

- **Energy Saving**
- **Indoor Air Quality**
- **Health**



ENERGY SAVING INDOOR AIR QUALITY HEALTH



SAFBUILD Ltd
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Air Quality & Energy Saving

THESAN is highly committed with the development of Indoor Air Quality, being a strategic link between Energy Saving, Pollution Reduction and People Health and Well-being. All this can be summarized in one word, **SUSTAINABILITY**.



We can also save energy by correctly ventilating our living and working environments. This vision embraces the discussions associated with Indoor Air Quality (IAQ) that are strictly related to the problems caused by indoor and outdoor pollution, with adverse consequences to public health and to government healthcare expenses.



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Aircare AF is an innovative controlled mechanical ventilation system. It is fitted with extremely efficient filters and ensures correct air change by supplying fresh, filtered air and removing polluted air. This provides excellent protection against fine particulates.

Aircare AF counteracts noise pollution because windows can be kept closed. It also helps to save energy: air-conditioning use can be kept to a minimum when it is hot because fresh air flows into the room at night. Then, when it is cold, air is changed without the need to open windows and waste heat.



Aircare has a very sleek design, in the unmistakable Pininfarina style, so it blends into any public or private building.

pininfarina

Aircare ES represents the evolution of Aircare AF. Besides ensuring correct air exchange it also recovers dispersed heat and reduces considerably energy consumption thanks to its heat recuperator.

Aircare ES is indicated for both temperate climates, with significant cold during winter and need for internal heating, and for environments with summer high temperatures requiring an air conditioning system.

Aircare ES recovers heat from internal air which is expelled and transfers it to colder incoming air in order to preserve the thermal balance of the house.

Aircare ES saves space and saves up to 75% of the heat that would normally be wasted by the opening of windows or by controlled ventilation without heat recovery.

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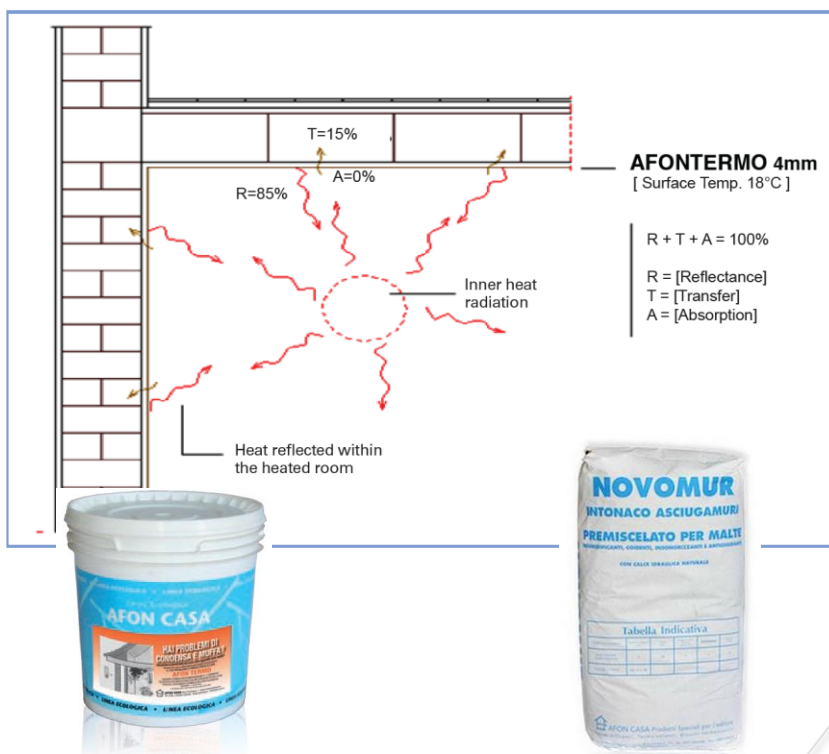


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Thermal Insulation for Energy Saving

AFONTERMO® THERMAL MICRO COAT is an extra thin anti-condensation reflective insulating coating that adds to the house walls few millimeter insulation working as 6 - 7 cm of standard insulation.

