

IntraSole CL

Frequently asked questions (FAQs)



Why is the IntraSole system so complicated and has so many components?

The system is designed to use the module surface as impermeability layer, i.e. should a module be removed, the roof would no longer be impermeable, as in case of the glass of a windows. This is the technical mandatory requirement in France to obtain the highest electricity feed-in tariff.

What about the ventilation under the modules?

The optimal ventilation of an in-roof system can never be obtained, as in case of an on-roof one. Furthermore, since in case of a residential installation the surface of the PV-generator is relatively small, any ventilation is only passive because the gradient of pressure is not sufficient to allow an active ventilation. In order to maximise this ventilation we have designed IntraSole CL to maintain a volume of 200cm³ per m² of module surface under the modules. The shape and the design of the lower parts of our system allows air circulation also in the bottom part of it. In order to facilitate ventilation we also recommend the installation of tile catflaps in the upper part of the roof.

What is the minimum roof inclination for an installation?

The minimum roof inclination for the installation of IntraSole is 23°. Should the installer wish to work in low inclination down to 14°, it is imperative to install a flexible sarking membrane adapted to those low inclinations and subject to a technical approval. Such a sarking membrane shall be highly water vapour permeable (HPV - „Haute perméabilité à la vapeur d'eau“) qualified.

Is it possible to install in portrait and landscape?

It is only possible to install IntraSole CL in portrait mode.

Is a template frame needed for the installation?

The installation of IntraSole does not require any particular template frame. Although measurements are necessary, the best way to check the correct installation is to use a real module. The dimensions given by module manufacturers are with tolerances, it is recommended to have an actual module as reference.

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How to proceed with grounding?

The modules and the mounting system must be grounded, as specified in UTE c 15-712-1. This technical specification requires the independent grounding of each element, in a way that removing any component of the system would not affect the grounding of the remaining ones. Also the installation instructions of the modules must be followed, they describe for each model the requirements for their grounding.

Must profiles be cut according to the dimensions of the module?

We will first deliver profiles fitting exactly the dimensions of the modules to be installed, provided the compatibility of our system with this module is certified by the CSTB. After the launch of IntraSole CL and following market feedback, we might authorise our distributors to cut themselves some profiles at the desired dimensions.

What are the possibilities of the system to correct irregularities in the structure of the roof?

Installers are required to check the existing battens and to replace damaged or used ones. The system authorizes a correction of some irregularities of 10mm. A market study has revealed that were are the only ones who can offer such a solution.

What are the ground preparation work required for this system?

Only the Gutter LOWER needs to be prepared on the ground.

Are trainings available?

In reaction to changes in installation techniques and in order to maintain Renusol as one of the leaders on the French market with Intersole, we offer a training programme consisting in theoretical and practical parts. Each participant receives at the end of this instruction a certificate acknowledging their ability to install IntraSole CL. Besides, we plan to set up second level training to allow distributors to train themselves installers.

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