# Bosse

DATA SHEET collaboration cube

TECHNICAL CHARACTERISTICS

- Building-independent, flexible, unfixed setup in the room

- Simple Plug & Play connection to the existing mains electricity via shockproof plug

- Steel frame construction that can be adjusted to uneven floors
  (maximum height adjustment + 15 mm) with attached white powdered aluminium profiles

- Stable base plate with acoustically effective carpeting and standard floor socket
  (1x socket, 1x Rj45 connection; optional USB charger instead of RJ-45)

- Practically invisible door hinges, magnetic closure for doors that close quietly

- Interior: acoustic fabric panelling

- Exterior: panelling in a choice of melamine uni, melamine decor or magnetic whiteboard film

- Reverse with composite safety glass including silence film

- Suspended, felt-covered acoustic ceiling, integrated lighting (direct and indirect) and ventilation, optionally available with hanging lights

- Air circulation volume of 640 m³/h, corresponds to approx. 53x air exchange per hour

- Sound level difference between inside and outside of up to 40dB
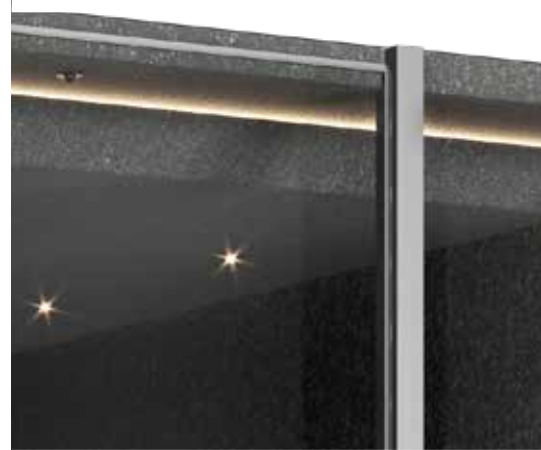
DIMENSIONS

External width | Internal width	2327 mm / 91.6" | 2167 mm / 85.3"
External depth | Internal depth	2561 mm / 100.8" | 2435 mm / 95.9"
Internal height	2270 mm / 89.3"
External height	2398 mm / 94.4" (room height required on site: 2550 mm / 100.4")
External panel dimensions	Width: 1227 mm / 48.3"
	Height: 2398 mm / 94.4"
Internal panel dimensions	Width: 1212 mm / 47.7"
	Height: 2260 mm / 89"

MATERIALS AND COLOURS

External panel design	Melamine, Whiteboard, Varnish
Internal panel design	Polo acoustic fabric, Divina acoustic fabric, Acoustic photo print
Polo fabric	Composition: 100 % Polyester
	Weight: approx. 350 g/m, width: 140 cm
	Light fastness: Grade 6 (EN ISO 105-B02)
	Friction resistance: wet 4 – 5 / dry: 4 – 5
	Abrasion resistance: 150,000 revolutions (Martindale; EN ISO 12947)
	Fire behaviour: DIN EN 1021-1/2
Divina fabric	Composition: 100% pure wool
	Weight: approx. 820 – 840 g/lin. m, width: 150 cm
	Light fastness: Grade 5 – 7 (EN ISO 105-B02)
	Abrasion resistance: 45,000 revolutions (Martindale; EN ISO 12947)
	Fire behaviour: DIN EN 1021-1/2
Netting difficult to ignite (optional)	Standard colour: White
	Composition: 100% Trevira CS (B1)
	Weight: approx. 53 g/m²
	Trevira type designation: 691
Netting difficult to ignite and acoustic (optional)	Standard colour: White
	Composition: 91% polyester Trevira CS (B1), 9% Polyester
	Weight: approx. 110 g/m²
	Jazz Delilight: 35368
Acoustic carpeting	Xerra T-Sonic
	Backing: Bitumen acoustic felt
	Surface weight: approx. 5400 g/m²
	Fire behaviour: Cfl-s1 (B1)
	Sound absorption level: alpha w 0.30
Fabric colours	Polo:
	Kashmir White, Cappuccino, Chocolate Brown, Honey Yellow, Orange, Copper Red, Ruby Red, Chilli Red, Shiraz Red, Violet, Aubergine, Royal Blue, Light Blue, Purple, Water Blue, Standard Blue, Night Blue, Dark Green, Light Green, Green, Irish Green, Platinum Grey, Grey and Black
	Divina:
	Platinum, Cappuccino, Green, Turquoise, Indigo Blue, Pink, Curry Yellow, Pepper Brown, Anthracite Grey, Black, Irish Green and Water Blue
Colour finishes:	Melamine:
	White, Winter White Cream, Grey, Silver, Congo, Volcanic Grey, Anthracite, Volcanic Black
	Wood finishes: Maple, Light Oak, Walnut
Glass	Composite safety glass 12.76 mm with silence film

