Building Biology Products
and services

High and low frequency




- The Topas+ universal bed canopy is designed to provide extensive shielding against high-frequency electromagnetic waves and low-frequency alternating electric fields.
- Universal version (pyramid shaped)
- maximum transparency and breathability
- Assembly is simple, and the height can be adjusted
- 100% textile properties
- can be grounded
- This universal bed canopy is made from high-quality Topas+ curtain fabric. It is suitable for permanent use as well as a travel canopy, making it ideal for private bedrooms, 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.

**Prod-No.: 231**
Short-Desc.: Topas+ BU

## Included in the delivery:

- bed canopy incl. 4 x 2 suspension belts, sewn on - length 100 cm (incl. 4 x dowels and 4 x hooks)

## Canopy

## Universal 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 % (top 50 cm) |
| width: | 120 cm ± 2 % (top 50 cm) |
| height: | 220 cm ± 2 % |
| colour: | white |
| accessibility: | left and right |
| mesh size: | ca. 1 mm x 1 mm (transparent) |
| composition: | 80% polyester<br>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 %)<br>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<br>do not use detergents containing bleach |
| | Do not tumble dry<br>Smooth out whilst damp and hang up to dry.<br>(Gentle steaming can reduce the natural wrinkles typical of the fabric) |
| | Do not dry clean |



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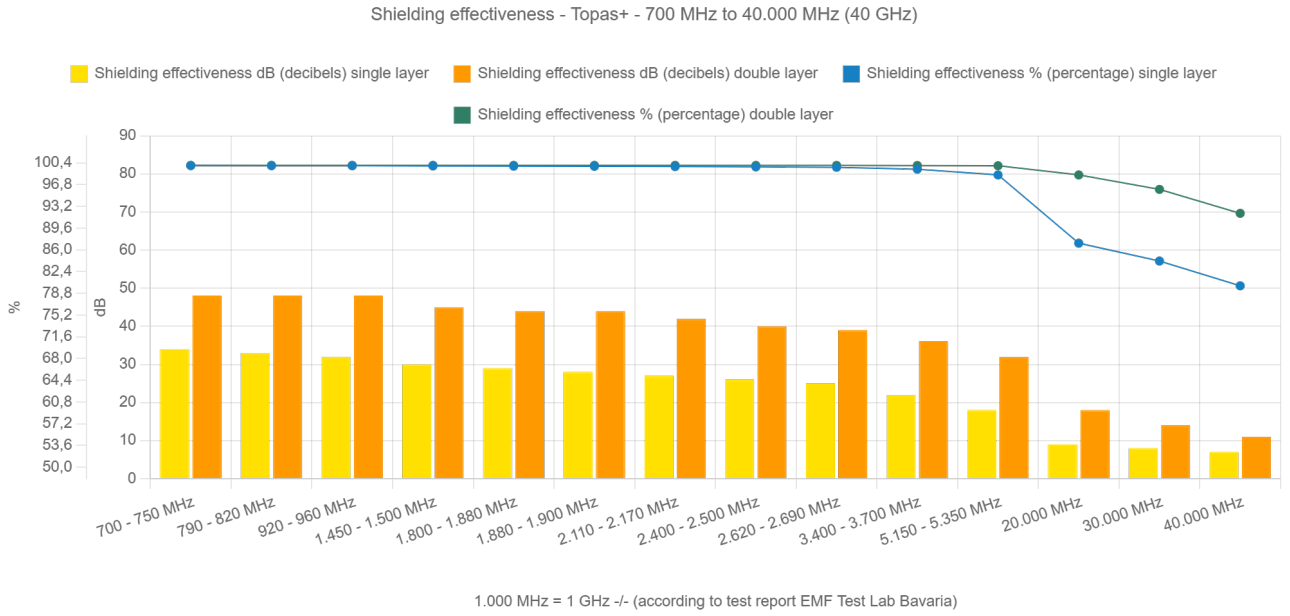
| Type | MHz | Description |
|---|---|---|
| DVB-T2 | 470 - 690 | digital video broadcasting – terrestrial, 2nd generation, TV via antenna |
| LTE / 5G wide | 700 - 750 | from 4G, now 5G NR without beamforming / MIMO |
| GSM, LTE | 920 - 960 | from 2G - D1, now 5G NR without beamforming / MIMO |
| GSM, 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)



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