

TATA STEEL



Advantica Horti Control®

Durable pre-finished steel for greenhouse interiors



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Advantica Horti Control®

High performance in controlled greenhouse environments

Advantica Horti Control®

Specifically tailored for high-performance horticulture, like growing gutters and interior panels. Designed for durability, hygiene and energy efficiency. The topcoat combines superior corrosion resistance with exceptional light reflectance. Ensuring long service life, even under intensive cleaning regime, including H₂O₂ vapour.

Key properties

- Z225 hot-dip galvanised substrate (EN 10346)
- 150 µm robust protective film
- Fully impermeable topcoat
- Topcoat resistant to many cleaning agents, including up to 5% H₂O₂ solution
- Very high light reflectance value (top: ~86.5%, back: ~76%)
- Food-safe, free from plasticiser and fully REACH compliant
- Available with Lower Carbon Embodied and Zeremis® Carbon Lite options (mass-balanced)
- Third-party verified Environmental Product Declaration (EPD) available
- Is available for cutting, roll forming, deep drawing and press braking
- Tested against corrosion, abrasion and chemical resistance
- Fit-for-purpose guarantee up to 10 years*

Benefits

- Long service life, even in intense use greenhouse environments
- Reduced maintenance and lower replacement costs
- Promotes plant growth through optimal light distribution
- Hygienic surfaces, fully compatible with biological horticulture
- Support rigorous cleaning protocols without performance loss
- Flexible processing for customised gutters and panel designs
- Long-term performance assurance backed by expertise of Tata Steel

* The actual duration of the guarantee will depend on the environment, geographic location and application.



DESIGNED FOR DEMANDING GREENHOUSE ENVIRONMENTS

Greenhouse growers and equipment manufacturers face increasingly tough conditions. High humidity, condensation and intensive cleaning cycles, often involving hydrogen peroxide (H₂O₂), place intense demands on materials. Conventional coatings fail quickly under these pressures, leading to rust, reduced lifespan and costly replacements. Advantica Horti Control® is engineered to overcome these challenges, delivering a robust and reliable solution for modern horticultural environments.

Composed of a Z225 galvanised substrate and protected by a durable light-reflective film, Advantica Horti Control® provides outstanding corrosion resistance in high-humidity environments. The impermeable film forms a continuous barrier against water and dissolved ions, safeguarding the steel and extending service life even under intensive cleaning. Its durability has been verified through extensive laboratory testing, including accelerated corrosion trials, abrasion resistance checks and validation under hydrogen peroxide cleaning regimes. Independent certification, including a third-party verified Environmental Product Declaration (EPD), underlines its reliability and compliance with the highest industry standards.

For customers, this translates into fewer interruptions during crop cycles, less downtime for maintenance and dependable performance year after year. With a fit-for-purpose guarantee of up to 10 years, growers and equipment manufacturers can invest with confidence, knowing that Advantica Horti Control® offers proven long-term value and a lower total cost of ownership.

“With Advantica Horti Control® we can now offer growers a solution that meets the toughest cleaning regimes without compromising on quality.”
– Meteor Systems

Proven performance today,
sustainable choice for tomorrow.

Hygienic and easy to maintain

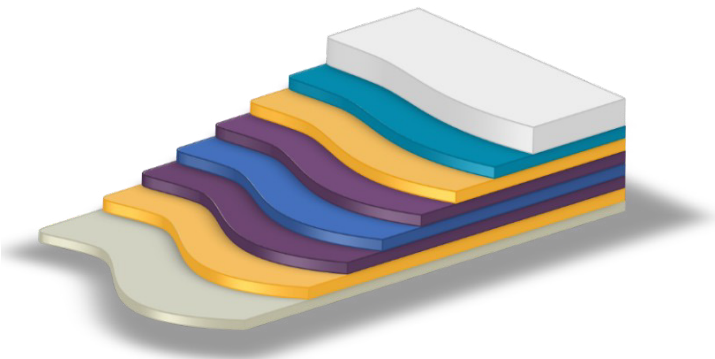
Cleanability is critical in controlled environments. Advantica Horti Control® is resistant to common cleaning agents, including hydrogen peroxide (H₂O₂), making it fully compatible with biological horticulture environments. The topcoat maintains a residue-free surface, supporting sustainable and environmentally responsible cleaning. The PVC food-safe film used is phthalate-free and fully REACH compliant, eliminating the risk of contamination from plasticisers, supporting a hygienic and safe environment for food-production greenhouses. It also withstands a broad spectrum of chemical agents, giving growers confidence in long-term durability under demanding cleaning protocols. For added reassurance, Tata Steel's technical experts are available to provide detailed guidance on specific applications, helping customers make the right choices for their greenhouse systems.

