Organic Coated Products

LIBERTY

LIBERTY Galați
www.libertysteelgroup.com

Liberty Galați

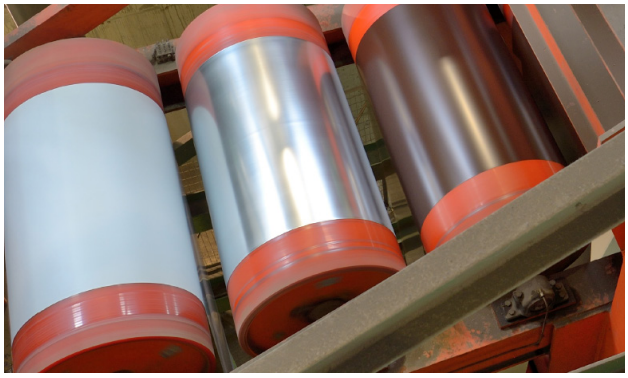
Located in the South-East of Romania, Liberty Galati is the largest intergrated steel plant in the country and leader in manufacturing metallurgical products. The production is fully integrated, starting from raw-material, sintering, blast furnaces, steel shop, up to heavy plates mills, a hot strip mill, a finishing mill, a galvanizing line and numerous transversal activities, such as logistics, quality, customer services etc.

Liberty Galati produces high quality plates, coils, sheets, galvanized products, picked and oiled products and others. The newest products in the portfolio of the plant are the organic coated coils IntelyCoat® and LifeCoat®.

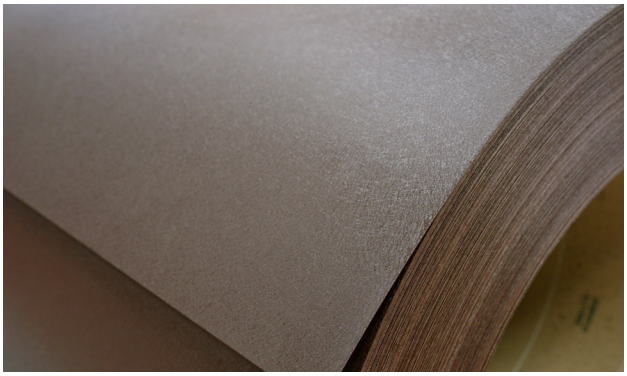
Where do we produce LifeCoat® and IntelyCoat®?

Liberty Galati's Organic Line is the biggest production capacity of this type in Romania. With an up to 90,000 tons per year capacity, the line produces strips over a large range of thicknesses and widths, single and double-sided coatings of various thickness layers with gloss and matt finishes. LifeCoat® and IntelyCoat® targets to satisfy the customer expectations of segments like: roofing, gutter systems, sandwich panels, industrial coolers and others. The new Galati Organic Coated Line was installed after implementing significant technical updates carried out in the Galati Galvanizing Line, for ensuring an excellent underlying substrate for the coating line.

Liberty Galati's Organic Coated Line is the biggest production capacity of this type in Romania. The production was launches in 2017 following an **EUR 15 Million investment.**



LifeCoat® and IntelyCoat®



LifeCoat® and Intely Coat® Production Range

Technical Delivery Conditions

- Chemical and mechanical properties according to ordered standards or specification
- Type of coating: epoxy for primer, polyester for top, expoxypolyester for back on hot dip zinc coating
- Sizes and tolerances according to EN 10143, EN 10169

Dimensional capability

Coil weight 3.0 – 10.0 tons, max 4.0 tons for mat colors, inner coil diameter: 508 mm.

Outside coil diameter: max. 1800 mm.

Packing

Each coil is horizontally positioned, tied up with PET straps (three peripheral straps and two radial straps), wrapped in polyethylene coated paper, metallic edge protection.

Quality Certificate

Mill's quality certificates shall be according to the material standards or specification. Certificate type 2.2; 3.1; 3.2 according to EN 10204.

Labeling

Plastic dhesive label indicating Made in Romania, Liberty logo, order number, size, steel grade, coil and heat identification number, color code, paint system and texture.

IntelyCoat® Light & HD & Standard

Thickness [mm]	Width [mm]				Zinc coating mass on both surfaces (g/m2)		
	900	1000	1100	1250	Z100	Z140	Z200
0.30-0.34							
0.35-0.50							
0.51-0.59							
0.60-0.85							

LifeCoat® Standard & HD & Deep-Mat

Thickness [mm]	Width [mm]				Zinc coating mass on both surfaces (g/m2)	
	900	1000	1100	1250	Z225	Z275
0.30-0.34						
0.35-0.50						
0.51-0.59						
0.60-0.85						

LifeCoat® Quartz

Thickness [mm]	Width [mm]				Zinc coating mass on both surfaces (g/m2)
	900	1000	1100	1250	Z275
0.35-0.50					
0.51-0.59					

Standard feasibility range

Prior acceptance by the mill is mandatory

LifeCoat® Standard

About

LifeCoat® Standard is a pre-painted steel with smooth surface appearance with average UV and corrosion resistance.

