



**COSTRUZIONI
SOLARI**

ECCELLENZA ITALIANA DAL 1979

THE ENERGY
OF OUR FUTURE
COMES FROM THE SUN

COMPANY PROFILE
& PRODUCT VALUES





**COSTRUZIONI
SOLARI**

ECCELLENZA ITALIANA DAL 1979

WE HAVE ALWAYS THOUGHT THAT THE
FUTURE OF OUR CHILDREN AND OUR
PLANET DEPENDS ON A SUSTAINABLE
AND SMART USE OF THE AVAILABLE
NATURALE RESOURCES.

THAT'S WHY WE HAVE BEEN
COMMITTED FOR ALMOST 40 YEARS
TO THE RESEARCH AND
DEVELOPMENT OF SOLAR SYSTEMS
HELPING FAMILIES AND BUSINESSES
TO GET THE MOST FROM SOLAR
ENERGY IN THEIR EVERY DAY LIFE AND
ACTIVITIES.





COSTRUZIONI SOLARI

THE ITALIAN EXCELLENCE IN THE SOLAR THERMAL INDUSTRY SINCE 1979



Costruzioni Solari was founded in **1979** and since then has always researched, developed and produced **state-of-the-art Solar Thermal Systems**

40 YEARS EXPERIENCE

CS is proud to be the only specialised company in Italy in the solar thermal industry to work **continuously and with no break for almost 40 years.**

INTERNATIONAL STANDING

The **awards and prizes** assigned to CS by Governments, Universities and relevant **national and international organisations** are a further evidence of the prominent position reached by CS in the renewables industry.

LEADER IN EUROPE

Costruzioni Solari's products stand out among **the best in Europe** in terms of **performance and reliability.**



UNIQUE KNOW-HOW

During several years in the solar industry, CS gained its **unique experience and technical know-how**, together with **qualified engineering and design skills**.



MAIN USES

- Production of Sanitary Hot Water
- Space Heating
- Industrial process hot water
- Solar Cooling



THE IDEAL PARTNER

That's why Costruzioni Solari is definitely **the ideal partner** for the development of every type of project, covering the **small size solar systems for family or commercial use** as well as the **biggest and most complex industrial solar plants**.



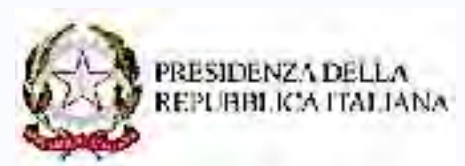
A PROMINENT PLAYER

Costruzioni Solari's headquarters and production facilities are in **Lecce, Apulia** (South Italy).

In 2007, a **commercial and technical branch** office was established in **Milan**, to better follow-up EU and extra-EU clients and as a strategic presence in the indisputable business capital of Italy.

RELEVANT COLLABORATIONS

Costruzioni Solari joined several agreements, partnerships and projects with **prominent players in the renewables sector, in modern distribution, scientific research and government institutions**, in Italy and abroad.



Among others: **Rome University** and other Italian and European Universities; **ENEA** (Italian National Agency for New Technologies, Energy and Sustainable Economic Development); the **European Union**; the **Italian Ministry** of Education, University and Research; the Italian **Government and the Presidency of the Republic**; **Leroy Merlin** DIY stores; Legambiente and many others.



RESEARCH AND DEVELOPMENT

IN-HOUSE R&D

Costruzioni Solari stands out for its continuous and advanced activity of **in-house research and development**, which led to several **international patents, utility and design models** and to international performance, quality and safety certifications like **Solar Keymark, EN-12975 and ISO 9001:2008**.

CS also led and joined important **national and international research projects**.

UNI EN ISO **9001:2008**



SISTEMA DI GESTIONE
QUALITÀ CERTIFICATO



The Solar Keymark
CEN Keymark Scheme





MAIN AWARDS AND PRIZES



INNOVAZIONE AMICA DELL'AMBIENTE

Eco-Friendly Innovation: assigned in several years by Legambiente and Lombardy Region to CS for Clima Solar System, Hydronic System Domino 3 and Slim Solar Collector and for solar heating and process hot water industrial systems



ITALIA DEGLI INNOVATORI

Italy for Innovators: CS's Clima Solar System and Slim Solar Collector selected by the Italian Government among the best technological innovations to represent Italy at Shanghai Expo 2010.



EUROPEAN SOLAR PRIZE

For the outstanding commitment to solar energy, assigned by Eurosolar (European Association for Renewable Energy)



INNOVAZIONE PRIZE HVAC&R 2007

Assigned by the influential Italian magazine *Costruire Impianti* (Plants Building) for the **Domino**, kit for the distribution, management and accounting of solar plants.



