lineaCube®

LineaCube is an autonomous space with a unique and self-supporting, double flush glazed construction with patented, invisible glass connections. Ventilation, extremely good acoustic insulation and absorption, power, data, audio and lighting are integrated into the suspended ceiling.

COOLING OPTIONS

Ventilator

Standard integration of lineaCube.

- 85W
- 0-10V control
- 2580 rpm
- can be operated remotely

Ventilator capacity: the air refresh rate is 40 m^3 per person per hour at 30% of the ventilator capacity.*

Power (%)	Revolutions (min-1)	Noise level (dB)	Ventilation p.p. (m^3/h)
100	2800	63	158
50	1400	52	75
35	980	43	53
30	840	40	42
25	700	36	30

*Based on 2m^2 per person**

Climate Ceiling System

Optional integration of lineaCube.

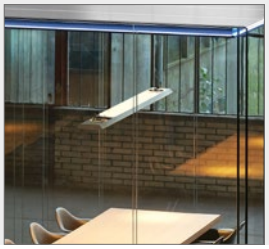
- Oxygen diffusion-tight cooling registers
- Cooling registers (thermally conductive) adhesively bonded to steel ceiling panels
- Ceiling panels provided with acoustic membrane
- Nominal cooling capacity: 104 W/m2 at ΔT=10K
- Including heat exchanger, secondary circulation pump, control valve, temperature sensor and thermostat
- Optional: cooling unit, including associated components

LIGHTING

Lighting system

Spots or pendant lamps

- Dimmable if required
- Can be operated remotely
- Pendant lamp above table must conform with 0-10V



Contour mood-light

- LED RGB
- 10 mm wide LED strip
- 48W
- 120 LEDs per metre
- Dimmable based on 0-10V
- Can be operated remotely

STABILITY

Stability

Strength, stability and applicability tested for the possible load situations of the lineaCube product;

- Wind pressure and wind suction for an indoor configuration
- A crowd pressing against the glass wall
- The impact of a ‘marble sling test’

LineaCube has been passed as structurally safe based on the following standards:

- NEN 8700 (11-2012)
- NEN-EN 1990 – Eurocode 0 Principles of Structural Design
- NEN-EN 1991 – Eurocode 1 Actions on Structures
- NEN-EN 1993 – Eurocode 3 Steel Structures
- NEN-EN 1991 – Eurocode 9 Aluminium Structures
- DIN 4103 (07-1984)
- TRAV 2003

NOISE INSULATION DB + REVERBERATION TIME

Noise insulation

Rw values according to ISO-717.

Wall,	glass:	up to 48 dB
Wall,	solid:	up to 53 dB
Ceiling,	perforated: (for the purposes of sound absorption)	up to 30 dB
Ceiling,	solid:	up to 53 dB
Door,	glass:	up to 41 dB
Door,	solid:	up to 44 dB

Sound absorption

- Reverberation time = 0.5 sec.*

*Assumed version:

- L x W x H: 3m x 4m x 2.75m
- Fully glass + 2 perforated wall modules (2 x 1.2 m wide; 5.8m²; 14%) + perforated ceiling (14%) incl. polyester and mineral wool with αw=0,75.

AUTOMATION PACKAGES

Control all your electronic equipment from your smartphone or tablet: lighting, ventilation, TV screen, sound, etc.

HOME AUTOMATION PACKAGES

Basic control

For light and ventilation.

Consisting of:

- Pendant lamp
- Ventilation

Optional integration:
- Climate Ceiling System
- Contour mood-light RGB with remote control

Operation via remote control with 4 buttons. Not suitable for smartphone and/or tablet.

Standard control

For light, ventilation, audio, video and multimedia. Consisting of the Basic control package plus:

- LED TV 60” in 6 mm flush glazed frame
- Sound Panels
- Media Walls: Apple TV & Chromecast

Optional:
- Clickshare
- Climate Ceiling System

Operation with Control4 via remote control, tablet and/or smartphone.