LifeCoat® combines the requirements of the building sector, nice appearance and properties as flexibility, surface hardness, coating adhesion, corrosion and UV resistance.

Properties

- Good corrosion resistance
- Good formability
- Thermosetting paint
- Surface treatment and paint: free of hexavalent chromium and heavy metals

Applications

LifeCoat® Standard offers the best solution for high performing envelopes, long lasting pitched roofs, a guarantee of quality and sustainability.

Good formability required for roofing and façade design makes LifeCoat® Standard a very good product for basic coating destinated to outdoor applications: corrugated profiles, cladding, roofing and accessories, sandwich panels).

Characterized by flat smooth finishes, applied on galvanized steel substrate with a zinc coating of minimum 225g/m², tested in labs and on exposure site (Brest – France) offers an excellent mix of aesthetics and corrosion resistance.

Color Palette

L 6005 Moss Green	L 8017 Chocolate Brown	L 8019 Grey Brown	L 9002 White Grey	L 9005 Jet Black
L 7016 Anthracite Grey	L 8717 Testa di Moro	L 9010 Pure White	L 9073 Bianco Grigio	L 7024 Graphite Grey

LifeCoat® Standard continued...

Coating Properties

Paint System Characteristics	
Thickness (1)	25 µm
Composition	Top side: 5 µm primer + 20 µm top coat Back side: 5, 7, 10 or 12 µm back coat
Gloss (Gardner 60°)	30 GU
Colors	Color palette Other colors on request
Appearance	Smooth

Performance	
Adhesion of the coating (T-bend) Resistance to cracking on bending (T-bend) Impact Resistance Surface “pencil” hardness	≤ 2 T ≤ 3 T 18 J HB to H
Clemen scratch resistance	≥ 2 kg
Corrosion resistance: Salt spray test	360 hours
Corrosion resistance category	RC3
Condensation resistance (QCT)	1000 hours
UV resistance: QUV (UVA + H20) test (2000 hours) UV resistance category	ΔE ≤ 5; GR ≥ 30 % RUV2
Fire behaviour classification (EN 13501-1)	A1
Resistance to acids and bases	Good
Resistance to solvents: Aliphatics and alcohols Ketones Aromatics	Very good Low Good to very good
Resistance to mineral oils	Very good

LifeCoat® Standard continued...

Automatic guarantee

- Non-perforation of the sheet metal ≤ 10 years, depending on the external environment
- Non-delamination of the paint ≤ 10 years, depending on the external environment
- Aesthetic appearance (ΔE ≤ 5; Gloss retention ≥ 30 %) ≤ 5 years, depending on the geographic location and the paint color category

Remarks

If any product (film, oil, foam, glue, paint, etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.

Although we take great care to reproduce the same aesthetic aspect on each coil, the visual consistency from one batch to another cannot be guaranteed. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.

Recommendations

Equipment for coils handling should have a protective coating, e.g. sheathed non-metallic slings, and grips or C-hooks with a rubber or synthetic coating, and must be used with great care to avoid any hard impact that could mark the product.

To prevent collapsing phenomena of coils with weight more than 6 tons, it is recommended to avoid multilayer storage, practice proven to have significant impact.

The coils and sheets must be stored in clean, heated premises, which must be at least sufficiently ventilated to prevent moisture accumulation by capillarity (between sheets or coil laps), which would lead to corrosion. Moreover, the storage temperature should be as constant as possible to avoid condensation. If storage at a low temperature cannot be avoided, the products must be warmed at about 20°C for 24 hours prior to processing.

Thickness Tolerance

(1) Nominal value, tolerances according to EN 10169

LifeCoat® HD

About

LifeCoat® HD is a specially designed paint system developed for a high durability and color stability in demanding environments, achieving good performance for corrosion resistance.

The colors palette contains also two exquisite metallic nuances.

Properties

- Good UV resistance
- Good corrosion resistance
- Good formability
- Thermosetting paint
- Surface treatment and paint: free of hexavalent chromium and heavy metals

Applications

Projects where shinny aesthetics provided by saturated nuances are valued. With a better resistance to UV radiation compared to LifeCoat® Standard, LifeCoat® HD brings also a plus of paint flexibility for deeply profiled roof tiles, using as substrate galvanized steel with a zinc coated of minimum 225g/m².

External uses: building and general industry applications: tiles, cladding etc.

Color Palette

L3000 Flame Red	L3005 Wine Red	L3009 Oxide Red	L3011 Brown Red	
	L5010 Gentian Blue	L8004 Copper Brown	L9006 White Aluminum (metallic)	L9007 Grey Aluminum Metallic

LifeCoat® HD continued...

