Building Biology Products
and services

High and low frequency



- The Topas+ double bed canopy is designed to provide extensive shielding against high-frequency electromagnetic waves and low-frequency alternating electric fields.
- Double bed version (box-shaped, very spacious)
- maximum transparency and breathability
- Assembly is simple, and the width and height can be adjusted
- 100% textile properties
- can be grounded
- This double bed canopy is made from high-quality Topas+ curtain fabric. It is ideal for private bedrooms, as well as holiday flats, hotels, offices, doctors' surgeries, therapy rooms, clinics, care homes, and other sophisticated commercial spaces.

  Topas+ is an extremely light, air-permeable knitted fabric with high- and low-frequency shielding properties. With almost 100 per cent air and light permeability, there is no build-up of CO^2 in the canopy.

  Ultra-fine stainless steel filaments provide the shielding. This protects the fabric against mechanical stress and corrosion. Thanks to these filaments, the knitted fabric is antistatic.

  Due to its fine, open weave and ultra-fine stainless steel filaments, this material may curl or change texture slightly after washing. However, this does not affect the material's functionality or sun-protective properties.

  We therefore recommend a gentle wash to avoid excessive mechanical stress. Typical creases in the fabric can usually be significantly reduced by hanging the garment up while it is still damp and gently stretching and steaming it.

Canopy

Double bed canopy Topas+

Type	MHz	dB	in %
LTE / 5G wide	700 - 750	34	> 99,9
LTE	790 - 820	33	> 99,9
GSM, LTE	920 - 960	32	> 99,9
5G wide	1450-1500	30	~ 99,9
GSM, LTE	1.800 - 1.880	29	> 99,0
DECT	1.880 - 1.900	28	> 99,0
LTE, 5G wide	2.110 - 2.170	27	> 99,0
W-LAN 2400	2.400 - 2.500	26	> 99,0
LTE	2620 - 2690	25	> 99,0
5G fast	3.400 - 3.700	22	> 99,0
W-LAN 5200	5.150 - 5.350	18	> 98,0

Technical data

length:	220 cm ± 2 %
width:	220 cm ± 2 %
height:	220 cm ± 2 %
colour:	white
accessibility:	left and right
mesh size:	ca. 1 mm x 1 mm (transparent)
composition:	80% polyester 20% metal
base material:	Topas+
properties:	Excellent transparency, excellent air circulation, high shielding attenuation
basis for assessment::	IEEE Standard 299™-2006
shielding attenuation:	single layer – max. 34 dB (> 99.9 %) double layer – max. 48 dB (> 99.99 %)

Care instructions

	gentle hand wash at a maximum of 30 °C (do not wring or spin)
30	or a particularly gentle wash (wool cycle at 30 °C; do not wring or spin-dry)
	gentle ironing on setting 1 (iron at a low temperature)
	do not bleach do not use detergents containing bleach
	Do not tumble dry Smooth out whilst damp and hang up to dry. (Gentle steaming can reduce the natural wrinkles typical of the fabric)
	Do not dry clean

Prod-No.: 24
Short-Desc.: Topas+ BD

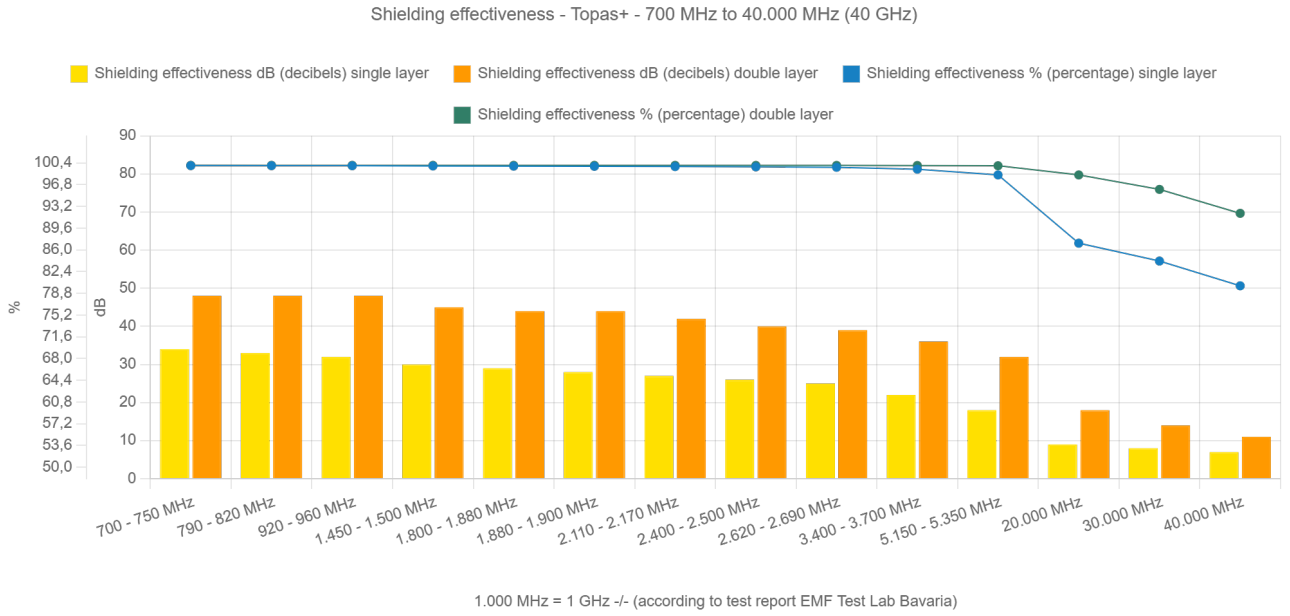
Included in the delivery:

- bed canopy incl. 8 x 2 suspension belts, sewn on - length 100 cm (incl. 8 x dowels and 8 x hooks)
- 6 x wooden bars (spruce) - length 74 cm / Ø 25 mm
- 4 plug-in sleeves

Biologa Danell GmbH • Hauptstraße 27 • 72336 Balingen • GERMANY • +49 7433 955 7172 • info@biologadanell.com • www.biologadanell.com

Type	MHz	Description
DVB-T2	470 - 690	digital video broadcasting – terrestrial, 2nd generation, TV via antenna
LTE / 5G wide	700 - 750	from 4G, now 5G NR without beamforming / MIMO
GSM, LTE	920 - 960	from 2G - D1, now 5G NR without beamforming / MIMO
GSM, LTE	1800 - 1880	from 2G - D2, E network, now 5G NR without beamforming / MIMO
DECT	1880 - 1900	wireless phone
LTE, 5G wide	2110 - 2170	from 3G, formerly UTMS, now 5G NR without beamforming / MIMO
W-LAN / WiFi 2400	2400 - 2500	wireless LAN
5G fast	3400 - 3700	5G NR - New frequency band with beamforming / MIMO
W-LAN / WiFi 5200	5150 - 5350	wireless LAN

Shielding values: According to test report: EMF Test Lab Bavaria



1.000 MHz = 1 GHz -/- (according to test report EMF Test Lab Bavaria)

Biologa Danell GmbH • Hauptstraße 27 • 72336 Balingen • GERMANY • +49 7433 955 7172 • info@biologadanell.com • www.biologadanell.com