

IntraSole SR

Frequently asked questions (FAQs)



Can IntraSole SR be installed on industrial roofs?

This is planned for 2H2011 with different brackets and screws.

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

The system is not only designed to adapt to module frame thickness between 34 and 50mm, it uses 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.

Why are the dimensions of the INSR upper flashing adapters 15° so high?

This is due to the slope that is needed in this part of the installation, in order for rainwater to flow harmoniously above the modules. In case the upper flashing adapters would have steeper shapes, rainwater would “stagnate” in the upper part of the installation.

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 SR to maintain a volume of 200 cm³ per m² of module surface under them. 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.

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Is it possible to install in portrait and landscape?

Both types of installations are possible, however for the landscape mode we require our distributors / installers to obtain the approval of module manufacturers, bearing in mind that most of them do not authorize clamping only on the short side of their modules.

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.

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. Profiles with a length twice as the one of a module can also be delivered, it avoids any linking of profiles in case of installations with 2 rows. After the launch of IntraSole SR and following market feedback, we might authorise our distributors to cut themselves the profiles at the specified 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 the irregularities of 10mm. A market study has revealed that we are the only ones offering such a solution.

What is the ground preparation work required for this system?

Installers are required to prepare on the ground the upper modules (all modules except those of the bottom row) with cover and/or transition profiles. This preparation will allow the installation on the roof with only 2 persons, otherwise a third person would be required on the roof to have these profiles be fitted there. This preparation phase could also be performed at the distributor warehouse or at the facilities of the installer. Furthermore, having the preparation work be performed on the ground will reduce the effective installation time on the roof, thus the risk of penetration of rain water in the opened roof.

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 SR. Besides, we plan to set up second level training to allow distributors to train themselves installers.

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