

# SOFTLINE WOOD

High performance module



## QUICK FACTS

- Thermal comfort according to EN ISO 7730
- High heating & cooling capacity
- With optional absorbers:  
Advanced sound absorption values (class B)
- Real wood
- Easy installation
- Can be combined with CAURUS
- Integration of various components
  - Different lighting designs
  - Sprinklers
  - Smoke detectors
  - Supply / extract air elements

Capacity (water)	
Cooling	Heating
Up to 90 W/m <sup>2</sup> (8 K), EN 14240:2004	Up to 86 W/m <sup>2</sup> (15 K), EN 14037:2016
Acoustics with sound absorber	
α <sub>w</sub> : up to 0.85	

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Acoustic panel solutions

# Technical description

## General

The high-performance module SOFTLINE WOOD is a climate ceiling system that combines the natural aesthetics of real wood with high-performance heat conducting profiles to create an optimum indoor climate.

The real wood slats are not only visually appealing, but also acoustically active, ensuring pleasant room acoustics. The high-performance heat-conducting profiles are circulated by the room air and enable efficient climate control - both for heating and cooling.

## Activation

Water system: the radiant ceiling is a passive system which absorbs heat via the ceiling surface (cooling application) or transfers it to the room (heating application).

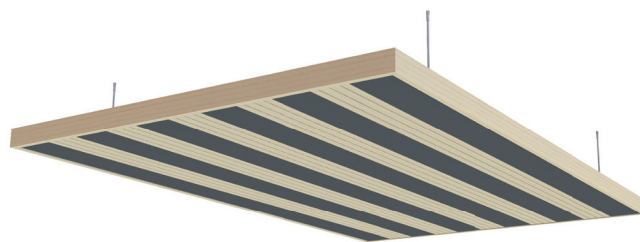
The SOFTLINE modules are activated by copper pipe meanders (external diameter 12 mm) which are pressed into the aluminium fins.

## Functions

The high performance modules are multifunctional. In addition to their thermal functions of cooling/heating, they can also be fitted with additional features, such as acoustic elements, smoke detectors and lighting.

## Combinations

- SOFTLINE WOOD + CAURUS



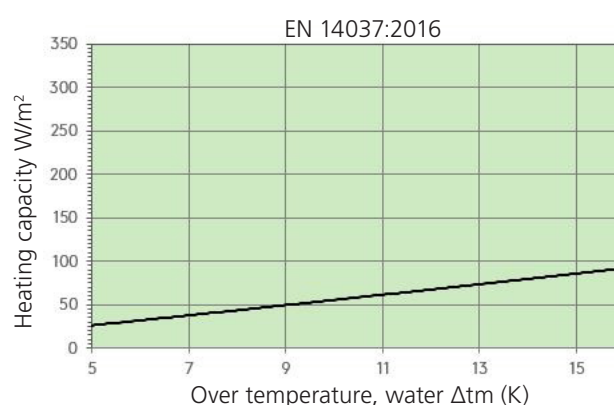
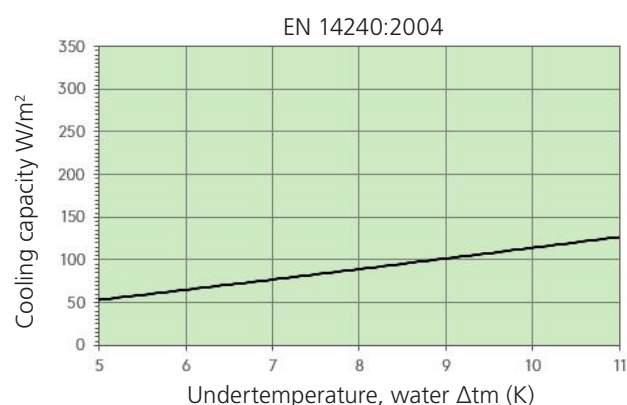
# Technical data

## Capacity

Design example:

Module length	1000 mm to 2550 mm
Installation height	min. 180 mm
Supply/extract air <small>(Combination options with ventilation system on request. With supply air, the capacity increases by 5 % in office space.)</small>	None

(Performance data without project-specific factors that affect performance.)



Version	Cooling 8 K	Cooling 10 K	Heating 15 K
SOFTLINE WOOD high performance module	Up to 90 W/m <sup>2</sup>	Up to 114 W/m <sup>2</sup>	Up to 86 W/m <sup>2</sup>

### Note

- SN EN 14240: The cooling capacity is based on the active surface area according to SN EN 14240:2004. The active surface area is calculated according to SN EN 14240 from the number of heat conducting rails x heat conducting rail length x heat conducting rail spacing.
- SN EN 14037: The heating capacity is based on the active surface area according to SN EN 14037:2016. The active surface is calculated according to SN EN 14037 from the ceiling panel length x ceiling panel width.

