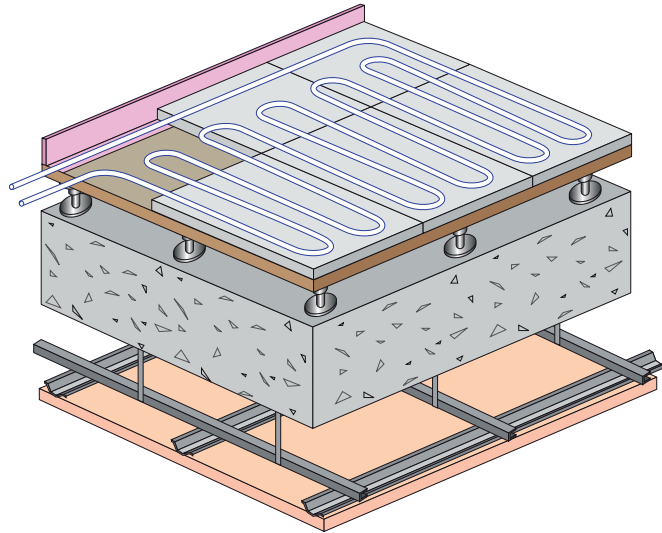


RAF14 – 14mm Fastflo™ in pre-routed AcoustiPanel™14 over a raised access floor – 26mm height build-up



AcoustiPanel™14

This tailor-made acoustic underfloor heating system offers:

- Underfloor heating which is fitted above the structural raised access floor deck
- Fast heat transfer and high performance heat output of up to 96W/m²
- Unique, practical solution for raised access floors
- Low profile UFH solution with just 26mm height build up
- Full design performance indemnity
- Sustainable product made with minimum 60% recycled gypsum board

A straightforward installation

- Fully tailored design incorporating bespoke, interlocking tongue and groove panels for optimal heating and pipework layouts
- Installed directly over a structural raised access floor deck
- Quick drying self-levelling skim reduces impact on project schedule – dries overnight, floor finishes can be fitted after just 72 hours
- A single manifold serves up to 100m², for a quick installation that uses less material
- Robust, step-by-step Nu-Heat installation manual, including complete mechanical, electrical and layout drawings

ACOUSTIPANEL™14 OVER A RAISED ACCESS FLOOR**Supplied by Nu-Heat**

3–4mm skim coat

23mm T&G AcoustiPanel™14

14mm Fastflo™ tubing

Flanking/isolation strip

Not illustrated

- Castellated panel
- QuickSet self-levelling compound

Supplied by others

Structural deck

Raised access floor structure

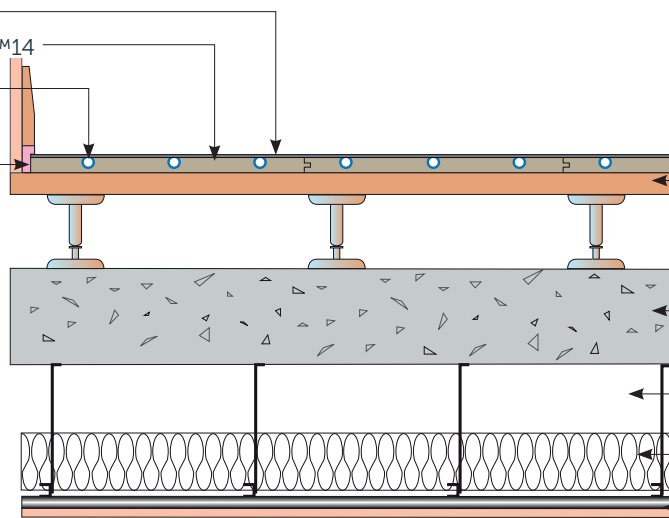
Concrete deck

Ceiling void

100mm high density quilt

MF ceiling system

Ceiling structure to meet acoustic/fire criteria as required

**DESCRIPTION**

RAF14 is an ideal solution for new-build and renovation apartments, providing an easy-to-install, efficient and discreet underfloor heating system.

Produced in partnership with specialist manufacturer, Knauf, the RAF14 floor construction comprises a pre-routed gypsum board into which Nu-Heat's 14mm Fastflo™ tube is neatly installed.

High thermal conductivity and an extremely stable floor finish are achieved thanks to a combination of tongue and groove panels topped with a self-levelling skim.

FLOOR HEATING TUBE

A room or heating zone will use one, or more, coils of 14mm Fastflo™ pipe, providing an even spread of warmth across the floor. The flexibility of Fastflo™ also aids installation.

INSULATION

Sufficient insulation should be present to meet the requirements of Part L of the Building Regulations.

UNDERFLOOR HEATING EFFICIENCY

Setting the room thermostat 1–2°C lower achieves the same comfort levels as with an equivalent radiator system because the heat is mostly radiant, meaning air convection currents are minimised and heat loss by natural ventilation reduced. AcoustiPanel™14 is a perfect partner for modern gas, oil and LPG condensing boilers, it can also be used with a heat pump in new-build projects.

FLOOR STRUCTURE

Individual AcoustiPanels™ with a glued tongue-and-groove are laid over a structural raised access floor deck. Once all floor heating pipe is installed, panels are grouted and a 3–4mm skim coat of the self-levelling compound is applied. Any areas of castellated panel (if specified) are also covered with self-levelling compound. The skim coat can be walked on after 8 hours/overnight and coverings can be fitted after just 72 hours.

Virtually any covering can be applied over AcoustiPanel™14, but using less thermally resistive coverings ensures greater heat output and faster warm up times.

WARRANTIES/INSURANCE

Manufacturer's warranty: all UFH tube supplied by Nu-Heat is covered by a 50-year warranty, the first 10 years of which are insurance-backed.

Product liability: Nu-Heat maintains product liability insurance to £5 million.

Professional indemnity: As Nu-Heat's design service is integral to the operational effectiveness of the UFH system, the company holds professional indemnity insurance of £5 million to cover all aspects of our consultation and design services.

www.nu-heat.co.uk/floorspecs



Online
www.nu-heat.co.uk



Freephone
0800 731 1976 or 01404 549770

AcoustiPanel™ specification	AP14
Straight panel dimensions:	600 x 1200 x 23mm & 600 x 600 x 23mm
All turns panel dimensions:	600 x 600 x 23mm
Area:	0.72m ² per board; 0.36m ² per board
Density:	1160kg/m ³ min.
Manufactured to:	BS EN 15283-2:2008
Material (routed panel):	23mm gypsum fibreboard
Routing:	ø14mm @ 100/150/200mm centres
Skim coat:	3–4mm Nu-Heat QuickSet self-levelling compound
Additional mass:	
Straight/double/triple end returns	33.0 kg/m ²
100mm circles	34.8 kg/m ²
150/200mm multi-turns	38.7 kg/m ²
Castellated panel	41.7 kg/m ²

Heat output (m² K/W)

Water temperature	R=0.05 (tile)	R=0.1 (timber, glued)	R=0.2 (carpet/underlay)
45 °C flow (40 °C ave.)	74 W/m ²	56 W/m ²	36 W/m ²
55 °C flow (50 °C ave.)	100 W/m ² *	75 W/m ² *	54 W/m ²

Nominal value; output values vary depending on specific floor finish.

*Limited by floor covering surface temperature limit

