

### General

The MB Thermal installation is decisive for the installation of MB Dry systems.

In case of possible plasticiser migration from the substrate covering (e.g. roofing membrane) to the MB Load distribution plate (MB-DVP), a separating layer must be made with the MB-PEF (polyethylene film).

### MB Load distribution plate (MB-DVP)

The MB Load distribution plates (MB-DVP) are prefabricated. The installation types A15 and A20 are possible. Load distribution plates are available in various widths:

01. strips 17 mm, 37 mm, 150 mm and 200 mm
02. inner bows 150 mm and 200 mm
03. outer bows 150 mm and 200 mm

Before laying the MB Load distribution plates (MB-DVP), it is essential to plan the exact layout. A later correction is time-consuming. On request, the installation can be explained and demonstrated on site by the responsible technical advisor/specialist installer.

If several supply lines run through the room, radius plates are offered for the corners of the room.

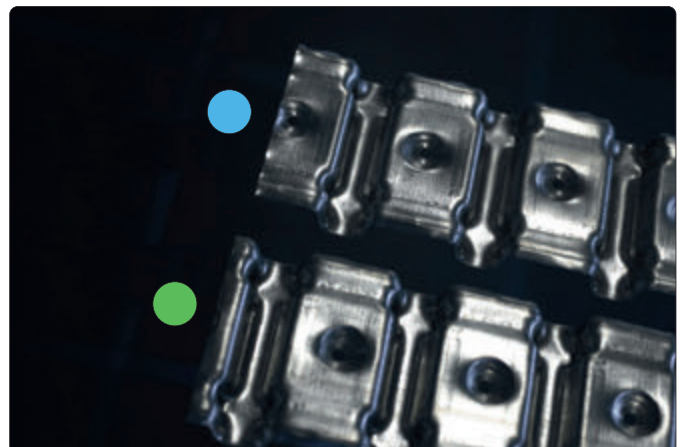
### System installation

Installation follows the MULTIBETON plan. Then follow the MULTIBETON installation and technical guidelines. Planning and creating the MULTIBETON underfloor heating/cooling must further comply with the relevant laws, regulations, directives and standards. Additional instructions of manufacturers for other trades and the recognised rules of technology and proper trade workmanship must be observed.



For the installation of MB Dry systems, it is important to know that MB Steel clip rails 12 (MB-CS12) are produced with a short (17 mm) ● and a long (34 mm) ● end.

The long end (34 mm) of the MB Steel clip rail 12 (MB-CS12) is used to start the installation of the MB Dry system on the coldest outer wall. The short end (17 mm) of the first MB Steel clip rail 12 (MB-CS12) is extended with the long end (34 mm) of the next MB Steel clip rail 12 (MB-CS12), butt to butt.

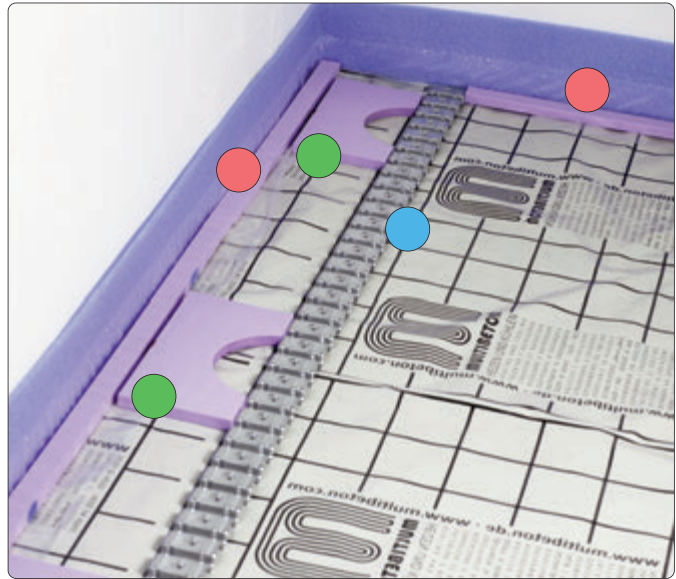


### 01. Laying the strips and outer bows

Experience has shown that the system installation of the MB-Euro system pipe 12 (MB-ER12) starts at the coldest wall. Strips (37 mm) ●, outer bows ● and MB Steel clip rails 12 ● (MB-CS12) are laid along this installation.