Coating Properties

Paint System Characteristics	
Thickness (1)	25 µm
Composition	Top side: 5 µm primer + 20 µm top coat Back side: 5, 7, 10 or 12 µm back coat
Gloss (Gardner 60°)	30 GU
Colors	Specific Color palette Other colors on request
Appearance	Smooth

Performance	
Adhesion of the coating (T-bend) Resistance to cracking on bending (T-bend) Impact Resistance Surface “pencil” hardness	≤ 1 T ≤ 2 T 18 J HB to H
Clemen scratch resistance	≥ 2 kg
Corrosion resistance: Salt spray test	360 hours
Corrosion resistance category	RC3
Condensation resistance (QCT)	1000 hours
UV resistance: QUV (UVA + H20) test (2000 hours) UV resistance category	ΔE ≤ 3; GR ≥ 60 % RUV3
Fire behaviour classification (EN 13501-1)	A1
Resistance to acids and bases	Good to very good
Resistance to solvents: Aliphatics and alcohols Ketones Aromatics	Very good Low Good to very good
Resistance to mineral oils	Very good

LifeCoat® HD continued...

Automatic guarantee

- Non-perforation of the sheet metal ≤ 10 years, depending on the external environment
- Non-delamination of the paint ≤ 10 years, depending on the external environment
- Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 60 %) ≤ 5 years, depending on the geographic location and the paint color category

Remarks

If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be prior checked.

Although we take great care to reproduce the same aesthetic aspect on each coil, the visual consistency from one batch to another cannot be guaranteed.

Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.

Recommendations

Equipment for coils handling should have a protective coating, e.g. sheathed non-metallic slings, and grips or C-hooks with a rubber or synthetic coating, and must be used with great care to avoid any hard impact that could mark the product.

To prevent collapsing phenomena of coils with weight more than 6 tons, it is recommended to avoid multilayer storage, practice proven to have significant impact.

The coils and sheets must be stored in clean, heated premises, which must be at least sufficiently ventilated to prevent moisture accumulation by capillarity (between sheets or coil laps), which would lead to corrosion. Moreover, the storage temperature should be as constant as possible to avoid condensation. If storage at a low temperature cannot be avoided, the products must be warmed at about 20°C for 24 hours prior to processing.

Thickness Tolerance

(1) Nominal value, tolerances according to EN 10169

LifeCoat® Mat

About

Having a deep textured mat finish, LifeCoat® Mat ensures an aesthetic appearance in close resemblance with ceramic surfaces.

The wrinkled coating of LifeCoat® Mat, with rough, tactile surface translates into an original, aesthetic appearance.

Properties

- Nice aesthetic appearance: matt and wrinkled
- Very good formability
- Good corrosion resistance
- Thermosetting paint
- Surface treatment and paint: free of hexavalent chromium and heavy metals

Applications

Developed especially for roofing tiles and cladding applications, using as substrate galvanized steel with a zinc coated of minimum 225g/m² LifeCoat® Mat paint system comprehends multiple competitive advantages for this segment: lightweight, airtightness, very good flexibility, robustness. The stability of the color, surface robustness and sustainability along with the very good formability qualifies LifeCoat® Mat as an excellent alternative for classical ceramics envelopes and not only.

External building and general industry applications: tiles, cladding etc

Color Palette

M8017 Chocolate Brown	M8019 Grey Brown	M9005 Jet Black	M7024 Graphite Grey	M3009 Oxide Red
M3005 Wine Red	M6020 Chrome Green	M8004 Copper Brown	M6005 Moss Green	M3011 Brown Red

LifeCoat® Mat continued...

Coating Properties

Paint System Characteristics	
Thickness (1)	35 µm
Composition	Top side: 10 µm primer + 25 µm top coat Back side: 5, 7, 10 or 12 µm back coat
Gloss (Gardner 60°)	Maximum 5 G
Colors	Specific Color palette Other colors on request
Appearance	Wrinkled

Performance	
Adhesion of the coating (T-bend) Resistance to cracking on bending (T-bend) Impact Resistance	≤ 1 T ≤ 2 T 18 J
Clemen scratch resistance	≥ 1.5 kg
Corrosion resistance: Salt spray test	360 hours
Corrosion resistance category	RC3
Condensation resistance (QCT)	1000 hours
UV resistance: QUV (UVA + H20) test (2000 hours) UV resistance category	ΔE ≤ 3; GR ≥ 60 % RUV3
Fire behaviour classification (EN 13501-1)	A1
Resistance to acids and bases	Good
Resistance to solvents: Aliphatics and alcohols Ketones Aromatics	Very good Low Good to very good

LifeCoat® Mat continued...

Automatic guarantee

- Non-perforation of the sheet metal ≤ 10 years, depending on the external environment
- Non-delamination of the paint ≤ 10 years, depending on the external environment
- Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 50%) ≤ 5 years, depending on the geographic location and the paint color category

Remarks

If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be prior checked.

Although we take great care to reproduce the same aesthetic aspect on each coil, the visual consistency from one batch to another cannot be guaranteed. Consequently, you need to consider placing one single order for one project; standard samples can only serve as a guide.