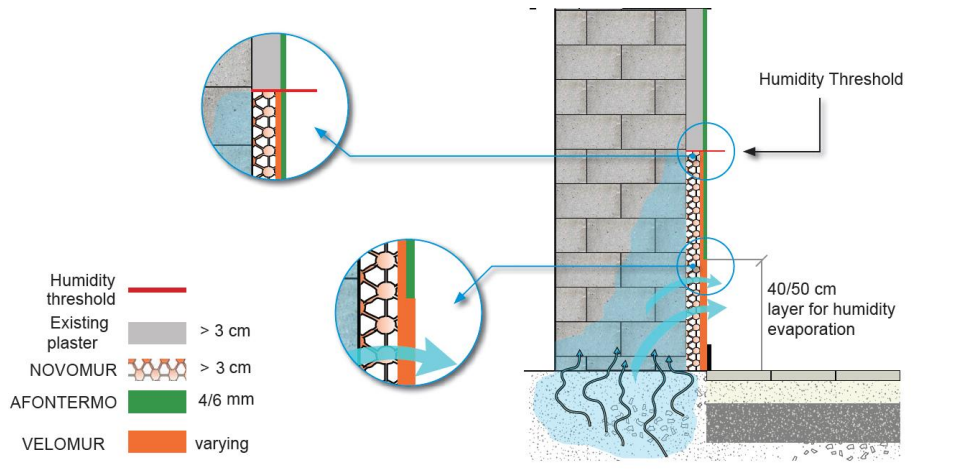
AFONTERMO® is a ready-to-use product made of natural insulating aggregates and resins, which cleverly solves the problem of insulation in walls, countering the effects of thermal bridges and offering an alternative to traditional thermal cladding. In the light of an increased demand for biocompatibility and low energy consumption, this product has outstanding insulating performance that prevents condensation and mould forming and optimizes the energy performance of buildings.



NOVOMUR® is the first thermo-depressurizing plaster, able to dehumidify the walls subject to any type of moisture: upcoming, ground based and due to condensation.

AFONTERMO cycle on upcoming humidity

Example: CASES WITH HUMIDITY AT 1 MT HEIGHT:



VELOMUR® is used for surface finishing and/or thermal insulation. It is highly breathable, specifically designed to complete the thermo-depressurizing cycle of **NOVOMUR®** plaster.

It can be used either as a traditional plaster finish or as a preparation and leveling media prior to **AFONTERMO® THERMAL MICRO COAT**.



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Thermal Insulating Coating to make home a healthier place and contribute to Energy Saving

ATRIATHERMIKA® is a coating line specifically designed to protect homes by generating a healthy environment. It highly improves living conditions, giving a feeling of superior wellness that one can really perceive.

Atriathermika is the first certified Energy Saving product: thanks to 20% higher thermal coefficient than conventional painting it will save money in terms of heating / cooling costs.



Energy Saving
20% higher insulation coefficient



Wellness-Care® Technology

Atriathermika technology reduces heat exchange between exterior and interior and makes the rooms cooler in summer and warmer in winter (+/- 4°C). The result is a homogeneous temperature distribution and a healthier environment, free from mould, moisture and condensation.



Anti-mould



Anti-condensation



Made in Italy

Atriathermika Green Clean Air is a class A+ certified product which does not contain any harmful substances (EN ISO 16000-9:2006 regulates the level of volatile organic compounds emission).

Atriathermika Green has a Clean Air Certified action, it purifies the air of the treated environments, making them healthy and non-polluted. Formaldehyde and other pollutants present in the environment are dissolved and eliminated in an efficient and lasting way.

Efficiency tested and guaranteed by one of the most recognized and renowned Italian bodies in the field, Istituto Giordano Spa (Technical Report No. 326966).



GREEN



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EFFECTS OF ATRIATHERMIKA OUTDOOR APPLICATION

HEAT REFLECTION

Atriathermika reflects infrared and UV rays and prevents the heat from transferring through the coating.

FULL PROTECTION AGAINST INFILTRATIONS

High water repellency facilitates rapid evaporation of water and high resistance to smog and atmospheric agents.

THERMAL BARRIER

The low thermal conductivity creates a real barrier that does not allow external heat and cold to penetrate the paint or coating layers.

