

GT

REDHEAT

NEW HEATING SOLUTIONS

PRODUCTS AND SYSTEMS FOR LOCALIZED INFRARED HEATING

EFFICIENT, ECOLOGICAL, SAFE

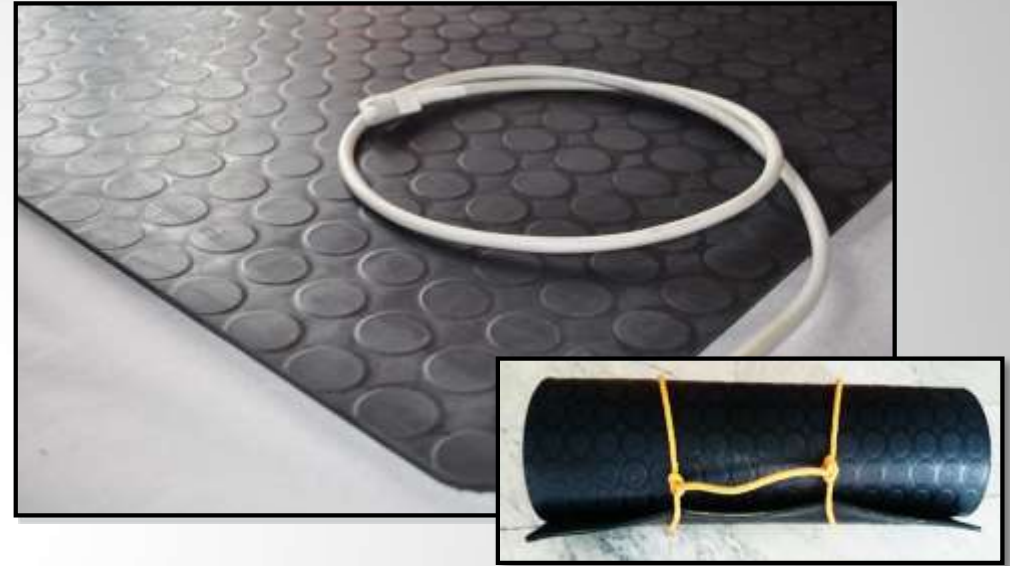
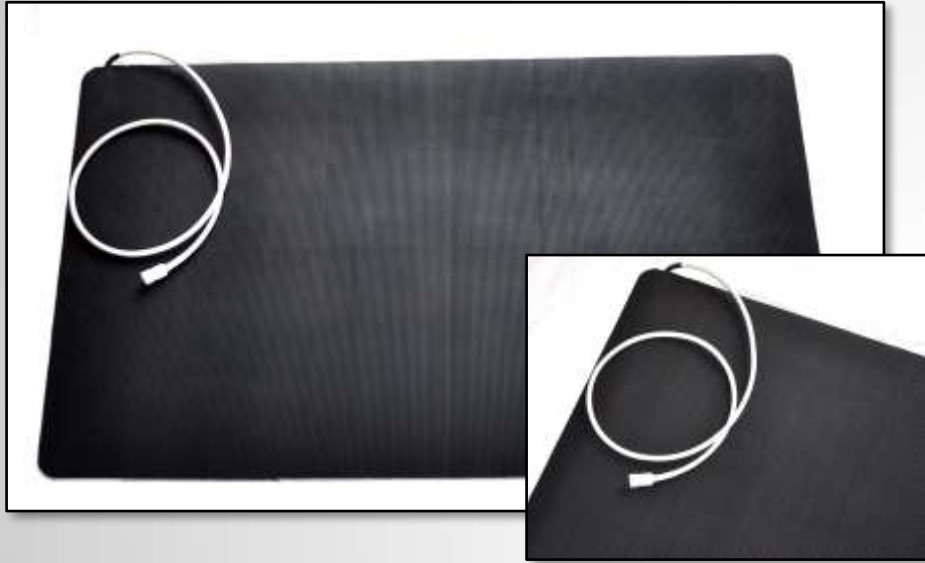


The sun inside



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INNOVATIVE RUBBER HEATING FLOORS



RADIATING ELECTRICAL FLOORING WITH HIGH SECURITY AND EFFICIENCY

STRONG AND DURABLE WITH CUSTOM FINISHING

QUICK AND EASY INSTALLATION, NON INVASIVE, REMOVABLE AND REPOSITIONABLE

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REDCARPET IS MADE OF HIGH DENSITY AND CONDUCTIVITY RUBBER (1400 Kg/m³)

BOTH SIDES OF THE RADIANT CARPET ARE MADE WITH AN ELEGANT "DIAMONDS" FINISH

WHEN ONE SIDE BECOMES TOO WORN OUT, YOU JUST NEED TO TURN THE CARPET!
IN THIS WAY THE LIFE OF **REDCARPET** DOUBLES.



