



Tractile

The Smarter Roof



Tractile is the new alternative in roofing.

In simple terms Tractile provides a 4-in-1 combination of Roof Tile, Insulation, Electricity and Hot Water in a very architecturally appealing package.

That is why we call it *the Smarter Roof*.

Tractile provides an innovative combination of interlocking systems, high performance composite materials, and solar technology.

Developed in Australia, the highly awarded Tractile Roofing system can be used on residential and commercial projects and has been designed with a focus on aesthetics, performance, ease of installation, and sustainability.

Every now & then a product comes along that revolutionizes an industry. When it comes to roofing that product is Tractile.

National & international recognition:



Blending design & performance

Smarter looks

Smarter system

Smarter materials

Smarter technology

the Smarter Roof



Enjoy the look

Your roof goes on top of your house. With a Tractile roof, that's the only rule. With almost no limit on roof angle (Tractile roofs can be pitched as low as 10 degrees and include sections at 90 degrees), the only constraints you have are the laws of physics and geometry, and your own imagination.

Material

Until now, the traditional choices for roofs were Terracotta or Concrete tiles, or Colorbond metal sheet. While these materials have various benefits, they also have limitations. Tiles are heavy and metal sheet needs a lot of screw fixing and gets hot easily. Tractile is manufactured from advanced composite materials that are lightweight, very strong, and deliver a range of benefits.

- ✓ With the Tractile Interlocking Roofing and Cladding System we provide a large format modern design.
- ✓ You can add high-tech insulation at the rear of the tile itself. On the outside, you can explore a new world of colours and finishes.
- ✓ With the Tractile system, you can add the Tractile Solar technology to turn your roof from a depreciating asset to a financial asset that produces energy and delivers savings to your energy bills.

The only downside is that before where you have a choice of two, now you have a conundrum of virtually endless possibilities. But we think that's a nice puzzle to have.

Because Tractile tiles are created in one process, with all materials forming part of a single mould, the life of your roof is the life of the materials.

Profile

Leaving aside freak storm conditions, the main battle fought by traditional tiles against the weather is that of stopping water penetrating the roof. In most cases, heavy terracotta or concrete tiles perform this task admirably; except when it comes to stopping water flowing down the roof from being blown back up between the tiles.

Traditional tiles need a steep roof pitch to hasten the flow of water due to gravity and therefore to limit the chance the water has to blow up between the tiles and into the roof.

Roofs built utilizing the Tractile Interlocking Building System do not have this problem because the connection between tiles acts as a barrier to any wind-assisted water incursion.

The wind and water challenge limits the shallowness of the roof angle of a traditional roof and can force a home builder or owner to use channels or sarking to limit the ingress of water.

With the Tractile System, stopping water getting in under tiles is no longer a problem. The pitch of a Tractile roof and the shape of the tiles is now completely a matter of looks and taste. And with modern materials and innovation, that's really the way it should be.

Built to last

Benefits

Tractile has created the world's first integrated solar roof tile solution, generating both electricity and hot water from a single unit.

Superior to traditional methods of roofing, Tractile is a versatile product providing custom solutions for both residential and commercial projects.

A Tractile roof is engineered to withstand extreme weather conditions and for longevity. All our designs are fully supported by the company and we take great pride in providing our expert help to our customers.

Some of the amazing benefits of the Tractile system include the:

- ✓ Ability to generate higher energy yields compared to conventional solar products
- ✓ Modern, seamless aesthetic styling compared with conventional roofs retrofitted with solar panels
- ✓ Superior weatherproofing – No wind, dust, or water can penetrate the roof.
- ✓ Ability to withstand 300 km/h winds in cyclonic conditions and its ability to withstand hail damage. It is also water resistant, preventing frost damage, snow, moss & mould build up.
- ✓ Ability to withstand harsh & corrosive environments better than conventional roofing materials – minimal repair or replacement costs
- ✓ Increased insulation properties for hot and cold climates.
- ✓ Superior strength - capable of handling weighted loads up to 250kg & will withstand direct impact from flying debris & won't break or shatter
- ✓ Fewer building materials required, including fewer roof trusses, batons, screws or nails, & no mortar or sarking required
- ✓ Reduced transportation costs & zero wastage through transit damage
- ✓ Skylights can be installed by inserting clear tiles
- ✓ Tiles can be easily cut on site

