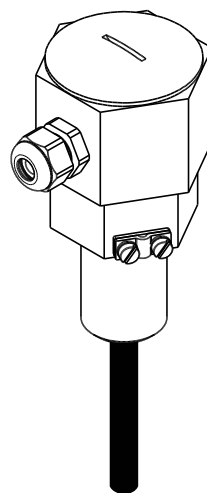# 1. Considerations for mechanical installation

- AB Liros Electronic shall not be held responsible for any damage to the bin, grain, or other equipment that may arise in connection with the temperature measurement. Always consult the bin manufacturer about strength capabilities.

- The cable suspension must be able to withstand the drag of at least **25 kg per meter cable** for the GWSL1100 emperature sensor cable and at least **50 kg per meter** for the GWSL2100 emperature sensor cable when the bin is being emptied. Consult the bin manufacturer.

- Metal supports are useful to distribute the force over a larger area on metal roofs. *See Illustrations 1 and 2*.

- Steel plates are recommended in **concrete silos** or **bins with wooden roof**, which prevent the cable and suspension from digging into the concrete or wood structure.

- The temperature sensor cables should be anchored in the bottom of the bin to prevent them from drifting out to the side wall when the bin is being filled. The tensile strength of the mount must not exceed 100 kg for the GWSL1100 and 200 kg for the GWSL2100. The temperature sensor cable can be attached to the floor (illustration 4), to the wall or, if multiple lines are mounted in the silo, between the individual temperature sensor cables (illustration 5).

- Weather protection must be used when mounting the temperature sensor cables outdoors. See document "***Installation instructions for cable suspension protective cap***."

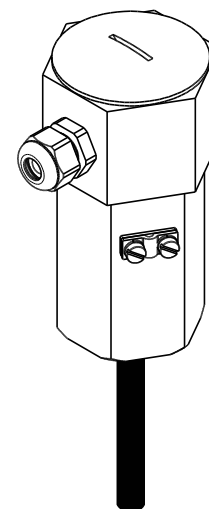- Make sure the temperature sensor cables are accessible for maintenance.

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2. Cable suspension types
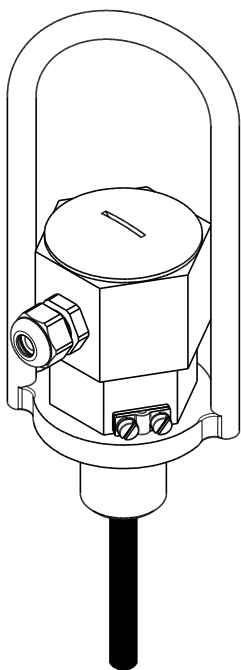
| Cable suspension with loop | Floor mount suspension | Pipe mount suspension |

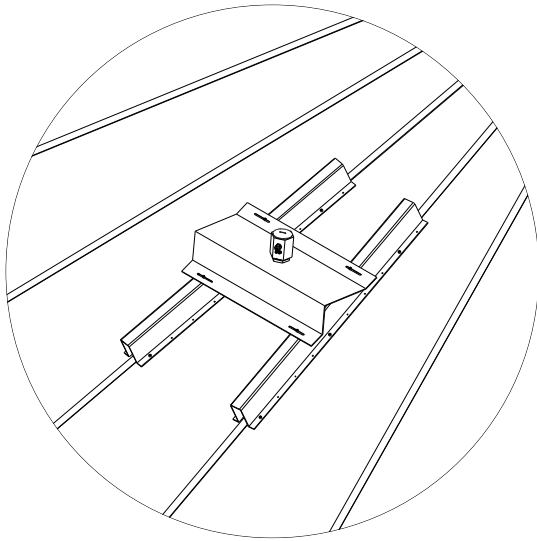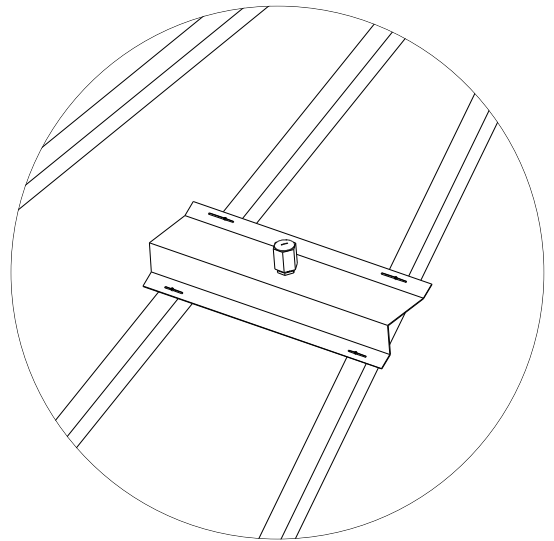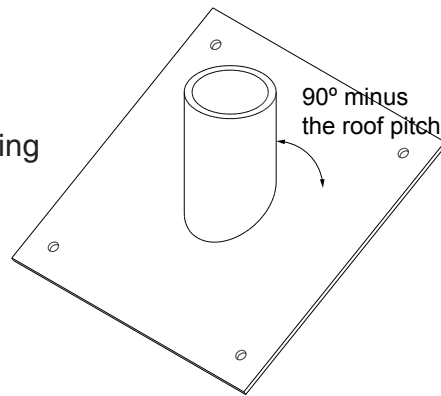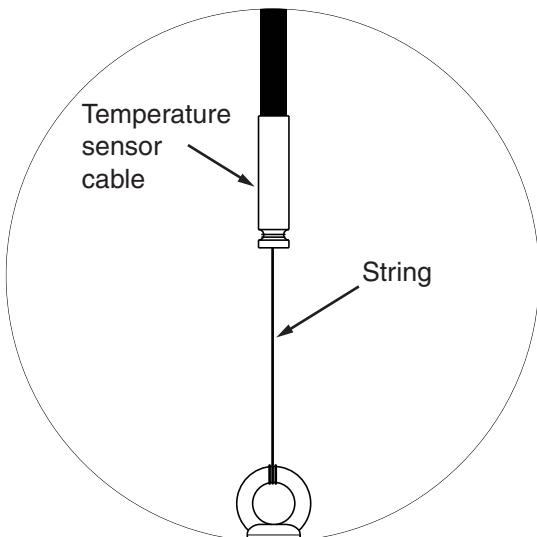## 3. Roof reinforcement examples

Illustration 1

Illustration 2

Illustration 3:
To prevent rainwater from getting into the bin, a low pipe stub is useful in the ceiling mounting examples above.

90° minus the roof pitch

4. Examples of how to attach the temperature sensor cable to the bottom of the bin

Temperature sensor cable

String

Illustration 4

Temperature sensor cable

String

Illustration 5

C240A00_Mechanical_Installation_GWSL