The "diamonds" finish ensures maximum drainage to the lower face and the maximum non-slip grip on the upper face.

ON REQUEST AND ON MINIMUM QUANTITY IT IS POSSIBLE TO ORDER ALSO THE "RIBBED" FINISHING.
ON ONE SIDE OR BOTH.



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RED CARPET

RED CARPET HEATING SYSTEMS ARE POWERED ONLY WITH VERY LOW VOLTAGE (24-30 volts)

CONNECTION TO 230 VOLT ELECTRICAL POWER IS MADE THROUGH OUR SPECIAL ADAPTERS CLASS II SELV SPECIALLY DESIGNED AND BUILT.



- **SILENT** *(No moving parts)*
- **SAFE** *(Isolated and with double protection)*
- **LONG LASTING** *(First quality electrical components)*

AFTER THE ADAPTER, THE ONLY CURRENT FLOWING IN THE SYSTEM IS 24 Volt ELIMINATING ANY RISK OF ELECTRIC SHOCK, FIRE, ACCIDENTS AND INJURIES



THE ONLY ONE SAFE *EVEN IN CASE OF SNOW, ICE, WATER OR UNINTENTIONAL DAMAGE (puncture, cut, tear)*

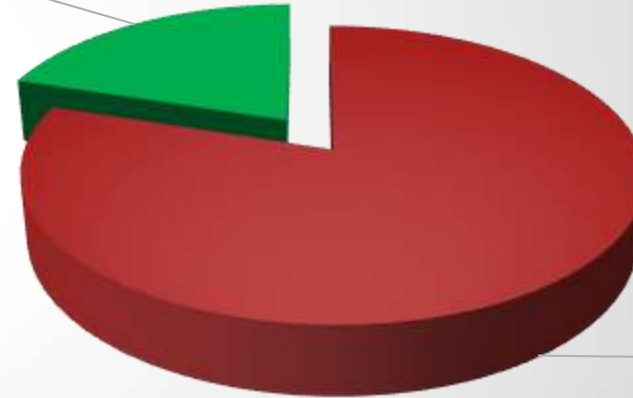
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HEATING OF THE WORKPLACE WITH REDCARPET FOR INDUSTRY



