

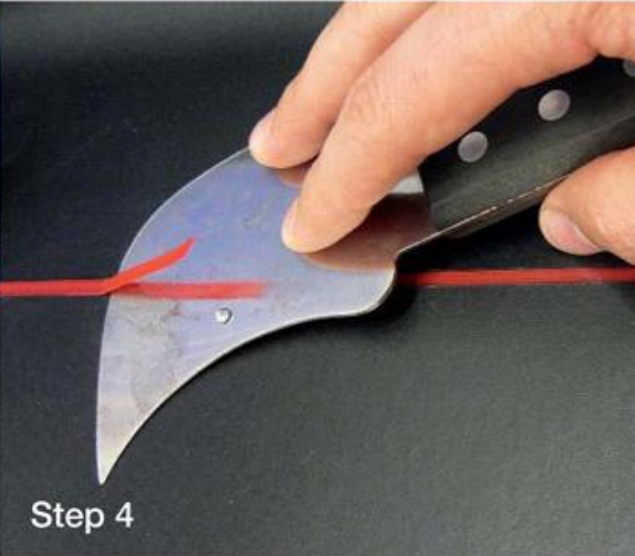
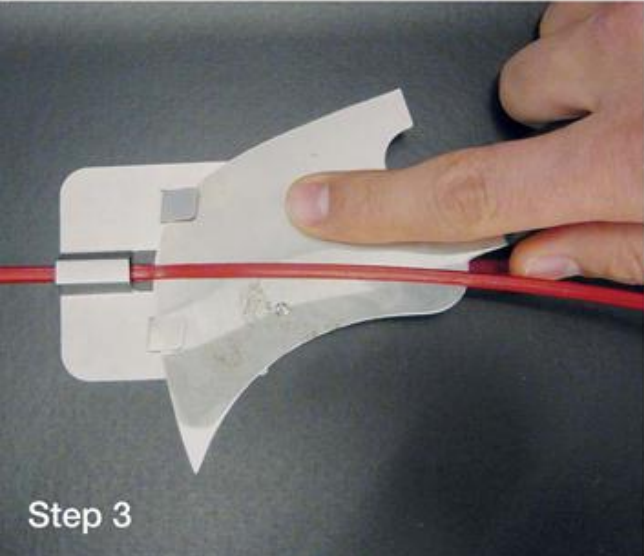
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Floor Welding Procedure - The 4 Steps

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Welding procedure in 4 steps



Welding procedure

Step 1: milling the groove with GROOVER and GROOVY

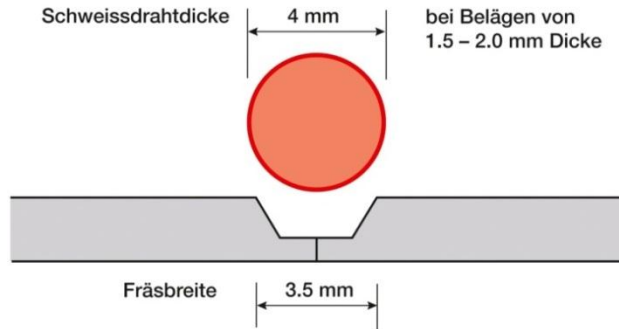


- Resilient floor coverings are glued to the subfloor before subsequent processing (approx. 1 – 2 days).
- Using the GROOVER milling machine, a groove must be cut along the laid floor cover joint. (**Attention:** work only in one direction).
- Depending on thickness of material and welding rod, different blades are used (details on following slide).
- The depth of the groove should be approximately 2/3 of the material thickness (details on following slide).
- With the GROOVY handheld gouging tool, the beginning and the end of a groove can be completed up to last millimeter.



