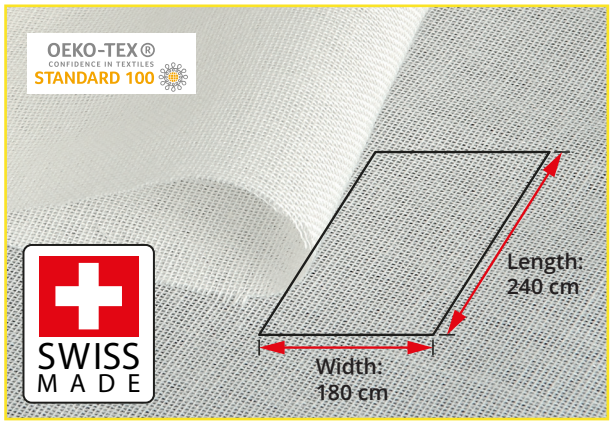
Building Biology Products
and services

High frequency



- for extensive shielding against high-frequency, electromagnetic waves
- 1/2-transparent cotton fabric with silvered copper threads spun in
- 100 % textile characteristics, easy to fit
- natural, high-quality cotton decor in accordance with Öko-Tex standard 100
- Swiss Shield Naturell™-SN 180 is a canopy underlay for the single bed canopy Swiss Shield Naturell™-BE offered by Biologa Danell.

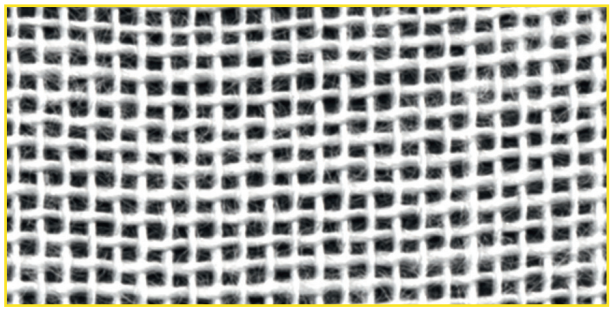
We recommend laying a thin carpet on top of the underlay to protect it from further mechanical influences.

The fabric has the usual textile properties of cotton.

Simple assembly / laying out of the underlay.

No vapours or other chemical additives that pose a health risk.

Order-No.: 101034
Short-Desc.: SWSH-N-SN 180



Shielding fabric (canopy underlay)

Swiss Shield Naturell™-SN 180

Type	MHz	dB	in %
DVB-T2	470 - 690	42	> 99,99
LTE / 5G wide	700 - 750	42	> 99,99
GSM, LTE	920 - 960	40	~ 99,99
GSM, LTE	1800 - 1880	36	> 99,9
DECT	1880 - 1900	36	> 99,9
LTE, 5G wide	2110 - 2170	34	> 99,9
W-LAN 2400	2400 - 2500	33	> 99,9
5G fast	3400 - 3700	28	> 99,0
W-LAN 5200	5150 - 5350	24	> 99,0

Technical data

length:	250 cm ± 2 %
width:	180 cm ± 2 %
thickness:	0.17 mm ± 10 %
colour:	ecru (light beige)
grammage:	about 68 g/m²
mesh gauge:	1/2-transparency
composition:	82% cotton 17% copper 1% silver
features:	good washability, anti-static
wash cycles:	> 25 x
basis for inspection:	Oeko-Tex 100 Class 1 (baby underwear) IEEE Standard 299™-2006
Oeko-Tex 100:	ZHYO 070054 TESTEX
shield attenuation:	max. ~ 37 dB (> 99.9 %)

Care instructions

	wash very gently (delicate or wool wash cycle at 30 °C)
	gentle ironing at level 1 (ironing at a low temperature)
	bleaching not permitted no detergent with bleach
	do not tumble dry
	do not dryclean

Scope of application

children's, sleeping area (single bed canopies)

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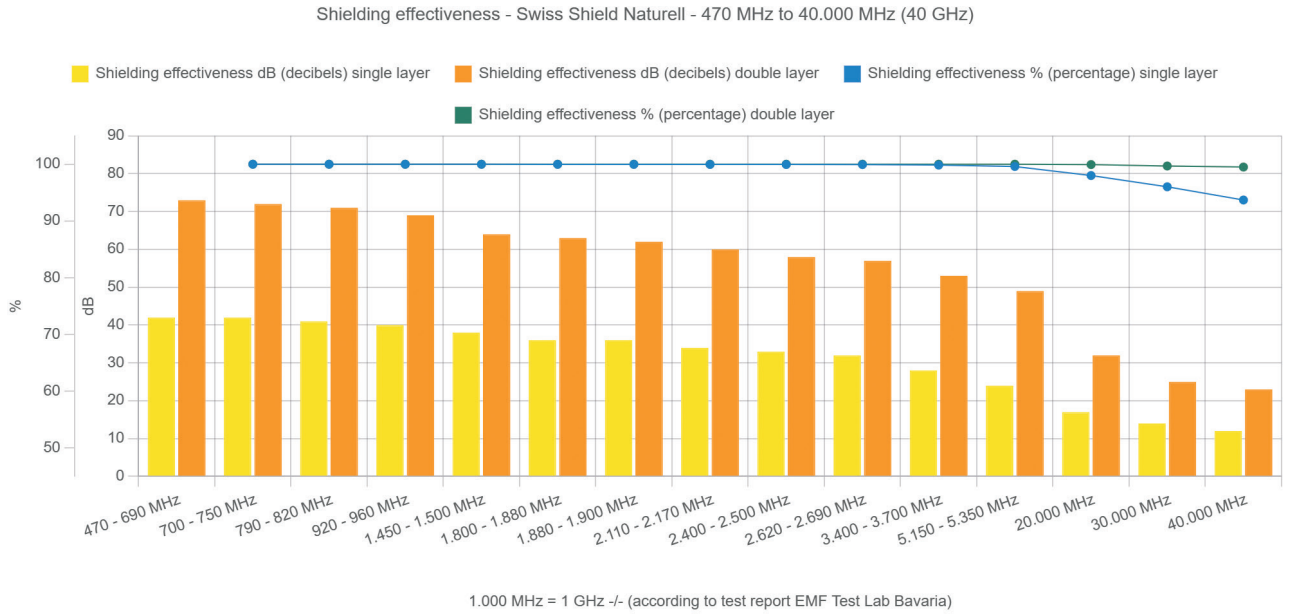
Type	MHz	Description
DVB-T2	470 - 690	digital video broadcasting – terrestrial, 2nd generation, TV via antenna
LTE / 5G wide	700 - 750	from 4G, now 5G NR without beamforming / MIMO
GSM, LTE	920 - 960	from 2G - D1, now 5G NR without beamforming / MIMO
GSM, LTE	1800 - 1880	from 2G - D2, E network, now 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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