

MAARMO

INSTALLATION AND MAINTENANCE MANUAL (ELECTRIC) 



INDEX

1. GENERAL INFORMATION	2
1.1 Product information	3
1.2 General Warnings / Safety information	4
1.3 Datasheet	6
2. EQUIPMENT	6
2.1 Accessories provided with the radiator.....	7
2.2 Equipment needed	8
2.3 Installation procedure	10
2.4 Special notes for bathroom installation	11
2.5 Dimensions and footprint.....	12
2.6 Electric connections.....	16
3. INSTALLATION STEPS	18
3.1 STEP 1: Preparing the electrical plug.....	18
3.2 STEP 2: Installation	19
3.3 STEP 3: Wall mounted Installation	19
4. WARRANTY AND ASSISTANCE	21
5.1 Technical assistance	21
5. DECLARATION OF CONFORMITY	21

Material Characteristics

Maarmo products are crafted using recycled natural marble powder. This unique composition not only highlights the commitment to eco-sustainability but also gives each product its own distinctive appearance. The surfaces of these products display a series of irregularities, which should be regarded as inherent characteristics and key features of the product, rather than imperfections. These natural variations contribute to the individuality and aesthetic appeal of every Maarmo.

Product Handling Guidelines

When moving Maarmo products, it is essential to maintain proper handling procedures to protect the integrity and appearance of each item. Under no circumstances should the products be set directly on the floor. Instead, they must always be placed on the designated elements provided in the packaging. This practice ensures that the surfaces, which display unique natural irregularities, are preserved and safeguarded during every stage of handling

Safe Handling Procedures

it is imperative to move each item following practices like those used for handling marble slabs. This means that products should always be transported in the correct orientation—commonly referred to as the ‘cutting position’. By moving the products in this manner, you help preserve their structural integrity and maintain the unique surface characteristics that define Maarmo’s eco-sustainable craftsmanship.

1. GENERAL INFORMATION

1.1 Product information

Dear Customer,

Thank you for choosing MAARMO Range By INTELLI HEAT.



Before installing your MAARMO electric radiator, please take a moment to read this manual carefully. It contains essential information about the product, proper electrical installation, safety guidelines, and warranty details.

MAARMO electric radiators feature a patented, fully eco-sustainable technology that radiates heat evenly throughout your space. Our production process is rooted in environmental responsibility, repurposing marble waste from processing facilities. This marble powder is skilfully agglomerated with water, specialized binders, and thickeners developed by our artisans.

Our mission is to care for people by bringing warmth and wellbeing into their environments, guided by the creativity and dedication that define Made in Italy excellence. Comfort and quality of life are the driving forces behind our passion and ongoing innovation. We are committed to using recycled materials and advanced production techniques where architectural design and environmental

respect go hand in hand. We believe that only a sustainable and responsible approach can safeguard the future for generations to come. This belief inspires everything we do at MAARMO, as we continue to create products that are both innovative and environmentally conscious.



1.2 Safety information

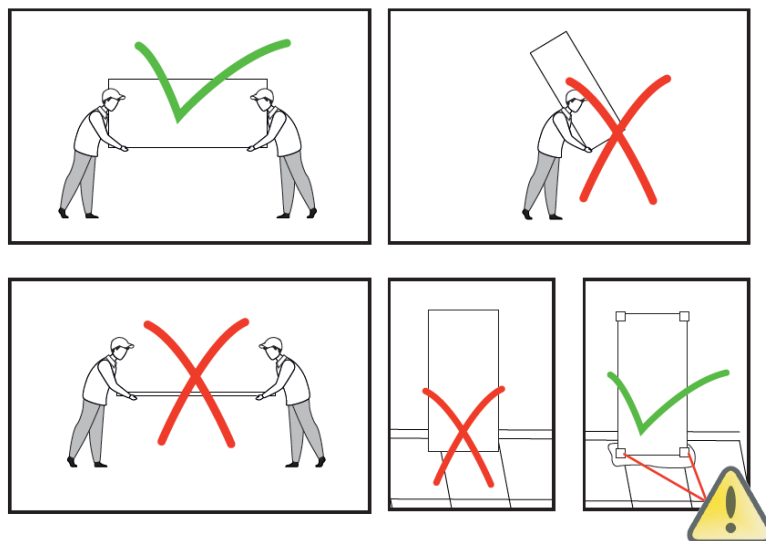
To ensure safe installation and operation of your MAARMO electric radiator unit, please observe the following guidelines:

- **Professional Installation:** Always have the unit installed by a qualified electrician. Installation must comply with I.E.E. Wiring Regulations (BS 7671:2008), ensuring that switches and control devices cannot be reached by someone in a bathtub or shower.
- **Wall Support Check:** Before installation, inspect the wall support for stability. Use appropriate screws and raw plugs suited to the wall type.
- **Avoid Hazards:** Be cautious of water pipes and electrical cables during installation.
- **Power Safety:** The panel must be switched off and disconnected from power during installation, maintenance, or cleaning.
- **Cleaning Instructions:**
 - Do not use chemical or alcohol-based cleaning products.
 - Cleaning should be performed only by adults familiar with the product and its operation.
- **Intended Use:** The panel is designed exclusively for room heating. Any other use is strictly prohibited.
- **Overheating Prevention:**
 - Do not cover the panel.
 - Do not install the unit directly beneath a socket outlet.
 - Do not place the radiator behind curtains.
 - Maintain a minimum clearance of 100 mm around the device.
- **Safety Around Children:** The panel can reach high temperatures. Exercise caution if children or vulnerable individuals are present.
- **Tampering Prohibited:**
 - Do not dismantle or modify the radiator.

- If the unit appears damaged, disconnect it immediately and contact the service centre.
- **Cable Safety:**
 - If the power cable is damaged, it must be replaced by the manufacturer, an authorized service centre, or a qualified technician. DO NOT TRY TO REPLACE IT.
 - Never twist or jam the cable behind the radiator wings. Improper handling or replacement may result in serious injury or death.
- **Thermostat Safety:**
 - Do not attempt to repair or disassemble the factory-installed electronic thermostat.
 - Never insert metallic objects into the thermostat.
 - The integrated **power cable** is non-replaceable and must not be extended or shortened.
- **Controller Use:** The radiator must only be operated with the external controller (thermostat) provided.