ENERGY CONSUMPTION

Energy needed
to heat only the
workplaces
20%



Energy needed
to heat the
entire building
80%

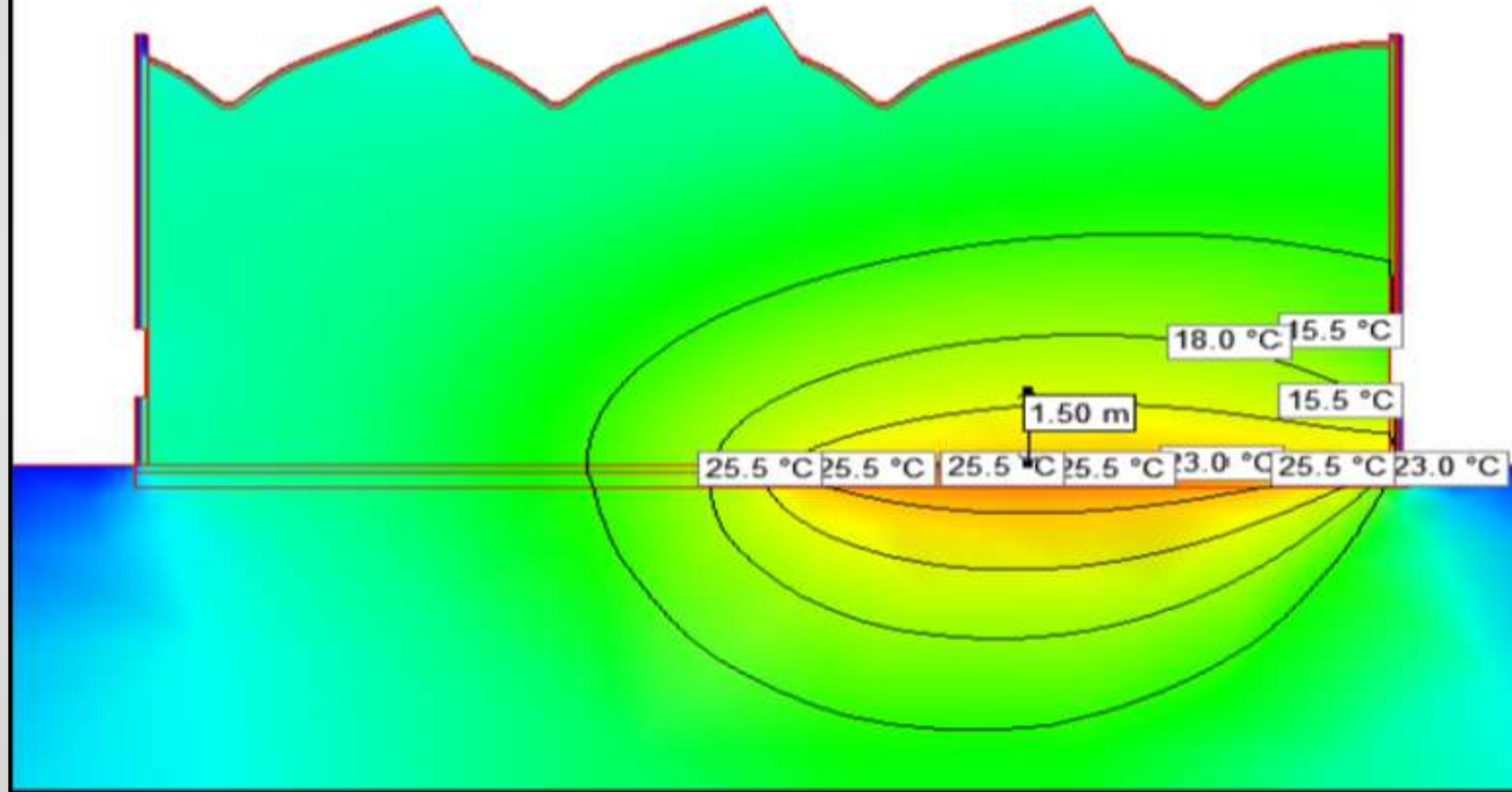
■ Energy needed to heat the entire building

■ Energy needed to heat only the workplaces

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HEATING OF THE WORKPLACE WITH REDCARPET FOR INDUSTRY

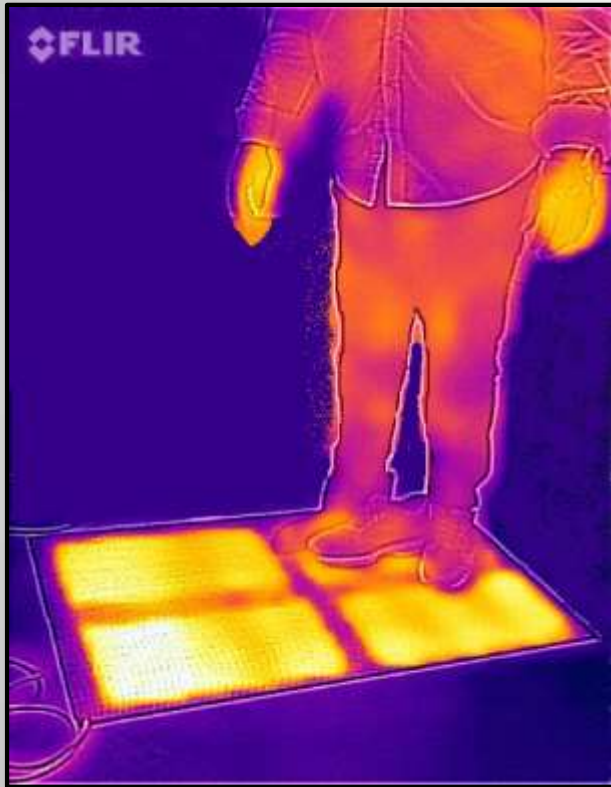
Simulation of the thermal flows in an industrial warehouse with REDCARPET installed



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RED CARPET INFRARED HEATING SYSTEMS

