

USB Weld AS

Weldable and breathable roofing membrane
Riwega | eternitycomfort

Laying instructions - PG. 1/2

of: 15/06/2021

Art. No. 1,5m 02010354 / 3,0m 020103540

Review No. 00 of: -

PRODUCT DESCRIPTION:

Breathable, waterproof underlay and roofing membrane, weldable with hot air or bondable with special cold welding solvent (Riwega THF Welding Liquid).

MEASURES:

1.5 m x 30 m (Art. No. 02010354) / 3.0 m x 30 m (Art. No. 020103540)

STORAGE:

Store in a cool, dry place, protected from UV radiation.

TECHNICAL DATA:

See the product data sheet, which can be downloaded from our website www.riwega.com on the respective product page.

PROCESSING INSTRUCTIONS:

- Roll out the membrane over the formwork or walkable insulation layer, starting at the lowest point of the roof pitch with the sheet aligned parallel to the eaves line. The membrane must be laid down with the lettering facing the installer or with the lettering facing the outside.
- Fix the membrane to the formwork or battens using suitable fastening systems (with staples, screws, etc.). The fastening must take place within the overlap area specified on the membrane, or at least 2 cm on the inside of the membrane. Attention! Do not fasten outside the overlap area.
- Align the next layer with an overlap of at least 10 cm on the specially marked line and roll out along this line. Caution! All vertical overlaps, e.g. at the end of a roll, must be at least 20 cm.
- Seal all overlaps by hot or cold welding with *Riwega THF Welding Liquid*. Attention! Sealing of all seams must be completed within 14 days after installation of the membrane. If this is not possible in the long term, use a temporary cover sheet to protect the membrane.

PROCESSING WITH HOT AIR:

The temperature of the hot air welder must be between 200°C and 300°C. The optimum temperature for correct welding depends on the ambient temperature and the working speed. Always stay within the recommended temperature range. Slowly insert the nozzles of the welding device between the two surfaces to be sealed and constantly apply a strong, even pressure with the silicone roller to ensure that the two membrane layers to be sealed are homogeneously joined. The effective width of the weld must be at least 40 mm. Check the quality of the heat seal with the test hook afterwards, or try to lift the upper membrane layer: If the membrane lifts at the overlap, re-weld the membrane at this point to ensure a perfect seal between the two sheets. Protect skin and eyes from the hot sheet and the hot air tool with appropriate protective clothing.

PROCESSING DURING COLD WELDING:

Apply *Riwega THF Welding Liquid* cold welding solvent slowly in the overlap area using the appropriate *Riwega brush bottle*. Apply even pressure to the area to be sealed. The effective width of the cold weld joint must be at least 40 mm. Excess swelling welding agent must be removed immediately with a cloth. Protect skin and eyes from the hot web with appropriate protective clothing.

NOTE:

Welding tests are recommended in advance. Printing inks located in the joint area must be removed with commercially available solvents before welding.

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DETAIL 01: Counter battens

When installing the counter battens, use a suitable *Riwega nail sealing tape* to seal the holes in the roofing membrane created by the fixing materials. If the roof pitch required for final flashing is not achieved, the counter battens should be sealed along their entire length with *Riwega USB Welding Strip*. Laying the strip centrally over the width of the counter batten and subsequent hot or cold welding with *Riwega THF Welding Liquid* on the previously *Riwega USB Weld AS* membrane on both sides of the batten, thus the batten is completely sealed with *Riwega USB Weld AS*.

DETAIL 02: Eaves, sweep and gutter area

In the eaves area, the *Riwega USB Weld AS* membrane must be sealed parallel to the eaves line using the highly UV-resistant acrylic adhesive tape *Riwega Tape UV 300 X* (see installation instructions *Riwega Tape UV 300 X*).

DETAIL 03: Pipe penetrations

Cut the *Riwega USB Weld AS* membrane to fit the size of the opening, turn the membrane flaps upwards and seal them to the protruding components using suitable sealing systems. Use *Riwega Seal INT/EXT* corner sealing collars at the corners and subsequent sealing with the underlying *Riwega USB Weld AS* membrane using *Riwega THF Welding Liquid*, or use *Riwega Seal DD* collars for round elements. Seal the edge of the membrane to the protruding components with butyl or acrylic tape, stabilising the surface beforehand with *Riwega Primer Spray*. In case of hot air welding, apply strong pressure with a silicone roller over all overlaps and interruptions. In case of cold welding, apply even pressure to the sealed surface with the help of a rag to remove excess welding agent

Accessories and laying equipment:

- *Riwega THF-Welding Liquid* (Art. no. 02010352)
- *Riwega USB-Welding Strip* (Art. No. 02010353)
- *Riwega Silicone Roller* (Art. No. PLA81202)
- *Riwega Weld Test Hook* (Art. No. PLA81205)
- *Riwega brush bottle* (Art. No. PLA13601)

Critical points:

- Please download the technical manuals from our website www.riwega.com.

Compatibility with different substrates:

- Check the support compatibility sheet on our website www.riwega.com.

Riwega srl reserves the right to change and/or update the data in this document. You will find constantly updated installation instructions on our website www.riwega.com. These installation instructions replace the previous version.