## Recommendations for use

### Water

- Flow temperature
  - For cooling: 16 – 18 °C
  - For heating: 28 – 37 °C
- Temperature spread  $\Delta t$  (flow - return)
  - For cooling: 2 – 3 K
  - For heating: 3 – 5 K
- Pressure drop: 20 – 25 kPa
- Water flow rate: 90 – 200 l/h
- Max. operating pressure: up to 9 bar
- Water quality according to: SWKI BT 102-01, BTGA 3.003, VDI 2035

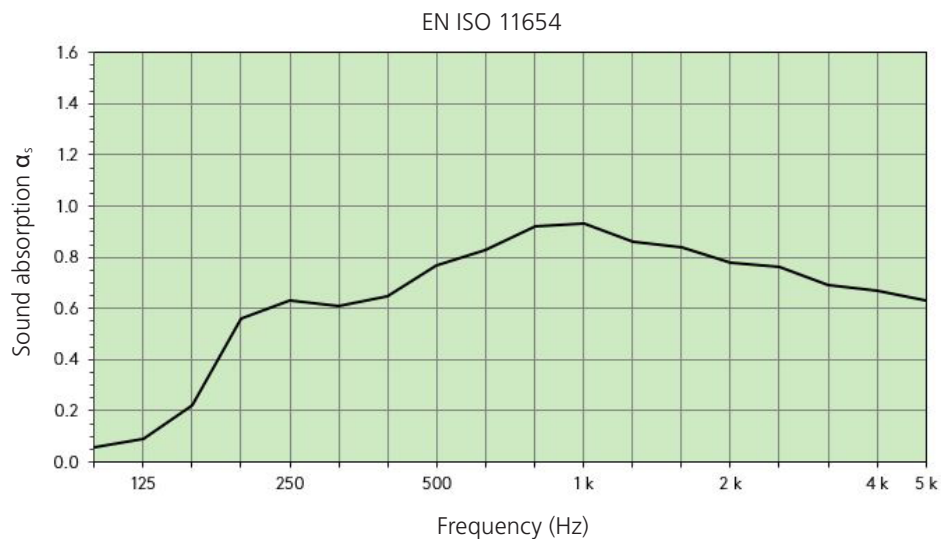
### Environment

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

## Acoustics

Baseline data, example:

Installation height	min. 180 mm
Acoustic inlay	Fleece
Additional inlay (mineral wool)	with
Sound absorption $\alpha_p$	250: 0,63 500: 0,77 1k: 0,93 2k: 0,78 4k: 0,67
Sound absorption $\alpha_w$	$\alpha_w$ : 0,85
Sound absorption class (EN ISO 11654)	B



## Fire safety

- Building material class B-s1,d0, EN 13501-1 (without sound absorber)

# System

## Ceiling system

- High performance module with fins
- Real wood between the fins

## Installation systems

- Installation height: min. 180 mm
  - Threaded rods
  - Mounting bracket

# Material, weight and dimensions

## Material and weight

Material	Weight (incl. activation elements, water)
Aluminium fins and wooden fins with frame	Approx. 10 kg/m <sup>2</sup>
Aluminium fins and wooden fins without frame	Approx. 9 kg/m <sup>2</sup>

Building material class: B-s1,d0, EN 13501-1  
(depending on acoustic elements and surfaces).

## Surface

### Finishes

- Powder coating
- Anodised
- Wooden fins

### Colours




- Standard: RAL 9010
- For other RAL/NCS colours, please enquire
- Common anodised colours

### Wooden fins

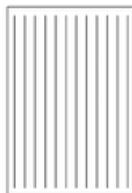
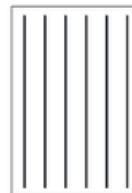
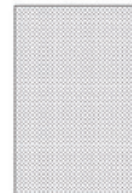
- 3-layer panel white fir
- MDF veneered European oak
- MDF veneered American walnut
- Other types available on request

## Real wood veneers

### Surfaces

3-layer panel white fir	MDF veneered European oak	MDF veneered American walnut
		

### Perforations

Classic 14/2 M	ARIA-Plus 28/4 M	Micro 2/2/0.5 M
		

## Dimensions

	Length	Width	Height	Pipe rows	Pipe spacing
With frame	1050 mm – 2550 mm	650 mm – 1370 mm	60 mm	3 – 6	240 mm
Without frame	1000 mm – 2500 mm	600 mm – 1320 mm	50 mm	3 – 6	240 mm

Custom dimensions on request.

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