



CHILLED CEILING FINS

Consistently straight

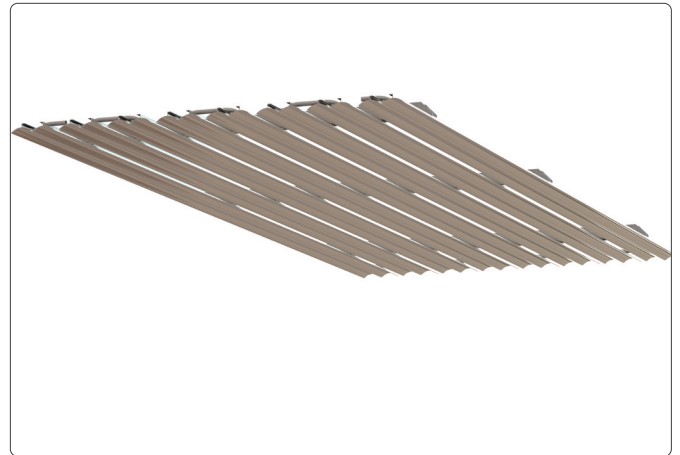
Tailor-made solutions for indoor climate



CONSISTENTLY STRAIGHT

The Chilled ceiling fins A61/A71 are a powerful climate ceiling system for cooling and heating. The special geometry of the fins with rounded aluminium profiles ensure freedom from draughts and compliance with standards regarding room air velocity, even at the highest cooling capacity. The fin elements can be arranged as an island or a field on the ceiling.

- Ideally suitable for buildings with high cooling and/or heating load requirements
- Provides the highest level of thermal comfort
- Powerful and energy efficient



CEILING APPEARANCE
open

OPERATING PRINCIPLE
Convection

AIR SUPPLY
visible

CAPACITY
Cooling: 140 W/m² (8 K), EN 14240
Heating: 137 W/m² (15 K), EN 14037:2003

ACOUSTICS
Can be combined with sound absorber

ROOM COMFORT
Thermal comfort according to EN ISO 7730, SIA 382/1

AKTIVIERUNG

- Copper tube meander pressed into the aluminium profile
- Copper tube: Ø outer 12 mm

FUNCTIONS



Chilled ceiling fin element, view from above

REFERENCES



Library, Mendrisio
(and cover picture)



Bettgeschichten, Zurich

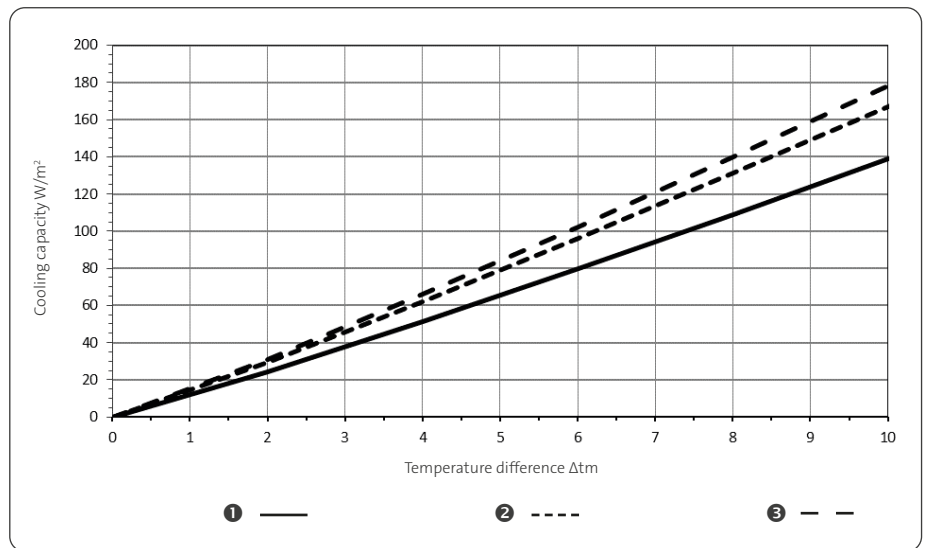
CAPACITY DATA

Initial data

Version	Ceiling field	Ceiling field	Sail
Construction	① Integrated in a suspended ceiling with free cross section 50 %	② Free-hanging ceiling field without a suspended ceiling	③ Free-hanging sail without a suspended ceiling
Occupancy rate	70 %	70 %	30 %
Suspended height	300 mm	300 mm	500 mm

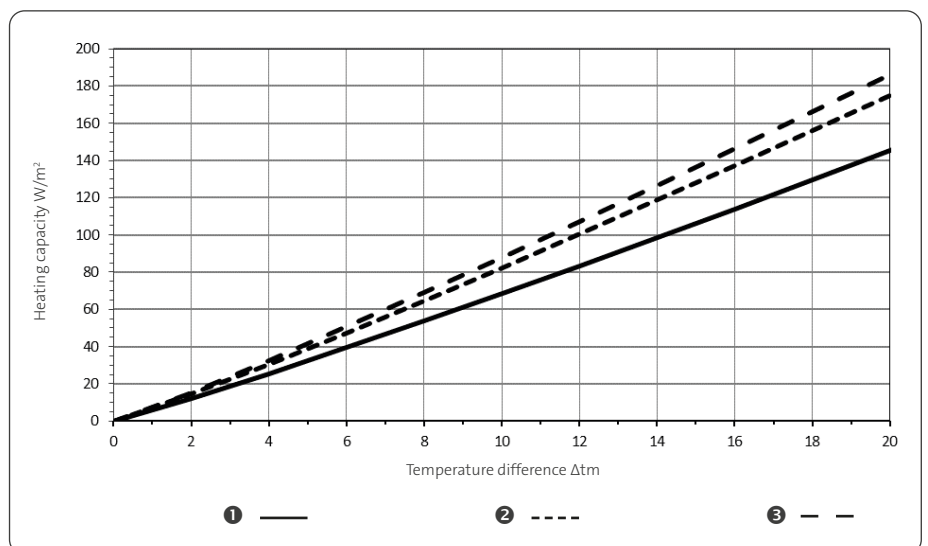
Cooling

- up to 140 W/m² (8 K)