Recommendations

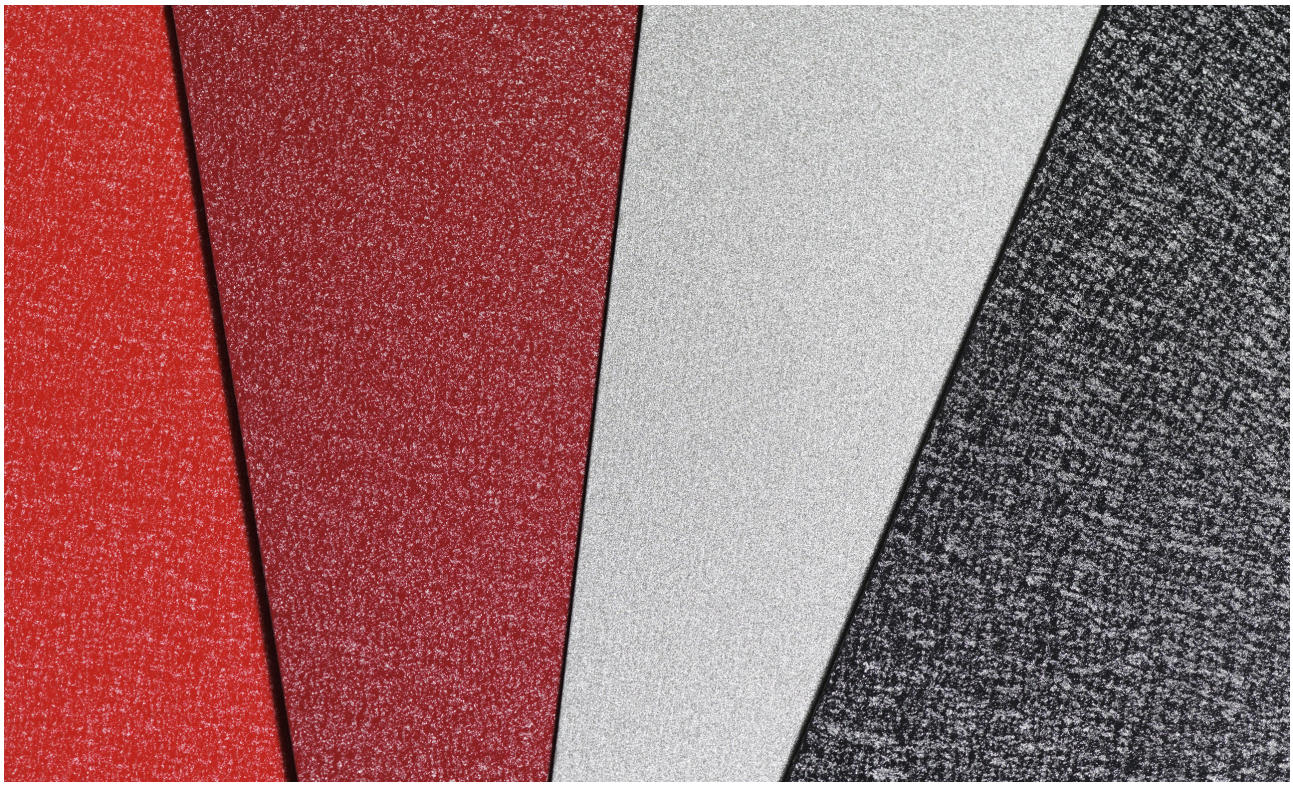
Equipment for coils handling should have a protective coating, e.g. sheathed non-metallic slings, and grips or C-hooks with a rubber or synthetic coating, and must be used with great care to avoid any hard impact that could mark the product.

To prevent collapsing phenomena of coils with weight more than 6 tons, it is recommended to avoid multilayer storage, practice proven to have significant impact.

The coils and sheets must be stored in clean, heated premises, which must be at least sufficiently ventilated to prevent moisture accumulation by capillarity (between sheets or coil laps), which would lead to corrosion. Moreover, the storage temperature should be as constant as possible to avoid condensation. If storage at a low temperature cannot be avoided, the products must be warmed at about 20°C for 24 hours prior to processing.

Thickness Tolerance

(1) Nominal value, tolerances according to EN 10169



LifeCoat® Quartz

About

LifeCoat® Quartz is one of the premium paint system engineered for further improved corrosion resistance. With a glittering aspect due to it's mineral finish, crystalline look, this new concept of paint system is suitable for roof and façade projects. Classical and modern colors are available to satisfy customer requirements, covering a large chromatic palette. Exccellent performance for corrosion resistance and UV weathering tests qualifies LifeCoat® Quartz as a premium technical solution.

Properties

- Mineral textured finish
- Very good formability
- Very good UV resistance
- Very good corrosion resistance
- Thermosetting paint
- Surface treatment and paint: free of hexavalent chromium and heavy metals and heavy metals

Applications

Designed for long lasting roofing and cladding, LifeCoat® Quartz offers a high level of corrosion protection - minimum Z275 zinc coated substrate – combined with a crystalline structure that creates vivid reflections of the light.

Superior robustness of this product, compared with standard coating solutions of the construction segment.

External building and general industry applications: tiles, cladding etc.

Color Palette

C8015 Medium Brown

C8019 Grey Brown

C9005 Jet Black

C7016 Dark Grey

C3009 Oxide Red

C6005 Moss Green

C8002 Light Brown

C9007 Grey Aluminum

C9006 White Aluminum

LifeCoat® Quartz continued...