ELIMINATION OF THERMAL BRIDGES

Condensation, mould and moisture resistance allows the elimination of thermal bridges (especially in the northern walls). Moisture can no longer be generated and attack the areas of buildings where there is greater heat dispersion.



EFFECTS OF ATRIATHERMIKA INDOOR APPLICATION

THERMOS EFFECT

The internal temperature is not influenced by external thermal stresses. Warming or refreshing a homogeneous environment is much faster, resulting in real energy saving.

LIVING COMFORT AND HEALTH

The internal temperature is equally distributed, there are no more cold zones and hot areas, so condensation, mould and moisture disappear.

ATRIATHERMIKA IS GREEN

Atriathermika GREEN Clean Air does not contain any harmful substances and purifies the air.

NO VOLATILE ORGANIC COMPOUNDS

Formaldehyde and other pollutants present in the environment are dissolved and eliminated in an efficient and lasting way.



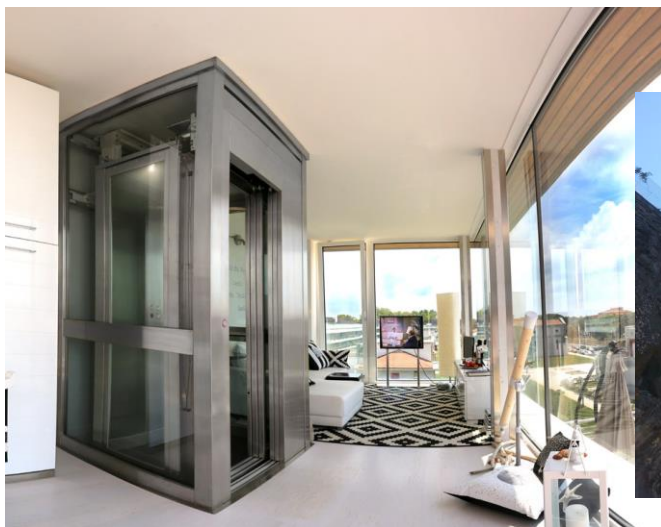
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Low Energy Consumption Lifts and Platforms. Comfort and customisation with Energy Saving in mind



Mangusta is an electric elevator provided with an innovative traction system, patented ARE[®]H2E (High Efficient Energy), which allows the use of only 0.15 kW power and the consumption of only half the electricity required by hydraulic elevators.

The presence of two batteries allows the use of Mangusta even in the event of an extended blackout.

The system grants high efficiency and low energy consumption and can be tailored to reduce the impact on the building.



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Miniwatt is a platform with the innovative patented drive system ARE®H2E, based on the use of a DC motor. This technology allows the operation of the lift using only 0.15 kW and grants its use even in the event of a prolonged blackout.

Miniwatt elevator offers various possibilities to integrate aesthetically with the environment that surrounds it. It is perfect for single-family houses and commercial activities. Customizable measures make it suitable for renovations. This lift is the ideal solution where there is a need to serve the attics, lofts or top floors with reduced heights.



Elios is an electrical lift with the patented traction system ELIOS®H2E (High Efficient Energy). It grants exceptional performance with only 0.3 kW of power. Moreover the two batteries installed ensure that Elios can also be used during prolonged blackouts.



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Panic push-bars and handles can help to stop the proliferation of microbes



Juvarra and Brunelleschi panic push-bars are manufactured by the Italian company SAVIO and designed by Pininfarina. They combine style with high hygienic performances as they are provided with a special antibacterial treatment that makes them perfect for use in public places such as schools, hospitals and offices.

Biocote® is an international leader in antimicrobial and antibacterial technologies, which protect products for a long time, creating a surface on which microbes cannot survive.

The Biocote® silver ions technology is incorporated in Juvarra and Brunelleschi push-bars as an additive during the production phase, not applied as a coating after manufacturing. Once they are incorporated, antimicrobial additives offer full and continuous protection for the entire service life of the product.



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By contrasting the negative impact that microbes may have on the surface of a product the Biocote® technology grants the following positive effects:

- It improves hygienic conditions
- It keeps the product clean and fresh for a longer time eliminating microbes that cause bad smell and stains
- It extends the life of a product preserving its surface from microbial damages.

Biocote® technology can be applied also to all the handles manufactured by the company SAVIO.



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