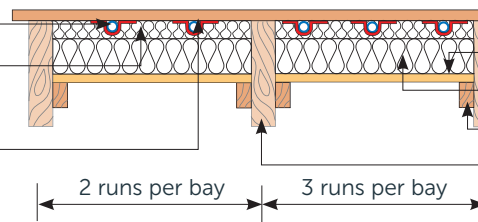


## DPJG14 – 14mm Fastflo™ in low-profile diffuser panels installed between ground floor joists

### Supplied by Nu-Heat

14mm Fastflo™ tubing  
Nu-Heat TriPanel –  
25mm EHD polystyrene  
Heat transfer plates



### Supplied by others

Floor deck (see below)  
9mm plywood support decking  
Floor insulation (see note below)  
50 x 25mm timber battens  
Joists at 400mm centres

### FLOOR HEATING TUBE

Nu-Heat's 14mm Fastflo™ tubing is extremely flexible which means that it can easily be installed around the numerous turns typical to any design. The use of multiple, shorter Fastflo™ coils within each temperature control zone means the tubing is installed at closer centres to ensure a more even heat distribution.

### INSULATION

For ground floors or floors over unheated areas, at least 70mm of 'Celotex' type rigid floor insulation should be placed in the joist void. Over other areas 50mm, or to current Building Regulations will be acceptable. Check with the architect whether Part L of the Building Regulations requires thicker insulation to be used.

### FLOOR DECK

Laminate floors thicker than 20mm may be laid on up to 3mm thick non-felt underlay directly onto the underfloor heating. Areas to be tiled can be covered by a plywood deck instead of chipboard. A quality two-part adhesive may then be used for fixing the tiles.

For other areas 18 – 22mm chipboard deck may be used. The overall thickness of the deck should not exceed 30mm unless this has been agreed with a Nu-Heat Design Engineer.

### FLOOR COVERINGS

Tiles, stone and thin laminates offer benefits such as improved response time and higher heat output. Carpets can be used but the Tog value when combined with performance underlay should be no greater than 2.5. If the system is powered by a heat pump greater restrictions apply. Natural timber with a low moisture content can be used, but care must be taken to properly acclimatise the wood by following manufacturers' instructions.