Coating Properties

Paint System Characteristics	
Thickness (1)	45 µm
Composition	Top side: 15 µm primer + 30 µm top coat Back side: 10 or 12 µm back coat
Gloss (Gardner 60°)	Maximum 6 GU Colors
Colors	Specific Color palette
Appearance	Wrinkled

Performance	
Adhesion of the coating (T-bend) Resistance to cracking on bending (T-bend) Impact Resistance	≤ 1 T ≤ 2 T 18 J
Clemen scratch resistance	≥ 2 kg
Corrosion resistance: Salt spray test	360 hours
Corrosion resistance category	RC4
Condensation resistance (QCT)	1500 hours
UV resistance: QUV (UVA + H20) test (2000 hours) UV resistance category	ΔE ≤ 2; GR ≥ 80 % RUV4
Fire behaviour classification (EN 13501-1)	A1
Resistance to acids and bases	Good
Resistance to solvents: Aliphatics and alcohols Ketones Aromatics	Very good Low Good to very good

LifeCoat® Quartz continued...

Automatic guarantee

- Non-perforation of the sheet metal ≤ 15 years, depending on the external environment
- Non-delamination of the paint ≤ 15 years, depending on the external environment
- Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 80%) ≤ 5 years, depending on the geographic location and the paint color category

Remarks

If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be prior checked.

(*) Nominal thickness is an average value. Given the specific texture, thickness tolerances according to EN 10169 do not apply.

Although we take great care to reproduce the same aesthetic aspect on each coil, the visual consistency from one batch to another cannot be guaranteed. Consequently, you need to consider placing one single order for one project; standard samples can only serve as a guide.

Recommendations

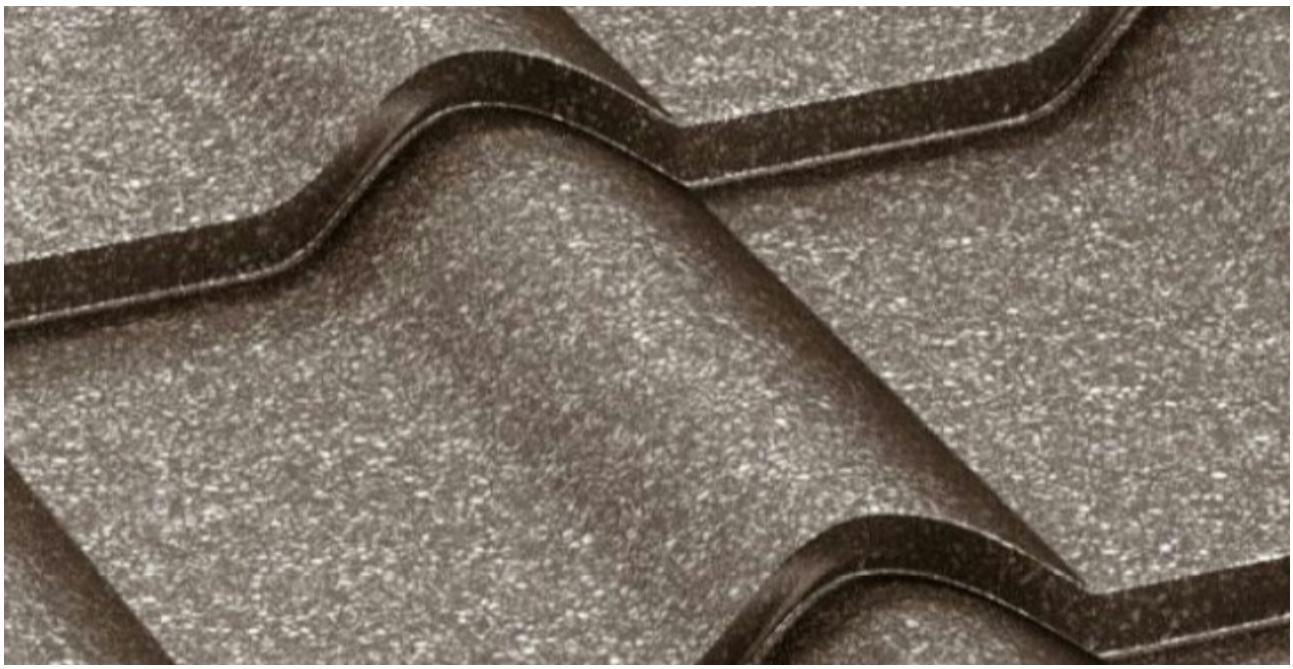
Equipment for coils handling should have a protective coating, e.g. sheathed non-metallic slings, and grips or C-hooks with a rubber or synthetic coating, and must be used with great care to avoid any hard impact that could mark the product.

To prevent collapsing phenomena of coils with weight more than 6 tons, it is recommended to avoid multilayer storage, practice proven to have significant impact.

The coils and sheets must be stored in clean, heated premises, which must be at least sufficiently ventilated to prevent moisture accumulation by capillarity (between sheets or coil laps), which would lead to corrosion. Moreover, the storage temperature should be as constant as possible to avoid condensation. If storage at a low temperature cannot be avoided, the products must be warmed at about 20°C for 24 hours prior to processing.