Premium control

Consisting of the Standard control package plus:

- Media Walls: + Touch screen

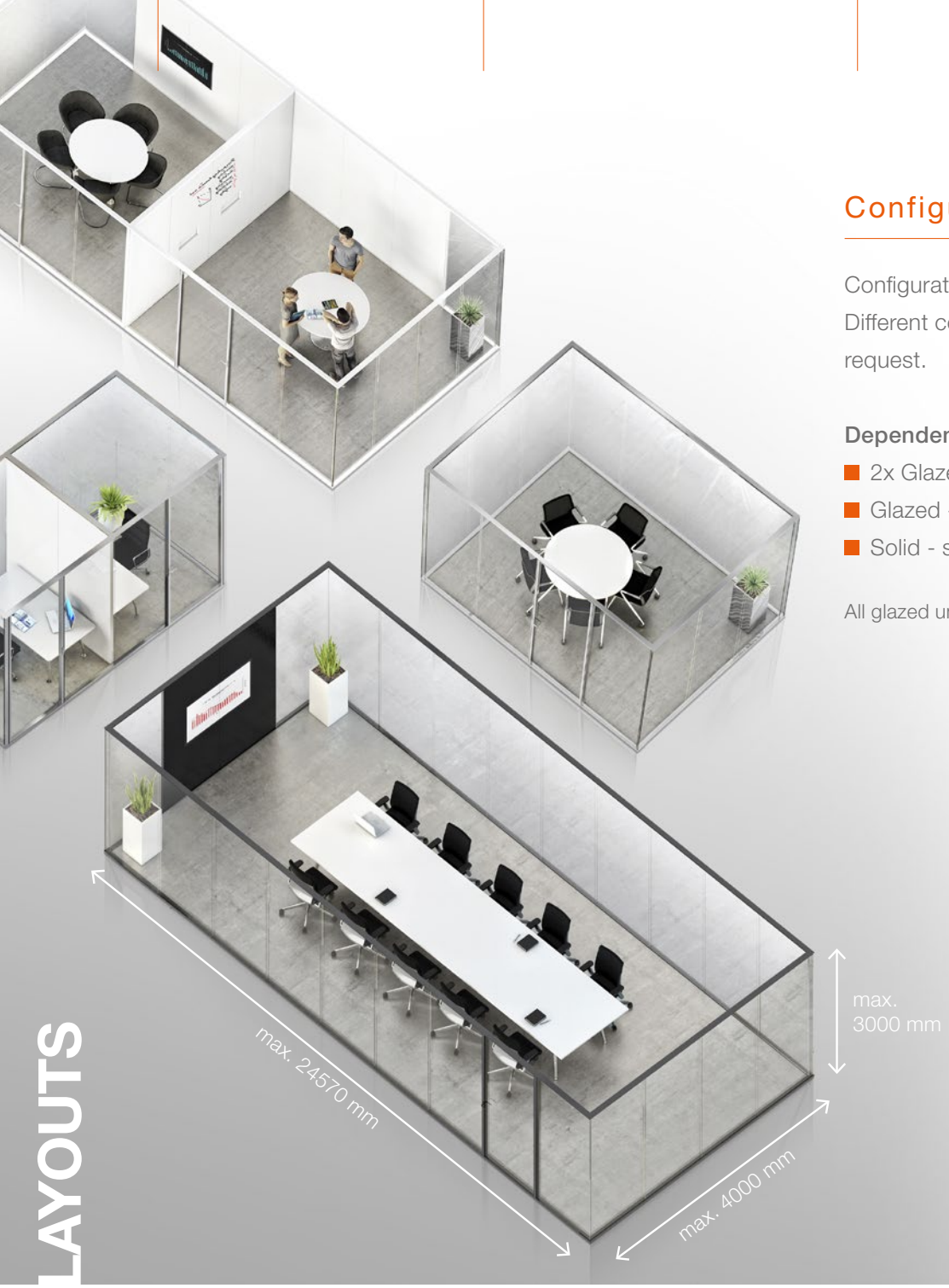
Optional:
- Clickshare
- Climate Ceiling System

Operation with Control4 via remote control, tablet, smartphone and/or touch screen.