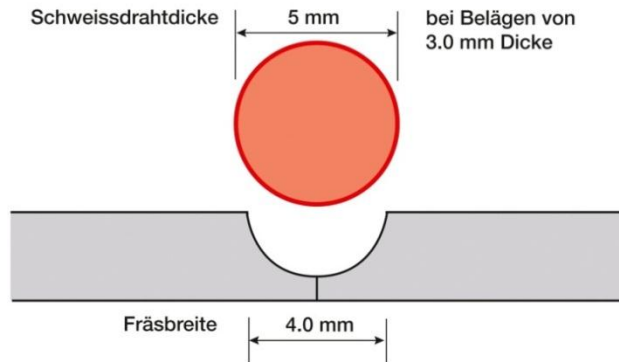
Welding procedure

Step 1: milling the groove with GROOVER and GROOVY



Recommended width of the groove

Ø Welding rod	Width of groove / blade
3 mm	2.5 mm
4 mm	3.5 mm
5 mm	4.0 mm



Recommended depth of the groove

Material	Thickness	Depth of groove
Linoleum	≤ 2.5 mm	down until to jute
	3.0 – 3.5 mm	2/3 (66%) thickness
	≥ 4.0 mm	2.5 mm
	≥ 4.0 mm sports floor	down until glass mat
PVC / PUR	≤ 1.5 mm	4/5 (80%) thickness
	2.0 – 3.5 mm	2/3 (66%) thickness
	≥ 4.0 mm	2.5 mm
	≥ 4.0 mm sports floor	down until glass mat

Welding procedure

Step 2: welding the seam



Hot-air welding with UNIFLOOR E/S automatic welder

- Recommended for **longer seams** because time savings, equal welding seams and reproducible weld quality;
 - constant (high) speed
 - constant pressure
 - constant temperature during welding (UNIFLOOR E)

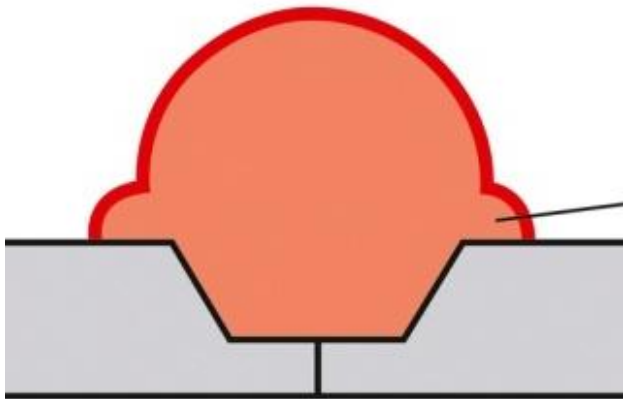


Hot-air welding with handheld tool TRIAC or HOT JET S

- Mostly used for **short seams**, repairs or connections
- In order to achieve an equal weld quality with hand welding tool, please pay attention to the following:
 - constant speed
 - constant pressure
 - constant temperature during welding (TRIAC AT)

Welding procedure

Step 2: welding the seam



Welding parameters

- Pay attention that the welding parameters are set in such a manner that you get a bead.
- Respect welding parameters suggested by manufacturer of flooring material
- Before start welding on the laid floor cover; always make a welding test in order to define best suitable parameters.

Possible welding parameters for UNIFLOOR automatic welder

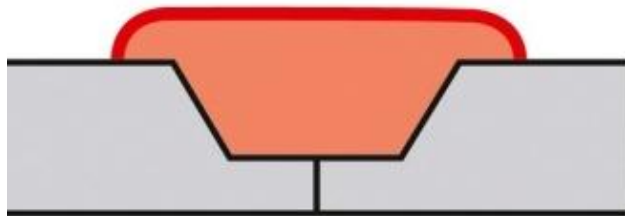
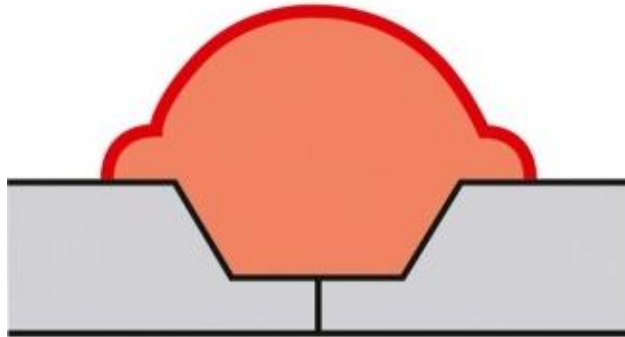
Material	Temp. °C	Speed m/min	Air %	Air flap
Linoleum	380 – 450	2 – 4	80 – 100	2/3 or 3/3
PVC / PUR	480 – 550	2 – 4	80 – 100	no flap