DISCLAIMER:

MAARMO reserves the right to update or modify this manual at any time to improve clarity or reflect changes in product design, installation procedures, or safety standards. These updates may include additions or removals of content and do not require prior notification to customers. The latest version of the installation manual is available online at: www.maarmo.it/download and www.intelligentheat.co.uk/intelli-heat-electric-radiator-manuals



Installation and Electrical Safety Guidelines

Your MAARMO electric radiator is both fragile and heavy - please handle it with care.

Before mounting, thoroughly read all instructions to ensure proper safety, protection, and structural integrity.

- **Wall Mounting Requirements:**

- If installing on plasterboard walls, use heavy-duty fixings rated for high loads to ensure maximum safety.
- It is the responsibility of the purchaser and/or installer to verify that the mounting surface is solid and capable of supporting the radiator's weight.
- We strongly recommend consulting a professional to determine the appropriate fasteners or anchors for your specific wall type.

- **Clearance:**

- Maintain a minimum distance of 15 cm from any nearby obstacles such as shelves, curtains, or furniture.

- **Electrical Connection:**

- The radiator must be connected to the mains supply via a local isolator switch capable of disconnecting all poles, with a contact separation of at least 3 mm.
- It must be protected by a 30mA RCD (Residual Current Device) and an overload protection device suited to the characteristics of the connecting line.
- Installation must comply with UK Electrical Code regulations and standards.
- The radiator is designed to operate only with its fixed two-core wiring.

- **Voltage Check:**

- Before first use, verify that the supply voltage (230–240V) matches the rating indicated on the device.

1.3 Datasheet

Model	MAE0311	MAE0318	MAE0511	MAE0515	MAE0518	MAE0508
Nominal Power	350 W	500 W	600 W	1000 W	1400 W	500 W
Model	MAE1160	MAE0416				

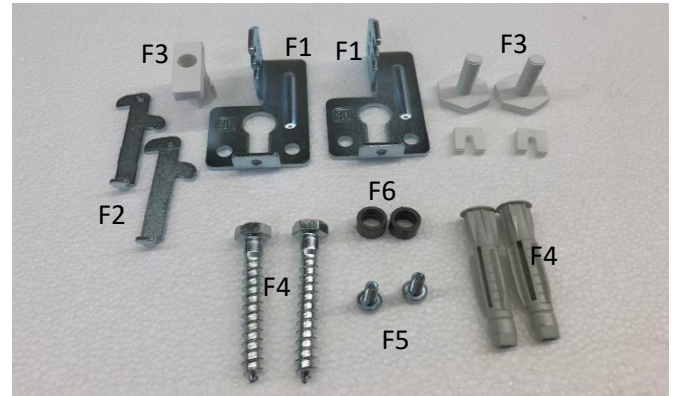
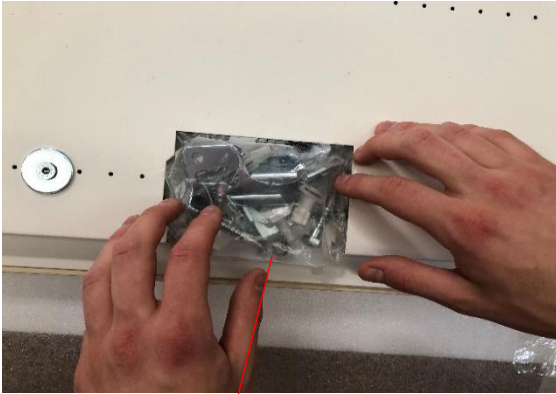
Nominal Power	600 W	100 W				
Supply	230Vac +/-10% 50 Hz					
Electric insulation	CLASS II					
Enclosure Degree	IPX4					
Dimensions L*H*P	300x1100x70	300x1800x70	550x1100x70	550x1500x70	550x1800x70	550x860x70
Vertical Installation						
Weight	19 kg	34 kg	36 kg	48 kg	58 kg	27 kg
PERFETTO	MAE0311PER	MAE0318PER	MAE0511PER	MAE0515PER	MAE0518PER	MAE0508PER
TOSCANA	MAE0311TOS	MAE0318TOS	MAE0511TOS	MAE0515TOS	MAE0518TOS	MAE0508TOS
TESSUTO	MAE0311TEE	MAE0318TEE	MAE0511TEE	MAE0515TEE	MAE0518TEE	MAE0508TEE
GINKO	MAE0311GNK	MAE0318GNK	MAE0511GNK	MAE0515GNK	MAE0518GNK	MAE0508GNK
Weight	35 kg	41 kg				
CURVE	MAE1160CR	MAE0416CRV				
FIXING DIST. VERT. DxH	140x1010	140x1710	380x745	380x990	380x1370	380x1710
FIXING DIST. HORIZ DxH	1010x140	1710x140	340x500	550x500	850x500	1710x380
Supply Cable	Length 1200 mm, without cap, 3*1 with pilot thread at bottom right.					
Using Temp.	0 – 50°C					
Storage Temperature	0 – 85°C					
Humidity	0 - 85% non-condensing					
Temperature Regulation	Digital; programmable (24 h) per day					
Temperature setting Range	7 – 30°C					
Temperature read Resolution	1/10°C					
Certifications	UKCA		CE			
European Standards	2006/95/CE, 2004/108/CE, 2002/96/CE					
Armonized Standards	EN 60335-1 (2004-04), EN 60335-2-30 (2006-05), EN 60335-2-43					

2.1 Accessories Supplied with the MAARMO Electric Radiator

Each MAARMO electric radiator is supplied with the following accessories:

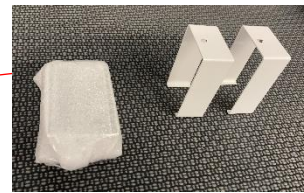
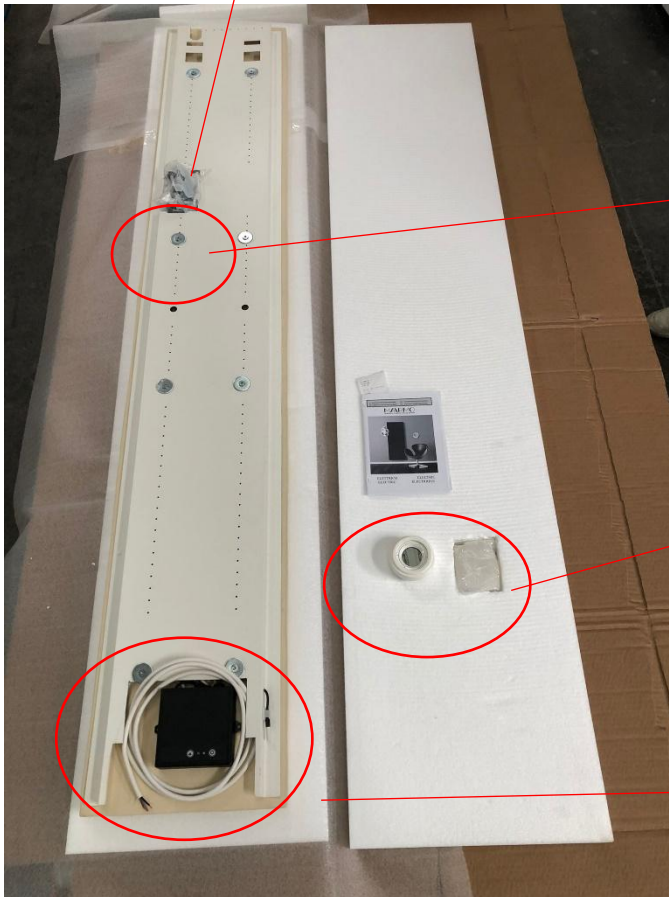
- **2 wall-mounting brackets** – Metal components of various shapes designed to be hung from hooks embedded in the wall (**F1**).
- **2 anti-hooking safety locks** – Prevent accidental detachment of the radiator (**F2**).
- **2 spacer feet** – Ensure proper distance from the wall or floor (**F3**).

- **2 screws and dowels** – For secure wall installation (**F4**).
- **2 retaining screws** – Used to fasten the radiator securely (**F5**) + **n.2 spacer** (**F6**)
- **1 thermostat** – Supplied separately; refer to the dedicated instruction manual
- **2 cover hangers (carters)** – Decorative elements for covering mounting hardware.



Packed accessories bag

Accessories bag content



Brackets Cover



*Bluetooth
Thermostat control*

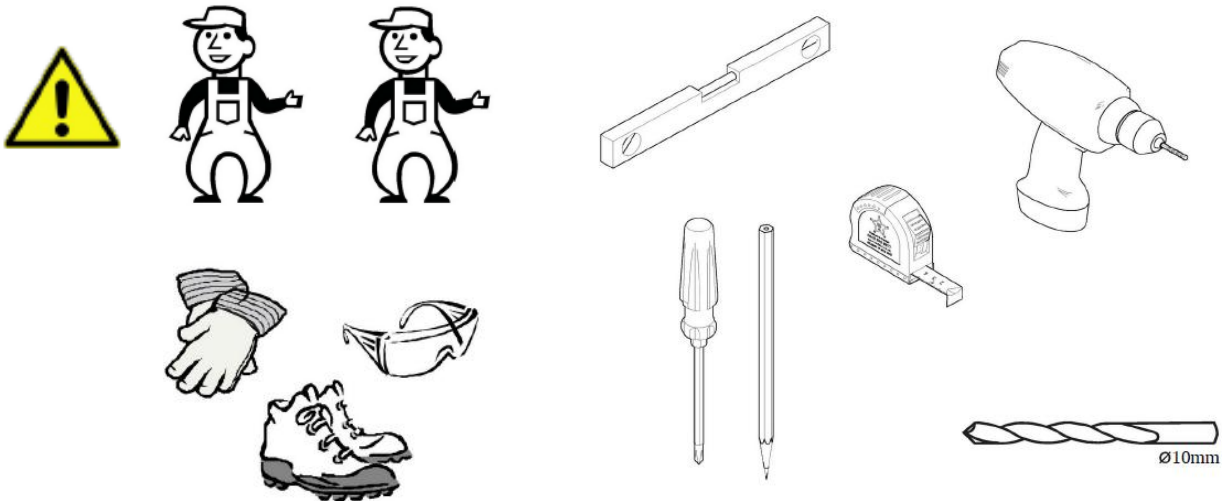


*Electric thermostat
control unit*

2.2 Equipment needed

To ensure a safe and successful installation of your MAARMO heating unit, the following equipment is required:

- **Personal Protective Equipment (PPE):**
 - Safety gloves
 - Safety shoes
 - Protective glasses
- **Tools:**
 - Electric drill (with appropriate drill bits)
 - Screwdriver set
 - Spirit level
 - Measuring tape
 - Pencil or marker for alignment
 - Heavy-duty wall anchors and screws (suitable for your wall type)
 - Stud finder (recommended for plasterboard installations)



2.3 Installation procedure

Before beginning installation, carefully assess the radiator's intended position within the room:

- Ensure it is appropriately distanced from furniture and fixtures such as curtains, drawer units, and shelving.
- Consider its placement relative to perimeter walls to optimize heat distribution and safety.