Tractile Eclipse



Tractile Solar Eclipse

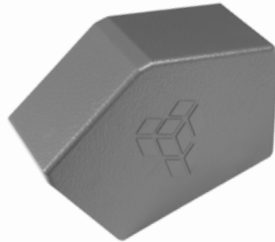


Blending design with performance The Smarter Roof

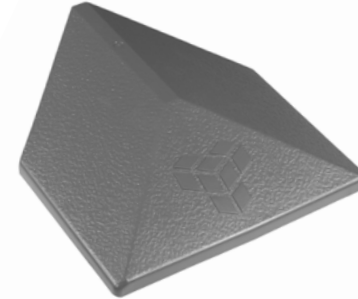
Tractile Eclipse Ridge Tile



Tractile Eclipse Barge Endcap



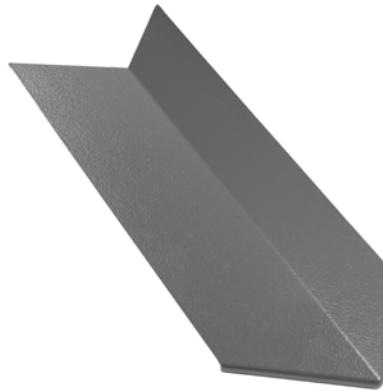
Tractile Eclipse Ridge Endcap



Tractile Eclipse Barge - left & right



Tractile Eclipse Hip Tile



Installation

The simple but very effective Tractile system utilises specially designed roof tiles, roof battens, ridge cap tiles, hip tiles and barges. Each component part is designed to 'slide-and-lock' into place, ensuring a double action seal that eliminates wind, dust, and water penetration. Because of this unique advantage, Tractile can be used through a range of roof pitches with the standard recommended minimum pitch being 10°. For lower pitch roofs please consult a Tractile roofing specialist. Tractile Eclipse may be used to clad both roofs and walls.



Components

System

Roof Integrated Photo Voltaic & Thermal (RIPV-T) Roofing + Electricity + Hot Water

What is a Tractile Solar roof tile?

Tractile Solar combines Photovoltaic solar cells with Thermal Hot Water in a common platform that can be inserted in a range of casings complementary to any roof tile design. This creates a world first integrated solar roof tile solution that creates both electricity and hot water from a single unit.

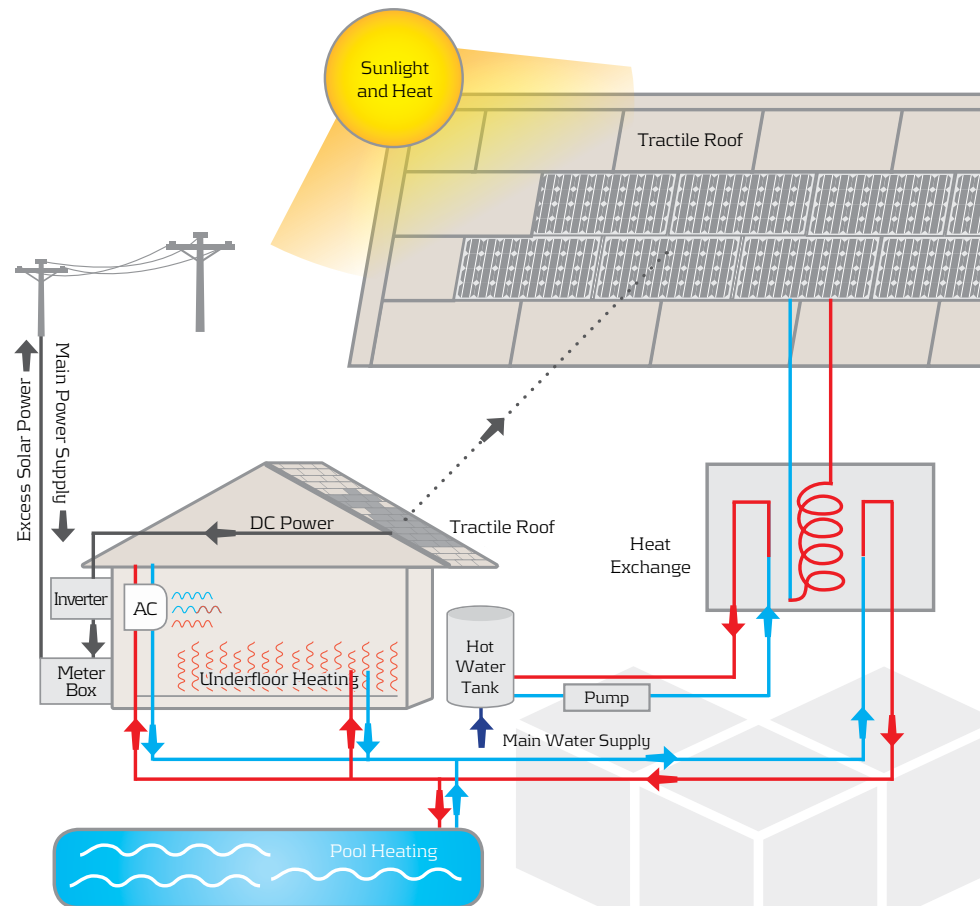
How does Tractile Solar work?

