



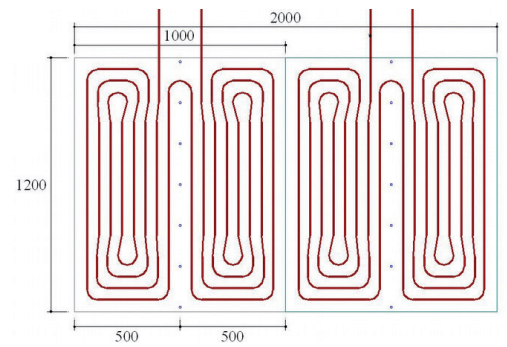
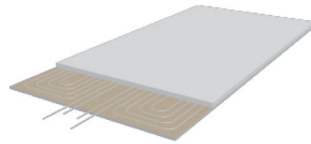
AKTIVBOARD DATA SHEET

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PANELS TYPE

AKTIVBOARD 50S

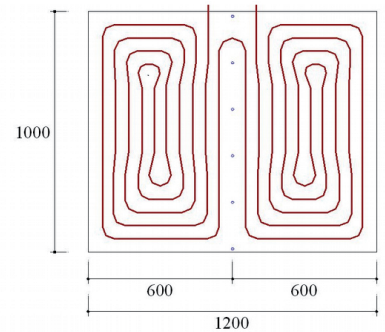
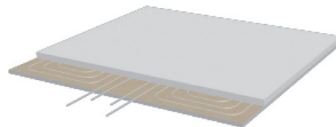
- Size: 1200 x 2000 mm
- Spiral circuit
- Pipe spacing 50 mm
- 2 independent circuits



Prefabricated radiant panel with 2 independent circuits.

AKTIVBOARD 50S

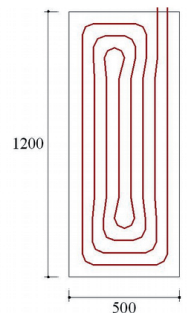
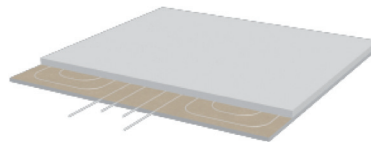
- Size: 1200 x 1000 mm
- Spiral circuit
- Pipe spacing 50 mm
- 1 independent circuit



Prefabricated radiant panel with 1 independent circuit.

AKTIVBOARD 50S

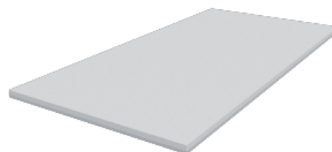
- Size: 1200 x 500 mm
- Spiral circuit
- Pipe spacing 50 mm
- 1/2 independent circuit



Prefabricated radiant panel with 1/2 independent circuit.

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- Size: 1200 x 2000 mm



Prefabricated radiant panel with no circuits.

Panels can be cut in all directions and in all sizes because it does not contain circuits.

DATA SHEET

Size available	1.200 x 1.200
Custom cut	1.000 x 1.200, 500 x 1.200 mm
Available insulation	Reflex, EPS, Wood Fiber
Plasterboard thickness	15 mm
Insulation thickness	Reflex 4 mm EPS 30 mm Wood Fiber 40 mm
Weight (load)	12,3 Kg/m ² (slab only) Reflex 12,6 Kg/m ² EPS 13 Kg/m ² Wood Fiber 20,9 Kg/m ²
Thermal conductivity	Plasterboard 0,25 W/mK Reflex EPS 0,035 W/mK Wood Fiber 0,046 W/mK
Weight (laying pipe)	50 mm
Operational temperature	Min. +5 °C Max. +60 °C
Flow	20 lt/circuit
Circuit length	22 m
Water flow	0,7 lt/circuit
Pressure drop	0,047 bar/circuit
Allowable pressure	Max 4 bar

RADIANT PANELS THERMAL PERFORMANCE

Aktivboard panels heat output calculated relying on Aktivboard 50S EPS panel.

YIELD IN HEATING		
Flow temperature °C	Yield W/mq	Surface temperature
28	24	23,4
30	33	25,0
32	42	26,2
34	51	27,6
36	61	29,1
38	70	30,6
40	80	32
42	91	33,6
44	101	35,1

* Room temperature 20 °C, $\Delta T_w - T_a = 5$ °C

RADIANT PANELS THERMAL PERFORMANCE

WARNING!

The use of panel for cooling the environment must be designed according to the flow temperature T_w , the ambient temperature T and relative humidity RH of the environment. An erroneous calibration can lead to the formation of condensate in the surface of the panel with consequent degeneration of the panel itself.

