

INSTALLATION PROTOCOL SHEET

2_ INSTALLATION ON UNDERFLOOR HEATING

The thermal resistance of ALSAFLOORING laminate floor coverings allows installation over low temperature underfloor heating systems, electric ERH (Electric Radiant Heating) and H/C UFH (heating/cooling underfloor systems).

A. Installation conditions

The floor covering must not impair the heating function, meaning that the heat generated by the underfloor heating must be able to diffuse freely into the room and must not be hindered by an excessively insulating layer. According to standard EN 16354, installation on **underfloor heating** is possible only if the total thermal resistance (underlay + laminate flooring) is less than **0,15 m² K/W**.

Example:

- Laminate flooring: **0.0967 m²K/W**
- Underlay: **0.0158 m²K/W**
→ Total = **0.1125 m²K/W** → **Compatible**

- Laminate flooring: **0.0967 m²K/W**
- Underlay: **0.07 m²K/W**
→ Total = **0.1667 m²K/W** → **Not compatible as heat transfer would be too restricted.**

Installation on **heating/cooling underfloor systems** is accepted only if the total thermal resistance (laminate flooring + underlay) does not exceed **0.10 m²K/W**.

Reminder:

- *Thermal conductivity = the ability of materials to transmit heat*
- *Thermal resistance = the ability to resist heat.*

After natural drying of the subfloor (in the case of levelling compound, screed installation or surface smoothing), the heating system must be brought up to temperature for at least 3 weeks before installing the laminate flooring.

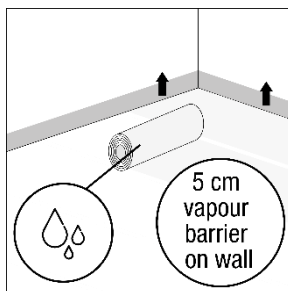
The heating must be switched off 48 hours before installing the laminate flooring and must only be gradually restarted at least one week after installation, increasing by 5°C per day until the desired temperature is reached, and after 3 weeks in the case of ERH systems. On the first day, heating must not exceed two hours; afterwards, heating periods may be increased by no more than one hour per day, within the limits imposed by the regulation system.

In accordance with standard NF P 52-307 (NF DTU 65.14) or CSTB booklet no. 3606 “Electric radiant floor heating”, installation may be carried out after validation of the heating start-up report (CPT PRE – common technical specifications), or according to standard NF P 52-302 (NF DTU 65.7).

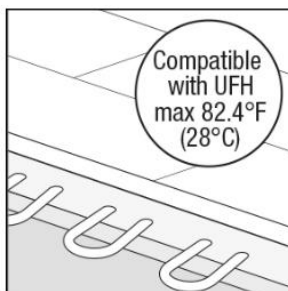
B. Installation

Install the appropriate Access' underlay before laying the ALSAFLOORING laminate flooring.

The underlay must include an integrated vapour barrier with an SD value greater than 75 m (e.g. Alsa Hydro, Alsa TS and Alsa Silver). Otherwise, an SD>75 m vapour barrier such as Alsaprotect must be installed on the subfloor before laying underlays such as Floorisol, Conforlay and Alsa-Primo.



It must cover the entire subfloor, preferably laid parallel to the boards, floating, edge to edge without overlapping, and may be fixed between strips with adhesive tape if necessary. The underlay should be turned up 5 cm along the wall to prevent capillary moisture rise.



The surface temperature must never exceed 28 °C.

The system must include a device limiting the temperature of the heating fluid to 50°C (this device may be integrated into the control system).

C. Alsaflooring product values.

Thermal resistance of Access' underlays	
Products	m² K/W
Alsa Hydro	0,045
Alsa Primo	0,0423
Alsa Silver	0,045
Alsa TS	0,0158
Floorisol	0,07
Conforlay	0,0343

Thermal conductivity of Alsaflooring laminates	
Products	m² K/W
7 mm laminate flooring	0,0544
8 mm laminate flooring	0,0661
10 mm laminate flooring	0,0826
12 mm laminate flooring	0,0967