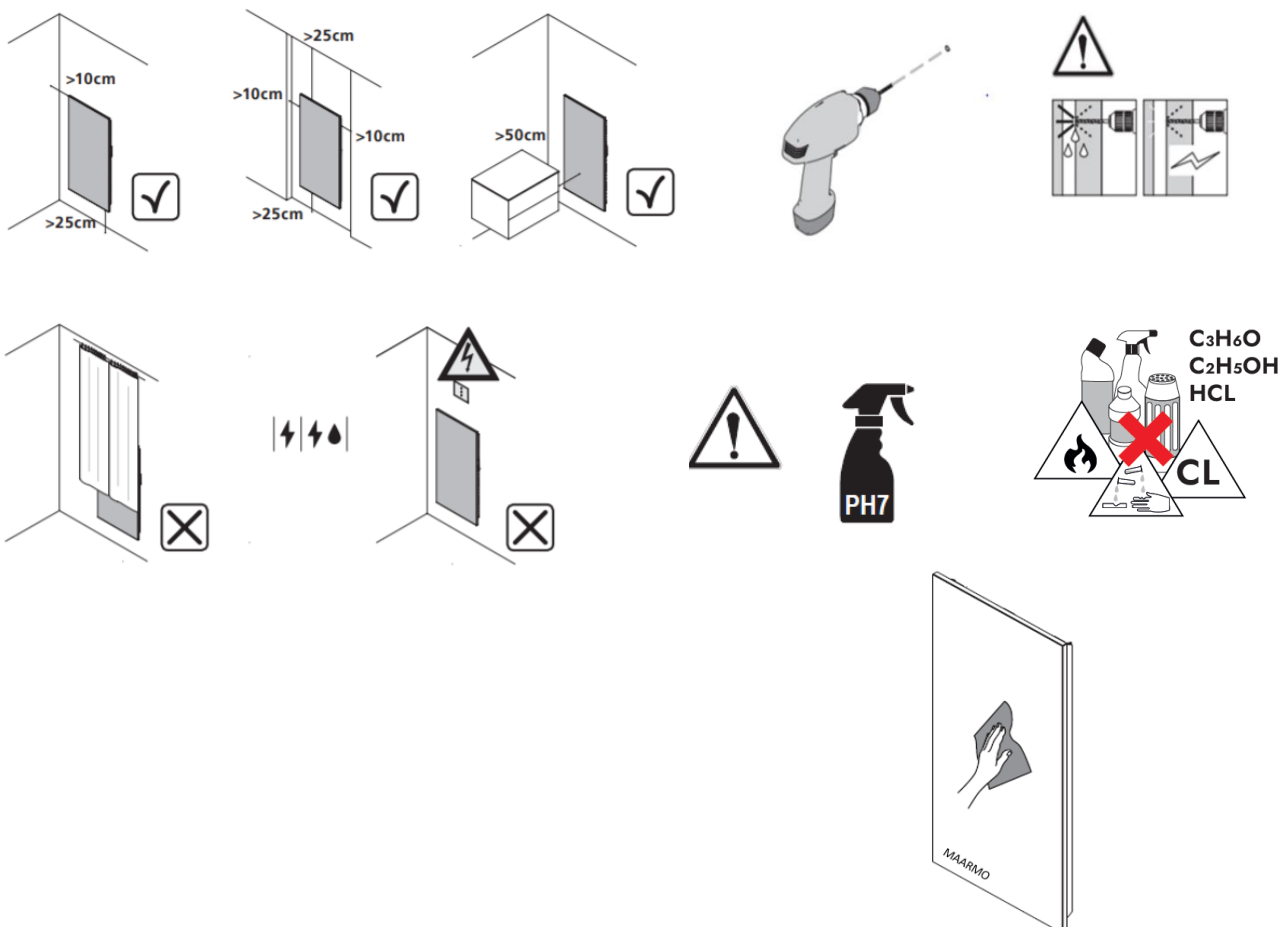
Mounting Guidelines:

The supplied anchor kit is suitable only for solid surfaces such as:

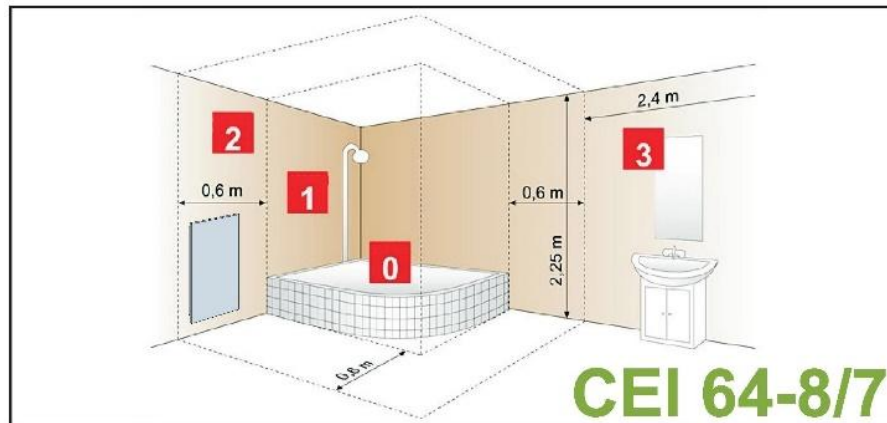
- Concrete
- Solid brick
- Perforated brick
- Compact stone
- **Always verify** that the wall or mounting surface is capable of supporting the radiator's weight.

If the surface is unsuitable, replace the supplied plugs with anchors specifically designed for your wall type.

- The supplied anchor brackets kit must only be used on concrete, solid brick, perforated brick, compact stone; always check that the support is suitable for the weight, and if necessary, replace the supplied plug with a model suitable for the support used.



2.4 Special notes for bathroom installation



! The installation must comply with all applicable laws and regulations of the country (UK) in which the device is installed.

In accordance with British **CEI 64-8/7, Article 701.32**, bathrooms are divided into four safety zones based on proximity to water sources:

- **Zone 0:** Inside the bathtub or shower tray.
- **Zone 1:** The vertical area above Zone 0, up to 2.25 meters from the floor, and extending 0.6 meters horizontally from the shower head or bath edge.
- **Zone 2:** Extends 0.6 meters beyond Zone 1, up to 2.25 meters in height.
- **Zone 3:** Extends a further 2.4 meters beyond Zone 2, also up to 2.25 meters in height.
- **Important:**
This device **must not be installed in Zone 0 or Zone 1**, where it could be reached by someone using the shower or bathtub.
Installation is permitted only in **Zone 2 and Zone 3**, where the risk of direct water exposure is reduced.
- Ensure that the device's IP rating and installation method meet the requirements for the designated zone.

Misura mm	VERTICALE		ORIZZONTALE	
	A	B	A	B
550 X 860	380	105	340	45
550 X 1100	380	105	550	45
550 X 1500	380	105	850	45
550 X 1800	380	105	1030	45
300 X 1100	140	85	580	65
300 X 1800	140	85	1300	65
400 X 1600	204	105	850	55
600 X 1100	380	105	550	55

2.5 Dimensions and footprint

To ensure safe and compliant installation of the MAARMO electric radiator, observe the following spatial requirements:

- The junction box must be positioned:
 - At least 300 mm above the floor.
 - At least 100 mm away from the radiator (refer to the installation diagram for visual guidance).
- Maintain clearance around the unit as follows:
 - At least 100 mm of space on all sides.
 - At least 250 mm from the floor to the bottom edge of the radiator.

These clearances are essential for proper ventilation, safety, and ease of maintenance.