FOR A HEALTHY AND LOCALIZED HEATING OF THE WORKPLACE



THANKS TO THE LOW VOLTAGE ALLOWS:



- COST REDUCTION MANAGEMENT



- REDUCTION OF EMISSION IN THE ENVIRONMENT



- THERMAL COMFORT FOR THE WORKERS



- SAFETY



- HYGIENE



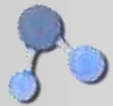
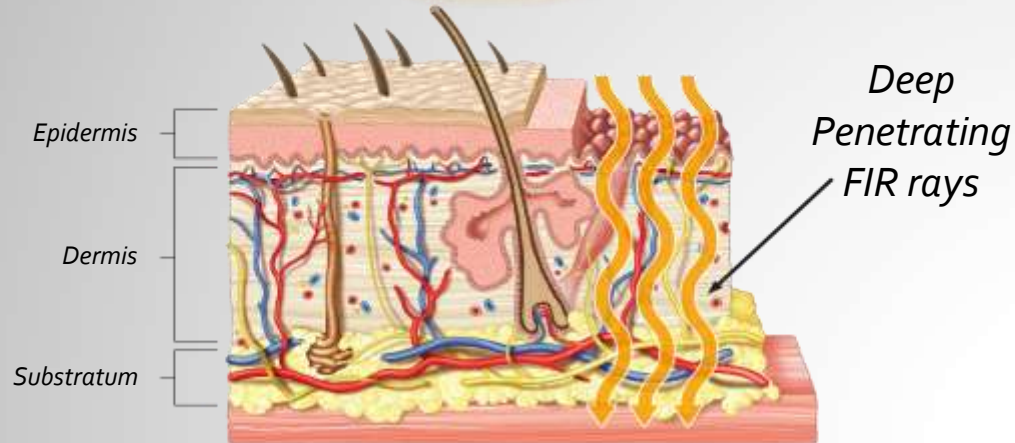
- PHYSIOLOGICAL BENEFITS