CONSTRUCTION

Ceiling	Acoustically effective felt-covered perforated sheet cover, including ventilation and lighting
Skeleton and element profile	Free-standing black steel frame construction
Floor seal/Floor connection	Plinth with carpet cladding
Door	Revolving door made of 10 mm safety glass (ESG), practically flush/invisible door hinges, silent magnetic closure (not lockable)

TECHNICAL

Electrification	1x on-site power connection (120V/60Hz - 230V/50Hz) for control box (control of the direct/ indirect illumination, ventilation, presence sensor and sockets); light and air are operated via a motion sensor built into the standard version 1x earth connection on the steel frame via on-site power connection 1x earth connection point for separate on-site connection
Ventilation	Building-independent ventilation of the product by silent fans. Air exchange performed with ambient air. Air intake via the base, air output behind the suspended ceiling panel. Ventilation principle: • 8 silent fans remove the used air from the product • Power consumption per fan: 1.44 W • Revolutions per fan: 1450 rpm • Noise level per fan: 16.4 dB • Output volume per fan: 80 m³/h • Total air exchange: approx. 53x per hour
Direct illumination	12 flush-mounted high power LED light dots in the suspended ceiling panel. • Power consumption: 10.3 W • Light colour: 3000 K • Protection class: IP 20 • Light flux: approx. 750 lm • Energy efficiency class: A+ • Light distribution: 100% direct beam
Indirect illumination	An LED strip incorporated into the ceiling panel provides indirect illumination. • Power consumption: 5 W/m • Light colour: 2700 K - 3000 K • Protection class: IP 20 • Light flux: max. 330 lm
Hanging lights (optional)	Felt hanging light Ø300mm 250 mm high, white felt interior, grey felt exterior, 12 V bulb, 8 W LED, 3000 K, E27. Connection via standard socket in recessed ceiling panel
Presence sensor	The presence sensor integrated into the ceiling controls the illumination and ventilation with a factory-set follow-up time of two minutes. The wireless remote control allows you to set the follow-up time, light sensitivity, etc. • Operating current: 110 – 240 V DC • Brightness adjustment range: 5 – 1000 lx • Light & air follow-up time: 30 sec. – 30 min. • Protection class: IP 21 (sensor), IP 20 (power unit)
Power consumption of all consumers	-- (Information to follow)
Power consumption in standby	-- (Information to follow)
Total power connection of fitted sockets	maximum 3 kW

ACOUSTICS/SOUND

Sound tightness between inside and outside (standard sound level difference DnT)	Sound insulation value of up to 40 dB. The measured value relates to the finished assembled collaboration cube 2.0 (document on request)