Living Options

- Whiteboards
- Sound Absorption Panels
- Sound Absorption Walls
- Media Walls
- Sound Panels
- Dynamic Lighting

- Table lighting
- Sprinkler system
- Ventilation
- Cool ceiling



Configuration examples

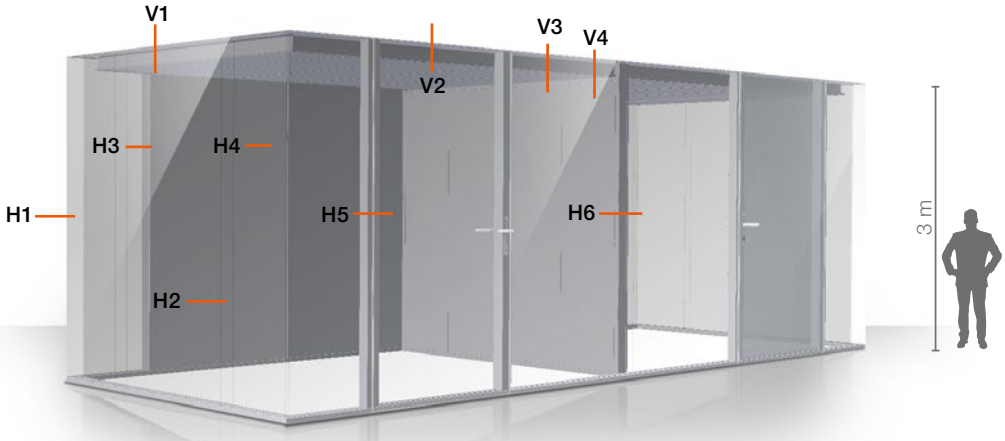
Configuration by way of illustration. Different configurations available on request.

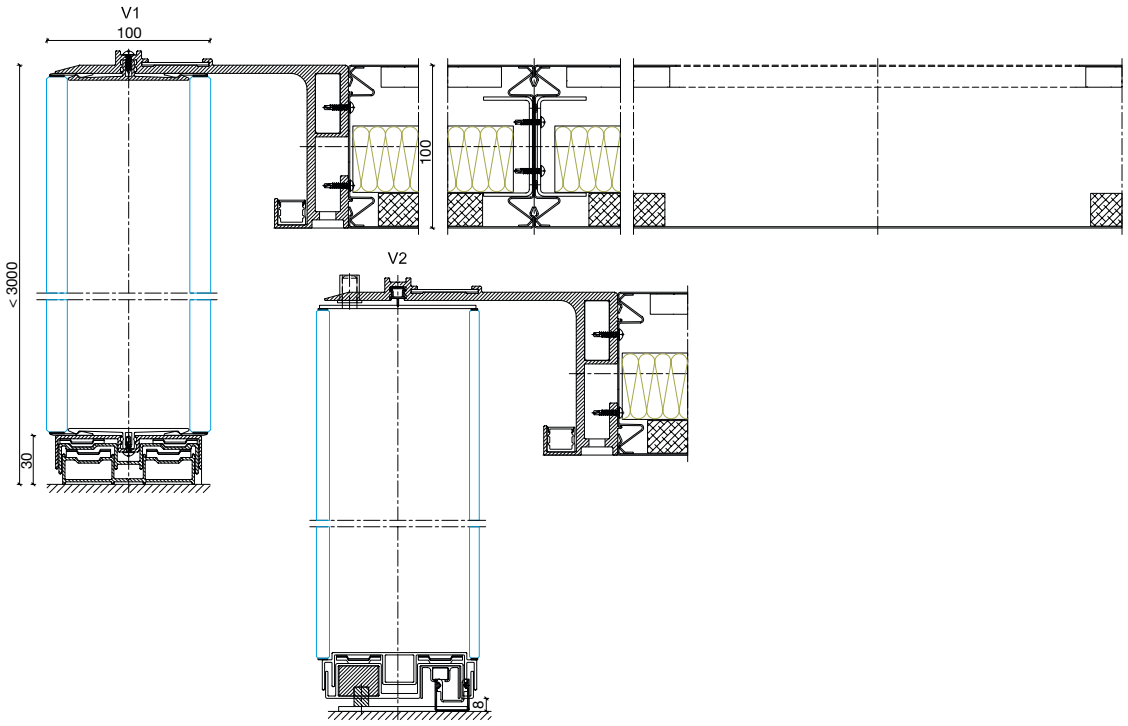
Dependent on configuration:

- 2x Glazed
- Glazed - solid
- Solid - solid

All glazed units in 12 mm thickness.

