J'Sky
CLOSED SYSTEM

TECHNICAL SPECIFICATION SHEET

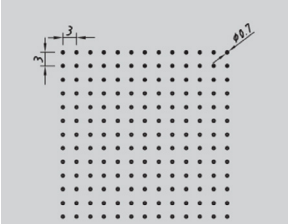
GROUP JANSEN
CEILING SOLUTIONS

CLOSED SYSTEM.

The intelligent J'Sky ceiling integrates several innovative technologies, including cooling & heating, acoustics, lighting, ventilation, etc. into one sleek ceiling. The result: more space, limited installation costs and a comfortable working and living environment. This specification sheet contains all the technical information about the closed climate ceiling, consisting of steel micro-perforated panels in combination with strip grid profiles and/or concealed suspension.

MATERIAL

- Ceiling panels made of steel with a microperforation of Ø 0.7 mm with free passage of 4%.
- Perforation possible up to the edge or continuous.



Rg 0.7 - 3.0 (n. DIN 24041)

PANEL DIMENSIONS & FINISH

The dimensions are based on the modulation of the building.
Maximum panel size 3,000x600x50 mm (LxWxH).

The panels are supplied with raised edges folded at an angle of 90°. The end sides of the panels are designed with a hook shape that forms the connection to the suspension structure.

POWDER COATING

- Thermally cured powder coating in accordance with EN 13501-1 A1
- Minimum layer thickness of 60 µm and a gloss level of 20%
- The standard colour is RAL 9010.
- Other colours or decorative foil to fully personalize it are possible on request

FIRE STABILITY & FIRE RESISTANCE

Fire stability and fire resistance certificates are available.
Fire stability: test under load-bearing structure > 30 minutes fire stability according to NBN 713.020. Test report No. 13975. Fire resistance: classification A1, according to the standard EN13501-1. Classification report No. 16-901 0584-80

SUSTAINABILITY & WELL BEING PERFORMANCE

Significant contribution to BREEAM valuation through low energy consumption and recyclable materials. Improvement of the contribution of WELL valuation through the use of a radiation principle.

BREEAM®

FALL PROTECTION

Panels are equipped with fall protection in order to be able to carry out work above the ceiling in a controlled and safe manner without the need to interrupt activation.

SUSPENSION CONSTRUCTION

2 options:

- Bandgrids system: painted bandgrid profiles with similar paint specifications as the panels. C-bandgrid widths in 100/125/150/225/300 mm.
- Continuous system: concealed suspension profiles.

The bandgrid or concealed suspension profiles are attached to the architectural ceiling

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BANDGRIDS SYSTEM

CONTINUOUS SYSTEM

INTEGRATIONS

Lighting options:

- Between panels
- Incorporated in panels or technical panel

Other integrations of construction technology e.g. ventilation, speakers, sensors, sprinklers, motion or fire detectors etc. are possible in consultation.

TECHNICAL DETAILS

- Cooling register with its own patented tube, glued into ceiling panel
- Tube diameter: 14.8 mm
- Tube spacing: 50, 75, or 100 mm

CAPACITY

	TUBE SPACING		
CAPACITY	**50 MM**	**75 MM**	**100 MM**
Cooling (ΔT = 10°K)	104W/m²	92W/m²	78W/m²
Heating (ΔT = 15°K)	118W/m²	104W/m²	90W/m²

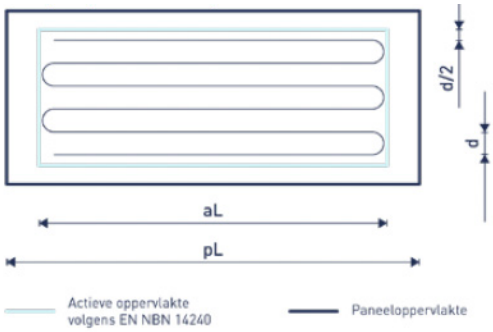
The power is calculated according to the active surface as described in EN14037 and without acoustic insulation. Active surface = contact surface length of energy transfer element (AL) x tube spacing (d) x number of tube rows.

MINIMUM ACOUSTIC ABSORPTION (α_w)*

The panels are supplied with micro perforation and acoustic fleece as per standard.
Optionally equipped with mineral wool sealed in PE film.

	α_w	Absorption class
With acoustic fleece	0.65	C
With rock wool, thickness 30 mm and density 45 kg/m²	0.80	B
With rock wool and application of plasterboard 12.5 mm	0.75	C
With rock wool and application of steel plate 0.7 mm	0.75	C

Absorption class DIN EN 11654.



TRANSITIONAL-SOUND INSULATION	BARRIER		
	NONE	22 DB	30 DB
With acoustic fleece	14 dB		
With rock wool, thickness 30 mm and density 45 kg/m²	25dB	41dB	48dB
With rock wool and placement of plasterboard 12.5 mm	48dB		
With rock wool and application of steel plate 0.7 mm	41dB		

* carried out with a perforation pattern of 21% and 1.8 mm diameter

PROJECT APPROACH

Would you like to know more about specific project applications or can we help you think about a tailor-made project? Then contact us and we will be happy to help you!

BECOME A PARTNER

Interested in becoming a partner to install our climate ceilings? We are happy to train you through our Jansen Star Academy.

CONTACT US

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More information about our island system?
Discover the technical data sheet on our website.