

INSTALLATION GUIDELINE

HEATING/COOLING WALL

OPTIPANEL 15 - UNPERFORATED

WITH INTEGRATED CAPILLARY TUBE MAT



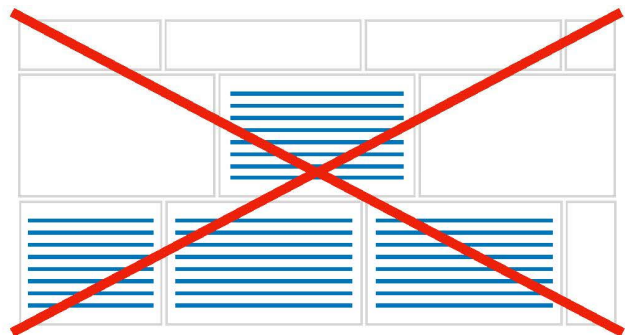
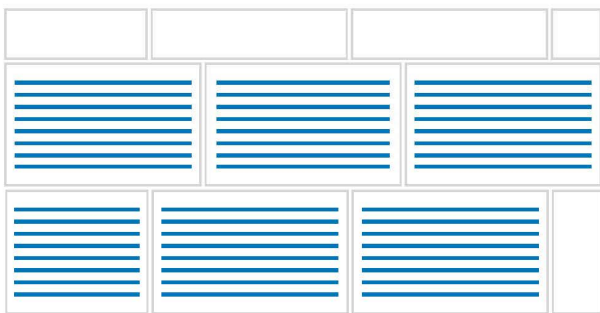
Clina OPTIPANEL 15 is a prefabricated gypsum board panel with an integrated capillary tube mat. The OPTIPANELS are screwed onto a stud frame. On the visible side there is a seamless gypsum board wall for the removal or supply of sensitive heat loads, to a large extent via radiation, partly also via convection

Several OPTIPANELS can be connected in series within a room.

To achieve a uniform flow through several rows, they should be of the same type, i.e. the total number of OPTIPANELS must be divided into rows with the same number of identical OPTI-PANELS within a room (see illustration).

The maximum permissible number of OPTIPANELS in a row is determined by the pressure drop of max. 25 kPa.

A deviation of -1 in the number of OPTIPANELS in a row is tolerable.



Dry construction

Plant engineering

1. installation of the piping or supply lines for the OPTIPANELS 15 in the ceiling void, the floor duct or the decking
2. installation of the stud frame according to the general rules of drywall construction
 - crosswise installation of the OPTIPANEL 15 to size-adapted stud frame
3. fixation of the flow and return flow line in the cavity of the wall
4. Screw the prefabricated OPTIPANELS 15 (unperforated) onto the stud frame. The screws are screwed in through holes drilled in the factory.
5. connection of the OPTIPANELS 15 to each other in a row and to the flow and return flow lines with the flexible hoses **SNY10.0800** according to the previously determined number per row

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The flexible hoses must be inserted into the push-lock connections all the way to stop and checked for correct fit by pulling!

When inserting the flexible hoses into the push-lock connections of the capillary tube mats, hold the mat distributor pipes of these mats in place.

6. After correct installation of the OPTIPANELs 15 and before the entire closing of the wall, the system must be subjected to an initial leak test with 3 bar compressed air for at least one hour.

The pressure must be checked continuously at the pressure gauge and the result must be recorded in a corresponding report.

7. The connection of the rooms to the piping of the overall system is done by the plant engineer, who connects the flow and return flow lines with a decentralized room control group or a centrally located distributor.
8. Depending on the scope of performance, the zones must be filled and flushed with the system medium via the ceiling sub-distributor.
9. After filling and venting, a leak test with 10 bar over 24 hours must be carried out and recorded.

Regarding filling, venting and leak test please take note of the Clina guideline CR02 "Filling, venting and leak test".

10. After the successful leak tests first with air and then with liquid medium, the wall can be completely closed with the inactive panels.