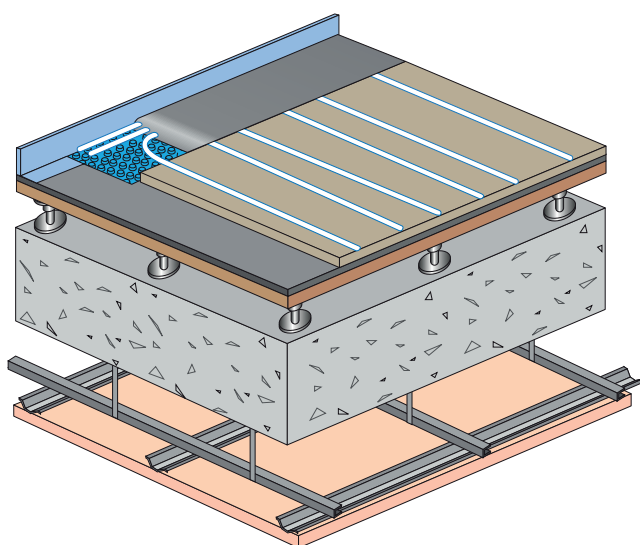


## ALPRAF10 – raised access floor with 10mm Fastflo™ in pre-routed LoPro™10 panel in a raised access floor on a concrete slab



### ALPRAF10

- Ideal for use in commercial conversions
- Fast and cost-effective – no need to remove the existing raised access floor
- Combination of LoPro™10 and IsoRubber-UFH-NH can assist with meeting the acoustic requirements of Part E
- Enhanced thermal conductivity and 150mm pipe centres offer increased heat output and thermal spread across the floor finish
- Quick and easy to install over existing raised access floor
- Improved acoustic performance and full design indemnity
- Ideal substrate for all floor finishes, including tile and stone
- Sustainable – LoPro™10 panel has up to 50% recycled content.

For site-specific K11 floor cassette detail please contact Nu-Heat.

### TECHNICAL SPECIFICATION

#### Typical ALPRAF10 acoustic data

Typical benefit of IsoRubber & LoPro™10 layers over existing structure:

Airborne	7dB improvement
Impact	10dB improvement

#### LoPro™10 panel

Weight	16.7kg/m <sup>2</sup>
Density	1100kg/m <sup>3</sup> min.
Standards	Manufactured to BS EN 15283-2:2008
Material	Gypsum fibre board
Dimensions	1200 x 600 x 15mm
Area	0.72m <sup>2</sup> per board
Routing	ø10mm @ 150mm centres

### HEAT OUTPUT

(m<sup>2</sup> °K/W)

Water temp	R = 0.05 (tile)	R = 0.1 (timber)	R = 0.2 (carpet)
45 °C flow (40 ° average)	74 W/m <sup>2</sup>	56 W/m <sup>2</sup>	36 W/m <sup>2</sup>
55 °C flow (50 ° average)	100 W/m <sup>2</sup> *	75 W/m <sup>2</sup> *	54 W/m <sup>2</sup>

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

\*Limited by floor covering surface temperature limit.

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Acoustic performance data is taken from tests carried out at the Sound Research Laboratories, Sudbury, in accordance with the relevant BS EN ISO standards. Laboratory performances stated are specific to the above system only, inclusive of all elements shown and correct installation and should be used for guidance only.

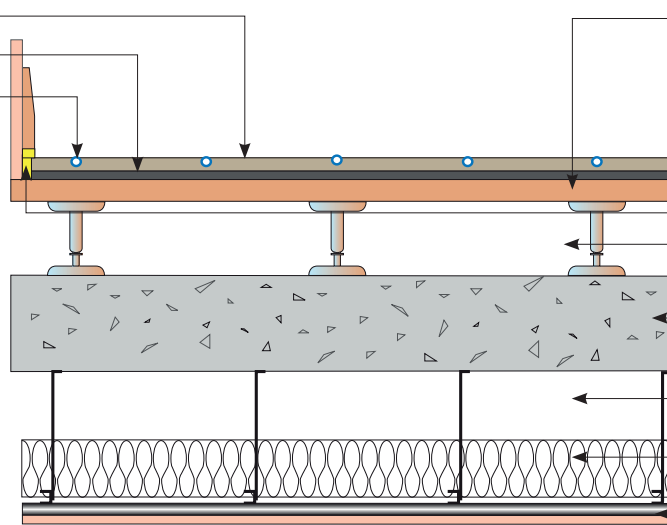
The information contained in this publication is believed to be current and accurate as at the date of publication but no warranty, express or implied is given. Updates will not be issued automatically.

**Supplied by Nu-Heat**

15mm LoPro™10 panel  
 5mm IsoRubber-UFH-NH  
 10mm Fastflo™ tubing  
 Castellated panel/  
 LoPro™QuickSet  
 self-levelling compound  
 Edge isolation strip  
 (not illustrated)

**Supplied by others**

Existing floor deck  
 Knauf perimeter flanking strip  
 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**

LoPro™10 is a pre-routed 15mm gypsum panel that can be laid over new and existing floors. A castellated tray is fitted around the edge of the room to enable Fastflo™10 pipe to be conveniently fed into the panel and back to the manifold or zone distributor. The castellated tray is designed to guide the pipe through 180° bends and to enable multiple runs to be neatly and securely fixed.

**FLOOR HEATING TUBE**

Typically, a room or heating zone will use several coils of 10mm Fastflo™ pipe, each of shorter length than a single coil of larger diameter, providing a more even spread of warmth across the floor. Fastflo's flexibility also aids installation.

**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. LoPro™10 is a perfect partner for modern gas, oil and LPG condensing boilers.

**FLOOR STRUCTURE**

Individual LoPro™10 panels are laid in brick-bond format over a 5mm layer of IsoRubber-UFH-NH. A castellated tray is used to carry pipe to the manifolds (the 5mm IsoRubber should be glued to the deck in these areas). Once all floor heating pipe is installed the castellated tray is filled with the self-levelling compound supplied.

Virtually any covering can be applied over LoPro™10, but using thermally conductive coverings ensures greater heat output and faster warm up times. See the *LoPro™10 Specification Guide* for more details.

**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.

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