ArcelorMittal

Granite® Farm

Corrosion resistant coating for agricultural buildings

With more than 50 years of innovation in coil coating, ArcelorMittal offers a range of performing and cost effective solutions, superbly adapted to specific building requirements.

A farm building environment is demanding. Whatever the system is – single skin or insulated panel – Granite® Farm is the most appropriate indoor steel solution to be combined with ventilated building design.

* *for an adapted building design, depending on usage and indoor environment, and after receipt of the environmental questionnaire.*

The unique resistance of Granite® Farm

A very robust paint system, mildly sensitive to chemical agents, with a high resistance to ammonia and fertilizers.

Granite® Farm has been tested and used for many years. This allows ArcelorMittal to grant a guarantee of up to 20 years when necessary*.

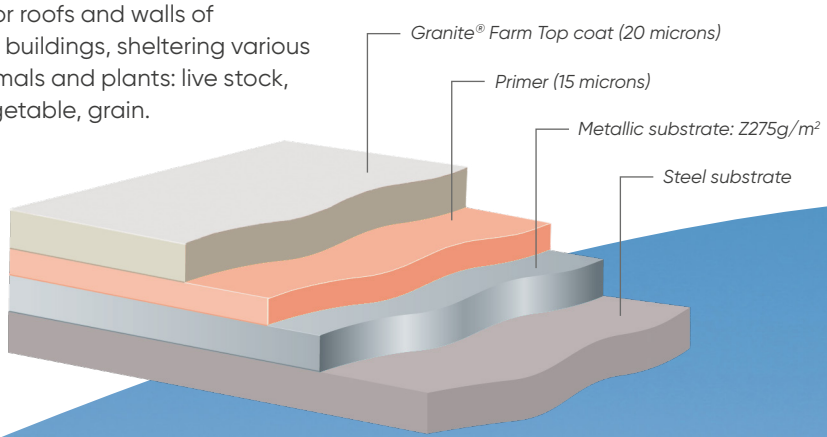
Thanks to its outperforming resistance, Granite® Farm can more than double the life time of your building and reduce its cost. It is the best alternative to fibre-cement.

Which applications?

Granite® Farm has been specially designed for roofs and walls of agricultural buildings, sheltering various type of animals and plants: live stock, poultry, vegetable, grain.

An excellent resistance to chemical agents

Chemical agent	Resistance
HCL 10%	Limited
Phosphoric acid 10%	Limited
Acetic acid 10%	Limited
H2O2 30%	Limited
NH4OH 30%	Excellent
NaOH 10%	Good
Potash	Limited
Cyclohexanone	Good
Toluene	Excellent
Polybutadiene	Limited
Ethylene glycol	Excellent
Ethyl alcohol	Good
Oleic acid	Good



Advantages

- Corrosion resistance guaranteed against farm chemical agents
- Cost effective
- Aesthetic
- Healthy
- Fully recyclable

Main properties

Dimensions	Thickness 0.3 to 1.5 mm Width 620 to 1500 mm
Coating thickness	35µm organic coating applied on a zinc coated flat steel substrate (Z275g/m²)
Colours	Grey white (B9002) most frequently used. Other colours possible on request.
Gloss	30 GU Other on request
Appearance	Smooth
Temporary protection	Self-adhesive film or heat-sealed film
Guarantee	Up to 20 years (on request, depending on usage, indoor environment and building design)

Performances

Adhesion of coating (T-bend)	≤ 1T
Resistance to cracking on bending (T-bend)	≤ 2 T
Impact resistance	18 J
Surface "pencil" hardness	HB to H
Clemen scratch resistance	≥ 2 kg
Corrosion resistance: • Salt spray test • Corrosion resistance category	 360 hours RC3
Corrosion protection category	CPI4
Condensation resistance (QCT test)	1500 hours
UV resistance category	-
Fire behaviour classif. (EN 13501-1)	A1
Resistance to acids and bases	Good to very good
Resistance to ammonia	Very good
Resistance to solvents: • Aliphatics and alcohols • Ketones • Aromatics	 Very good Very good Very good

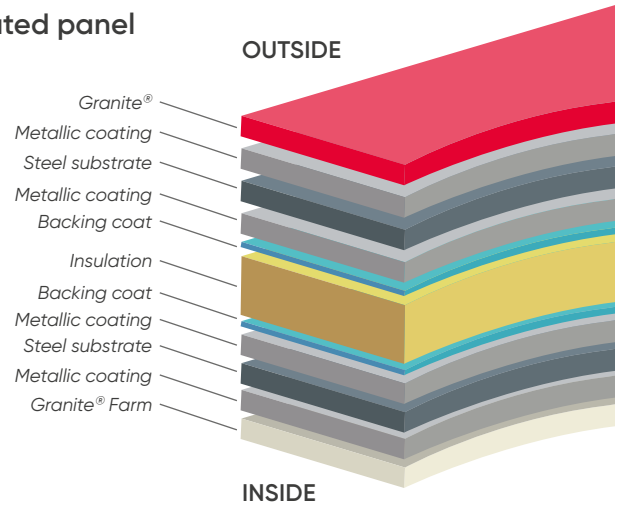
Design and colours

The wide range of colours available in the Granite® colour palette allows a smooth nice integration of the building in its environment.

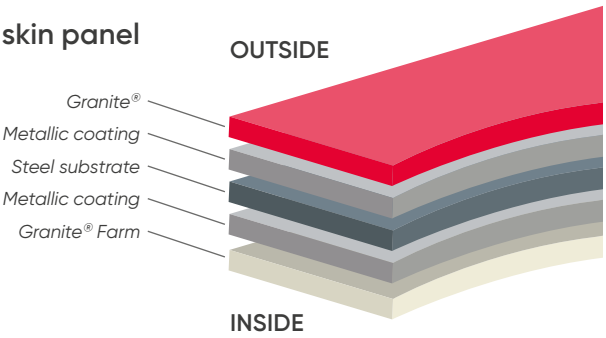
Granite® Farm is especially adapted to ventilated buildings, and can be combined with condensation absorption systems. It is both suitable for single skin or insulated panels.

For an optimised performance, it can be combined with Granite® HDX for outside use.

Insulated panel



Single skin panel



Sample webshop
Link to order samples

industry.arcelormittal.com/samplewebshop

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PR-LE-FRM-EN – 04/2026 – Published by ArcelorMittal Europe Communications