ELECTRICAL CONNECTIONS

Hardwiring into a 13 Amp Fused Spur

The MAARMO electric radiator must be connected to a **monophase 230 v power supply**:

- **Voltage:** 230 V
- **Tolerance:** $\pm 10\%$
- **Frequency:** 50 Hz

Electrical Wiring Instructions

Wiring Overview

- **Neutral (Blue-grey wire):** Connect to the Neutral terminal.
- **Phase (Brown wire):** Connect to the Live terminal.
- **Pilot wire (Black):** **Do not connect** unless using an external pilot wire controller.
 - If not used, the pilot wire must be isolated.
 - **Never connect the pilot wire to earth (ground).**

Connection to a 13 Amp Fused Spur

To connect a Class II electric radiator to a 13-amp fused spur, follow these steps:

1. Switch off power at the consumer unit before beginning any electrical work.
2. Connect the incoming live (brown) and neutral (blue-grey) wires from the mains supply to the "Supply" or "In" terminals of the fused spur.
3. Connect the radiator's live and neutral wires to the "Load" or "Out" terminals of the fused spur.
4. Ensure all connections are secure and comply with local electrical regulations.



Important Safety Note: All electrical work must be carried out by a qualified electrician. Improper installation may result in electric shock, fire, or damage to the unit.

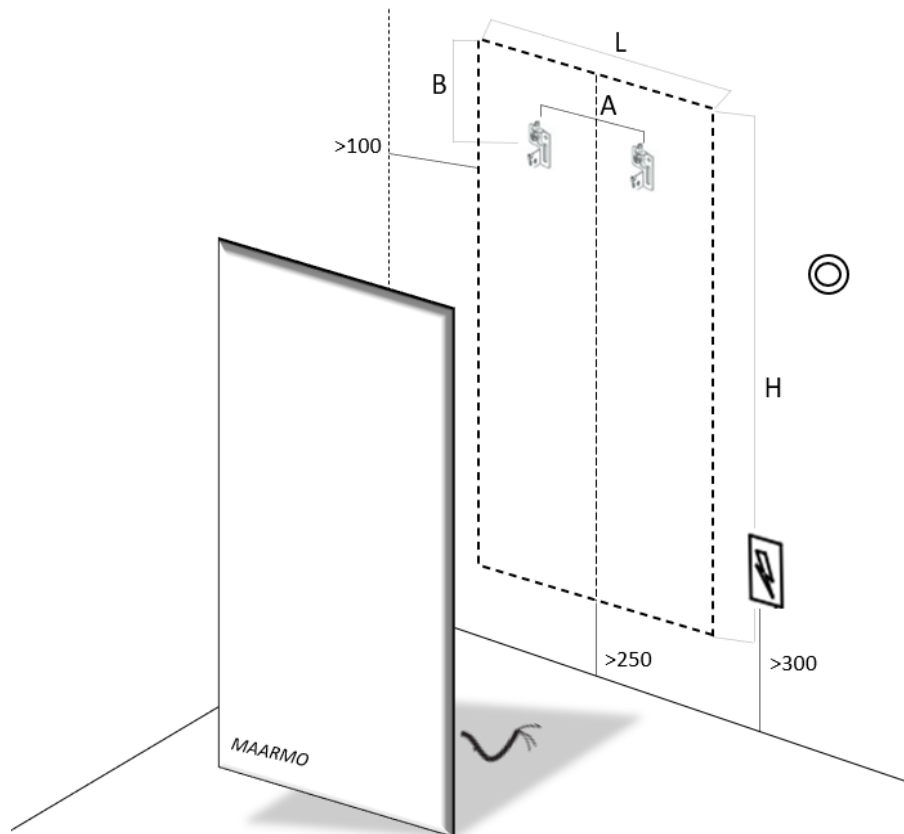
Multiple Radiator Installations – Important Electrical Considerations

While it is technically possible to hardwire electric radiators into the ring main via a fused spur, this approach may not be suitable for larger installations. According to *Appendix 15 of the IET Wiring Regulations (BS 7671:2018)*: Supplying extensive electric space heating from the ring main is not advised, as it may exceed the cable's current-carrying capacity over prolonged periods.

Recommended best Practice:

To avoid overloading the ring main, use dedicated radial final circuits for electric radiators. This ensures:

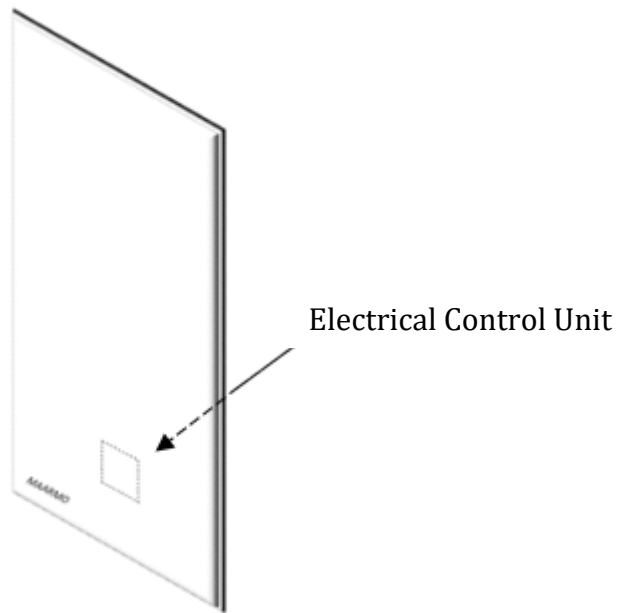
- Safer load distribution.
- Compliance with electrical standards.
- Improved system reliability and longevity.
- The electric MAARMO heater can be installed in either a horizontal or vertical orientation.



- For vertical installation, ensure the following:

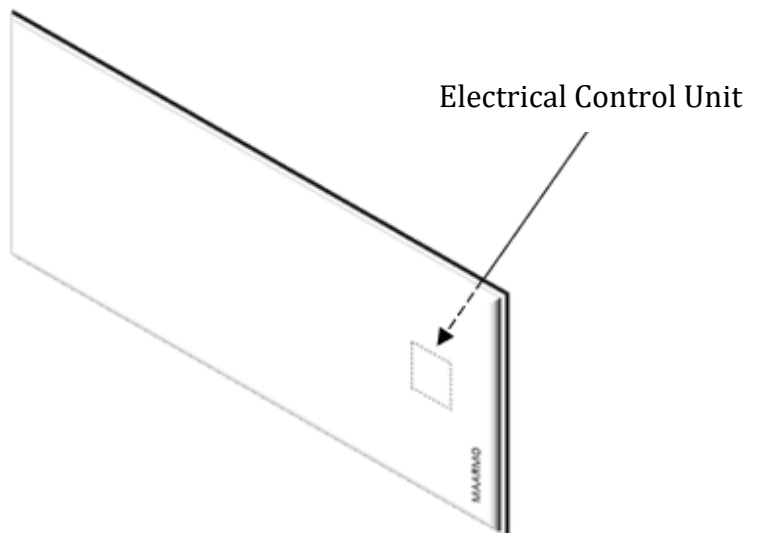
- The MAARMO logo is positioned on the lower left corner, as illustrated.
- The control unit, located on the back of the heater, must be mounted at the bottom.