Possible welding parameters for hand welding tool

Material	Temperature °C	Air %
Linoleum	350 – 450 °C	80 - 100
PVC / PUR	450 – 520 °C	80 - 100

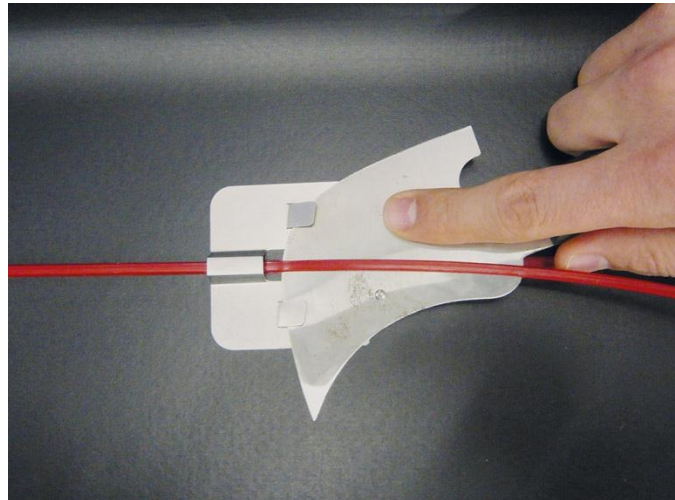
Welding procedure

Step 3: trimming welding rod “first cut”



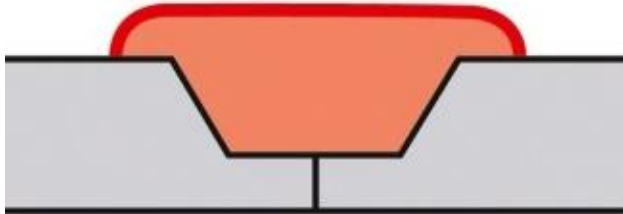
Trimming welding rod with Spatula and Trimming guide

- Trim welding rod just after the seam has been welded.
- In order to prevent a sink mark of the welding rod after trimming, the seam should get enough time to cool down.
- An offload of the welded rod in two steps is recommended.



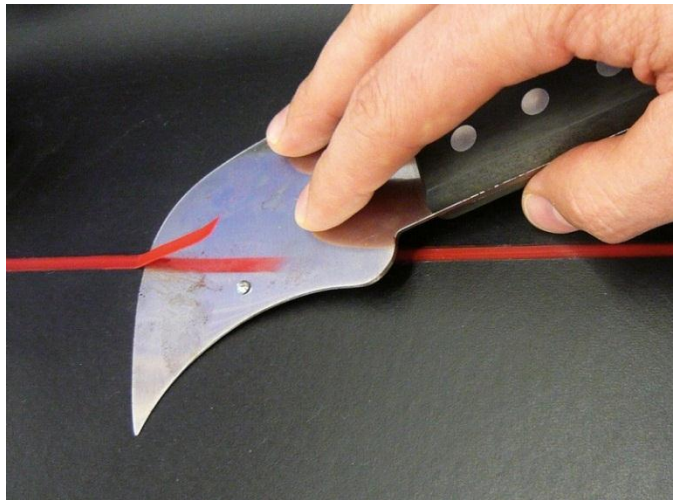
Welding procedure

Step 4: trimming welding rod “final cut”



Finally, cut welding rod with Spatula

- Trim welding rod using the spatula.



**Thank you for your
attention**

