



THERMIO[®]+
TECHNOLOGY



THE GUARANTEED ULTRA-EFFICIENT SCREED FOR UNDERFLOOR HEATING

Inside the Gylvon[®] Screed 'Environmental Screed Solutions' range THERMIO[®]+ technology has been developed to further improve underfloor heating systems by creating a screed that is specifically designed to complement all underfloor heating & cooling systems.

Gylvon[®] Screed THERMIO[®]+ is the only screed with a guaranteed thermal performance.

WHAT DOES THERMIO[®]+ OFFER?

THERMIO[®]+ technology coupled with an underfloor heating or cooling system **guarantees** pipe encapsulation and an **emitter** which will give:

- + performance:** up to 30%³ increase of the thermal emission value for maximised performance of the underfloor heating system.
- + comfort:** up to 80% thermal diffusivity for a much faster ramp-up in temperature, greatly improving immediate and long term comfort.
- + savings:** up to 8%¹ savings on heating bills

ALL THE NORMAL BENEFITS OF GYVLON[®] SCREED PRODUCTS

THERMIO[®]+ has **all the benefits** that you have come to expect from Gylvon[®] screed:

- **Very high fluidity** for fast installation
- **Minimum SR2** surface finish
- **Greatly reduced cracking** and no curling
- **Maximum bay size 300m²**
- **No reinforcement**
- **No need for a curing membrane**
- **Typically 36% recycled content**

MAIN FEATURES

- ➔ **High and guaranteed thermal performance** both in heating or cooling modes
- ➔ **Low inertia** (Nominal thickness at 20mm only above pipes)
- ➔ **Red colouration** to ensure correct product selection



GYVLON[®] SCREED THERMIO[®]+ IS THE ONLY SCREED WITH A GUARANTEED THERMAL PERFORMANCE.

EXCELIO[®]
TECHNOLOGY

The ultra-thin readymix flowing subbase leveller

FINIO[®]
TECHNOLOGY

The thin and lightweight flowing screed solution

THERMIO[®]+
TECHNOLOGY

The guaranteed ultra-efficient screed for underfloor heating

XTR[®]
TECHNOLOGY

The strongest screed for the most demanding situations

ECO^{FD}
TECHNOLOGY

The Gylvon[®] screed version with faster drying (FD)

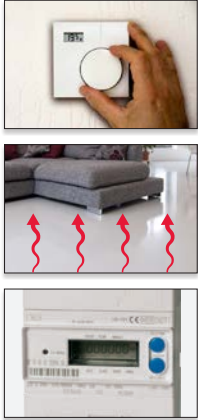
ECO
TECHNOLOGY

Anhydritec's versatile Gylvon[®] screed

Gylvon[®] Screed a product range from

ANHYDRITEC
Minersa Group

THE GUARANTEED ULTRA-EFFICIENT SCREED FOR UNDERFLOOR HEATING



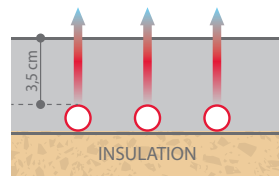
THERMIO®+ is an accumulation of benefits for your water underfloor heating systems :

THERMIO®+ screed enables a **much faster rise in temperature** thanks to its high thermal diffusivity (up to +80% compare to a cement screed), providing quicker response to thermostat changes.

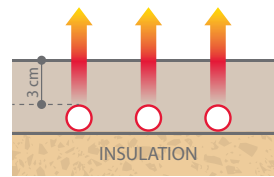
Greatly improved comfort, the floor emits the heat in a more efficient and homogeneous way thanks to the exceptional thermal emission value of THERMIO®+ (up to +30%³). **Maximising your underfloor heating performance.**

The high efficiency of THERMIO®+ allows your boiler or heat pump to work with a better efficiency, and to make **considerable savings on your heating bill** (up to 8%¹ saving).

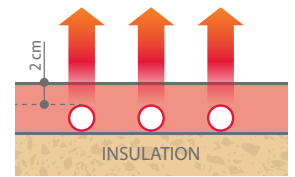
Traditional cement



LOW CONDUCTIVITY
STANDARD THICKNESS



GOOD CONDUCTIVITY
REDUCED THICKNESS



HIGH CONDUCTIVITY GUARANTEED
THIN SCREED SOLUTION

COMFORT



EFFICIENCY



THERMAL GUARANTEE

-

-



Tested extensively in Europe with manufacturers such as : Acome, Comap, Efex, PBtub, Rehau, Roth, Uponor, Velta, Wavin

OUTSTANDING PERFORMANCE

TECHNICAL CHARACTERISTICS

Mechanical strength	C30 F8		
Thermal conductivity (nominal value) ²	$\lambda=2,5W/m.K$		
Thermal emission coefficient ³	$K_H \geq 7,42W/m^2.K$		
Diffusivity	$D=1,0.10^{-6} m^2/s$		
Wet Density	2 200kg/m ³		
Dry Density	2 000kg/m ³		
Nominal thickness above the pipe	20mm		
Minimum thickness by substrate	Unbonded		
	Floating	Residential	35mm
		Commercial	40mm

1. Evaluation made by independent thermal engineering company (Cardonnel)
2. According to BBA, with a minimum of 2.3 W/m.k guaranteed thermal performance for approved concrete plants across the UK
3. Calculation according to EN1264. Minimum value stated at the present document edition

INSTALLATION BENEFITS

Flow	250mm (± 10mm)
Joints	300m ²
Productivity	up to 200m ² / hour or 1 500m ² / day

THERMIO®+ is a technology patented by ANHYDRITEC®



Thermal diffusivity (D): ability of a material to transmit more or less quickly a temperature change

Thermal emission value (K_H): capacity of a water heating system to give back heat circulating through pipes

Thermal conductivity (λ): property of a material to conduct heat . Higher conductivity equals quicker reaction



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