FRONT VIEW IN VERTICAL POSITION

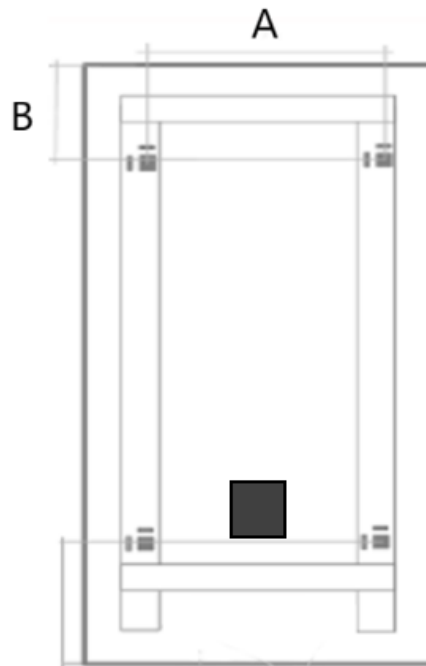


- **For horizontal installation, ensure the following:**
- The MAARMO logo is positioned on the lower right side, as illustrated.
- The control unit, located on the back of the heater, must be mounted on the right side.

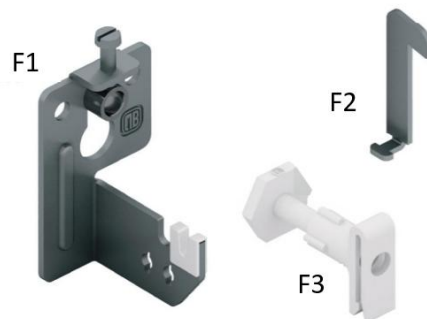
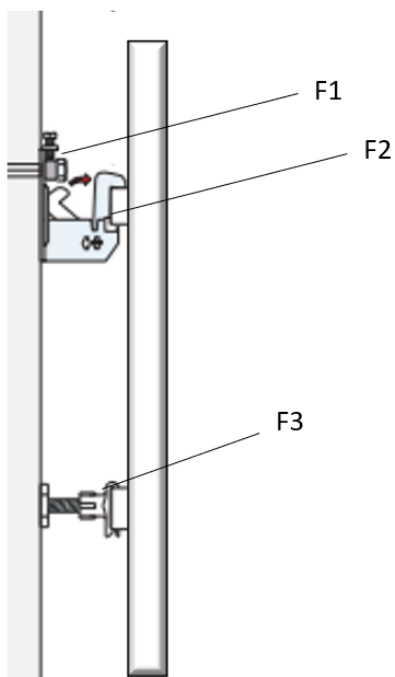
FRONT VIEW IN ORIZONTAL POSITION



Back view of the radiator



Side view of the radiator



F1 = Brackets

F2= Anti-hook safety lock

F3= Spacer feet



As required by current regulations, the safety lock against hooking must be inserted after installation.

2.6 Electric connections - Monophase power supply 230V +/-10% 50Hz

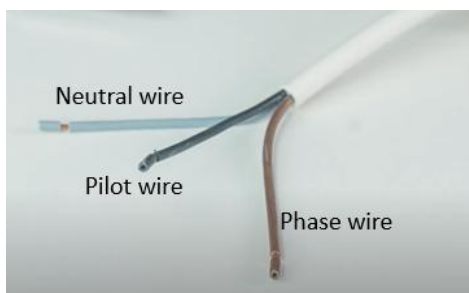





- **Power Isolation:** During installation, maintenance, or cleaning, the heater must be switched off and disconnected from the power supply.
- **Power Requirements:** The radiator must be connected exclusively to a 230V, 50Hz monophase power supply.
- **Switch Installation:** An omni polar switch must be installed upstream of the radiator, with a minimum contact separation of 3 mm.
- **Insulation Class:** This radiator is classified as a Class II device, featuring double electrical insulation.

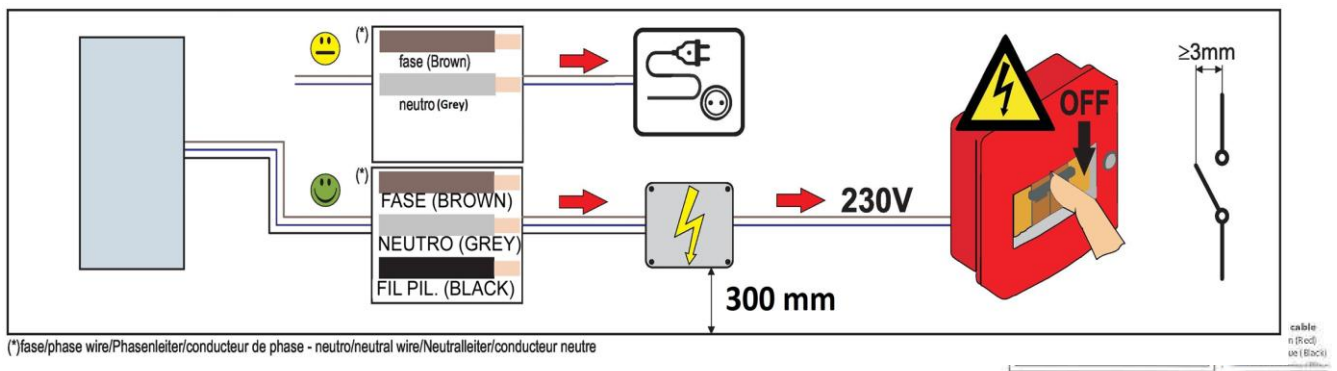


○ Important: Connection to earth (grounding) is strictly prohibited.