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EFFECTS AND BENEFITS OF INFRAREDS ON THE HUMAN BODY

THE LONG INFRARED ENERGY

PENETRATES DEEPLY INTO THE SKIN



Optimizing the role of water in cellular metabolism

PREVENTING

- LACTIC ACID
- INFLAMMATIONS

IMPROVING

- VASCULARIZATION
- SKIN REGENERATION



IMMEDIATE EFFECTS

- SOFT HEAT, RELAXING AND ANTIFATIGUE



EFFECTS ON THE BODY

- TROPHIC EFFECT
- DETOX EFFECT
- ANALGESIC AND PAIN REDUCING EFFECT



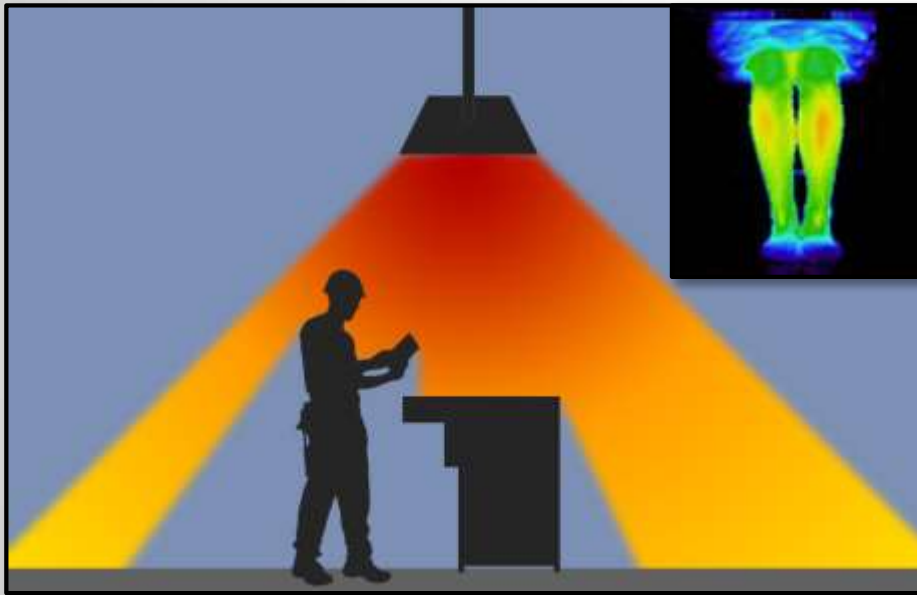
HYGIENE

- LESS HUMIDITY THEREFORE LESS MOLD
- LESS GERMS AND BAD SMELLS
- PREVENTS BACTERIAL PROLIFERATION

THE EFFICIENCY OF REDCARPET

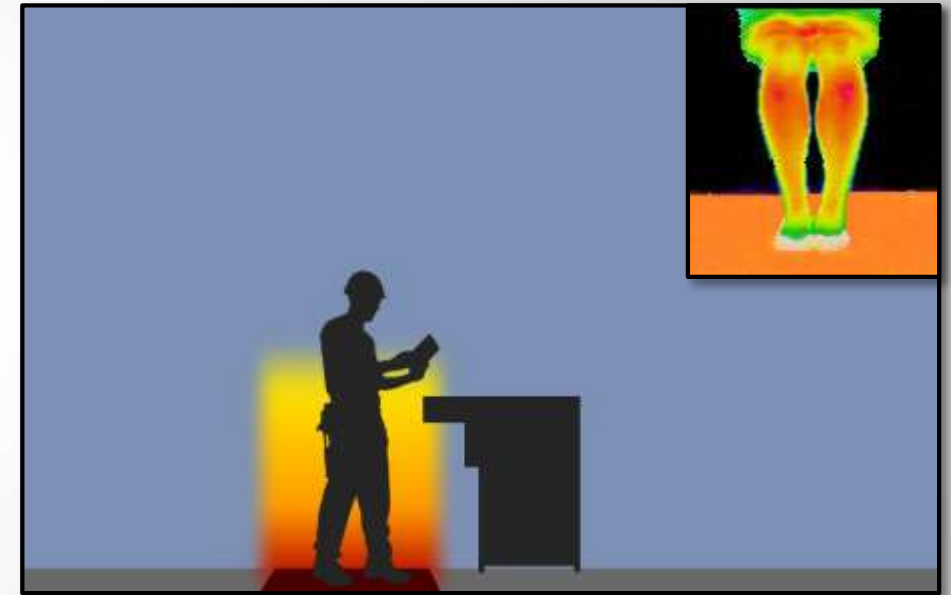
FOR THE HEATING OF WORKSTATIONS

HEATING



with gas stoves, lamps, thermo fans, ecc...

RADIATION



with **REDCARPET**

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THE SAFETY OF REDCARPET



NO RISK OF BURNS



NO RISK OF FIRES



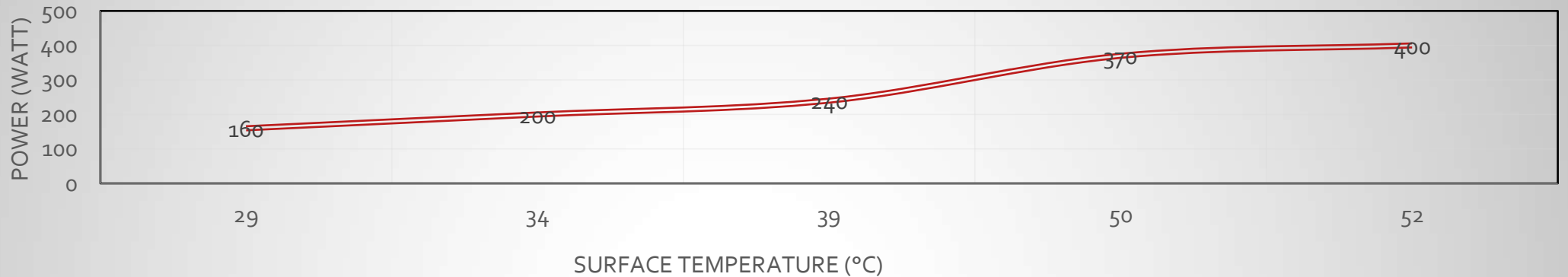
NO RISK OF ELECTRIC SHOCK *EVEN IN PRESENCE OF WATER*



NO EMISSION OR LEAK OF TOXIC GASES

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CONSUMPTION/TEMPERATURE GRAPHIC



- The innovative heating system is capable to reach high powers for square meter (up to 400 W/m²)
- It reaches 50°C, usable in every climatic condition.
- Very low voltage does not allow any electric shock even in case of cuts and unintentional damage.
- Completely waterproof, snowproof and iceproof.
- The 6 mm thick high density rubber ensures maximum resistance and durability.
- Easily transportable, removable and reusable.

