

ALUMINIUM BROCHURE

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WHY CHOOSE ALUMINIUM?

Aluminium is a metal with excellent mechanical and energetic performances and for this reason it is the ideal choice in numerous heating & plumbing applications.

There are many great reasons to select aluminium for your radiators instead of other less efficient metals such as steel and cast iron:

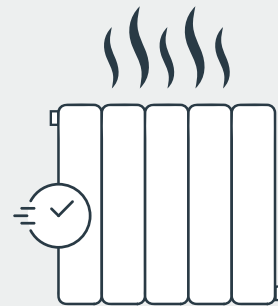
DUCTILITY AND MANLEABILITY

Aluminium is easily worked and ideal at both high and low temperatures.



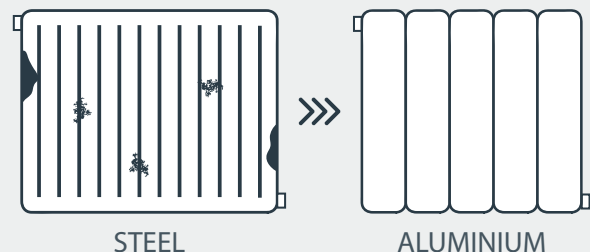
HIGH THERMAL CONDUCTIVITY

Aluminium conducts heat in an excellent way thanks to its low thermal inertia. Meaning that it rapidly extracts heat from the hot water inside and almost immediately transfers it to the room. This means that aluminium performs very well even when the inlet water temperatures are considerably low, as they are with heat pumps.



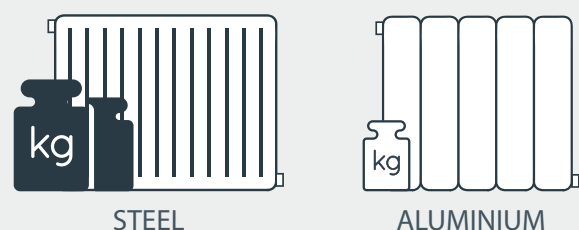
FORGET ABOUT CORROSION

The properties of aluminium give to Fondital radiators a high degree of resistance against corrosion both externally, keeping their finish perfect, and internally. In fact, the total absence of impurities and residues typically caused by corrosion, ensures a clean and efficient heating system, increasing its durability over time and avoiding any unexpected cost.



LIGHTWEIGHT

The lower weight of aluminium compared to steel makes the product easy to handle and install, as well as potentially saving several tons of weight to a building.



WHY CHOOSE FONDITAL RADIATORS?

Fondital offers a wide range of high-quality radiators, all Made in Italy.

All radiators are made entirely of aluminium, with the aim of delivering high performing products manufactured with environmentally friendly processes.

The advantages of choosing Fondital aluminium radiators:

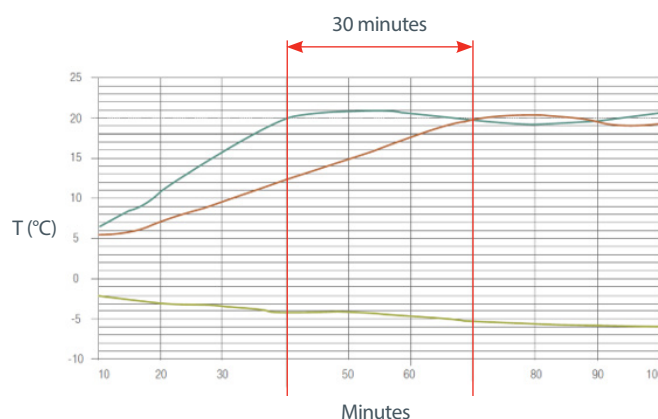


FAST HEAT: Fondital's aluminium radiators adapt quickly to a change in temperature, giving greater advantages in terms of comfort in the home and helping optimizing energy consumption.

The graph shows the time taken to bring a medium-sized apartment from 5°C (41°F) to a optimal temperature of 20°C (68°F) using a 24 kW boiler

- Room temperature with Aluminum Radiators
- Room temperature with Steel Radiators
- External temperature

Fondital aluminium radiators reduce significantly the time taken to heat up the room to the desired temperature, therefore wasting less energy and providing fast heat for the best possible comfort.

