

Zehnder Segel Vario

Climate sail with flexible individual suspension

always the best climate

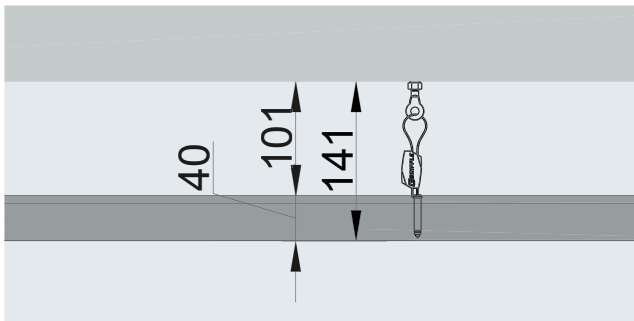
General

Climate sails are intended for the targeted delivery of heating and cooling. A single suspended unit appears light and elegant, yet highly flexible and practical. Both small and large rooms benefit from the excellent sound absorption and good design.

Benefit

- High heating and cooling capacity
- Acoustic efficiency
- Lightweight and elegant suspension
- Suitable for all activation variants
- Material-saving and functional
- Can be combined lengthwise and widthwise

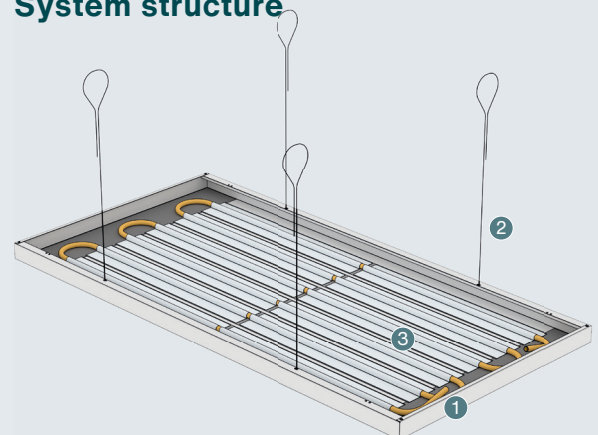
Ceiling height



Minimum suspension height $D = 141$ mm - here with sail height 40 mm. For free suspension with wire system, alternatives possible.



System structure



- 1 Metal cassette
- 2 Activation (copper-aluminum)
- 3 suspension wire, alternatively threaded rod

Technical data:

Material

Cassette: Galvanized steel sheet 0.7 mm / 1.0 mm
Activation: copper-aluminum, copper-graphite
Insulation: Mineral wool in LDPE foil,
(optional) others on request

Cassette sizes

Sail

Length: Max. 3000 mm
Width: Max. 750 mm
Height: 40 mm

Mainsail

Length: Max. 3600 mm
Width: Max. 1250 mm
Height: 50 mm

Surface

Powder coating in color RAL 9016 (standard). Other RAL or NCS colors on request. Smooth or perforated surfaces, see sound absorption

Sound absorption

Perforated surfaces with different free cross sections possible. Standard perforation RD 1.5-2.83 % free cross section 22%. Weighted sound absorption coefficient according to DIN EN ISO 354: $\alpha_w = 0.55-0.95$

Climate ceiling weight

Weight approx. 11 kg/m² for sail. Including activation and substructure. Additional installations and structures not included.

System conditions

Operating temperature: Max. 50 °C
Operating pressure: Max. 10 Bar

Fire behavior

A1 - non-combustible according to EN 13501-1

Power heating and cooling (active)

Copper-aluminum activation:

Nominal cooling capacity (10 K)
128 W/m² according to EN 14240
Nominal heat output (15 K)
172 W/m² according to EN 14037

Copper-graphite activation:

Nominal cooling capacity (10 K)
176 W/m² according to EN 14240
Nominal heat output (15 K)
197 W/m² according to EN 14037

Information for perforated ceiling with 22% free
Cross section without rear insulation.

Hydraulics

Connection size DN 10 and DN 12 (depending on activation). Meander guidance for same and opposite end connections possible.

Recommended pressure drop per heating circuit:
Max. 30 kPa

Standards

The components comply with DIN 18168 and EN 13964 incl. CE marking of the standard systems. Production is carried out according to the guidelines of TAIM (Technical Working Group of Industrial Metal Ceiling Manufacturers).

Care instructions

Dry clean the visible side of the cassette with a soft cloth. Damp cleaning with a damp, soft cloth; use a light cleaning agent (e.g. glass cleaner, do not use abrasive cleaners or thinners).

