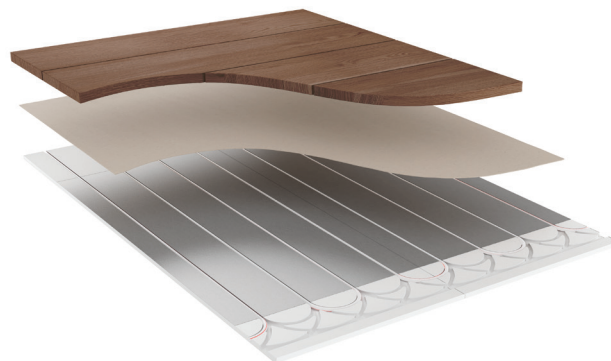# Roth QuickTemp Compact® system 24/16 and 14/10.5

The Roth QuickTemp Compact® system is specially developed for the installation of underfloor heating where a rapidly adjustable system with low overall installation height is required. The Roth QuickTemp Compact® system consists of high density EPS insulation with grooves and a bonded heat distribution plate made of aluminium 0.5 mm thick. The EPS insulation contains fire-retarded material.

As a result, this system is particularly well-suited to both new construction and renovation. The Roth QuickTemp Compact® system can be installed as a floating system in all locations where a robust, load-bearing base made of wood or concrete is available. The system can be finished off with a floating wooden floor, chipboard and with carpet or similar.

If the system is finished off with a tiled floor, the tiles must be bonded directly onto the system plates. Roth QuickTemp Compact® FLEX FIX, a specially developed adhesive offering high strength, outstanding adhesion and flexibility, must be used for bonding the system in place.
For more specific guidance on the structure of the design, please see our installation guides or contact Roth UK for direct support.

Technical data

Roth QuickTemp Compact® system 24/16
(installation height 25 ± 1 mm),
8.9 m²: UK No. 7339318024

Roth QuickTemp Compact® system 14/10.5
(installation height 14 ± 1 mm),
8.9 m²: UK No. 7339318010

Roth QuickTemp Compact® system 14/10.5
(Installation height 14 ± 1 mm),
5.2 m²: UK No. 7339318006

Dimensions	height 24/16 (installation height 25 ± 1 mm)
	height 14/10.5 (installation height 14 ± 1 mm)
	width 610 ± 4 mm,
	length 1219 ± 3 mm
Area	0.74 m²/plate
	1 pack = 8.9/m² or 5.2/m²
Grooves	4 x C/C 152 mm or
	2 x C/C 304 mm
Material	24 and 14 mm expanded polystyrene, density 50 kg/m³, Compressive strength 400 kPa
Max. general load	2.0 kN/m²
Insulating ability	0.032 W/mK
Usage per m²	1.40 plates
Pipe usage per m²	
at C/C 152 mm	6.5 m/m²
at C/C 304 mm	3.3 m/m²
Min. floor thickness	13 mm wood/laminate
	- always follow the wooden floor manufacturer's instructions

Floor structure's weighted impact sound attenuation:

Roth QuickTemp Compact® system 24/16	Δ Lw = 19 dB
Roth QuickTemp Compact® system 14/10.5	Δ Lw = 18 dB
Enhanced air sound insulation	Δ R'w = 1 dB

Recommended pipe type and max. pipe lengths:

Roth X-PERT S5® 10.5 x 1.3 mm	max. 60 m
Roth X-PERT S5® 16 x 2.0 mm	max. 90 m

Accessories:

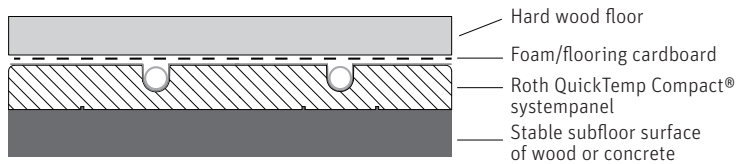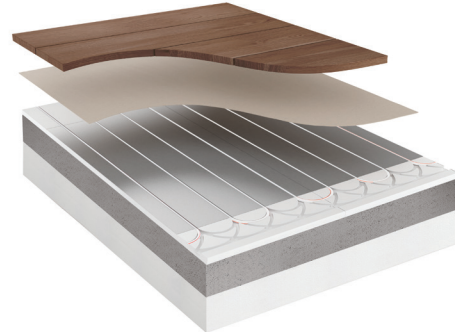|	
Roth QuickTemp Compact® FLEX FIX, 25 kg	UK No. 7339349818
Roth QuickTemp ClimaComfort® FLOW, 25 kg	UK No. 7339349825
Roth QuickTemp Compact® Primer, 10 kg	UK No. 7339349810
Roth QuickTemp Compact® turnover plates, (14/10.5) 10 pcs.	UK No. 7339318810
Roth QuickTemp Compact® turnover plates, (24/16) 10 pcs.	UK No. 7339318824
Roth QuickTemp ClimaComfort® perimeter insulation (50 mm) 25 m.	UK No. 7339259025
Roth transfer plates Roth QuickTemp Compact® (14/10.5) 20 pcs.	UK No. 7339318714
Roth transfer plates Roth QuickTemp Compact® (24/16) 20 pcs.	UK No. 7339318724

Roth QuickTemp Compact® system 24/16 and 14/10.5

General structure

The Roth QuickTemp Compact® system can be used together with a variety of flooring and subfloor makes. We always recommend that you get in touch with the supplier for advice and support regarding the correct structure.

If you require a floating floor (parquet, laminate or similar), the Roth QuickTemp Compact® system is laid in a floating configuration and finished off with floor felt or 3 mm foam before laying the floor.
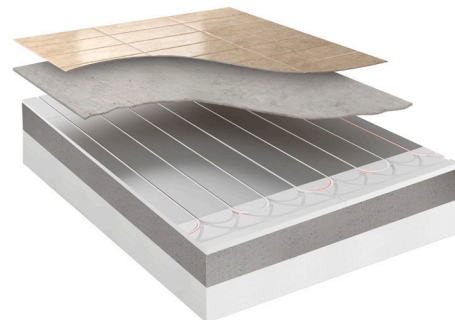
Depending on the surface of the subfloor, it may be necessary to lay floor felt to prevent noise between the subfloor and the EPS.

Hard wood floor
Foam/flooring cardboard
Roth QuickTemp Compact® systempanel
Stable subfloor surface of wood or concrete

Example: Structure with Roth QuickTemp ClimaComfort® FLOW and tiles

The Roth QuickTemp Compact® system system can be finished off with tiles depending on the load-bearing structure beneath the system. We therefore refer you to our special guides which describe in detail how to create a structure depending on the structure of the subfloor and using tiles for the floor, and also depending on what the room is used for (wet/dry). These guides can be downloaded from our website, or contact Roth UK for support.

NOTE: All tile grout used with the Roth QuickTemp Compact® system must be elastic, such as Alfix CeraFill 10.

If you cast a floor on top of the Roth QuickTemp Compact® plates, e.g. using Roth QuickTemp ClimaComfort® FLOW filler, the plates must be primed first and perimeter insulation must be placed along the walls. The perimeter insulation safeguards the floor against stresses and cracking when it is subjected to thermal load, etc. When tiles are to be used for the flooring, larger floor areas must be divided up using expansion joints into fields not exceeding 40 m². This must not be done using Flow filler, but by creating silicone joints or similar in the layer of tiles.

Tiles
Tile adhensive
Roth QuickTemp ClimaComfort® FLOW
Roth QuickTemp Compact® Primer
Roth QuickTemp Compact® systempanel
Roth QuickTemp Compact® FLEX FIX
Stable subfloor surface of wood or concrete