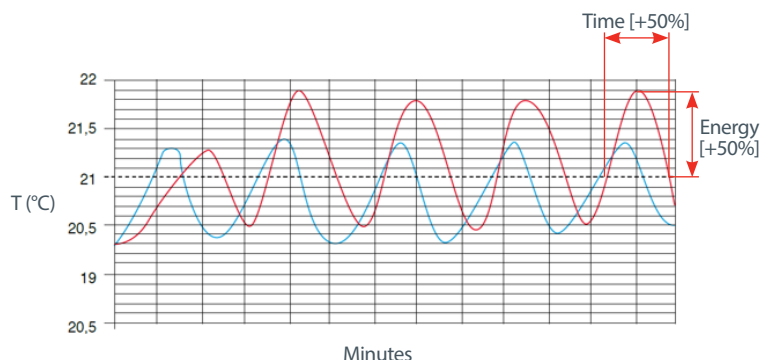


Heat Transfer

Thermal Conductivity λ [20°C / 68°F]

- Aluminum 210 W/mK
- Steel 105 W/mK
- Cast Iron 50 W/mK

Once the desired temperature is reached, Fondital aluminium radiators are able to modulate much more effectively compared to steel radiators, therefore maintaining the right temperature while using less energy.



DOUBLE PAINTING PROCESS: to ensure great finishing and optimal performance, all Fondital radiators undergo a double painting process: Anaphoresis, to protect the metal and ensure greater durability to the product and Epoxi Powders which guarantee the modern and shiny looks. This treatment is not commonly used on steel radiators.

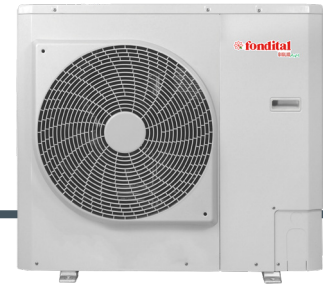


THERMO ELECTRIC TECHNOLOGY: the patented thermo-electrically joined cap of Fondital radiators prevents corrosion and heat losses while making the radiator more compact, better looking and easier to install.

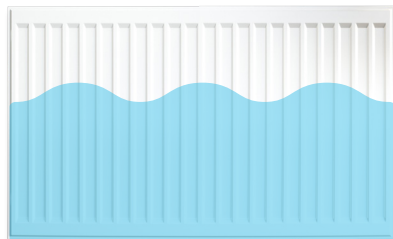




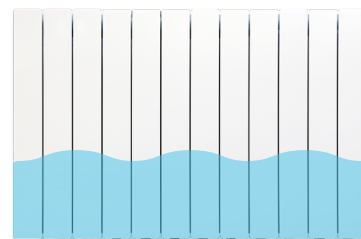
LOW TEMPERATURE: Thanks to the great properties of aluminium, Fondital's radiators are the ideal match for environmentally friendly, low temperature heating systems such as heat pumps and condensing boilers.



LOW WATER CONTENT: Fondital's aluminium radiators feature a uniquely low water content compared to any other steel or aluminium counterpart. The reduced water content means that the energy required to heat the water up will be lower.



6,13 l
STEEL



3,24 l
ALUMINIUM

(Using a 500x1.000mm type 22 steel panel radiator as an example)



WARRANTY: all radiators are guaranteed 10 years against all manufacturing defects, giving all our customers complete peace of mind.

Aleternum®

To prevent corrosion, Fondital has developed the patented Aleternum anti-corrosive treatment. Thanks to the use of a special resin applied to the inside of the radiators, Fondital is able to guarantee total protection, extending the warranty up to 20 years.



SPACE SAVING: all Fondital radiators are modular, meaning that they are made of individual sections joined together. Sections and radiators can be easily assembled or disassembled to fit in any space in any house and meet any heat requirement without having to under or over-size it because of the fixed dimensions of steel panels.



GREEN PHILOSOPHY

In addition to being a metal with excellent performance, aluminum is extremely virtuous in terms of environmental sustainability: it can be recycled indefinitely without ever losing its original properties.

All the alloys used by Fondital are made of 100% recycled aluminum supplied to the factory in liquid state, allowing to achieve even more significant energy savings by not having to melt down ingots.

Learn more about recycled aluminium:



100% RECYCLED AND RECYCLABLE: aluminium, thanks to its versatility, can be recovered indefinitely while maintaining its qualities, with very little impact on the environment.



LOW CARBON FOOTPRINT: in Europe, the carbon footprint of 1 Kg of recycled aluminium is 0.5 Kg of CO₂e, while that of 1kg of primary aluminium is around 6.7 kg of CO₂e.



ENERGY SAVING: the recycling process used to recover our aluminium allows to save up to 95% of the energy used to extract primary aluminium.



ECO-FRIENDLY PACKAGING: over the years we have progressively eliminated all plastic use in the packaging, now made with 100% recyclable cardboard, ensuring maximum protection while keeping the product friendlier to the environment.

At Fondital we strongly believe that making quality products must be a strictly linked to environmental awareness, with the aim of consciously managing the resources available to protect our planet and reduce waste as much as possible.

The manufacturer reserves the right to make any modifications deemed necessary without prior notification.

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QUALITY SYSTEM
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