Boosting greenhouse productivity

Light management is vital for efficient crop production. The white topcoat of Advantica Horti Control® delivers a high Light Reflectance Value (LRV) of ~86.5%, maximising light distribution to the lower canopy and stimulating photosynthesis. The backcoat, with a reflectance of ~76%, is significantly higher than standard backcoats, redirecting more light into the growing space and supporting uniform plant development. By optimising both natural and artificial light use, Advantica Horti Control® contributes directly to higher yields, more consistent crop cycles and improved energy efficiency in greenhouse operations.

Tested, certified and sustainable

Every coil of Advantica Horti Control® undergoes rigorous testing to ensure high quality consistency. Resistance to corrosion, abrasion and chemicals is measured in specialised laboratories to comply with international standards. In addition it is available with Lower Carbon Embodied and Zeremis® Carbon Lite (mass-balanced) options, and backed by a third-party verified Environmental Product Declaration (EPD). These certifications and sustainability options give growers, system suppliers and greenhouse builders confidence that the material not only meets today's demanding technical requirements but also supports the transition to more sustainable greenhouse construction. Fully recyclable at end of life, Advantica Horti Control® is the responsible choice for the future of food production.



Key

 PVC film (150μ)	 Adhesive (8μ)	 Surface treatment
 Metallic coating	 Steel substrate	 Backing coat

BUILT TO LAST. TESTED AND CERTIFIED

Product testing

Each coil of Advantica Horti Control® is developed and validated under rigorous testing conditions. Performance is measured through accelerated laboratory trials for corrosion, chemical resistance and abrasion, ensuring reliability in demanding greenhouse environments. These tests, carried out to international standards, give growers and equipment manufacturers confidence in consistent quality and long-term durability.

Forming and processing

The product is suitable for cutting, notching, piercing, slitting, press braking, roll forming, spinning and deep drawing, offering full flexibility for customised gutter and panel production. This flexibility enables system suppliers and manufacturers to create tailored greenhouse components without compromising the coating's integrity.

Cleaning and maintenance

The robust topcoat film is optimised for deep cleaning at ambient temperatures with up to 5% H₂O₂ solution and is fully compliant with EU 2017/409 requirements for biological horticulture. To ensure long-term performance, abrasive cleaners and scouring pads should be avoided, and surfaces should always be rinsed thoroughly after cleaning to remove residues. This makes cleaning both safe and efficient, reducing the risk of damage during regular maintenance and extending service life.

Guarantee

Advantica Horti Control® offers a fit-for-purpose guarantee of up to 10 years*, depending on geographic location and application. A tailored certificate can be provided on request. The guarantee underlines Tata Steel's confidence in the product's performance and provides customers with the assurance of long-term reliability in greenhouse environments.

Typical properties

Advantica Horti Control®		Test norm
Nominal organic coating thickness	150 µm	EN 13523 - 1
Gloss level (60°)	10%	EN 13523 - 2
Nom. light reflectivity top	86.5%	BS 8493
Nom. light reflectivity reverse	76%	BS 8493
Flexibility:		
Minimal bending radius	0T@16°C	EN 13523 - 7
Minimal adhesion	0T	EN 13523 - 7
Pencil hardness	4H	EN 13523 - 4
Scratch resistance (g)	4000	EN 13523 - 12
Corrosion resistance:		
Salt spray test	500 h	EN 13523 - 8
Condensation test	1500 h	EN 13523 - 26
UV resistance	Ruv1	EN 10169
CPI category	CPI5	EN 10169
Max continuous operating temperature	60°C	EN 13501 - 1
Food safety	Pass	EN 1186
		EN 13130

Notes

- The figures are typical properties of the topcoat and do not constitute a specification. For details on test methods see www.tatasteelnederland.com/products
- If forming pre-finished steel below 16°C please consult Tata Steel for further information
- To meet the corrosion resistance properties, a minimum Zinc weight of 2225 gr/m² applies
- Not suitable for outdoor use



* The actual duration of the guarantee will depend on the environment, geographic location and application.

At Tata Steel Nederland, we believe in shared success:
together with our customers, we create solutions
optimised for performance and sustainability

Tailored solutions with myriaplus®

Through our MyriaPlus® service, Tata Steel offers customised solutions with shorter lead times, flexible order quantities and further processing. This provides customers with the agility to meet market demands while benefiting from high-quality coated steel. Our technical experts are available to support product selection, application design and safe end-use recommendations, ensuring the best outcome for each project.

Performance through partnership

Advantica Horti Control® delivers durability, hygiene and sustainability in one solution. Tested and certified, it ensures long-lasting performance in demanding greenhouse environments. Backed by Tata Steel expertise and a fit-for-purpose guarantee of up to 10 years*, it is the reliable choice for growers and equipment manufacturers aiming to boost productivity while supporting sustainable horticulture.

At Tata Steel, we view our customers as partners. Our technical experts work alongside you to provide advice on the use of Advantica Horti Control® and to support the development of products that meet market demands. Together, we create solutions optimised for performance, sustainability and long-term value helping the greenhouse sector grow today and in the future.

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www.tatasteelnederland.com/greenhouse

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