KILMA FUTURA

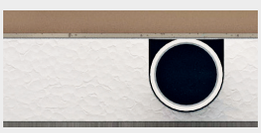
The new high efficiency radiant air conditioning system for dry installation

KILMA FUTURA is a revolutionary high efficiency radiant air conditioning system, suitable for dry floor, wall and ceiling installation. If in- stalled on the floor, **KILMA FUTURA** does not require a screed, therefore, it has very small overall dimensions.

Kilma Futura eliminates downtime in the site caused by waiting times for the screed to dry and consequently, guarantees immediate walk- ability. Lastly, thanks to the absence of the screed, it is possible for systems to be installed with very low thermal inertia.

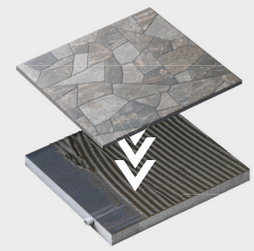
- No cement screed is needed
- Low thermal inertia: heats up in a few minutes
- Great savings
- Maximum comfort
- Floor, wall, ceiling installation
- Can be used in heating or cooling
- Total thickness less than 3 cm
- Quick and easy to install
- Ideal for restorations and new homes with high energy efficiency!

1. **Ceiling installation**
2. **False ceiling installation**
3. **Wall installation**
4. **Floor installation**



TOTAL THICKNESS
28 mm (SCALE 1:1)

Floor laid directly on the panel



FLOOR INSTALLATION

CERAMIC FINISH

1 Perimeter expansion joint

2 Glue for fixing the panel to the substrate

3 Kilma-Futura Panel

4 Pipe Kilma-Flex PE-RT Ø16x2 mm

5 If necessary, aluminised tape to block the pipe on the bends (about 1m/m²)

6A Protection epoxy primer (e.g. PRIMER MF RBM by Mapei)

6B Superior glue gripping primer (not supplied)

7 Glue for tiles (not supplied)

8 Tiles (minimum dim. 25x25 cm or in alternative 15x30 cm strips)

9 Skirting board

PARQUET FINISH (TYPE 1 WITH FLOATING PARQUET)

1 Perimeter expansion joint

2 Glue for fixing the panel to the substrate

3 Kilma-Futura Panel

4 Pipe Kilma-Flex PE-RT Ø16x2 mm

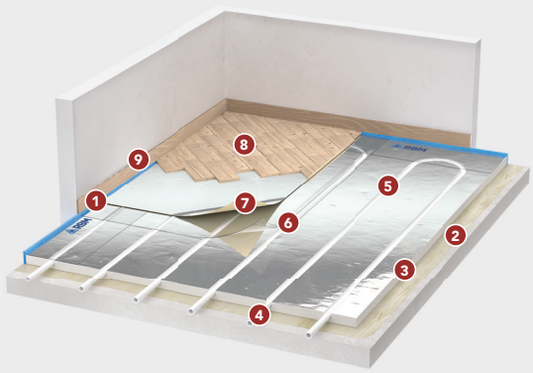
5 If necessary, aluminised tape to block the pipe on the bends (about 1m/m²)

6 PE protective sheet

7 Any substrate fabric/non-fabric layer (not supplied)

8 Floating parquet placed resting on the underlying surface

9 Skirting board



PARQUET FINISH (TYPE 2 WITH GLUED PARQUET)

1 Perimeter expansion joint

2 Glue for fixing the panel to the substrate

3 Kilma-Futura Panel

4 Pipe Kilma-Flex PE-RT Ø16x2 mm

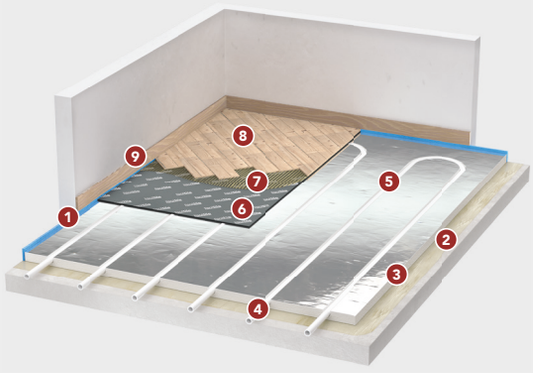
5 If necessary, aluminised tape to block the pipe on the bends (about 1 m/m²)