- **Circuit Protection:** The power supply circuit must be protected by a highly sensitive differential protection device dedicated to the radiator's power line.
- **Cable Connection:** The power cable must be connected via a junction box located 25 cm above the floor without the use of an electrical plug
- **Cable Replacement:** If the power cable is damaged, it must be replaced exclusively by a qualified electrician.



Brown wire		Phase/ Live wire
Blue-grey wire		Neutral wire
Black wire		Pilot wire <u>DO NOT CONNECT</u>



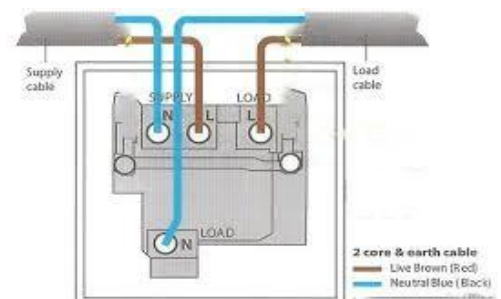
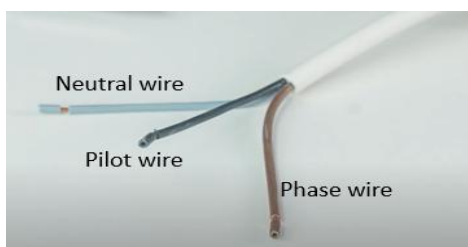
! PILOT Wire Connection Guidelines

The PILOT Wire serves as a signal carrier for appliances connected to a chrono thermostat or an external energy management system.

- **Usage Restriction:** If no compatible control device is present, the PILOT Wire must be isolated in accordance with safety standards.
- **Safety Warning:** Under no circumstances should the PILOT Wire be connected to the ground wire.
- **Protocol Compliance:** The PILOT Wire (FIL PILOT) must be used **exclusively** according to the protocol defined by **GIFAM**.

3. INSTALLATION STEPS

3.1 STEP 1: Preparing the electrical plug or fuse spur - For the connection to the domestic electricity network, rely on a qualified professional electrician.



3.2 STEP 2: Installation

1 Measure and Mark

Use a tape measure to determine the correct placement of the radiator, ensuring all safety distances from surrounding wall elements are respected (see pictures 1 and 2).

2 Drill Mounting Holes

With a 10 mm drill bit, drill holes at the marked installation points (see picture 3).

3 Insert Fixings and Mount Brackets

Insert the dowel (F4) into each drilled hole.

Position the brackets (F1) near the holes.

Insert the spacer (F6), then secure each brackets with a screw (see pictures 4 and 5).



3.3 STEP 3: Installation on the wall

1. Install the Anti-Hooking Safety Lock

Position the anti-hooking safety lock as shown (picture 1).

2. Mount the Radiator

Hang the radiator securely onto the 2 wall brackets (pictures 2, 3, and 4).

3. Secure the Safety Lock

Insert the tooth of the anti-hooking safety lock into the designated hole in the metal structure (picture 5).

4. Insert the Retaining Screw

Place the retaining screw into the hole of the cover hanger (picture 6).

5. Adjust the Inclination

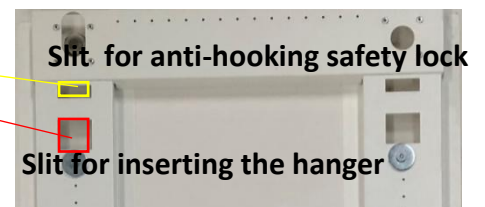
Tighten or loosen the retaining screw to adjust the radiator's angle as needed (picture 7).

6. Verify Alignment

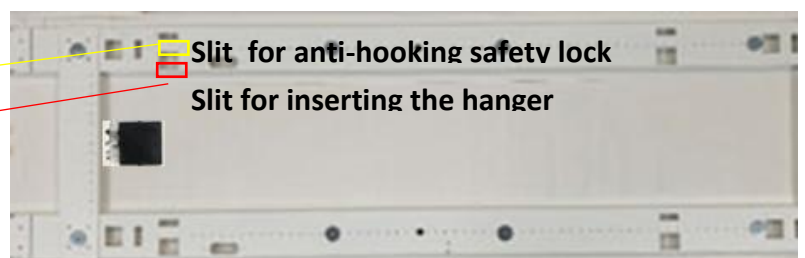
Use a spirit level to confirm the radiator is correctly aligned (picture 8).

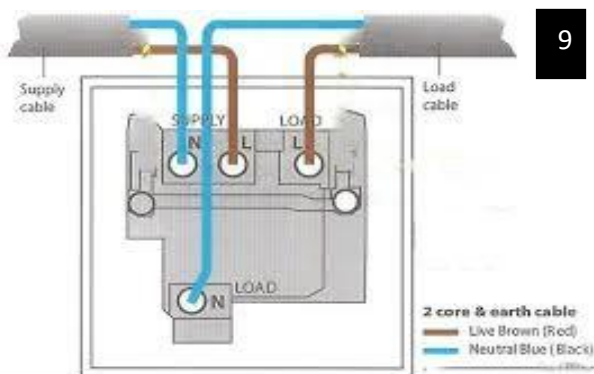
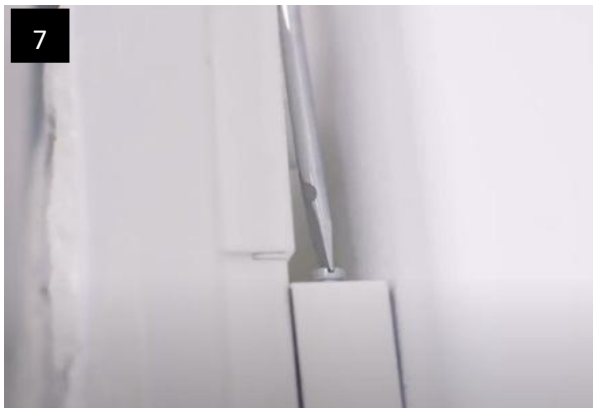
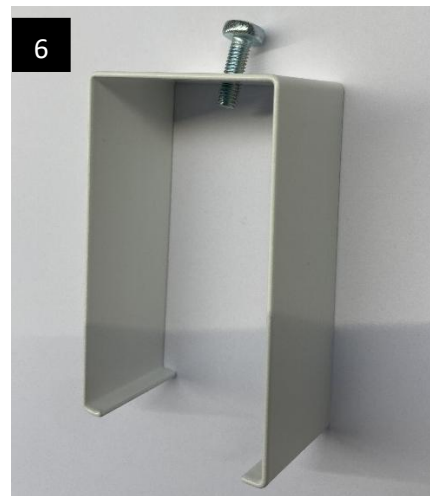
7. Connect Power and Set Thermostat

Plug the wires into the electrical fuse spur outlet (picture 9) and configure the thermostat temperatures and programs settings (picture 10).