EC DECLARATION OF CONFORMITY

With the EC declaration of conformity, Bosse Design Gesellschaft für Innovative Office Interiors mbH & Co. KG confirms that the human space cube HSC2018 meets the fundamental health and safety requirements of all relevant European guidelines, i.e. conforms to these guidelines.
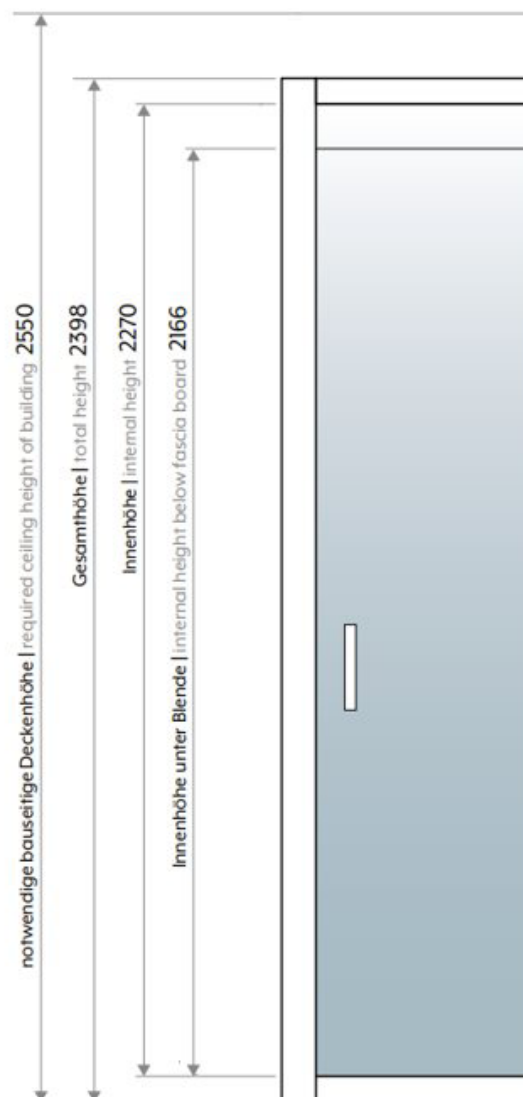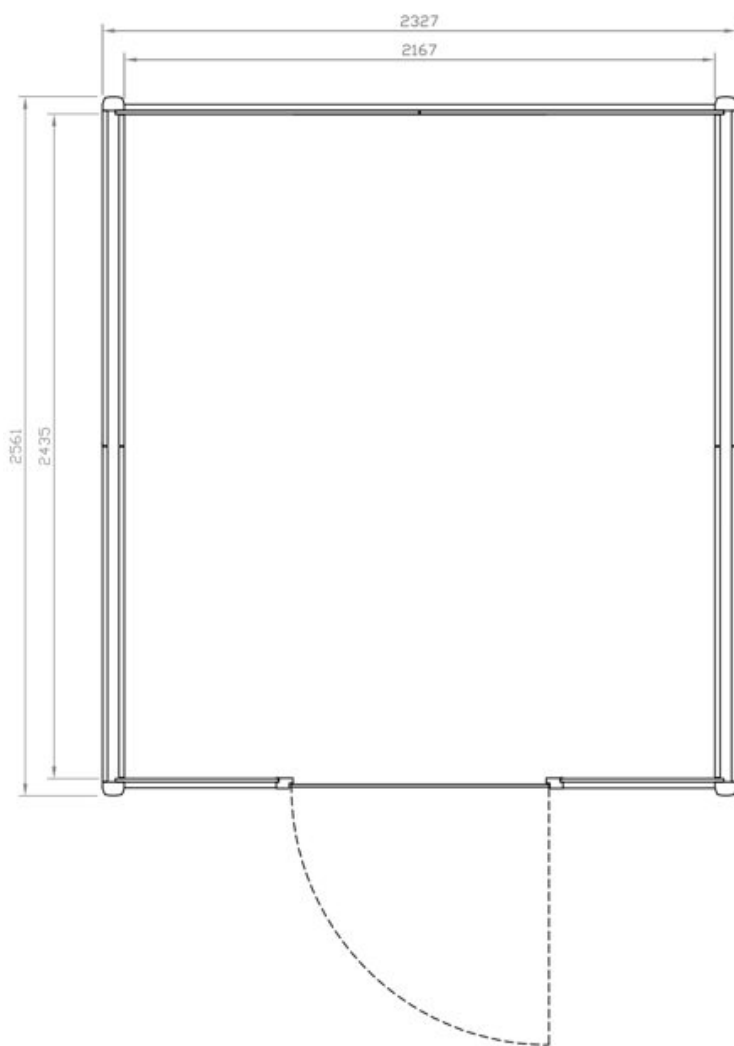
DIMENSIONS

STANDARD PANEL DIMENSIONS

Interior	Width: 1212 mm / 47.7"
	Height: 2260 mm / 89"
Exterior	Width: 1227 mm / 48.3"
	Height: 2398 mm / 94.4"

