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ENERPIA Co.,Ltd.

Installation instructions

EP Board dry panel

Before installation, carefully read this manual and prepare the required products.

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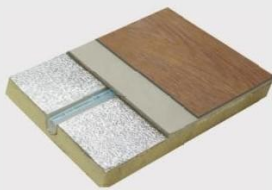
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EP Board dry panel standard specification

1 General instructions

- 1) Application scope** This specification is about EP Board dry panel installation, and it is applied to the installation construction.
- 2) Related specifications** The details other than those mentioned in this specification, which are related to the construction, follow the housing construction special specifications.

2 Materials



■ EP Board dry panel



■ Heating pipe



■ Divider



■ Protective material
[CRC board,
protective plate, etc.]

- 1) Heating pipe specification is 12A or 15A product, and use it appropriately according to the site situation.
- 2) Protective plate and CRC board are for the same purpose, and selectively use according to the function and finishing material of each product.

3 Construction

Precheck

1) Check floor flatness

- ① If the floor is rough or uneven, use horizontal mortar to make the floor flat before the construction.

2) Discussion on the windows and other processes

- ① During the building process, it shall be constructed after window construction (after designating the finish line).
- ② During the discussion on the process, construct within a few days from the floor finishing process, if possible.

☑ Construction procedure

1) Divider installation

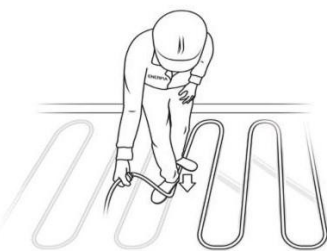
- ① Decide the number of dividing gates so that divider does not exceed 17m² per each dividing, and install through the discussion on the installation location with the person in charge.

2) EP Board dry panel installation



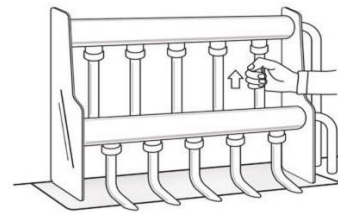
- ① Set the divider location and review the difference between the pipe system design drawing and the site.
- ② For EP Board dry panel, install curved part panel first and then install straight line part panel.
- ※ When you position the panels, decide the direction of the panel so that the water in/out part is closest to the divider.
- ③ After completing the positioning of the panels, if necessary, fix the connection part with silver foil tape.

3) Pipe installation work



- ① Select the closest distance from the divider for the piping.
- ② If necessary, when it is decided that it is easy for the pipe installation, make new line using trimmer or cutter knife for the piping.

4) Divider connection work



- ① Connect the installed pipes using coupling that suits the pipe specification (12A, 15A) to the already designed and installed distributor.

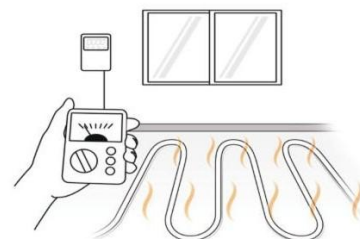
5) Protective material installation (protective board, CRC board, etc.)



- ① When you install protective material, do not let EP Board dry panel's corner part and protective material's corner part overlap each other.
- ② During the protective material construction, have gap of about 1mm to prevent deformation by thermal expansion.

6) Heat generation test and trial operation

(1) During Heating X-L Pipe installation



- ① Measure load current in the load side using current meter and carry out heat generation test.
- ② If existing socket is used, power cable connection shall be within max. of 15A. (General socket capacity is 15A)

(2) During boiler connection

- ① When the boiler starts and heating water flows into EP board, check the surface temperature of the EP board construction part with the surface temperature measurement equipment.
- ② Check the surface temperature to decide if the heating water flows, and if there is a problem, re-construct EP board.

4 Inspection standard

1) Function inspection and final inspection

Classification	Inspection category	Checks and actions
Visual inspection	- level difference - shaking	- Flatness check : After the construction of the heating pipe, for the part with level difference (2mm or more) or shaking, additionally fix to maintain flatness, and then carry out floor finishing material construction.

2) How to decide water leakage and check leakage point

- ① When there is no water leakage in pressure measurement equipment or meter connection part, if pressure gauge is down by 1 kgf/cm² or more, decide it as that there is a leakage point.
- ② Especially, if leakage by connection part damage or material damage occurs, pressure down of the level that can be visually noticed occurs within 30 minutes, so in such case, quickly use soap water and leakage detector to check the leakage point and repair, and then carry out the pressure inspection again.
- ③ In case of small pressure down of about 1 kgf/cm² in 24 hours, there are many cases of water leakage in the pressure measurement equipment connection part, so inspect again with soap water in the connection part.

EP Board dry panel construction cross-sectional diagram

