

# Installation Instructions

## RoofTech Double-Tube Holder



In regions with large snow masses to be expected, on objects with steep roof slopes or also in front of solar systems, an extra high snow guard is necessary and often locally prescribed. The stable RoofTech double pipe holder made of 3mm stainless steel in combination with the S-5! Mini clamps provide a safe snow guard system. The assembly is simple and the lower pipe lies optimally directly on the seam. The upper tube is up to 16cm above the seam, depending on the type of profile.



The RoofTech double tube holder made of stainless steel can be mounted on all mini clamps of S-5!. It is therefore suitable for all common types of seams and materials. Also on copper double folded seams.

### Installation:

- Loosely pre-assemble the double tube holder with the M8 stainless steel screws through the slotted holes on two S-5! mini clamps suitable for the fold type.
- Position the double tube holder with the mini clamps correctly on the seam.
- Insert commercially available 32/2 mm tubes through the two holes and align the snow guard row.
- The set screws of the S-5! mini clamps must be tightened according to the mounting instructions of the S-5! clamps to the seam with a tightening force of 15-17 Nm. Some types of folds and clamps cannot be mounted on the clips or holders. Please note also the installation instructions of the S-5! Clamps.
- Tighten the M8 stainless steel screws with 30 Nm onto the S-5! Clamps to tighten the double pipe holders! Finally fix the S-5! Mini clamps.
- To prevent lateral displacement, each tube must be fixed once to one of the double tube holders with a screw through the screw lug.
- Between the pipes (recommended length max. 3m) in a row, a sufficient distance must be provided for the thermally induced length change of the pipes.
- In order to prevent ice or snow plates from slipping off, additional ice stoppers (1 to 2 per share, spacing 30 cm) should be fitted between the lower pipe and the roof skin (available as an accessory).

### General Notes:

Please follow legal and official requirements for snow retention! Depending on the roof pitch, height above sea level or snowiness, suitable snow guard systems are prescribed and must be calculated and designed professionally. With the snow guard system, the push effect of the snow lying on the roof is to be prevented by one or more rows of snow guards covering the entire area. The decision on the dimension and design of a snow guard system depends on the use and location of the building, and responsible therefor is always the owner of the building. In case of doubt, a structural engineer should be consulted to determine the loads and the dimensioning of the snow guard system.

Assumption is that the determination has been made that the roof to which the snow retention and the S-5! clamps will be attached is structurally adequate. Any loads imposed on the snow retention and S-5! clamps will be transferred to the roof panels. Panel seams must have sufficient flexural strength to carry these loads. Roof panels must also be adequately attached to the building structure, and the structure must be sufficient to carry these loads. The makers and distributor of the RoofTech products and the S-5! clamps make no representations with respect to these variables.

It is the responsibility of the user and/or installer to verify this information, or seek assistance from a qualified design or structural professional, if necessary. The user and/or installer of these parts is responsible for all necessary engineering and design to ensure the snow retention and S-5! clamps have been properly spaced and configured. Due to the many variables involved with specific products, climates, snow fall and melt phenomena, and job particulars, the manufacturer and supplier cannot and does not express any opinions as to the suitability of any RoofTech- and S-5!- assembly for any specific application and assumes no liability with respect thereto. The user and/or installer bears also the responsibility not only for the professional installation, but also for the roof on which he is mounted. The user and/or installer must always clarify in advance the application possibilities and application of our products in connection with the other used materials and products at the single project. The snow guard systems are not suitable as fall protection.

The responsibility for the assembly and the applications is in principle not accepted from RoofTech GmbH and S-5!.

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