Between the strip (37 mm) ● and the outer bow ●, 12 mm are kept free for the MB-Euro system pipe 12 (MB-ER12).

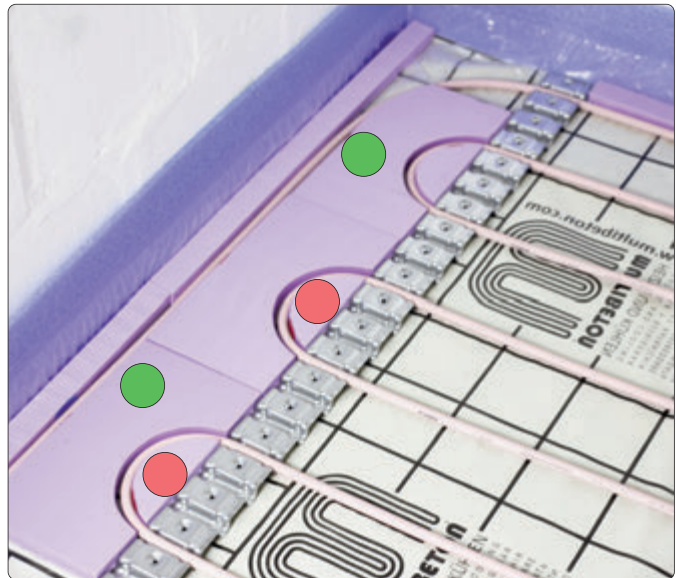
The outer bows ● are used firstly to maintain the distance.



### 02. Laying the inner bows and the system pipe

The inner bows ● are laid according to the system layout. The outer bows ● are now also positioned according to the system design. The MB Euro System pipe 12 (MB-ER12) is laid.

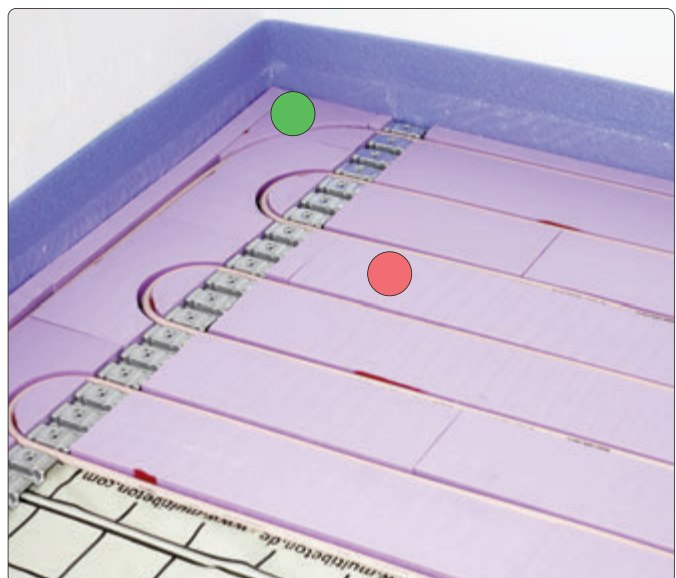
Once again, check the quality of the gaps for the smallest possible distance between MB Load distribution plates (MB-DVP), MB Steel clip rails 12 (MB-CS12) and MB Euro System pipe 12 (MB-ER12) and readjust if necessary.



### 03. Laying the strips (150 mm and 200 mm)

Now lay the strips ● (150 mm and 200 mm) for installation types A15 and A20 respectively. Please make sure that the tongue of the strips is placed under the pipe for better heat transfer and statics. Any gaps ● must be closed with cuttings of MB Load distribution plates (MB-DVP).

Proceed similarly with the other heating circuits as just described. Remaining gaps can be filled with the strips (17 mm or 37 mm).