STANDARD CUBE DIMENSIONS

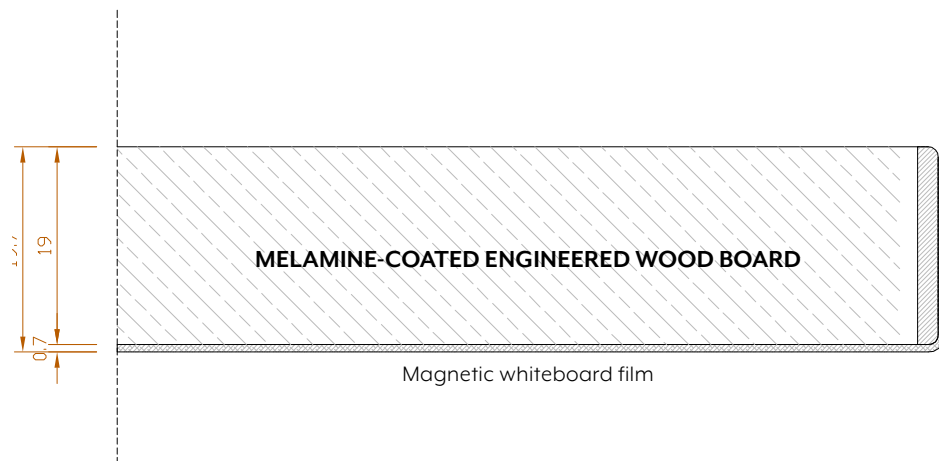| Interior | Width: 2167 mm / 85.3" |
	Depth: 2435 mm / 95.9"
	Height: 2270 mm / 89.3"
Exterior	Width: 2327 mm / 91.6"
	Depth: 2561 mm / 100.8"
	Height: 2398 mm / 94.4"
Room height required on site	2550 mm / 100.4"

SECTION DRAWINGS

Melamine

19

MELAMINE-COATED ENGINEERED WOOD BOARD

Melamine surface as per Standard collection

Whiteboard

19

0.7

MELAMINE-COATED ENGINEERED WOOD BOARD

Magnetic whiteboard film

SECTION DRAWINGS

Acoustic Polo/Divina

MELAMINE-COATED ENGINEERED WOOD BOARD

BASOTECT SOUND ABSORBER

19 13 6

Polo or Divina fabric with piping (stretched)

Acoustic photo print

MELAMINE-COATED ENGINEERED WOOD BOARD

BASOTECT SOUND ABSORBER

19 13 6

Photo print on fabric with piping (stretched)
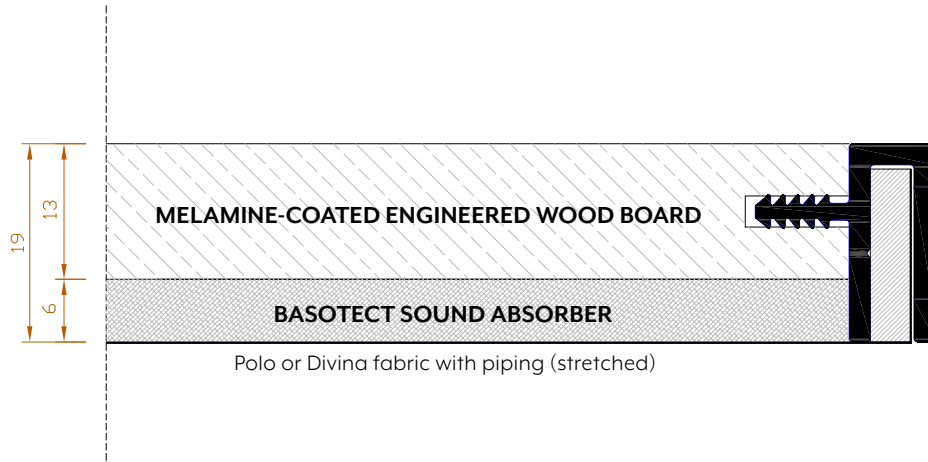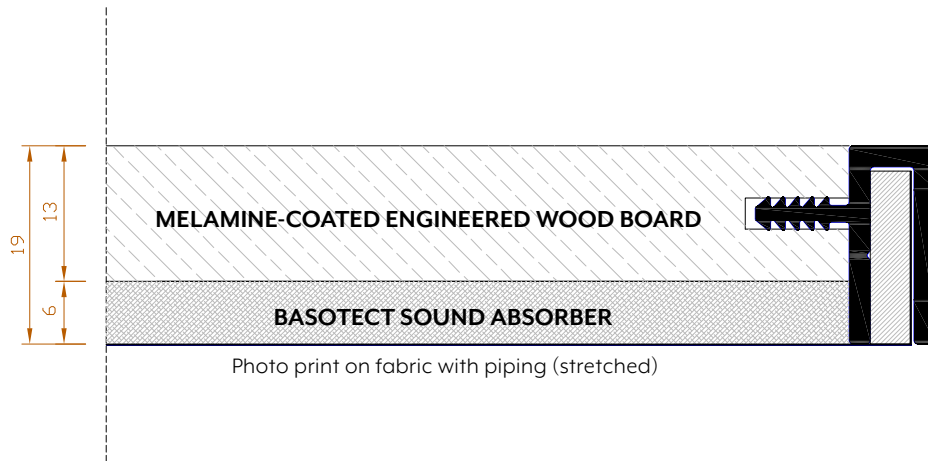
FABRICS

