

DATA SHEET

HEATING FOOTBOARDS FOR CHURCHES



HEATING FOOTBOARDS

Heating ecclesiastical buildings requires specific solutions, as these structures often feature large volumes, considerable ceiling heights and intermittent use. **Warmset radiant heating platforms** are designed to provide localized comfort in the areas occupied by worshippers, without the need to heat the entire internal space uniformly.

The system consists of a **Warmset heating element integrated into the platform**, generally installed above an insulating layer and beneath a suitable walkable finish, such as wood laminate flooring or another appropriate surface. The **lower insulation layer helps reduce heat loss** towards the existing floor and promotes the upward distribution of heat.

The operating principle is based on **electric radiant heating through the Joule effect**. The primary purpose of the platform is not to increase the air temperature inside the church, but to create a **localized comfort zone around the pews or seating areas**. Heat is mainly perceived in the lower part of the body, improving comfort during occupancy without generating significant convective air movements.

The platform temperature is managed through a control system equipped with a temperature probe. Depending on the selected configuration, the temperature can generally be set within a **range between 26°C and a maximum of 38°C**. The probe monitors the operation of the system and limits potential overheating, ensuring safer and more stable control of the heated surface.

The specific power output is determined during the design phase according to the dimensions of the platforms, the surface finish, the construction layers, the expected ambient temperature and the available electrical power. For this application, the standard **power output is normally between 250 and 300 W/m²**, subject to specific assessments based on the building conditions and the intended operating requirements.

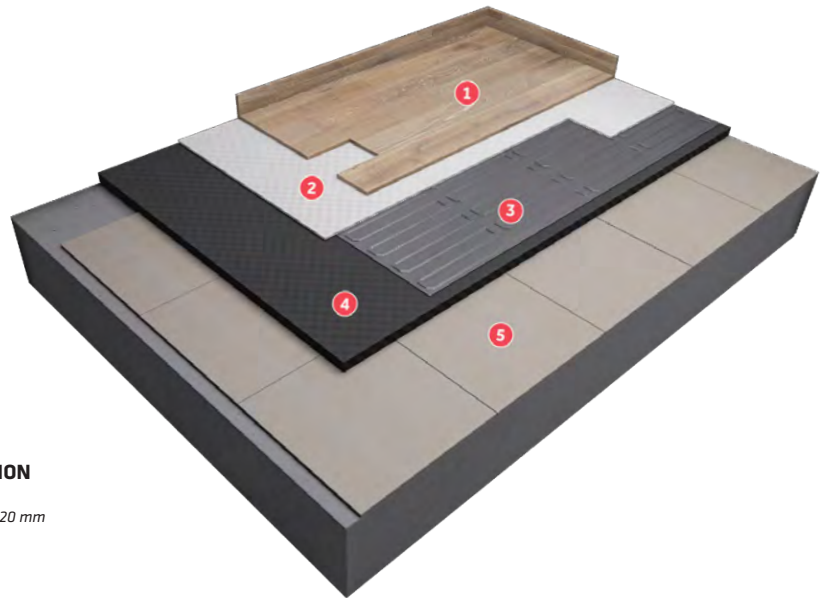
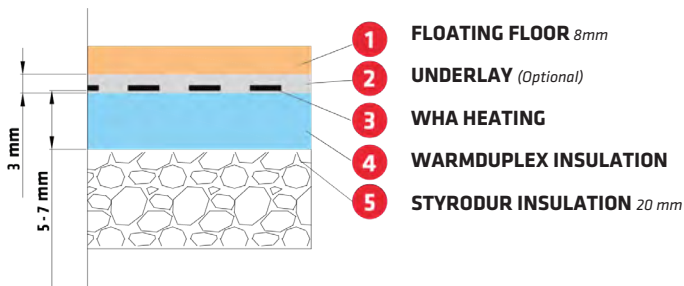
The system can be managed through a **programmable timer installed** in the electrical panel, allowing activation and shutdown to be scheduled according to the times of religious services. The installation can also be divided into separate zones, supplying power only to the areas that are actually being used and thereby optimizing electrical consumption.

Since the heating is localized and does not rely on the circulation of warm air, the internal air temperature does not undergo significant variations, except in the case of prolonged and extensive operation across large surfaces. This characteristic may be **particularly beneficial in buildings containing frescoes**, artworks and historic furnishings, as it reduces effects associated with air currents, thermal stratification and the distribution of convective heat.

Warmset radiant heating platforms do not require boilers, pumps or hydraulic circuits. Installation and electrical connection must be carried out by qualified personnel, using protection and control devices correctly sized according to the installed power and the applicable regulations. The **dimensions** and finishes of the platforms **can be evaluated according to the arrangement of the pews**, the areas to be heated and the architectural constraints of the building.

HEATING FOOTBOARDS

HEATING FOOTBOARDS IN FLOATING FLOOR



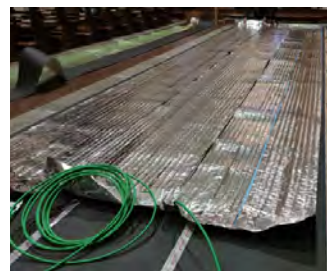
INSTALLATION PHASES



Laying of styrodur insulation and chipboard frame



Warmduplex foam insulation installation



Heating installation with aluminum support



Laying of flooring and closing profiles

APPLICATIONS