(Horizontal mounting)





4. Warranty and Assistance

The MAARMO radiator warranty is valid only if:

The product remains intact, without any modification or tampering.

All installation and usage instructions are strictly followed.

Warranty Coverage

24 months: Covers operational performance of all manufactured and/or supplied components.

Additional 36 months: Covers the heating body only (e.g., paint finish, structural integrity), excluding electrical parts and electronic control systems.

Start Date: Warranty begins from the date of shipment ex works, as indicated on the delivery note or invoice.

Warranty Conditions

The warranty is limited to reimbursement or replacement at, MAARMO's discretion, of parts confirmed to be defective.

Defective products must be returned in their original packaging to our factory at the purchaser's expense.

All repair work will be performed exclusively at our factory.

The serial number is essential for product identification. Keep the instruction manual and product label after installation.

Exclusions

The warranty covers only non-wearing parts. Wear items (e.g., thermostat batteries) and their transport costs are excluded.

No compensation is provided for direct or indirect damages resulting from product defects.

Disassembly and reassembly costs are the buyer's responsibility

The warranty is valid only if the product is used in a suitable environment and for its intended application. Improper use voids the warranty.

Modifications and Compliance

Any changes to these terms must be agreed upon in writing with MAARMO and INTELLI HEAT Ltd.

The warranty is void if the product is tampered with, damaged, or not in its original delivered condition.

Compliance Declaration

MAARMO declare under our sole responsibility that the products described in these instructions comply with the essential requirements of the following directives and standards:

LVD 2014/35/EU: EN60335-1 / EN60335-2-30 / EN62233

EMC 2014/30/EU: EN55014-1 / EN55014-2 / EN61000-3-2 / EN61000-3-3

ERP 2009/125/EC

Standard 2015/1188/EU

ROHS 2011/65/EU: EN50581

Certifications: UKCA MARK, CE MARK



Note: For the warranty to remain valid, installation must be completed in accordance with all specified guidelines and manuals.

4.1 Technical assistance

For technical assistance, scan the MANUALS PAGES QR code to contact your installer or distributor INTELLI HEAT UK

SCAN ME



5. DECLARATION OF CONFORMITY

MAARMO S.R.L. Viale della Vittoria 214

31029 Vittorio Veneto (TV), Italy

Hereby declares, under its sole responsibility, that the following electric radiant heating panel models:

MAE0310, MAE0318, MAE0508, MAE0511, MAE0515, MAE0518, MAE0805, MAE0611, MAE0416 are manufactured by MAARMO in full compliance with the applicable European and UK directives:

Directive 2014/35/EU (LVD) of the European Parliament and of the Council, of 26 February 2014, on the harmonization of the laws of Member States relating to making available on the market of electrical equipment designed for use within certain voltage limits

Directive 2014/30/EU (EMC) of the European Parliament and of the Council, of 26 February 2014, on the harmonization of the laws of the Member States relating to electromagnetic compatibility (recast).

Directive 2014/53/EU (RED) of the European Parliament and of the Council, of 16 April 2014, on the harmonization of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC.

Directive 2011/65/EU (ROHS) of the European Parliament and of the Council, of 8 June 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment

Commission delegated Directive 2015/863/EU of 31 March 2015, amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances.

Directive 2009/125/EC (ErP) of the European Parliament and of the Council, of 21 October 2009, establishing a framework for the setting of eco-design requirements for energy-related products. And in accordance with harmonized standards: EN 60335-1:2012+ AC:2014+ A11:2014+ A13:2017 + A1:2019+ A2:2019+ A14:2019, EN 60335-2-30:2009+ AC:2010+ AC:2014+ A1:2020, EN 62233:2008 + AC:2008, EN 60335-2 43:2021, IEC 61000-3-2:2018, TEC 61000-3-3:2013 * AMD1:2017, CISPR 14-1:2016, CISPR 14-2 :2016, EN55014-1:2017 + A11:2020, EN 55014-2:2015, ETSI EN 301 489-1 v2.2.3, ETSI EN 301 489 17 v3.2.4

UKCA DECLARATION OF CONFORMITY



We, MAARMO S.R.L and INTELLI HEAT ltd , hereby declare under our sole responsibility that the products described in these instructions comply with the following UKCA statutory instruments:

2017 No. 1206 – Radio Equipment Regulations

2012 No. 3032 – Restriction of the Use of Certain Hazardous Substances (ROHS)

2019 No. 539 – The Eco-design for Energy-Related Products and Energy Information (Amendment) (EU Exit) Regulations

Compliance is also ensured with the relevant designated EN and BS standards listed above.



The symbol affixed to the product indicates that it must be disposed of at the end of its useful life at a designated recycling point, in accordance with European Directive WEEE 2012/19/EU. For a list of local authority designated collection facilities, visit:

<https://www.gov.uk/government/publications/weee-list-of-local-authority-designated-collection-facilities>

GENERAL SPECIFICATIONS

Electrical and Technical Data

Power Supply: 230V \pm 10% AC, 50Hz

Radio Frequency: Wi-Fi 802.11 b/g/n, 2.4 GHz

Maximum RF Transmission Power: <15 dBm

Standby Power Consumption (Heating Mode): <2W

Control System: Proportional Integral Derivative (PID) with triac engagement

Thermal Safety: Integrated overheating protection system

Environmental Ratings

Safety Classification: Class II, IP24

Storage Temperature Range: -20°C to $+70^{\circ}\text{C}$

Functional Features

Comfort Setpoint Range: $+7^{\circ}\text{C}$ to $+30^{\circ}\text{C}$

Memory Backup: Retains user settings in case of power failure

Auto-Programming: Learns user habits to automatically create a personalized heating schedule

Daily Programming: Assigns Comfort/Eco profiles for each day of the week

Profiles: Supports 7 programmable profiles

- **App Integration:** Compatible with the DOMUS ONE Heating Control App
 - Available on Google Play and App Store
 - Optimizes heating schedules and daily programs
 - Suggests energy-efficient adjustments for specific rooms or zones