SAFE LIVING
Technologies Inc.

# Installation Guide:
## Radio Frequency (RF) and Microwave Radiation Bed Shielding Canopy

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## Installation Guidelines

Please read the complete installation guide before installing the canopy. Each canopy is a custom installation and this procedure will vary accordingly. These guidelines are specifically for the most common type of installation, which is drywall construction. Other installations will be different but share the same concepts.

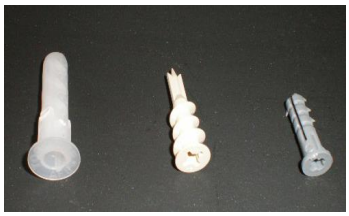
For optimal results, it is recommended to have a complete Electromagnetic Field Assessment conducted by one of our EMF consultants before installing this canopy. It is imperative to install the canopy in a low electric field environment, slightly away from the wall and away from live electrical outlets. The canopy is not externally conductive and cannot be grounded. Avoid the use or electrical or electronic devices inside or around the canopy. For more information contact one of our local distributors.

**People required for installation**
- Two or more people will be required to install this canopy.

**Tools Required**
- Step ladder, drill and drill bits, stud finder not in all cases but depends on the ceiling.
- Plumb bob - (string with a weight will work as well) - used to align the dowel position on the ceiling.
- A saw may be required to adjust the length of the dowels.

**Parts Required**
- All items can be picked up at your local box store. (Home Depot)

**3 - Hardwood Dowels** - 1 inch to 1-1/4 inch diameter by 8 feet in length. Length depends on the size of your canopy.



**6 - Drywall Anchors**

**6 - Screw Eyes**

**Approx. 15 feet of string**

**6 - Screw Hooks**

**Dowel Preparation**
- Determine the length of dowels required.
- This can be done by spreading the canopy open and carefully feeding a dowel through the center loop, on the top of the canopy. The dowel should stick out 1 to 2 inches from each side of the canopy loop. See picture below.
- Check the other 2 canopy loops for length as well and cut the dowels to the appropriate length.
- Prepare the ends of the 3 dowels for the **screw eyes**.
- The dowels are made of hard wood therefore require pilot holes to be drilled.
- Drill the appropriate size hole in the center of the end of each dowel (a total of 6 holes)
- Screw the **screw eyes**, completely into the hole on the end of each dowel as shown below. Do not attach the string at this point.
- Repeat the process for all 6 dowel ends.

**Dowel Installation**

- We will start by installing the center dowel.
- Feed a prepared dowel carefully through the center loop, on the top of the canopy.
- Place the center dowel in the **exact**, desired position in the center of the bed. Tuck the rest of the canopy underneath the center dowel so it is out of the way. Install the canopy several inches away from the wall.
- We need to transpose the alignment of the dowel on the bed to the ceiling with the use of a plum bob. (See below)
- **Please note that the next step is important**. We do not want extra holes in the ceiling, so be accurate.
- You will need to mark 2 holes on the ceiling, one for each end of the center dowel. Use the plumb bob to mark the position of the holes in the ceiling. Place the plumb bob string on the ceiling and align the weighted end with the ***screw eye*** of the dowel at the head of the bed. Make sure it is perpendicular to the dowel, "straight up and down". Then mark the ceiling. Repeat the same process for the ***screw eye*** in the dowel at the foot of the bed. Drill appropriate size holes in the ceiling for the drywall anchors. Insert the drywall anchors into the holes. These anchors will expand and lock into place when the screw hook is inserted and turned into them. Insert the screw hooks into the drywall anchors for the center position dowel, and screw in the ***screw hooks*** as shown below:

Plumb Bob

Drywall Anchors

Screw Hook into Drywall Anchors - Attach loop of string

- Cut 2 strings 2 to 3 feet long and loop the end, as in the above picture.
- Hook the string on each ***screw hook*** on the ceiling.
- Lift the center dowel to the approximate desired height. The bottom edge of the canopy should be touching the ground.
- Note: **Do not** permanently tie the dowels at this point because more adjusting will be required once the other dowels are mounted and tied.
- Temporarily tie the string from ***screw hooks*** in the ceiling to the ***screw eyes*** in the ends of the dowels. The exact height will need to be adjusted once all of the dowels are hung.
- Next, mount the right dowel.
- Feed a prepared dowel carefully through the right loop, on the top of the canopy.
- Hold up the right dowel to the desired height and position. Allow the top of the canopy to droop 6 to 14 inches between dowels. This distance between dowels will vary depending on the width of your canopy and personal preference. See picture below for desired canopy shape.

