Island system

General description

Ceiling panels made of steel, micro-perforated 0.7 mm. Upright edges folded at an angle of 45°, 60°, 90°, height 50 mm.

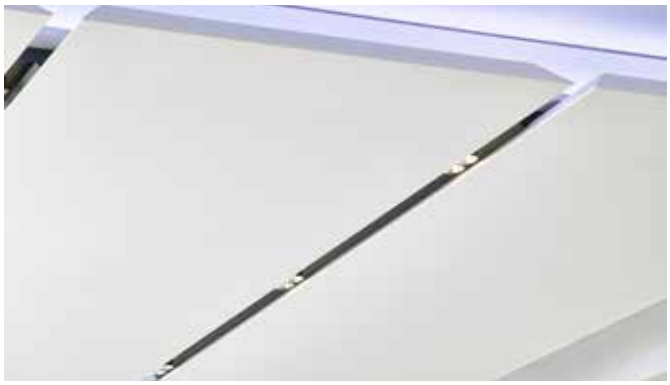
Panel dimensions:	Length	2000 – 2400 mm
	Width	860 – 1075 mm
	Other dimensions can be determined in consultation.	

Cooling register uses a CLIMA TUBE glued into the ceiling panel.
Tube diameter: 14.8 mm
Tube spacing: 50, 75, 100 mm

After having undergone all machining processes, the panels are painted with thermally hardened powder coating with a minimum layer thickness of 60 µm and a gloss level of 20%.

Panels can optionally be fitted with fall protection so that work above the ceiling can be carried out safely and in a controlled manner afterwards without the need to interrupt activation. The panels are fitted as standard with micro-perforation (other perforations possible on request) and acoustic fleece. Optionally equipped with mineral wool sealed in PE film.

A suspension construction can consist of an angle profile, Z-profile, or U-profile, as well as a reinforcement profile for the panel. The reinforcement profile can optionally be fitted with clips to stabilise the panel.
A finishing frame can also be provided as an option to hide the suspension construction. The finishing frame has the same paint specifications as the panels and can also be used to accommodate LED lighting lines or other technology.
Integration of building technology (workplace lighting, spotlights, ventilation, detectors, etc.) to be determined by mutual consultation based on the application and requirements.



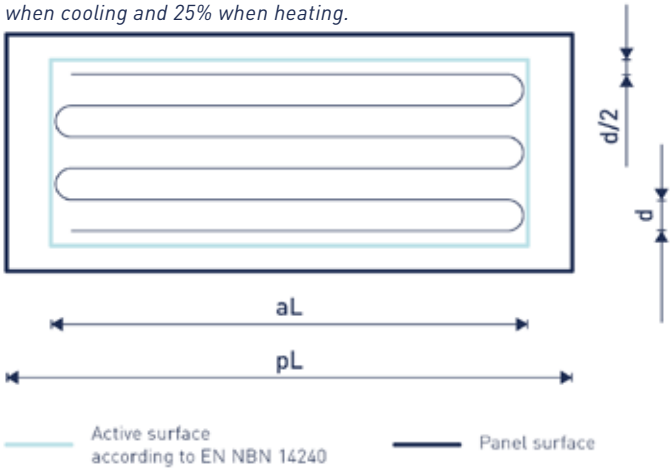
Technical data

POWER (*)	TUBE DISTANCE 50 MM	75 MM	100 MM
Cooling (ΔT = 10°K)	135 W/m²	116 W/m²	99 W/m²
Heating (ΔT = 15°K)	174 W/m²	161 W/m²	133 W/m²

MINIMUM ACOUSTIC ABSORPTION (α_w) (**):

With acoustic fleece 0.65 ..... 0.65
With mineral wool, 30 mm thick and 45 kg/m² density 45 kg/m² 0.80
With mineral wool and plasterboard overlay 12.5 mm 0.75
With mineral wool and steel plate overlay 0.7 mm 0.75

When insulation is added to the island panels, the power drops by 12% when cooling and 25% when heating.



Possible configurations

Other configurations can be determined in consultation.
Lighting options: Lighting between panels
Lighting incorporated in panels or band grid
Other integrated features, e.g. sprinkler, ventilation, smoke detection, are possible in consultation.

(*): according to active surface as described in EN NBN 14240/EN NBN 14037 active surface: interface length energy transfer element (aL) x tube spacing (d) x number of rows of tubes.
(**): for a perforation pattern of 21% and 1.8 mm in diameter