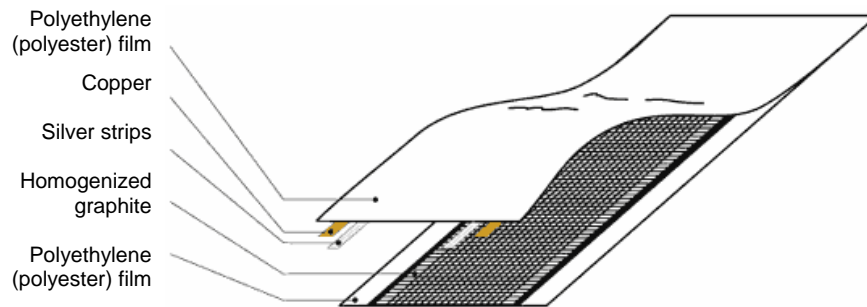


Technical data & specifier guide - Carbon Heating Film

Technical data -

Varme carbon heating elements are composed of a uniformed carbon coating over a polyester film. Electrical energy is brought into the film from factory connected 'cold' cable leads, which connect to the copper strips & here it is transformed without loss into thermal energy.

- Description - Laminate polyethylene (polyester) carbon coated heating elements.
- Country of manufacture - United Kingdom
- Supply - 230/240 volts AC
- Standard power density - 130W/m² (available from 60-200w)
- Individual element rating 10 amps
- Maximum rated surface temperature 80 deg C
- Connection - in parallel to thermostat with floor sensor
- Standard widths - 53 cm & 40 cm
- Approvals CE & BEAB approved
- Element length - max 35-50 linear metres



- Recommended power density between 50% - 100% increase on the buildings net heat loss/m² – this will facilitate reasonable warm-up times from cold - usual output for domestic installations 80-130W/m² over a typical room/building.
- Suitable for primary heating or comfort heat source
- Recommended control - digital thermostat with floor sensor
- Factory made cold cable connections from elements connected together in parallel at connection box before thermostat.
- Cold cables 1.5mm² double PVC insulated cable as required for underfloor installation. Outer insulation, EU standard colouring (Blue & Brown)
- **Installation below timber or laminate floating floor** – 6mm Depron insulation is laid out & completely covers existing floor (concrete or timber) carbon film is laid directly on top of the Depron layer & covered with a moisture barrier before wood or laminate floating floor is laid.
- **Installation below carpet or vinyl or undetermined floor covering** – As above, but with the addition of a stable overboard (7mm Heat-Pak recommended) before the final floor covering is laid.
- **Installation as 'void heating'** onto insulated joists at 400mm centres (usual output 130w/sqm in this construction) floor covering can be chipboard, plywood or *hardwood flooring. Recommended insulation Kingspan or Celotex with 6mm Depron overlay.
- All circuits must incorporate 30mA RCD protection
- Warranty period 10 years from date of installation.

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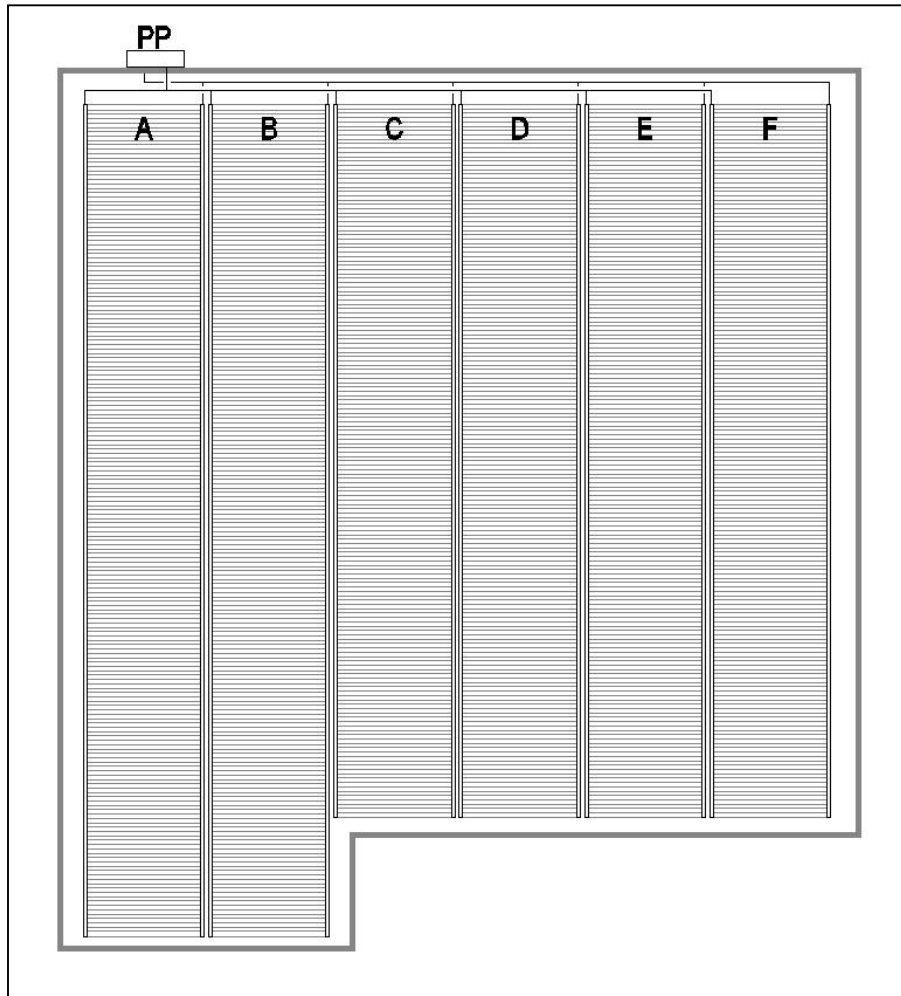
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Example layout of elements:

All systems supplied, with elements individually labelled & a corresponding floor plan.



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