POLO FABRIC

Composition: 100% polyester
Weight: approx. 350 g/m, width: 140 cm
Light fastness: Grade 6 (EN ISO 105-B02)
Friction resistance: wet: 4 – 5 / dry: 4 – 5
Abrasion resistance: 150,000 revolutions
(Martindale; EN ISO 12947)
Fire behaviour: DIN EN 1021-1/2

77.03 (4650) *
Honiggelb | Honey yellow

77.44 (4613)
Orange | Orange

77.45 (4612)
Kupferrot | Pure copper

77.11 (4633)
Hellgrün | Vivid green

77.12 (4632)
Irischgrün | Irish green

77.10 (4631)
Grün | Organic green

77.40 (4610)
Chillirot | Chilli red
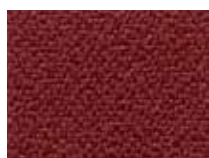
77.42 (4614)
Rubinrot | Rubin red

77.48 (4611)
Shirazrot | Shiraz red

77.72 (4642)
Kaschmirweiß | Cashmere

77.50 (4641)
Cappuccino | Cappuccino

77.60 (4640)
Schokobraun | Chocolate
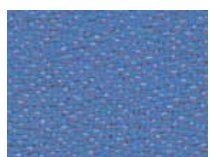
77.25 (4625)
Wasserblau | Lagoon blue

77.26 (4624)
Purpur | Purple

77.20 (4621)
Standardblau | Classic blue

77.31 (4602)
Platingrau | Platin

77.30 (4601)
Grau | Metal grey

77.33 (4600)
Schwarz | Midnight black

77.27 (4626)
Königsblau | Royal blue

77.29 (4620)
Nachtblau | Midnight blue

DIVINA FABRIC

Composition: 100% polyester
Weight: approx. 350 g/m, width: 140 cm
Light fastness: Grade 6 (EN ISO 105-B02)
Friction resistance: wet: 4 – 5 / dry: 4 – 5
Abrasion resistance: 150,000 revolutions
(Martindale; EN ISO 12947)
Fire behaviour: DIN EN 1021-1/2

3231
Platingrau | Platin

3250
Cappuccino | Cappuccino

3210
Grün | Organic green

3223
Türkis | Caribbean blue
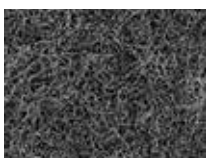
3219
Indigo Blau | Indigo blue

3246
Pink | Pink orchid

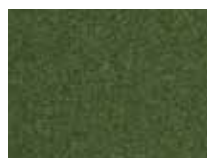3204
Currygelb | Curry yellow

3262
Pfefferbraun | Brown Pepper

3236
Anthrazitgrau | Asphaltgrey

3233
Schwarz | Midnightblack
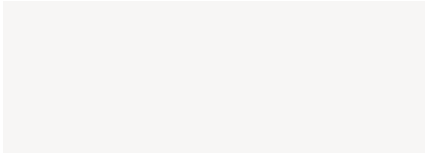
3212
Irischgrün | Irish green
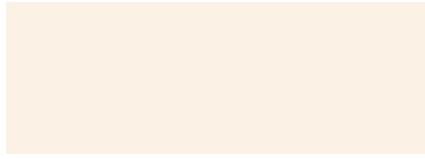
3225
Wasserblau | Lagoon blue