YIELD IN COOLING		
Flow temperature °C	Yield W/mq	Surface temperature
14	57	20,9
15	48	21,0
16	46	21,9
17	41	22,0
18	36	22,8
19	31	23,1
20	25	23,7
21	20	24,1
22	17	24,5

* Room temperature 26 °C, $\Delta T_w - T_a = 2$ °C

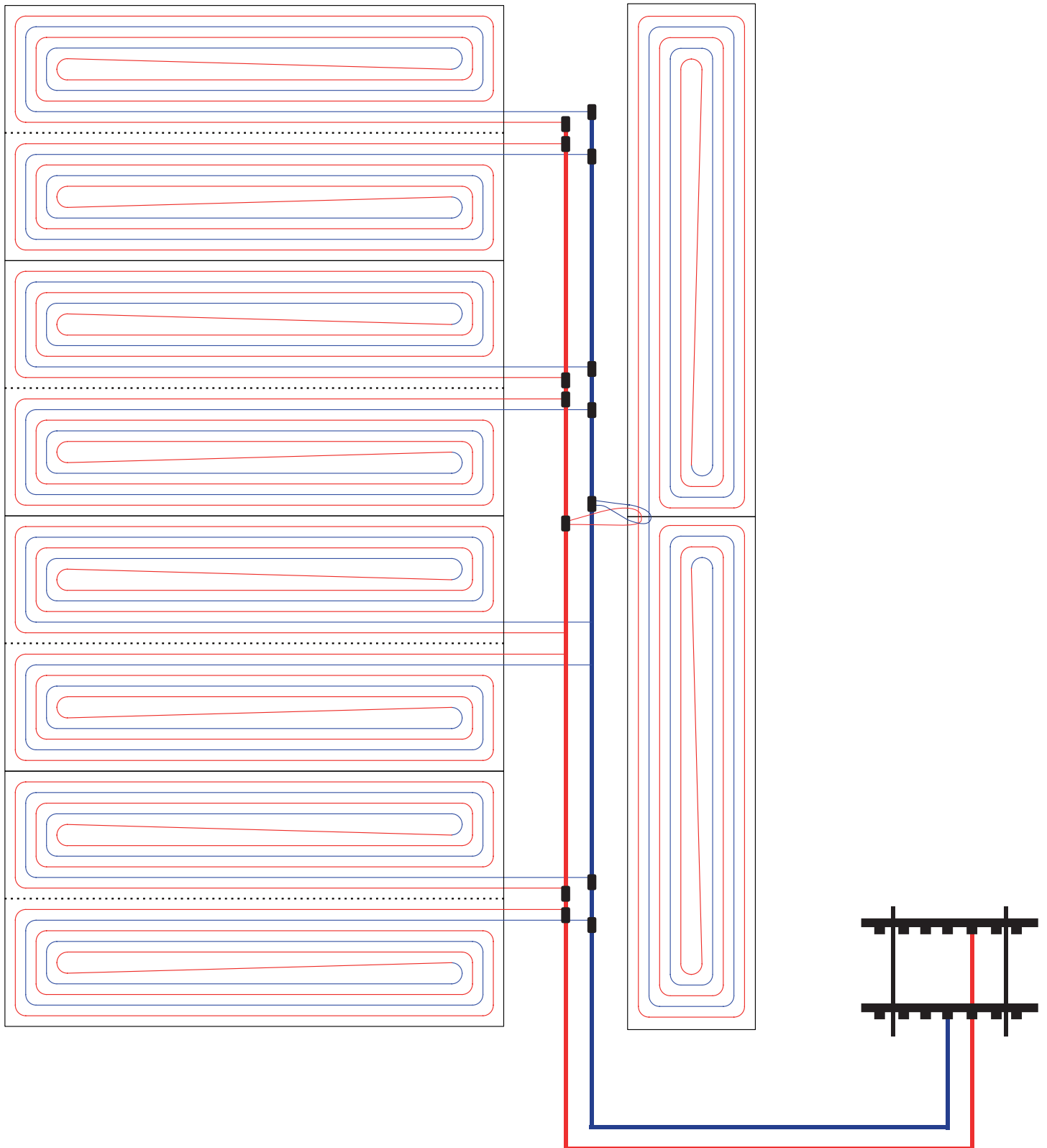
LAYING SYSTEMS

Thanks to the optimization of the measures, the panels are easily dissected in Aktivboard yard long red lines placed in the insulation of the back panel.

Even the realization of designs Installation is simple because it optimizes the active surface because the measures of the panels are all the same or multiple of 60 cm.

From the panel Aktivboard out 80 cm tube Pex that allow a large movement of the panel, in cases where the hose is not sufficiently long, on request performing custom panels.

For any requirement NORDTEX technical staff is able to support both the installer of the panels that the designer of the plant and therefore provide all the conditions for the construction in a workmanlike entire system.





AKTIVBOARD DATA SHEET

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