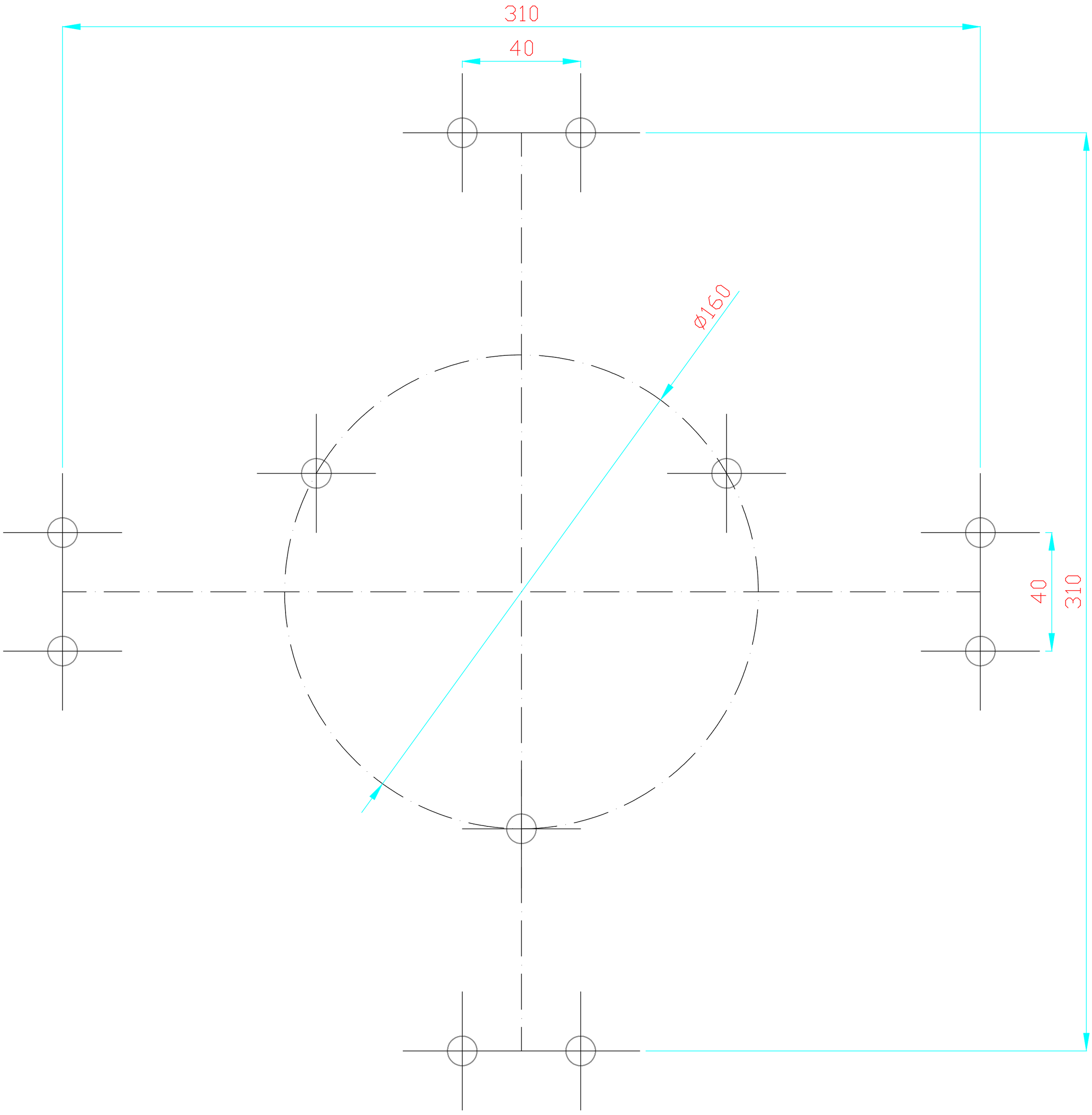
4. Securing ring segments

- By rotating the **Ring segment** at the hinge, insert the open end into the **U-clamp** on the other leg.
- Tighten with a 13 mm wrench.



Final Adjustments:

- Verify that all bolts are tightened and the structure is stable.
- Ensure the Leaves are evenly spaced and properly aligned for optimal wind shielding.
- Make sure the stand is securely fastened and anchored to the ground to prevent the entire assembly from vibrating in the wind.



MPS - System s.r.o.	SIZE: A2
Name: AWS_ALTER_WINDSHIELD	Date: 20.01.2025
Material: -	Drawing: 1/1
Type: AWS_ALTER_DRILLING_DIAGRAM	1:1