BUSINESS SECTORS

RESIDENTIAL - HOUSES AND BUILDINGS





BUSINESS SECTORS

SWIMMING POOLS, SPAS, WELLNESS CENTRES, SPORT FACILITIES



HOSPITALITY - HOTELS, RESORTS, B&BS, CAMPS, RESTAURANTS





BIG PLANTS

MANUFACTURING, FOOD PROCESSING, HEALTHCARE, SPECIAL PLANTS





PRODUCT LINES



**SOLAR THERMAL COLLECTORS
STANDARD AND SUPERSLIM**

**NATURAL AND FORCED CIRCULATION
SYSTEMS**



SPACE HEATING SOLAR SYSTEMS

SOLAR MACHINES



**SYSTEMS FOR MANAGEMENT,
INTEGRATION AND DISTRIBUTION
OF ENERGY**



“PANDA” COLLECTORS



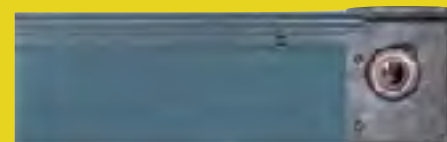
SOLAR THERMAL COLLECTORS PANDA: OUR HERO

The result of decades of research and experience: they stand out for the **high levels of efficiency and performance among the highest in Europe** and for the very long durability and reliability. Undisputedly the hero products made by Costruzioni Solari.

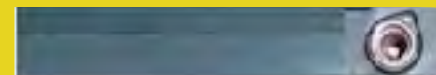
Available sizes: 2.0 / 2.3 / 2.7 mq



PANDA STANDARD



PANDA SUPERSLIM



PANDA SUPERSLIM

CS's **flagship** panels, the hi-tech evolution of the classic PANDAs. Their **extraordinary thinness** allows installation within pitched roofs tiles, answering the customers' growing demand for **quality and design**, keeping high levels of efficiency. These panels allow a full **aesthetic and architectural** integration - also with FV panels - with **no loss in performance**.

Thanks to **advanced nanotechnologies**, CS reduced the thickness to only **50 mm** for the Slim and **43 mm** for the Superslim, more than **50% less thick than all other panels** in the market.