Tractile Solar converts sunlight into electrical power and solar boosted hot water by integrating Photovoltaic cells onto a Heat Exchanger within each roof tile. Users benefit from increased electrical output from the Photovoltaic solar cells as well as reduced energy consumption as solar boosted hot water is created for free at the same time.

How is Tractile connected to the Energy Grid?

Solar systems can be standalone, or be connected to the main energy grid. There are different energy providers throughout Australia with different legislation and requirements for grid connected solar. The DC electricity generated by Solar is converted to AC electricity via an inverter which is connected to the mains via a fuse box.

Any excess power generated, and not used internally within the building is automatically fed back into the Grid.



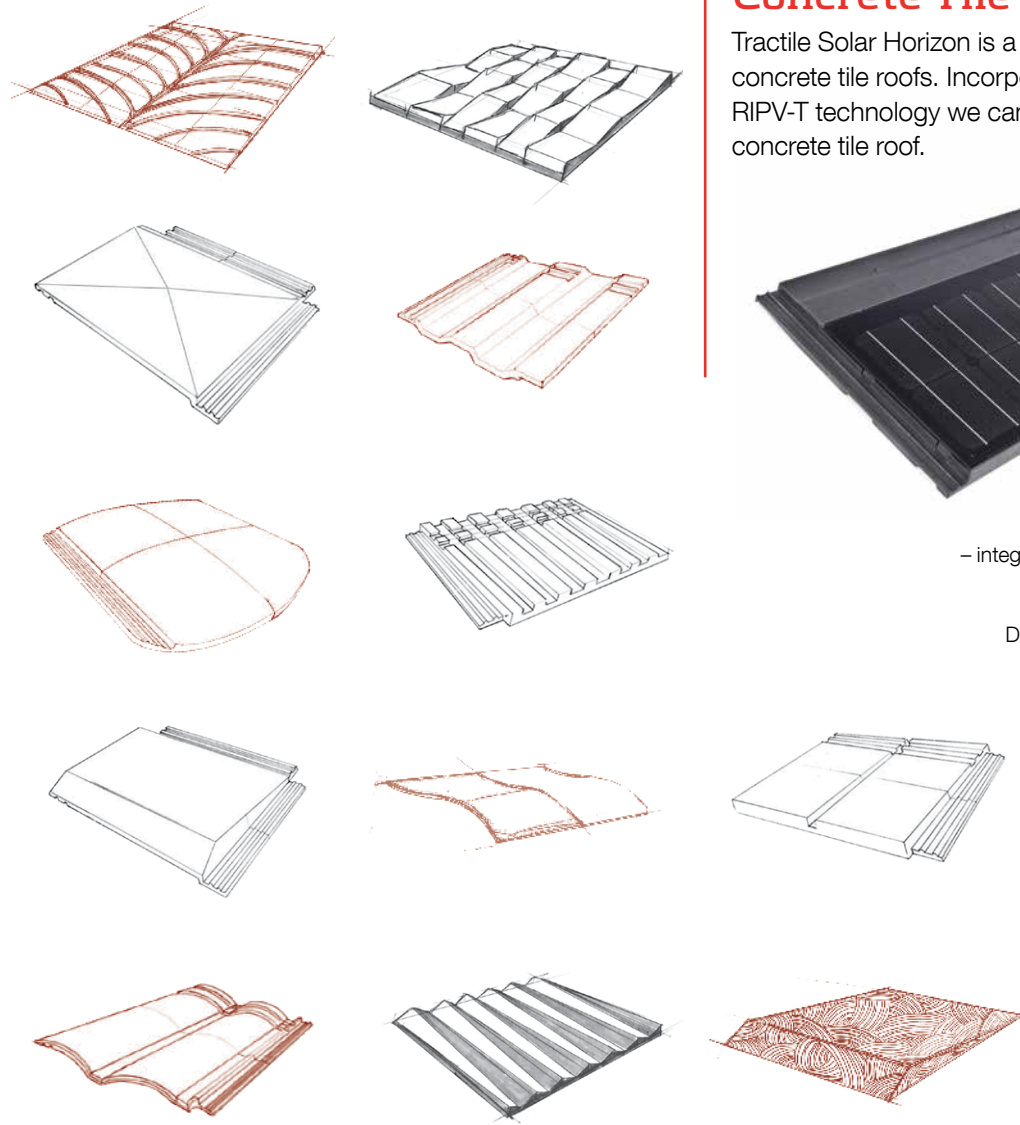
Doing your bit for the environment

