

SolarWall®

A photograph of a building facade featuring a solar air heating system. The building has dark grey vertical corrugated metal siding. A series of blue, conical solar collectors are mounted on the roofline, extending into the distance. A bright yellow sun icon is overlaid on the left side of the image. The sky is a clear blue with some light clouds.

Solar air
heating
Reduce up to 50%
of your heating costs

SolarWall®

SolarWall® Reduce Your Heating Costs

SolarWall® systems heat the ventilation or process air required in commercial, industrial, institutional and agricultural buildings. They are building integrated and are very architecturally versatile. They can be styled, shaped, and designed in a variety of colors to augment the building envelope & generate on-site energy.

SolarWall systems require no maintenance and generate huge amounts of thermal energy over their 30+ year lifespan, making

How SolarWall® Systems Work

SolarWall systems are installed as an additional skin on a building and produce up to 600 watts/m² of thermal energy (1.5-3.5 GJ/ m² per year). When the sun warms the surface of the metal SolarWall collector, the heated air is drawn through thousands of tiny perforations on the surface **1** and ducted to the existing air intake. On a sunny day this air will be heated anywhere from 15-40°C above ambient.

it a superstar technology in terms of its proven economic & environmental impact.

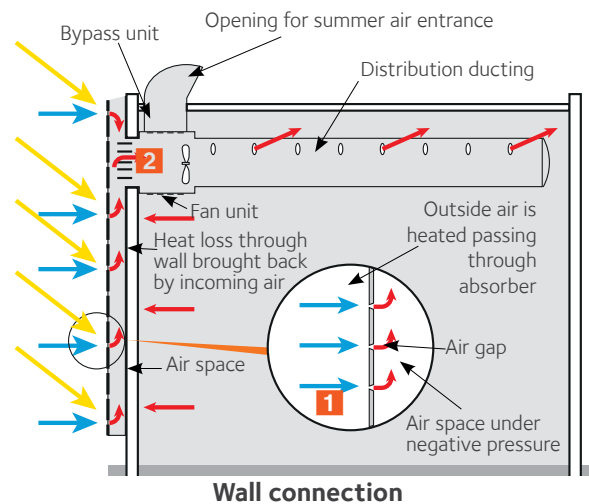
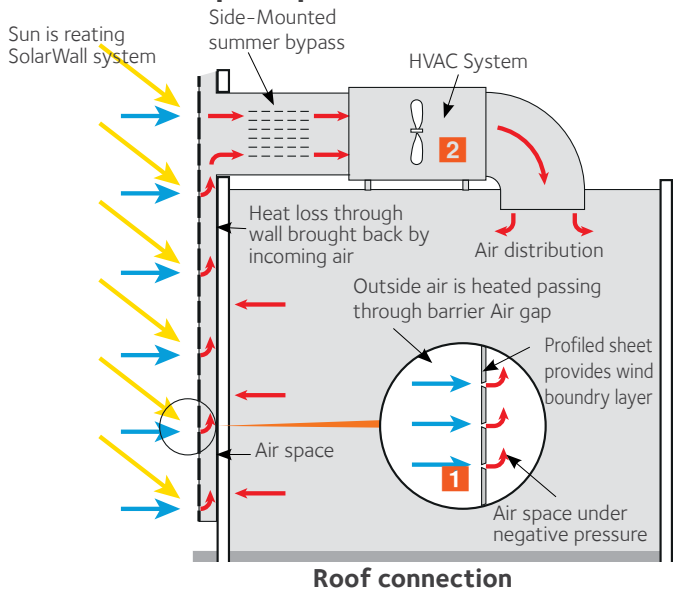
The SolarWall technology has been used globally for over 20+ years. Past clients include: Ford, Toyota, Bombardier, 3M, Owens Corning, FedEx, Auchan, Wal-Mart, NASA, U.S. Military & municipalities around the world.

The solar heated air is then distributed throughout the building via the conventional ventilation system **2** or dedicated fans and ducting.

The more air that is heated by the SolarWall® system ; the greater the energy savings.

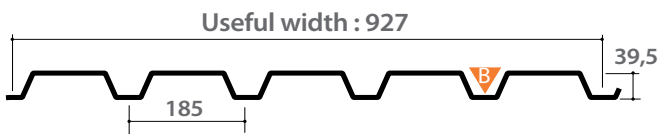
The SolarWall technology can heat large volumes of fresh air, so in addition to improving indoor air quality, it is also able to assist with the new European Norm EN13339 which stipulates mandatory fresh air requirements for buildings.

Schematic principle

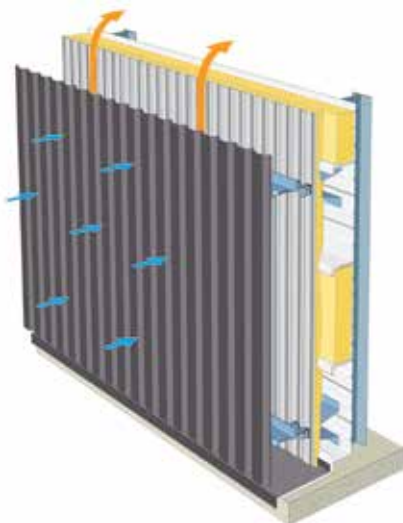


The metal microperforated SolarWall® system is made in the French factory of ArcelorMittal Construction France for the European market. This steel profile Trapéza 5.183.39 B can be applied to every type of building.

Trapéza Solarwall 39 B



Examples of installation



Double skin for retrofit



Masonry wall



Panel sandwich

SolarWall®

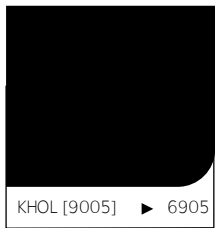
- Eligible for up to 10 LEED® Points
- Assists with HQE Certification (achieves 13 targets)
- Significantly lowers heating bills (20-50% on average)
- Used by large corporations around the world
- Compelling ROI + capital cost reduction from offsetting traditional wall material
- Building integrated & available in a variety of colors
- Heats fresh air & improves indoor air quality
- Maintenance free & 30+ year typical lifespan
- Collector efficiency up to 80%
- Huge reduction in CO₂ emission
- Lowest cost solar heating system

SolarWall® air heating is an essential technology for achieving the 20% renewable energy goals of the European Union by 2020



Choose your SolarWall® system

> We recommend :

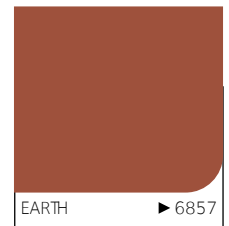
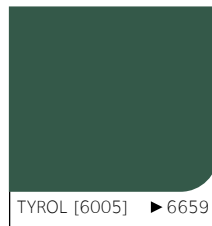
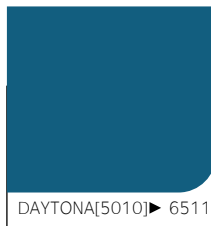
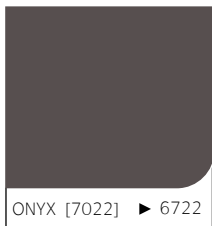


SolarWall systems will integrate with any material that is used on the building envelope to ensure an attractive appearance, combining aesthetics with high energy performance.

The colors below features the Premium Finish Hairexcel (60 microns) which has exceptional UV protection & weatherability combined with brilliant color & gloss.

Furthermore, SolarWall systems require no specific maintenance.

> Minimum order size may apply :



> For other colors please contact us

Marketed by



SolarWall Europe Sarl.

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