- **Again, please note that the next step is important**. We do not want extra holes in the ceiling, so be accurate.
- You will need to mark 2 holes on the ceiling, one for each end of the right dowel. Use the plumb bob to mark the position of the holes in the ceiling. Place the plumb bob on the ceiling and align the weighted end with the ***screw eye*** of the dowel at the head of the bed. Make sure it is perpendicular to the dowel, "straight up and down". Then mark the ceiling. Repeat the same process for the ***screw eye*** in the dowel at the foot of the bed. Drill appropriate size holes in the ceiling for the drywall anchors. Insert the drywall anchors into the holes. Insert the screw hooks into the drywall anchors for the right position dowel and screw in the ***screw hooks***.
- Cut 2 strings 2 to 3 feet long and tie a loop in them as in the previous picture.
- Hook the strings on the ***screw hooks*** in the ceiling.
- Lift the right dowel to the approximate desired height. The bottom edge of the canopy should be touching the ground.
- Note: **Do not** permanently tie the dowels at this point because more adjusting will be required once the left dowel is mounted and tied.
- Temporarily tie the string from the ***screw hooks*** in the ceiling to the ***screw eyes*** in the ends of the right dowel. The exact height will need to be adjusted once the left dowel is hung.

- Repeat the right dowel installation process for the left dowel.

- Once all of the dowels are mounted in the desired position in the ceiling, the final height can be set and the strings can be permanently tied.
- Adjust each string so the canopy just touches the ground in all areas.

Enjoy your new Canopy!

# Users Guidelines & Care Instructions for Swiss Shield®

Thank you for purchasing our Swiss Shield® EMC fabrics. We hope it will provide you with years of satisfying use. For optimal results and product longevity, please read this document in full before you attempt installation. For more information or if you have any further questions please contact your authorized support representative for assistance.

- Swiss Shield® fabric is designed to reduce Radio Frequency exposure on the principle of reflection. The fabrics are available in 2 formats non-conductive and conductive and there are several models of each format. Regardless of format or model, each fabric contains a patented arrangement of wire mesh, interwoven tiny silver coated copper threads that are sealed to the touch and to the elements. All Swiss Shield® fabrics can be washed without shielding loss unlike most other brands.

### Swiss Shield® Thread

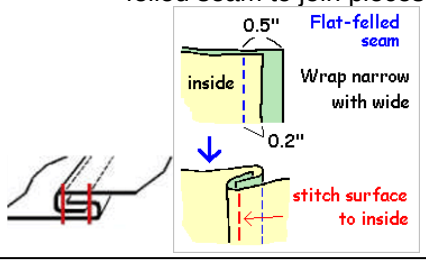
1 - Surface Conductive or Surface Insulated Thread
2 - Base Material (Cotton or Synthetic)


