

Compression Sleeve Joint



The REHAU compression sleeve joint is a non-detachable joint which is in accordance with BS 1264 - 4. The joints can be concealed (e.g. within screed or concrete) without an inspection shaft as long as they are clearly marked on the installation drawings.

The REHAU underfloor heating connection system relies on the "memory effect" which is the recovery behaviour of the RAUTHERM universal pipe.

The bore of the 'cold' RAUTHERM pipe is expanded using an expander tool. The fittings are then placed into each end of the pipe and jointed using the REHAU compression sleeving tool. This jointing technique requires one specific fitting for each RAUTHERM pipe size (16mm and 20mm) and jointing should only be carried out with a REHAU compression sleeving tool.

REHAU offer a wide range of robust compression sleeve tools to provide the installer the right tool for every installation.

IMPORTANT

Compression sleeve joints which will be covered in concrete or screed must be protected from corrosion in accordance with DIN 18560 e.g. wrapping them in PVC tape.

Jointing Tools

RAUTOOL M1:

- Manual jointing tool with two double clamping jaws: Sizes 16-20mm, 25-32mm.
- Expansion tool with four expansion heads.
- Pipe cutter.
- Pipe gripper.
- Allen key.



RAUTOOL M1

RAUTOOL H1:

- Hydraulic tool with two double clamping jaws. The tool is operated by a foot/hand pump. Sizes 16-20mm, 25-32mm.
- Expansion tool with four expansion heads.
- Pipe cutter.
- Pipe gripper.
- Allen key.



RAUTOOL H1

Electric and automated hydraulic tools are also available on request from REHAU. Please contact your local REHAU sales office for details.

Jointing Instructions

1

Cut both pipe ends with the pipe cutter (supplied with the tool set). Once the cutting blade has touched the pipe it must be cut (any non visible micro fractures could seriously reduce the burst strength of the pipe).

Slide a compression sleeve onto each pipe end. The inner chamfer of the fitting must be facing towards the cut end of the pipe.



2

Expand the pipe end with the correct sized expander heads (see expander head for size). Expand the pipe then rotate the expander heads by 20-25°. Repeat the expansion process to achieve a uniform expanded bore head.

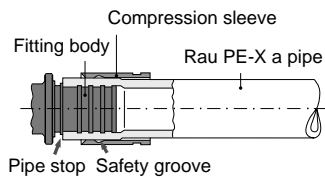


IMPORTANT

If the expander head is missing a segment (for example due to mechanical damage) then no further connection should be made with this head, as one-sided expansions will lead to leaks.

3

Push the expanded pipe ends onto each end of the fitting up to the pre set stop (last raised rib).



Slide the compression sleeve to the collar of the fitting using the jointing tool (use the correct size jaws).

When using RAUTOOL M1, make sure the release slider is in the top most position before the jointing tool is positioned over the fitting.



4

To release the manual RAUTOOL M1, slide the release slider down and to the side.



To release the hydraulic RAUTOOL H1 simply press the black release button next to the pump.



5

If the pipework is to be covered by screed then the brass fittings must be protected by tape.



6

According to BS EN 1264, all underfloor heating joints must be clearly marked on the installation drawing.

IMPORTANT Don't use damaged expander heads



IMPORTANT Always slide on sleeve to double the length of the expander head.



IMPORTANT Always push the pipe onto the fitting to pre stop position