Available sizes: **1.4 mq (Superslim)**





MAIN FEATURES AND COMPONENTS

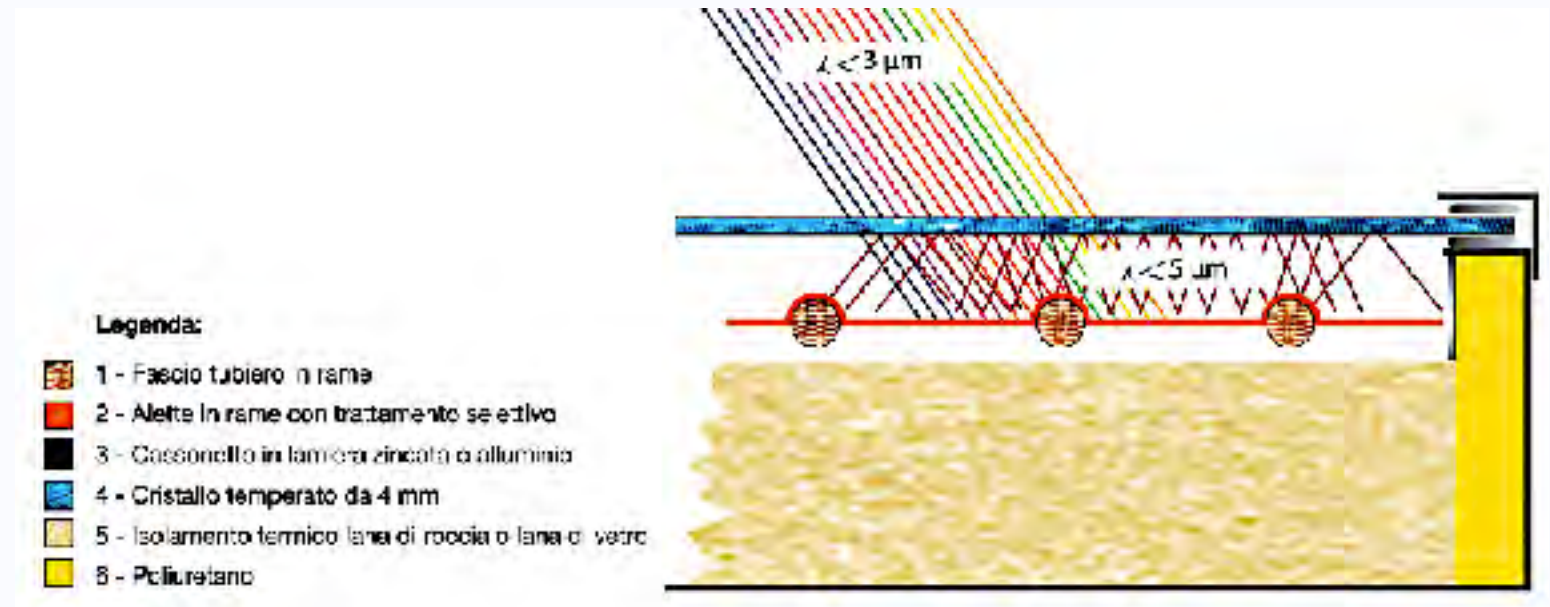


MAXIMUM EFFICIENCY AND PERFORMANCE

- Absorption surface entirely in copper (0,18 mm thickness)
- 12 copper pipes (8 mm Ø) system

MAXIMUM ABSORPTION (95%) AND REDUCED THERMAL LOSSES

- Homogeneity of materials and welding
- Extra-transparent tempered crystal glass (4 mm thick)
- Close-cell expanded polyurethane and rockwool insulation.



LONG DURABILITY AND RESISTANCE TO ATMOSPHERIC AGENTS

- Titanium treatment on the absorber
- External case in whole hot dip galvanised press-formed steel sheet
- Average product life: **25-30 years**





NATURAL CIRCULATION SYSTEMS

KNS AND CNS SERIES

KNS › with Panda 2.0 mq collector

CNS › with Panda 2,7 mq collector ◀ **THE MOST POWERFUL!**

**RESIDENTIAL USE AND FAMILIES
SMALL HOSPITALITY ACTIVITIES
SMALL BUSINESSES**

- ✓ **Easy to install**
- ✓ **Extremely practical and functional**
- ✓ **Very low maintenance required**
- ✓ **Easy to place on flat surfaces**
- ✓ **Compact and space-saving**
- ✓ **Boiler on top**

**SAVE UP TO 80-100% ON YEARLY GAS OR
ELECTRICITY CONSUMPTION FOR HOT WATER
PRODUCTION**



- ✓ **Ready for an additional electric coil**
- ✓ **Can be integrated with other heaters**
- ✓ **Pre-heat inlet water for electric or gas heaters**
- ✓ **Suitable to supply recirculating loops, washing machines, dishwashers or Jacuzzis**



FORCED CIRCULATION SYSTEMS

KSS AND SS SERIES

KSS › with Panda 2.0 mq collector

SS › with Panda 2,7 mq collector ◀ **THE MOST POWERFUL!**

RESIDENTIAL BUILDINGS AND HOUSES

HOSPITALITY, SPORT FACILITIES, BUSINESS

SWIMMING POOLS AND WELLNESS CENTRES

FOOD PROCESSING INDUSTRY

BIG PLANTS FOR INDUSTRY AND MANUFACTURING

SMALL AND MEDIUM ENTERPRISES

HEALTHCARE CENTRES AND HOSPITALS



- ✓ **Bigger capacity and stronger absorption power**
- ✓ **Extremely functional, flexible and powerful**
- ✓ **The boiler can be separate from the panels**
- ✓ **Ideal for pitched roofs and colder climates**
- ✓ **Suitable for space heating**
- ✓ **Ready for an additional electric coil**
- ✓ **Can be integrated with other heaters**
- ✓ **Pre-heat inlet water for electric or gas heaters**
- ✓ **Suitable to supply recirculating loops, washing machines, dishwashers or Jacuzzis.**



SPACE HEATING

SUN ENERGY IS USED EVEN IN WINTER FOR HOME AND SPACE HEATING THANKS TO THE ADVANCED TECHNOLOGY DEVELOPED BY COSTRUZIONI SOLARI.

- ✓ **Unlimited quantity of free energy**
- ✓ **No more worries about expensive bills due to home heating**
- ✓ **Reduce your dependance on gas or other fossile fuels**
- ✓ **Up to 50-70% less energy consumption** for space heating
- ✓ **Uo to 100% less energy** for sanitary hot water
- ✓ **Can be integrated with alla heaters**
- ✓ **Low use and longer life of traditional heaters**
- ✓ **Combine with photovoltaic systems and heat pumps for the maximum energy self-sufficiency and self consumption**
- ✓ **Suitable for low and medium temperature heating systems like radiators, floor heating, fan coils.**
- ✓ **Constant temperature with no peaks or drops**

WARM SPACES AND COMFORT DURING THE WHOLE DAY

IMPROVE THE WELLNESS OF THE USERS





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