SURFACES

UNIDEKORE | PLAIN FINISHES
für Frontseiten der Fix- und Flexpaneele sowie der Außenpaneele für telephone cube 2.0 und collaboration cube 2.0 | For fronts of the fixed and flex panels as well as the outside panels for telephone cube 2.0 and collaboration cube 2.0

Weiß | White

Creme winterweiß | Creme winter white

Grau | Grey

Silber | Silver

Congo | Congo

Vulkangrau | Volcano grey

Anthrazit | Anthracite

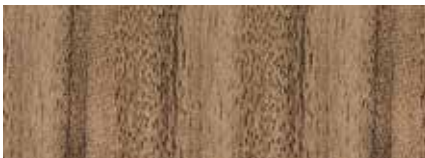Vulkanschwarz VV | Volcano black VV

HOLZDEKORE | WOOD FINISHES
Für Frontseiten der Fix- und Flexpaneele sowie der Außenpaneele für telephone cube 2.0 und collaboration cube 2.0 | For fronts of the fixed and flex panels as well as the outside panels for telephone cube 2.0 and collaboration cube 2.0

Ahorn | Maple

Eiche hell | Light oak

Nussbaum | Walnut

PHOTO PRINT

FOILING

AIR EXCHANGE RATE

Room volume calculation

Length (2.17 m) x width (2.43 m) x height (2.27 m) = room volume (11.97 m³)

Air output volume

Output volume per fan (80.47 m³/h) x number of fans (8 units) = total air output volume (643.76 m³/h)

Total air exchange

Air output volume (643.76 m³/h) / room volume (11.97 m³) = total air exchange (approx. 53x per hour)

Air exchange calculation per number of people in the room:

Average air volume per person (25 m³/h) x number of people (1) = air exchange rate (25 m³/h)
Average air volume per person (25 m³/h) x number of people (2) = air exchange rate (50 m³/h)
Average air volume per person (25 m³/h) x number of people (3) = air exchange rate (75 m³/h)
Average air volume per person (25 m³/h) x number of people (4) = air exchange rate (100 m³/h)
Average air volume per person (25 m³/h) x number of people (5) = air exchange rate (125 m³/h)
Average air volume per person (25 m³/h) x number of people (6) = air exchange rate (150 m³/h)
Average air volume per person (25 m³/h) x number of people (7) = air exchange rate (175 m³/h)
Average air volume per person (25 m³/h) x number of people (8) = air exchange rate (200 m³/h)
Average air volume per person (45 m³/h) x number of people (1) = air exchange rate (45 m³/h)
Average air volume per person (45 m³/h) x number of people (2) = air exchange rate (90 m³/h)
Average air volume per person (45 m³/h) x number of people (3) = air exchange rate (135 m³/h)
Average air volume per person (45 m³/h) x number of people (4) = air exchange rate (180 m³/h)
Average air volume per person (45 m³/h) x number of people (5) = air exchange rate (225 m³/h)
Average air volume per person (45 m³/h) x number of people (6) = air exchange rate (270 m³/h)
Average air volume per person (45 m³/h) x number of people (7) = air exchange rate (315 m³/h)
Average air volume per person (45 m³/h) x number of people (8) = air exchange rate (360 m³/h)