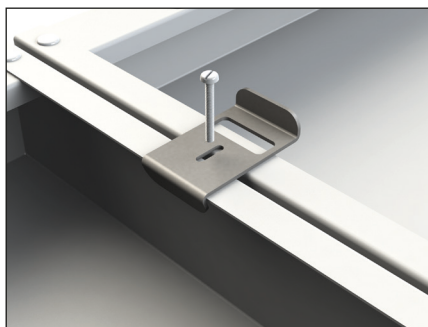
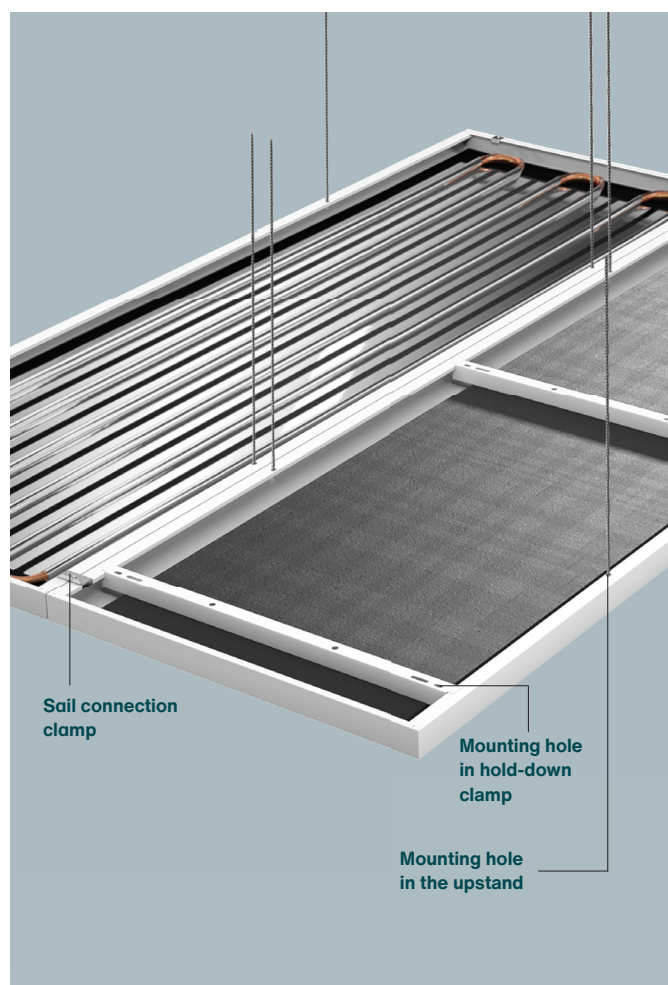
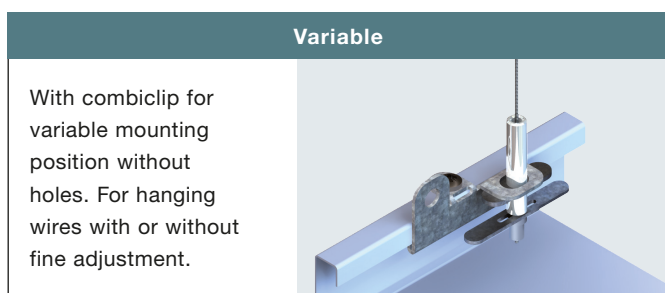
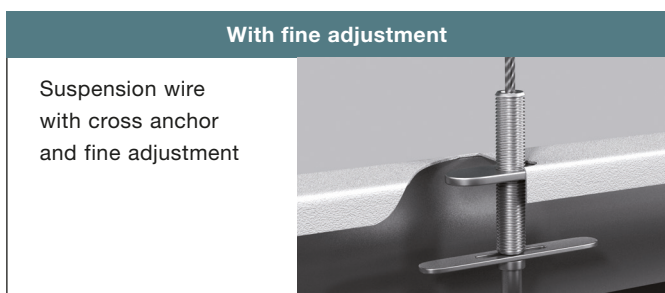
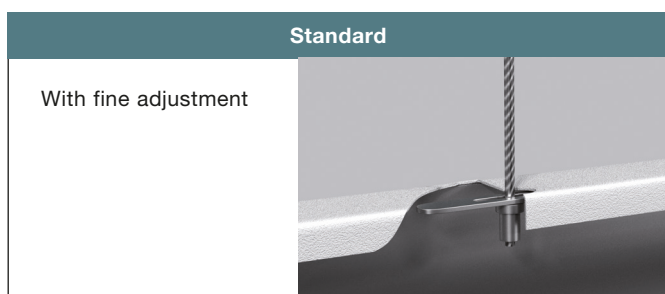
Mounting and revisability

Assembly and disassembly according to Zehnder assembly instructions, DIN 18168, EN 13964 and TAIM. Installation with at least one hanger per m² of ceiling area. Installations and superstructures must be additionally and, if necessary, suspended separately. Toolless folding down of the sails for inspection purposes.

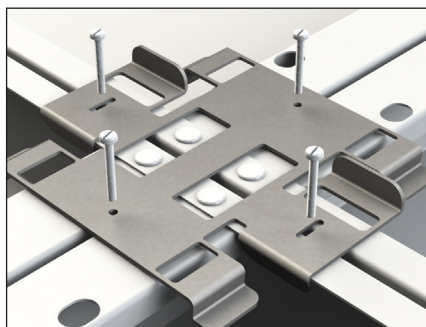
Assembly details

The number of mounting wires applies per sail and must be increased accordingly for connected sails.

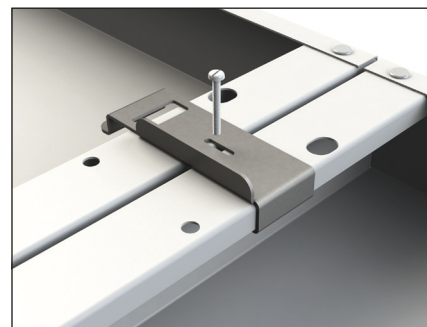
Number of panels	Panel width W in mm	Panel length L in mm	Number hangers	max. weight per hanger in kg
Single panel	600 - 1250	≤ 2400	4	9,8
		$2400 < L \leq 3600$	6	9,6



Sail clamp - Face connection



Sail clamp - Cross connection



Sail clamp - Longitudinal connection