Thickness Tolerance

(1) Nominal value, tolerances according to EN 10169



IntelyCoat® Light

About

IntelyCoat® Light is the coating solution recommended for interior applications of non-guaranteed portfolio.

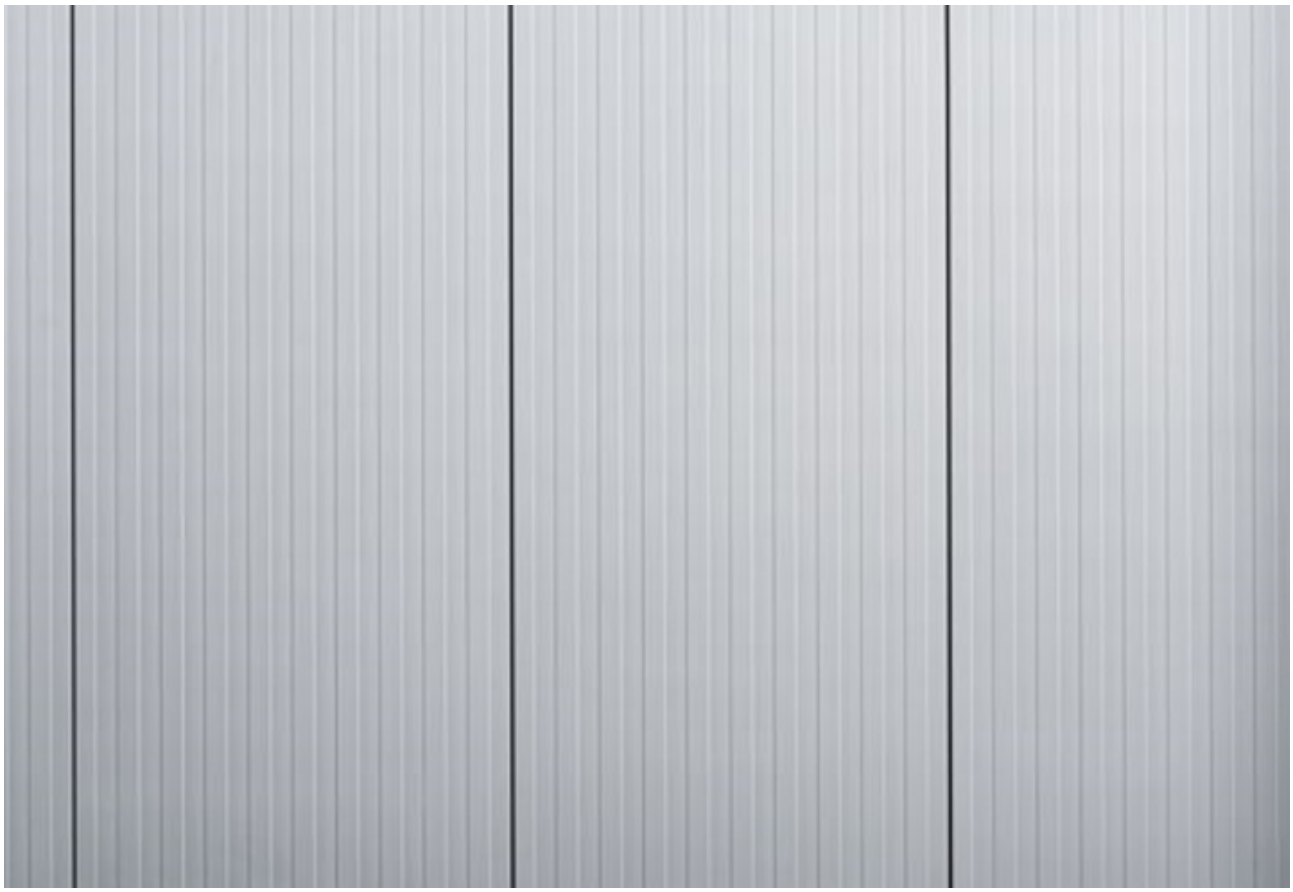
The paint system benefits on the advantages that an epoxypolyester paint brings, which ultimately ensures a convenient behavior in terms of corrosion resistance.

Properties

- Thermosetting paint applied on min Z100 zinc-coated flat carbon steel substrate
- Surface treatment and paint: free of hexavalent chromium and heavy metals

Applications

IntelyCoat® Light is a basic low-thickness coating.



Color Palette

S9002

White Grey

IntelyCoat® Light continued...

Coating Properties

Paint System Characteristics	
Thickness (1)	15 µm
Composition	Top side: 15 µm top coat or 3 µm primer + 12 µm top coat Back side: 5 or 7 µm back coat
Gloss (Gardner 60°)	30 GU
Colors	RAL 9002
Appearance	Smooth

Performance	
Adhesion of the coating (T-bend) Resistance to cracking on bending (T-bend) Impact Resistance Surface "pencil" hardness	≤ 2 T ≤ 3 T 15 J HB to H
Clemen scratch resistance	≥ 1.5 kg
Corrosion resistance: Salt spray test	240 hours
Corrosion resistance category	CPI2
Condensation resistance (QCT)	500 hours
UV resistance: QUV (UVA + H20) test (2000 hours)	ΔE ≤ 5; GR ≥ 30 %

IntelyCoat® Light continued...