A (Air exchange rate)
A1 (the average air volume per person, m³/h)
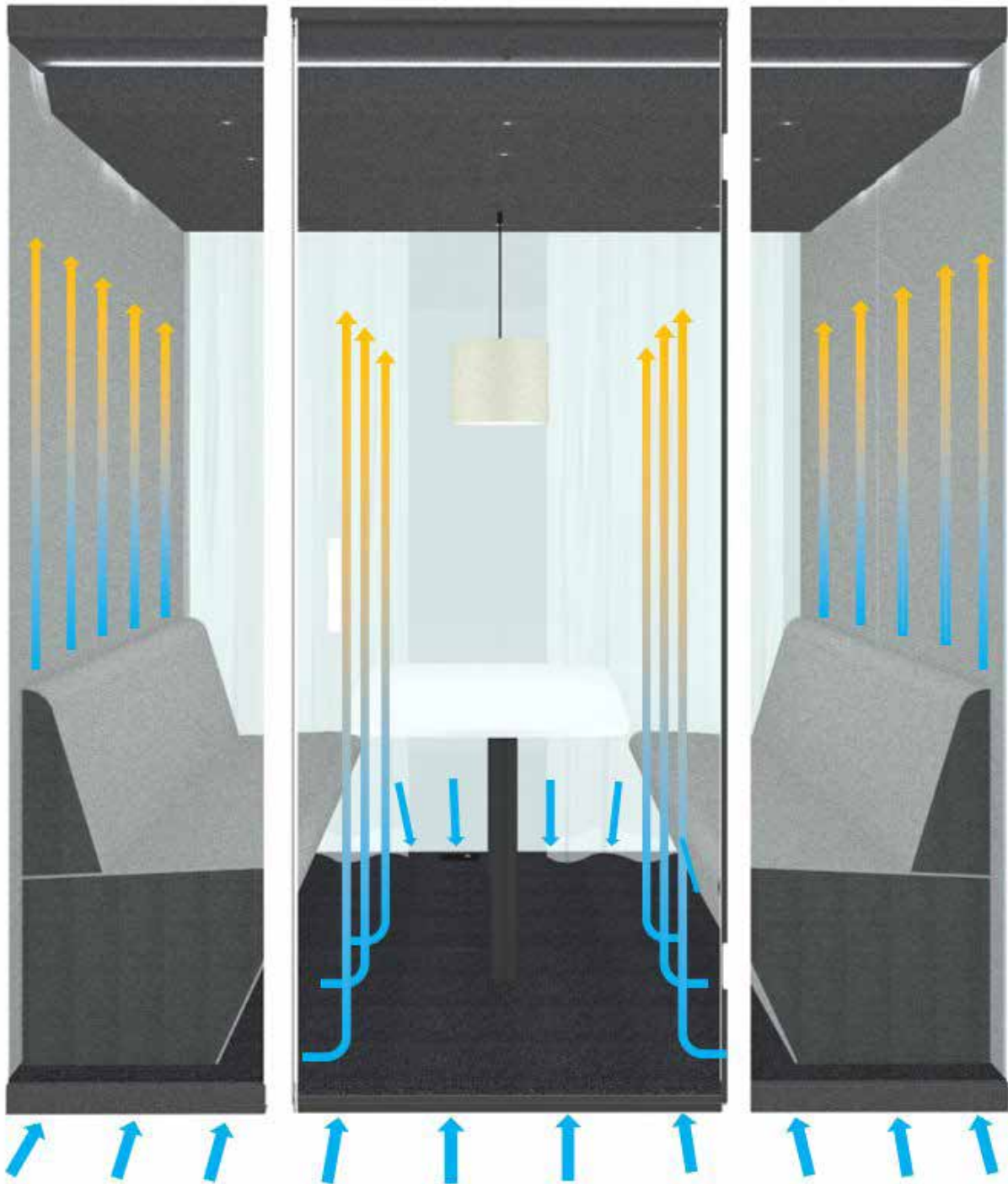NP (number of people in the room)
20 to 25 m³/h per person during minimal physical activity
45 m³/h per person during light physical activity

VENTILATION PRINCIPLE

The building-independent ventilation principle of the Telephone cube is based on air exchange with ambient air. This is drawn in from below (front and back). The air flows upwards under the panels (both sides) and is removed from the Telephone cube.

This circuit generates continuous air circulation and ensures the best possible room climate. The ventilation system is low-noise and energy-efficient.

bossecube.com
dauphin-group.com

Bosse