6 IsolTile support mat (with adhesive)/IsolTile (without adhesive,requires glue not supplied by RBM) by Isolmant (not supplied)

7 Glue for parquet (not supplied)

8 Parquet

9 Skirting board

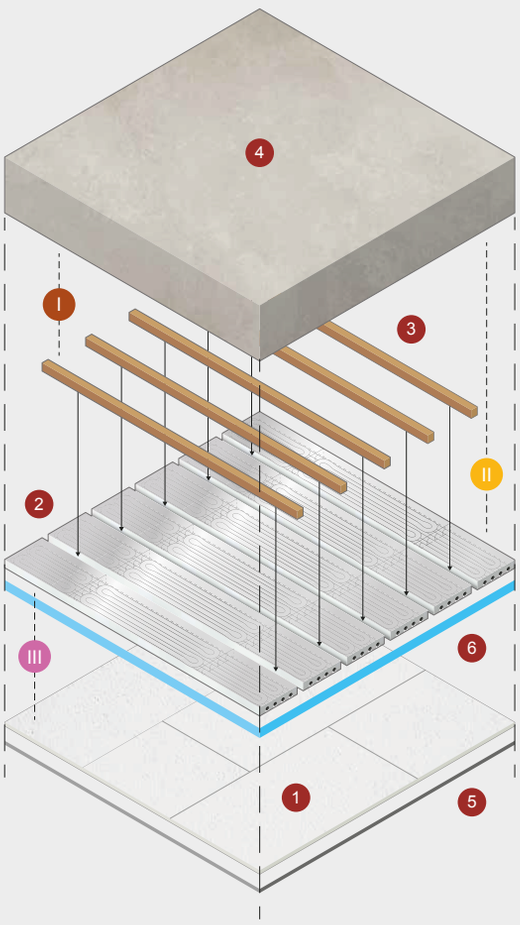


KILMA FUTURA

The new high efficiency radiant air conditioning system for dry installation

A1 KILMA-FUTURA SYSTEM / CEILING

Version: IN ADHERENCE on the soffit floor slab
Hypothesised finish: 12,5 mm plasterboard slab



COMPONENTS

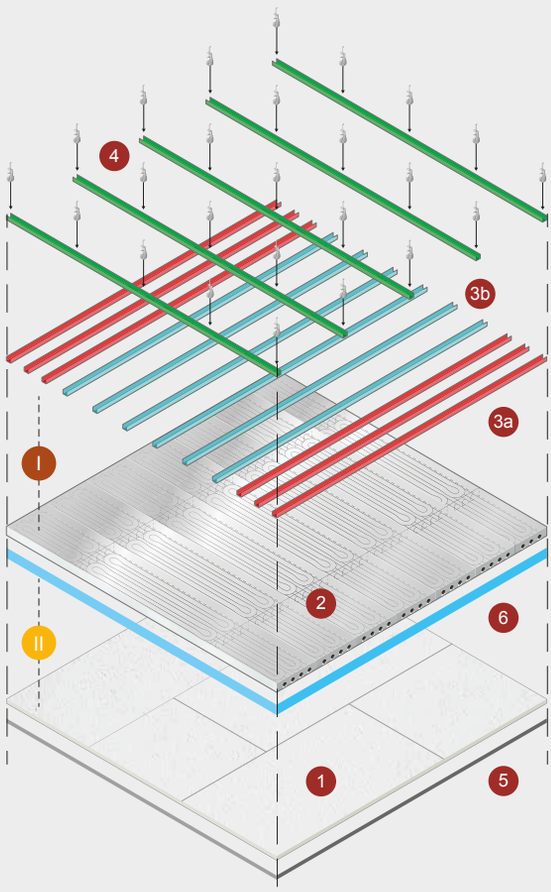
1. **Plasterboard slab**
   approximately 12.5
2. **Kilma Futura Panel**
   Th. 25 mm
   (or other chosen thickness, excluding 17 mm th.)
3. **Wood planks 40x25 mm section**
   with possible interruptions of the section to allow the passage of pipe bends and circuit supplies.
4. **Attic**
   (necessarily flat)
5. **Elastic joint for slabs in plasterboard**
   PLEASE NOTE: Any expansion joints to be provided are the responsibility of the plasterer, in compliance with the specific installation specifications for the chosen finish.
6. **Perimeter strip**
   (optional)

FIXING TYPES

- I **Fixing I:**
  wood plank on soffit floor slab
- II **Fixing II:**
  Futura panel on soffit floor slab (flange head screws suitable for EPS)
- III **Fixing III:**
  lasterboard finish fixed to the wood planks

B1 KILMA-FUTURA SYSTEM / CEILING

Version: HANGING with cavity with DOUBLE OVERLAPPED STRUCTURE 1st level structure pitch RESTRICTED to the installation of the radiant
Hypothesised finish: 12,5 mm plasterboard slab



COMPONENTS

1. **Plasterboard slab**
   approximately 12.5
2. **Kilma Futura Panel Th. 25 mm**
   (or other chosen thickness, excluding 17 mm th.)