Remarks

If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be prior checked.

Although we take great care to reproduce the same aesthetic aspect on each coil, the visual consistency from one batch to another cannot be guaranteed. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.

Recommendations

Equipment for coils handling should have a protective coating, e.g. sheathed non-metallic slings, and grips or C-hooks with a rubber or synthetic coating, and must be used with great care to avoid any hard impact that could mark the product.

To prevent collapsing phenomena of coils with weight more than 6 tons, it is recommended to avoid multilayer storage, practice proven to have significant impact.

The coils and sheets must be stored in clean, heated premises, which must be at least sufficiently ventilated to prevent moisture accumulation by capillarity (between sheets or coil laps), which would lead to corrosion. Moreover, the storage temperature should be as constant as possible to avoid condensation. If storage at a low temperature cannot be avoided, the products must be warmed at about 20°C for 24 hours prior to processing.

Thickness Tolerance

(1) Nominal value, tolerances according to EN 10169

IntelyCoat® Standard

About

IntelyCoat® Standard is the basic bi-layer coating solution of non-guaranteed portfolio.

The paint system is engineered to incorporate some of the characteristics and performances of a bilayer paint including the base level of corrosion protection.

Properties

- Good formability
- Thermosetting paint
- Surface treatment and paint: free of hexavalent chromium and heavy metals

Applications

Basic coating for outdoor applications, available on galvanized steel substrate with a zinc coating of minimum 100 g/m², with a large colors palette available.

Flexible and robust, IntelyCoat® Standard is a good alternative for outdoor building systems (e.g. sandwich panels) considering the recommendation to use as substrate galvanized steel with a zinc coating of minimum 200 g/m².

Color Palette

L 6005 Moss Green	L 8017 Chocolate Brown	L 8019 Grey Brown	L 9002 White Grey	L 9005 Jet Black
L 7016 Anthracite Grey	L 8717 Testa di Moro	L 9010 Pure White	L 9073 Bianco Grigio	L 7024 Graphite Grey

IntelyCoat® Standard continued...

Coating Properties

Paint System Characteristics	
Thickness (1)	25 µm (bilayer)
Composition	Top side: 5 µm primer + 20 µm top coat Back side: 5, 7, 10 or 12 µm back coat
Gloss (Gardner 60°)	30 GU
Colors	Color palette Other colors on request
Appearance	Smooth

Performance	
Adhesion of the coating (T-bend) Resistance to cracking on bending (T-bend) Impact Resistance Surface "pencil" hardness	≤ 2 T ≤ 3 T 18 J HB to H
Clemen scratch resistance	≥ 2 kg
Corrosion resistance: Salt spray test	240 hours
Corrosion resistance category	CPI2
Condensation resistance (QCT)	500 hours
UV resistance: QUV (UVA + H20) test (2000 hours)	ΔE ≤ 5; GR ≥ 30 %

IntelyCoat® Standard continued...

Remarks

If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.

Although we take great care to reproduce the same aesthetic aspect on each coil, the visual consistency from one batch to another cannot be guaranteed. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.