#### 04. Laying the load distribution layer

A dry screed element is installed for the MB Dry Floor (TRB-17). Please read the system instructions from MULTIBETON or the manufacturer of the dry screed elements.

For the MB Ready Floor (FEB-19/18), the MB Steel tile is installed. As before with the MB Load distribution plates, start at the back left of the room and work to the right. Then the next row is laid.

The grooves of the MB Steel tiles are to be cut with the angle grinder in the corner where the installation is to begin and in the adjoining walls. This ensures that the MB Steel tiles are bonded all the way to the edge insulation strip.



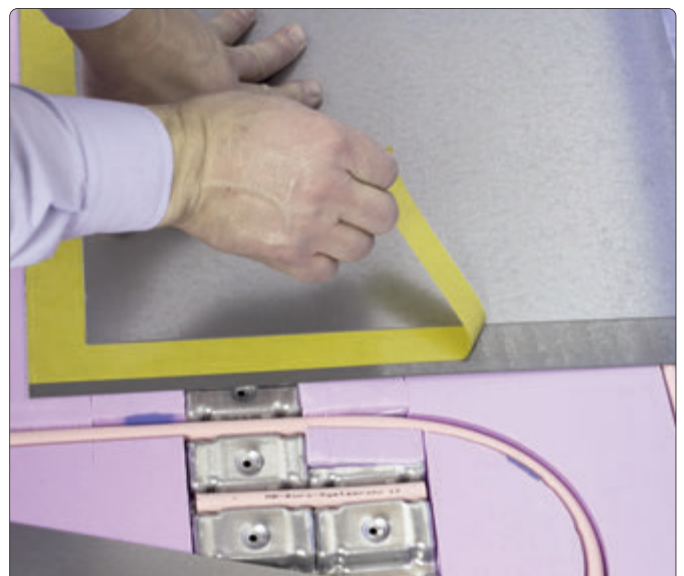
#### 05. Bonding the MB Steel tiles

It has proven advantageous to first lay some whole MB Steel tiles with tongue on groove on the previously mentioned MB Steel tiles without groove (still with underside protection foil) before removing the underside protection foil of the adhesive surface. Any necessary cuts must be planned and carried out for the entire room before removing the underside protection foil. The MB Steel tiles cannot be corrected after bonding.



#### 06. Removing the protective film from the tabs

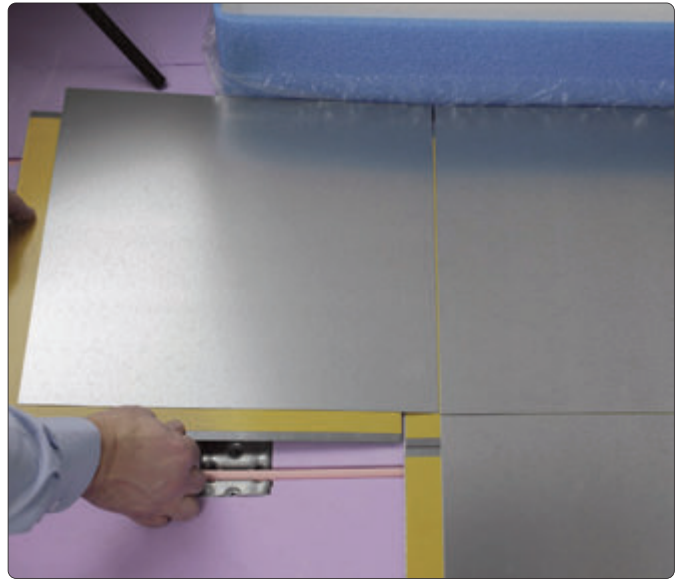
The protective film of the tabs is removed to align the next tile on the right or front side.





**07. Further laying of the MB Steel tiles**

Measurements are taken at the edges, cut to size and checked again and again (with protective foil). Only when the measurements are really certain are the protective foils removed and the MB Steel tiles firmly glued in place.

**08. Walking on and heating up**

At the end of installation, the MB-Steel tiles must be walked on at least once with the full weight of the body.

Before the top floor is laid, the MB Dry system is heated up for at least 3 hours.