**Surface Insulated**
New Daylite
Naturell
Wear
Ultima

**Surface Conductive**
Evo Ultra
Naturell Ultra
Condex – Not available

- When Swiss Shield® fabric is installed, its location, quantity and proper installation should be determined by a trained EMF specialist or consultant. If a specialist or consultant is not available in your area then appropriate measuring equipment should be acquired by the user. Please review our EMF Meter, RF Meter and Body Voltage Kit product pages for details.
- In order to ensure optimum results, the installer/user should assess the living space for Radio Frequency "RF" Radiation and AC Electric Fields. Before and after measurements are important to determine the overall effectiveness and impact of the shield. **Important:** We recommend that larger pieces of fabric and canopies of non-conductive fabrics should be installed in a low AC Electric Field environment (Less than 1 V/m or Less than 100 mV of body voltage). Usually the shutting off of circuit breakers or the installation of a Remote Cutoff Switch is required.
- In addition to blocking RF, grounding the conductive fabric can aid in the reduction of AC electric fields. In the event that a ground is applied to the Swiss Shield® fabric, please consult with your local licensed electrician and comply with local electrical codes. Note: Swiss Shield® will reflect radio waves whether grounded or not. The Swiss Shield® non-conductive fabrics are not externally conductive and grounding is not recommended. Before and after measurements are important to determine the overall effectiveness and impact of the shield.
- Avoid the use of electronic or electrical devices near the fabric or under a canopy
- Swiss Shield® fabric is not fire retardant. Use with caution and at your own risk
- Swiss Shield® fabric is intended exclusively for indoor use in dry areas
- Swiss Shield® fabrics have the Oeko-Tex 100 certification meaning they are the highest quality and most Eco friendly shielding fabric available. As with all new textile fabric, a "new material" scent may exist. The impact of this scent varies from person to person. Washing the material before installation will eliminate the scent.

**Sewing -** Use regular thread and a felled seam to join pieces




## Washing: Use a Mild Liquid Detergent

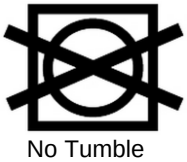
Machine Wash (Gentle Cycle) Cold Water

Hand Wash Cold Water


No Chemical Dry Cleaning


No Bleaching


Hang to Dry


No Tumble Drying


Iron Without Steam at 1 Degree

OEKO-TEX®
CONFIDENCE IN TEXTILES

TESTEX AG, SWISS TEXTILE TESTING INSTITUTE
GOTTHARDSTRASSE 61
POSTFACH 2156
8002 ZÜRICH, SWITZERLAND

# CERTIFICATE

OEKO-TEX®
CONFIDENCE IN TEXTILES
STANDARD 100
ZHYO 070054 TESTEX
Tested for harmful substances.
www.oeko-tex.com/standard100

**The company**

**SPOERRY 1866 AG**
**Bergstrasse 25**
**8890 Flums**
**Switzerland**

is granted authorisation according to STANDARD 100 by OEKO-TEX® to use the STANDARD 100 by OEKO-TEX® mark, based on our test report **ZH005 148480.1**

**for the following articles:**

**Swiss Shield Yarn; textile filament Brass/Silver TWF-D, Copper/Silver textile filament TW-F (Polyamidimid), braided with polyester or cotton yarns**
**Covered raw yarn made of polyamide/elastane**
**(based on material pre-certified according to STANDARD 100 by OEKO-TEX®)**

The results of the inspection made according to STANDARD 100 by OEKO-TEX®, Appendix 4, **product class I** have shown that the above mentioned goods meet the human-ecological requirements of the STANDARD 100 by OEKO-TEX® presently established in Appendix 4 for baby articles.

The certified articles fulfil requirements of Annex XVII of REACH (incl. the use of azo colourants, nickel release, etc.), the American requirement regarding total content of lead in children's articles (CPSIA; with the exception of accessories made from glass) and of the Chinese standard GB 18401:2010 (labelling requirements were not verified).

The holder of the certificate, who has issued a conformity declaration according to ISO 17050-1, is under an obligation to use the STANDARD 100 by OEKO-TEX® mark only in conjunction with products that conform with the sample initially tested. The conformity is verified by audits.

**The certificate ZHYO 070054 is valid until 15.07.2019**

Zurich, 17.12.2018

**Matz Bachmann**
Managing Director

**Saverio Iozza**
Laboratory Manager

OEKO-TEX® Association | Genferstrasse 23 | P.O. Box 2006 | CH-8027 Zurich




SAFE LIVING Technologies Inc.

**Comparison of Swiss Shield Fabrics RF Shielding Performance - 1 Layer**