Pitch structure restricted

3a **1st Level structure Fine Pitch Zone**
(for supporting the circuit curves)

3b **1st Level structure Straight Zone**
(for supporting the straight sections of the circuits)

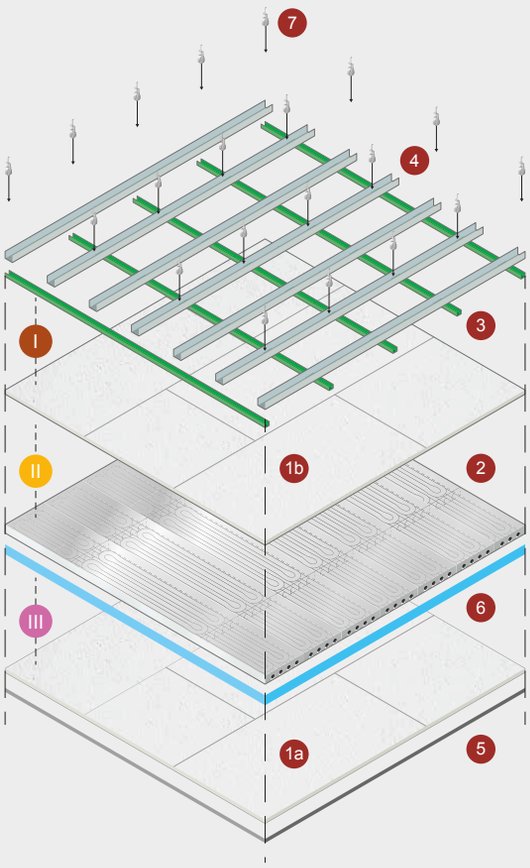
4. **2st level structure + suspension**
5. **Elastic joint for plasterboard slabs**
   PLEASE NOTE: Any expansion joints to be provided are the responsibility of the plasterer, in compliance with the specific installation specifications for the chosen finish.
6. **Perimeter strip (optional)**

FIXING TYPES

- I **Fixing I: Futura panel on 1st level structure**
  we recommend:
  - "flange head" screws suitable for self-drilling EPS
- II **Fixing II: for finishing slab on 1st level structure**

B2 KILMA-FUTURA SYSTEM / CEILING

Version: HANGING with cavity
with DOUBLE OVERLAPPED STRUCTURE
1st level structure pitch NOT RESTRICTED
to the installation of the radiant system.
Hypothesised finish: 12,5 mm plasterboard slab



COMPONENTS

1a **FINISH plasterboard slab**
approximately 12.5

1b **SUPPORT plasterboard slab**
approximately 12.5

2 **Kilma Futura Panel Th. 25 mm**
(or other chosen thickness, excluding 17 mm th.)

3 **1st structure**

FREE STRUCTURE PITCH

4 **2nd level structure**

5 **Elastic joint for plasterboard slabs**
PLEASE NOTE: Any expansion joints to be provided are the responsibility of the plasterer, in compliance with the specific installation specifications for the chosen finish.

