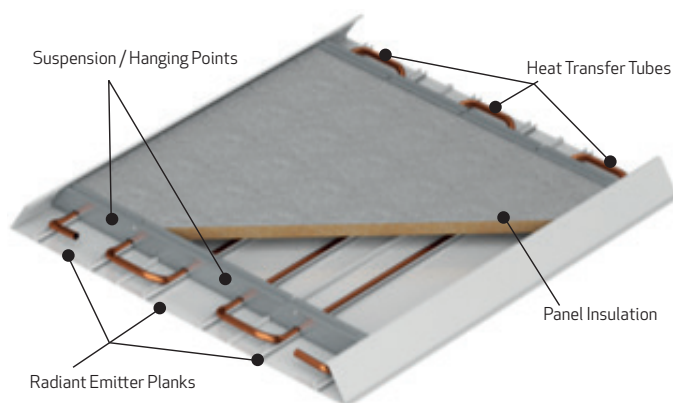


Technical Specification: Smart Radiant Panel

Product Description

Merriott **Smart** radiant panels are constructed of aluminium extrusions with six-pass copper waterways, meaning they are quick to respond and lightweight to install, yet robust in design whilst achieving market-leading output.

Manufactured in the UK, the Merriott **Smart** radiant panel is designed for suspended grid ceiling applications and can be used in both standard and micro-tee ceiling grid systems.



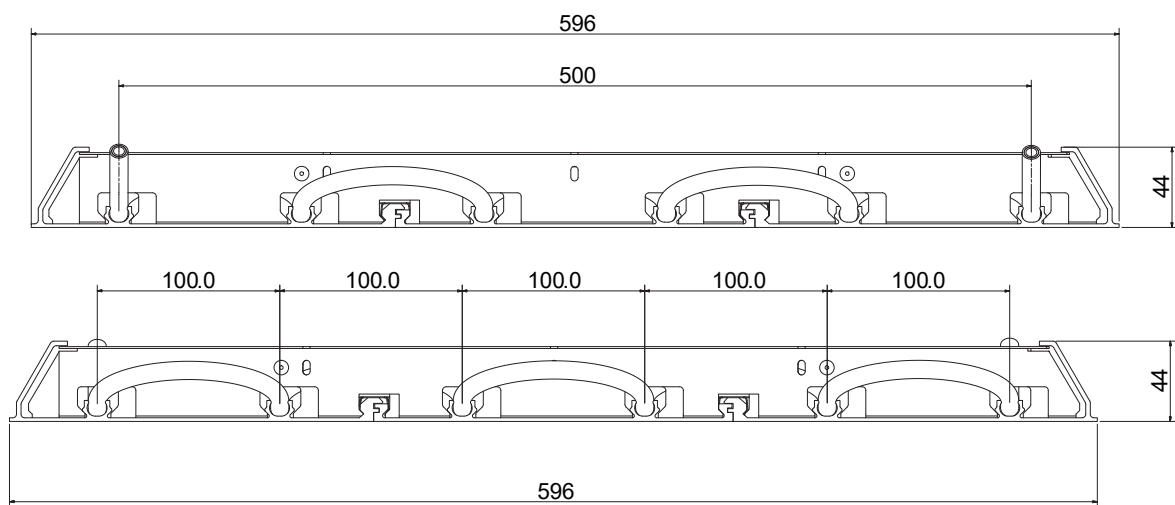
Applications

- T-Bar application.
- Free hanging single module.
- Free hanging multiple modules.

Features

- Manufactured in the UK from high grade aluminium guaranteeing quick response times.
- Constructed of 2mm thick aluminium extrusions, with 10mm OD copper tube waterways (with same end flow and return connections) and 40mm thick grade A2 insulation (in compliance with EN 13501-1).
- Facia edge profile designed to sit on the T bar without obstruction from any adjacent frame cross member.
- Works within micro T system ceilings.
- High edge profile and interlocking suspension brace system reduces deflection.
- The copper waterways are pressed into the unique pipe carrier reshaping the copper to offer an increased thermal transfer, increased output and quicker response times.
- 10mm waterways assist in achieving turbulent flow on small panels with minimal flow rates.
- Certified outputs - All Merriott **Smart** radiant panels have been manufactured and tested in accordance with EN 14037-2.

- 10mm OD high-specification soft copper; pressed into oval pipe carrier whilst re-shaping the copper; ensuring increased thermal transfer and increased system efficiency.
- 2mm thick high-grade aluminium extrusion manufactured to EN 775-9, offering an excellent strength-to-weight ratio and quick response times.
- Six pass, one-piece copper meander manufactured in accordance with EN 12449, providing a high performance whilst providing re-assurance from potential leaks.
- Reinforced, open-ended flow and return connections as standard, suitable for compression or push fit connections.
- Outputs are tested in accordance with EN 14037 Part 2, certified by the University of Stuttgart.
- Non-combustible, foil faced mineral wool roll insulation to BS EN 13501-1 Reaction to Fire rating A2-S1.
- Each panel individually packaged in cardboard and shipped on pallets for protection in transit and delivery.
- Max operating temperature 90°C.
- Max test pressure 10 bar.
- Max operating pressure 7.7 bar.
- Flexible steel braided connection hoses available on request.
- Suspension Hanging wires available on request.



Installation

- All panels to be installed in accordance with the manufacturers recommended methods/guidelines.
- All final connections to panels to be via steel braided flexible hoses.

Warranty

- The Merriott **Smart** range of Radiant Panels is guaranteed for a period of five years with regards to defective materials and workmanship.

Cleaning

- The surface of the Merriott **Smart** range of Radiant Panels is best cleaned with an industrial vacuum cleaner to remove dust build up, surface soiling of the heavy duty powder paint can be removed with a damp cloth and mild detergent.

Warning Module Planks are Aluminium – Aggressive cleaners must not be used.

Operation & Maintenance

- The Merriott **Smart** range of Radiant Panels are part of a buildings heating system and will provide trouble free service provided the following procedures are implemented and the panels are thoroughly inspected, during commissioning and annual planned maintenance.
- The connecting heating system and circuit requires a through flushing before connecting the radiant panels, care must be taken to avoid system debris ingress within connecting copper meanders. After connection the system will require an additional flush and pressure testing, ensuring any leaks are remedy on connections / isolation valves.
- Radiant panel circuit system strainers must be removed and inspected / cleaned annually. The panels are heavy duty and resistant to light impact damage, in the event of heavy impact damage, radiant module connection pipework require inspecting to ensure clips are intact and cover plates are secure.