Technical drawings

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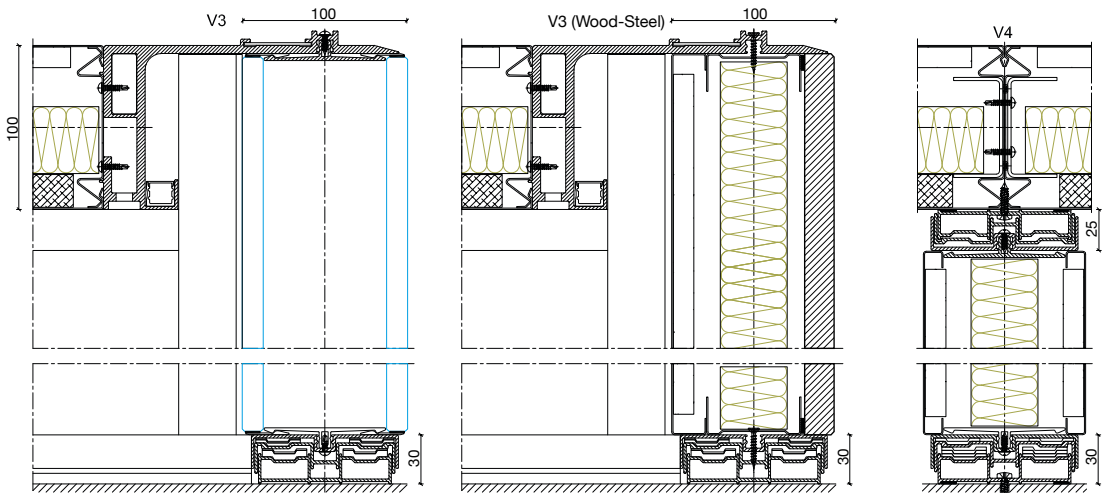
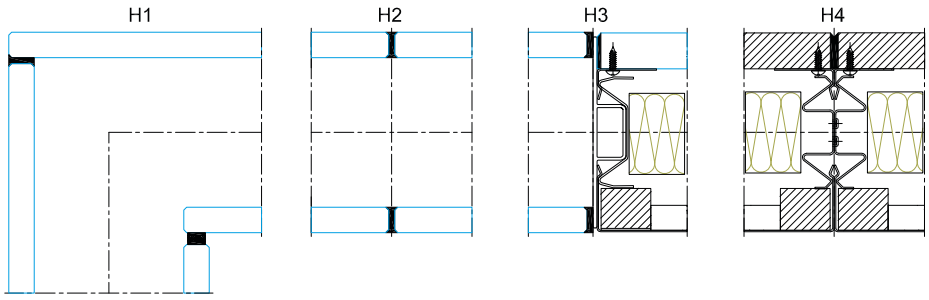
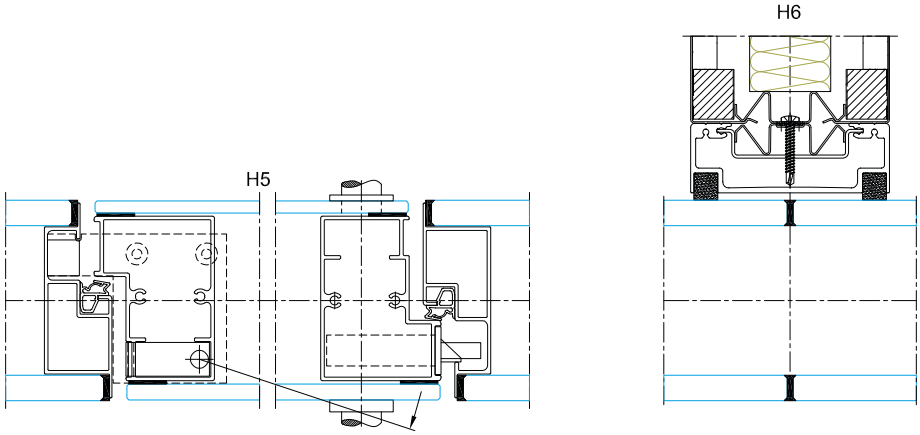
100
100
< 3000
30
V2


V3
100
100
30
V3 (Wood-Steel)
100
30
V4
25
30


H1
H2
H3
H4


H6
H5