6 **Perimeter strip (optional)**

7 **Attic (necessarily flat)**

FIXING TYPES

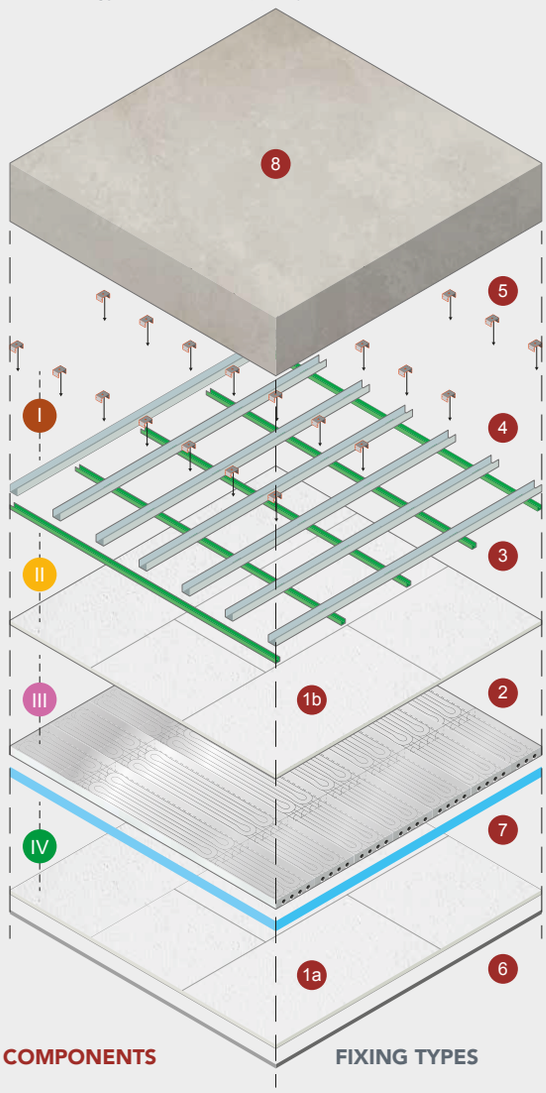
I **Fixing I:**
for support slab (1st slab) on 1st level structure

II **Fixing II:**
Futura panel on 1st level structure
(or on support plasterboard slab) we recommend:
- "flange head" screws suitable for self-drilling EPS

III **Fixing III:**
for finishing slab on 1st level structure

C2 KILMA-FUTURA SYSTEM / CEILING

Version: WITH DOUBLE FLOATING STRUCTURE on soffit floor slab. Structure pitch NOT RESTRICTED to the installation of the radiant system.
Hypothesised finish: 12,5 mm plasterboard slab



COMPONENTS

1a **FINISH plasterboard slab**
approximately 12.5

1b **REINFORCEMENT plasterboard slab**
approximately 12.5

2 **Kilma Futura Panel Th. 25 mm**
(or other chosen thickness)

3 **1st level structure**
Alternatively it is possible to use a single structure level defining an overall dimension of less than 90 mm.

4 **2nd level structure**

5 **Simple snap hooks with spacer function**

6 **Elastic joint for plasterboard slabs**
PLEASE NOTE: Any expansion joints to be provided are the responsibility of the plasterer, in compliance with the specific installation specifications for the chosen finish.

7 **Perimeter strip (optional)**

8 **Attic (necessarily flat)**

FIXING TYPES

I **Fixing I:**
for support slab (1st slab) on 1st level structure

II **Fixing II:**
for support slab (1st slab) on 1st level structure

III **Fixing III:**
for Futura panel on 1st level structure
we recommend:
- "flange head" screws suitable for self-drilling EPS

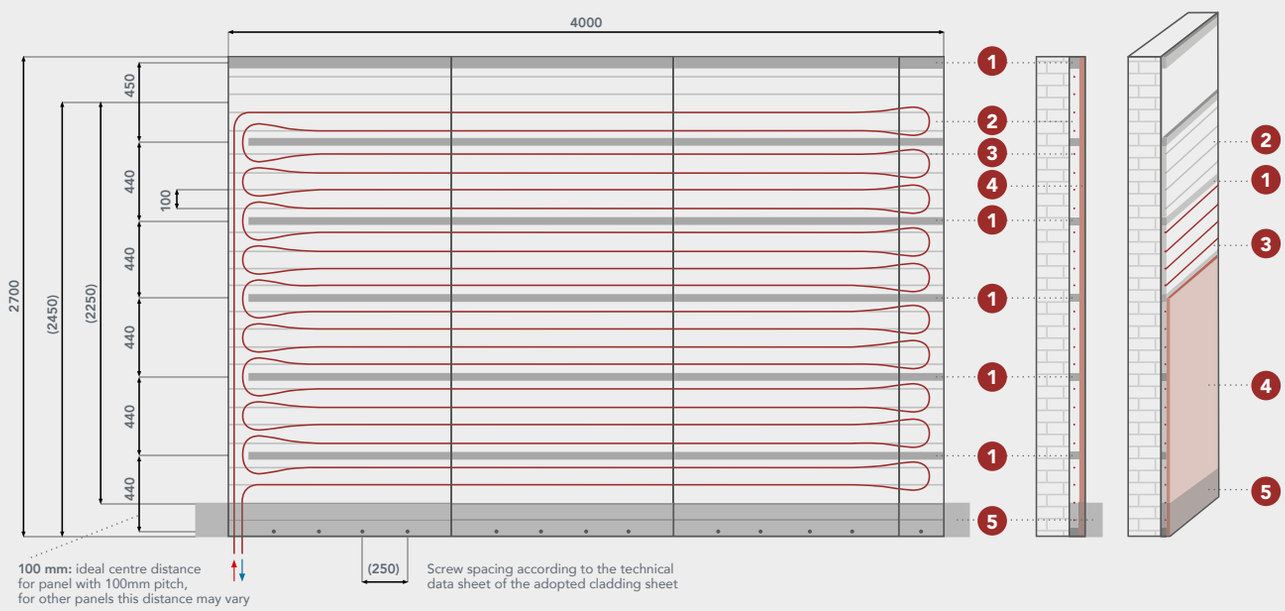
IV **Fixing IV:**
plasterboard finish on 1st level structure