Heating

- up to 137 W/m² (15 K)

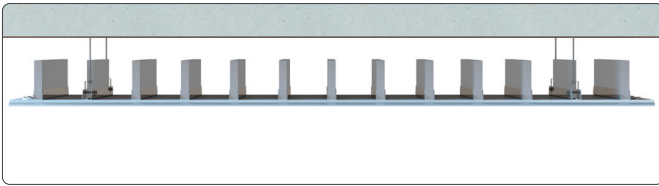


ACOUSTICS

- Arrangement examples
 - with vertical sound absorption elements

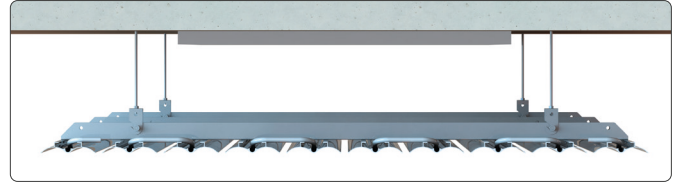


Front view; Baffles placed across the fins



Side view; Distance between the baffles min. 10 cm

- with horizontal sound absorption element



Front view

SYSTEM / OPERATION

Construction

- Ceiling system open
 - Ceiling element with fins
- Installation system
 - With threaded rods or ropes

Water

Recommended:

- Temperature: cooling 16 – 18 °C, heating 28 – 37 °C
- Temperature distance Δt (in-out): 2 – 3 K
- Pressure drop: 20 – 25 kPa
- Water flow: 80 – 150 l/h
- Max. operating pressure: up to 9 bar
- Water quality: SWKI BT 102-01 / BTGA 3.003 / VDI 2035

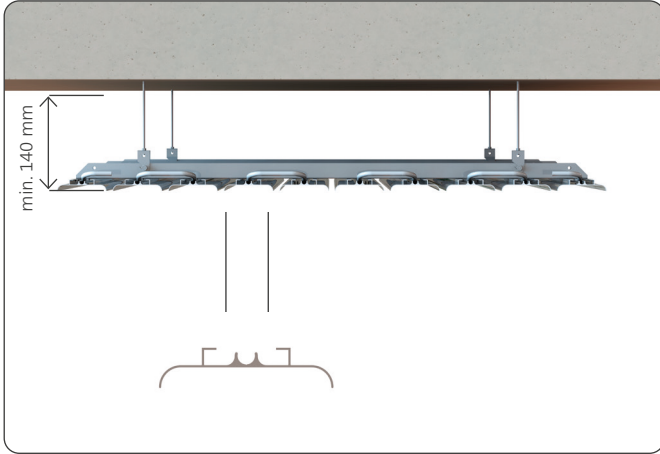
Surrounding

- Ambient temperatures: +5 – 50 °C
- Humidity: up to 90 % relative humidity

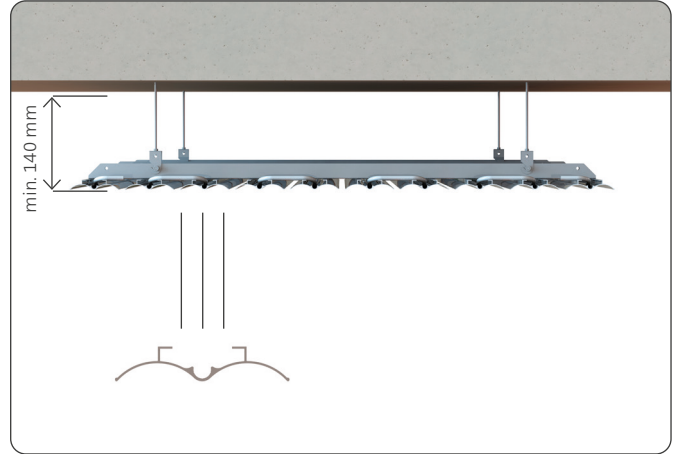
TECHNICAL SPECIFICATIONS

Types

- Fin type C



- Fin type M



Dimensions

- Installation height: min. 140 mm
- Standard dimensions:
 - Length: 1000 – 3000 mm
 - Width: 390 – 1065 mm
 - Height: 47 mm
- Special mass on request

Material and weight

- Material
 - Fins: aluminium
 - Extruded press profiles: aluminum
 - Meander tube: copper
 - Supporting structure: steel
- Weight
 - 9 kg/m² (incl. water)

Versions

- Surface: powder coating
- Colours: Standard RAL 9010 and 9016, other RAL or NCS colours on request

FIRE PROTECTION

- Building material class A2-s1, d0, EN 13501-1

CERTIFICATION

- ISO 9001

SWITZERLAND



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