COMPARISON WITH THE TRADITIONAL SYSTEMS

	Oil/Gas Stove	Electric Stove	REDHEAT
Fuel	Fossil Fuel	Electricity	Electricity
Way of heating	Conduction and Convection	Conduction	Radiation
Long Infrared Rays	None	None	More than 90%
Heating Time	30~60 minutes	15~30 minutes	4~10 minutes
Noise and dust	Produced	None	None
Electromagnetic Waves	None	High	Harmless for the human body


REDCARPET systems consumes ONLY 240W/m²
0,038 €/h per m² **

*** Calculated with the Italian average cost of electricity of 0,16€/KWh*

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REDCARPET

TECHNICAL SPECS

REDCARPET	SIZE	POWER (Watt)	VOLTAGE	POWER CABLE LENGHT	THICKNESS	WEIGHT
DIAMONDS (Standard)						
	60 X 110	120 - 200	24 - 30 volt	2,00 m	6 mm	4,9 Kg
	60 X 210	240 - 400	24 - 30 volt	2,00 m	6 mm	9,3 Kg
	110 X 110	240 - 400	24 - 30 volt	2,00 m	6 mm	8,9 Kg
	110 X 210	480 - 800	24 - 30 volt	2,00 m	6 mm	17,1 Kg
	110 X 310	720 - 1.200	24 - 30 volt	2,00 m	6 mm	25,2 Kg
	110 X 410	960 - 1600	24 - 30 volt	2,00 m	6 mm	33,3 Kg
RIBBED (on request)						
	60 X 110	120 - 200	24 - 30 volt	2,00 m	6 mm	4,9 Kg
	60 X 210	240 - 400	24 - 30 volt	2,00 m	6 mm	9,3 Kg
	110 X 110	240 - 400	24 - 30 volt	2,00 m	6 mm	8,9 Kg
	110 X 210	480 - 800	24 - 30 volt	2,00 m	6 mm	17,1 Kg
	110 X 310	720 - 1.200	24 - 30 volt	2,00 m	6 mm	25,2 Kg
	110 X 410	960 - 1.600	24 - 30 volt	2,00 m	6 mm	33,3 Kg

OUR PRODUCTS ARE FULLY RECYCLABLE AND ARE MAINLY MADE WITH RECYCLED MATERIALS

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INFRARED TECHNOLOGY

- The infrared radiation, **the same as the sun's rays**, transmits heat by direct irradiation of the bodies, without the need to heat the air.
- Radiation is a method of efficient heating and allows to remarkably reduce power consumption.
- The REDHEAT products use semiconductor systems with low voltage current (**12 - 30 volts**) which ensures safety even in the presence of water, snow, ice and in the event of unintentional damage.
- The low power and moderate temperature (400 W/m^2 per $50 \text{ }^\circ \text{C}$) does not trigger any convective movement, so the air is cleaner.
- It is demonstrated that infrareds have physiological and beneficial effects on the human organism. In fact they are widely used in the medical field.

MAIN ADVANTAGES



- **ECONOMY:** Irradiation combined with very low voltage allows a significant reduction in energy consumption.
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- **SAFETY :** No combustion, incandescence, or 230 Volt current. No risk of electric shock or gas intoxication.
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- **HYGIENE:** The emission of anions inhibits proliferation of germs and reduces odors. The still air is clean, dry and does not carry fungal spores and mold.
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- **HEALTH:** It has beneficial physical effects, as demonstrated when applied in physiotherapy and in the medical field. Trophic effect, analgesic effect and to decontract muscles.
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- **COMFORT:** Soft warmth, cozy, comfortable, rising from beneath.
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- **ECOLOGY:** Recycled and recyclable materials of high durability, low energy consumption.

The REDHEAT product line is engineered and designed by Green Technologies SA
The distribution and marketing are carried out in collaboration with GTE Elettrica s.r.l.



www.greentechnologies.ch



www.gte-elettrica.it

PATENTING PRODUCTS FOR INDUSTRIAL INNOVATION

The intellectual property of the REDHEAT project is owned by Green Technologies SA.

Patent n° 001406966/2011

Patent Pending n° SP0001/2015

Patent pending n° SP0002/2015



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