KILMA FUTURA

Wall mounted

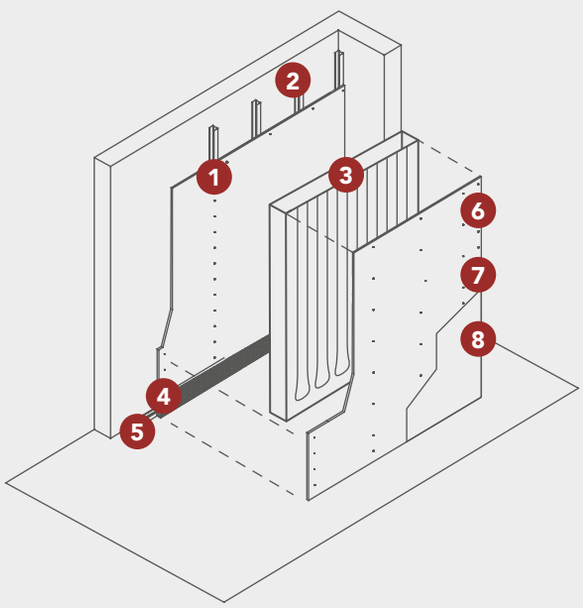
The Kilma-Futura panel can also be mounted **on the wall**. It can be installed on masonry walls and on plasterboard walls, and then is covered with a plasterboard or gypsum fibre sheet. Its reduced thickness, quick installation and the use of 16x2 pipes that can be connected directly to the radiant manifold make it suitable for any installation.

MASONRY WALL

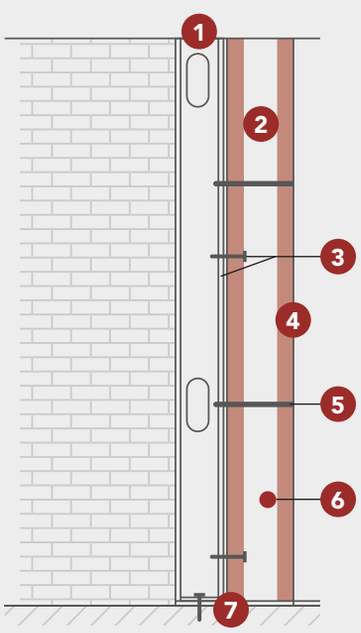


1. Wooden strip 40x25mm
2. EPS300 RBM Kilma Futura panel 25 mm thick
3. RBM Kilma Flex pipe Ø16x2 mm
4. Plasterboard panel
5. Possible buffer strip for installation of electrical sockets according to CEI 64-8

PLASTERBOARD WALL



1. Single plasterboard slab (support)
2. Upright profile
3. RBM FUTURA panel
4. Clearance from floor level (for electrical sockets according to IEC 64-8)
5. Basic profile
6. Fixing the finishing sheet
7. Plasterboard sheet (system closure)
8. Levelling and finishing



1. Metal profile (upright)
2. RBM FUTURA 25 mm panel
3. Fixing I:
   for support sheet on upright profile frame
4. Plasterboard slab + levelling
5. Fixing II:
   for finishing sheet on upright profile structure
6. RBM tube Ø16x2 mm
7. Basic profile