Tractile participated as a Case study in the Queensland Government's Embedded Energy of Composites Project. The findings from this Project show that Tractile, made from high-strength and light-weight composite materials, outperformed both concrete tiles and metal sheet roofing significantly in terms of embodied energy:

- ✓ MJ: Tractile is 8 times more sustainable than concrete and steel
- ✓ Kg of CO2: Tractile is 4.5 times more sustainable than concrete and steel
- ✓ Eco-Indicator Points: Tractile is 5 times more sustainable than concrete and steel.



**Tractile Eclipse
can be painted any
colour you choose.**



Concrete Tile Roof?

Tractile Solar Horizon is a retrofit product for flat profile concrete tile roofs. Incorporating the same innovative RIPV-T technology we can upgrade your existing concrete tile roof.



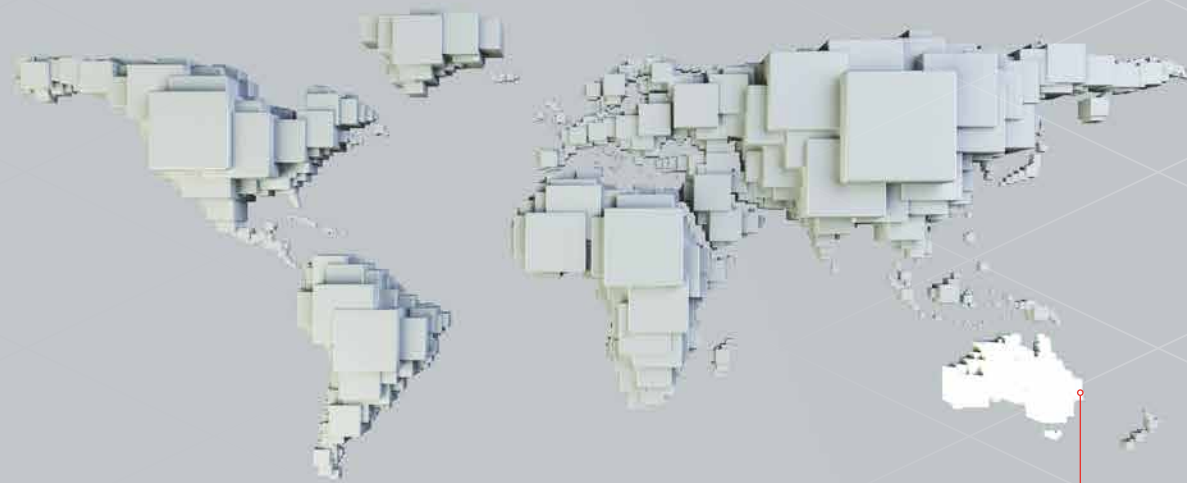
Tractile Solar Horizon

Tractile Solar Photovoltaic cells with
Thermal Hot Water technology
– integrates with flat profile concrete tile roofs.
Output: 45W
Weight: 11.75kg
Dimensions: 1220mm x 420mm x 25mm



Customisation
You are only limited by
your imagination.

Adaptable



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