Recommendations

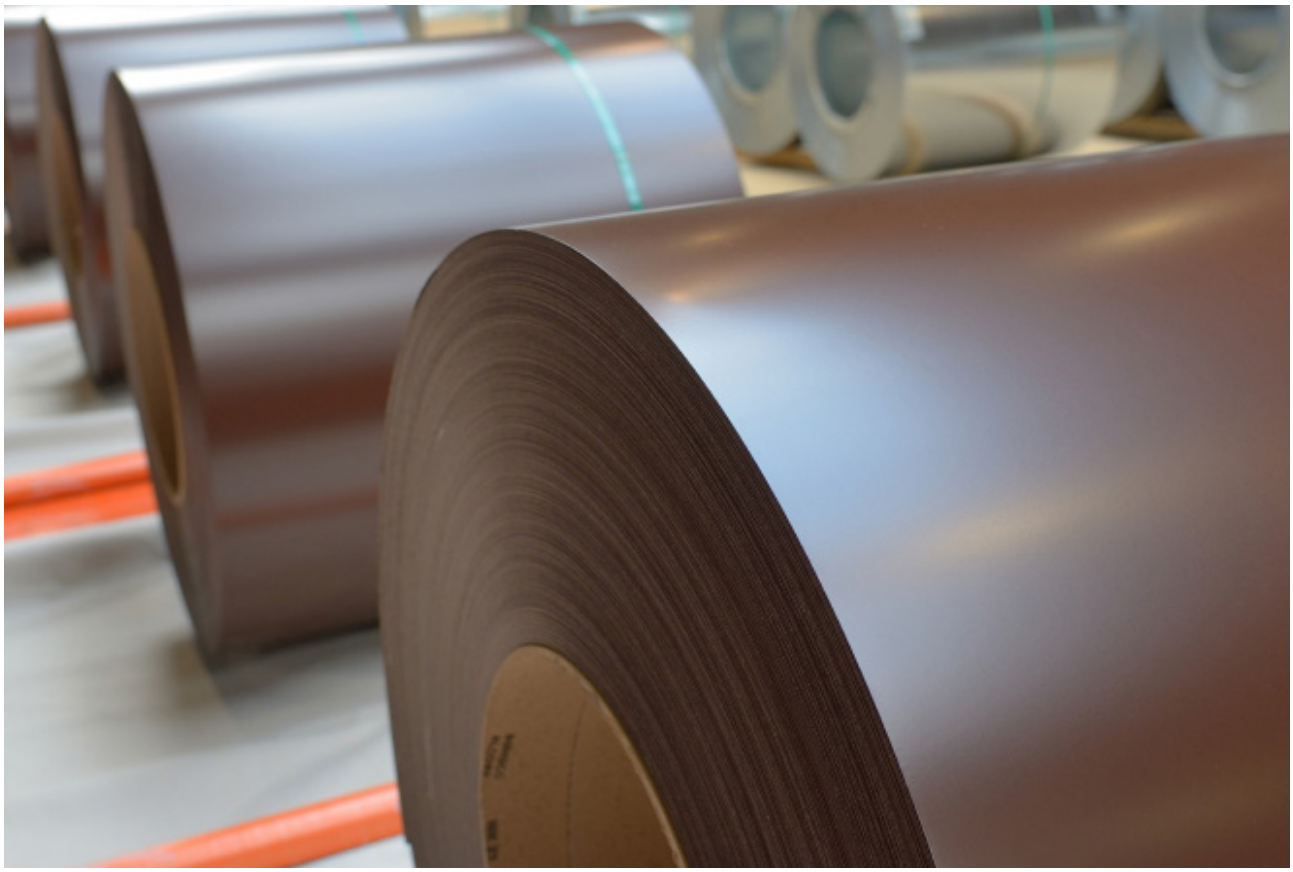
Equipment for coils handling should have a protective coating, e.g. sheathed non-metallic slings, and grips or C-hooks with a rubber or synthetic coating, and must be used with great care to avoid any hard impact that could mark the product.

To prevent collapsing phenomena of coils with weight more than 6 tons, it is recommended to avoid multilayer storage, practice proven to have significant impact.

The coils and sheets must be stored in clean, heated premises, which must be at least sufficiently ventilated to prevent moisture accumulation by capillarity (between sheets or coil laps), which would lead to corrosion. Moreover, the storage temperature should be as constant as possible to avoid condensation. If storage at a low temperature cannot be avoided, the products must be warmed at about 20°C for 24 hours prior to processing.

Thickness Tolerance

(1) Nominal value, tolerances according to EN 10169



IntelyCoat® HD

About

IntelyCoat® HD adds to the basic bi-layer coating solution of non-guaranteed portfolio, an enriched color palette with multiple choices of vivid and metallic nuances, where the advantage of using a polyester paint translates into a good UV resistance.

Properties

- Good UV resistance
- Good formability
- Thermosetting paint
- Surface treatment and paint: free of hexavalent chromium and heavy metals

Applications

Basic coating for outdoor applications, available on galvanized steel substrate with a zinc coating of minimum 100 g/m² with a large colors palette available.

Flexible and robust, IntelyCoat® HD is a good alternative for outdoor building systems (e.g. sandwich panels) considering the recommendation to use as substrate galvanized steel with a zinc coating of minimum 200 g/m2.

Color Palette

L3000 Flame Red

L3005 Wine Red

L3009 Oxide Red

L3011 Brown Red

L5010 Gentian Blue

L8004 Copper Brown

L9006 White Aluminum (metallic)

L9007 Grey Aluminum (metallic)

IntelyCoat® HD continued...

Coating Properties

Paint System Characteristics	
Thickness (1)	25 µm (bilayer)
Composition	Top side: 5 µm primer + 20 µm top coat Back side: 5, 7, 10 or 12 µm back coat
Gloss (Gardner 60°)	30 GU
Colors	Color palette Other colors on request
Appearance	Smooth

Performance	
Adhesion of the coating (T-bend) Resistance to cracking on bending (T-bend) Impact Resistance Surface "pencil" hardness	≤ 1 T ≤ 2 T 18 J HB to H
Clemen scratch resistance	≥ 2 kg
Corrosion resistance: Salt spray test	240 hours
Corrosion resistance category	CPI2
Condensation resistance (QCT)	500 hours
UV resistance: QUV (UVA + H20) test (2000 hours)	ΔE ≤ 3; GR ≥ 60 %
Fire behaviour classification (EN 13501-1)	A1

IntelyCoat® HD continued...

Remarks

If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.

Although we take great care to reproduce the same aesthetic aspect on each coil, the visual consistency from one batch to another cannot be guaranteed. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.

Recommendations

Equipment for coils handling should have a protective coating, e.g. sheathed non-metallic slings, and grips or C-hooks with a rubber or synthetic coating, and must be used with great care to avoid any hard impact that could mark the product.

To prevent collapsing phenomena of coils with weight more than 6 tons, it is recommended to avoid multilayer storage, practice proven to have significant impact.

The coils and sheets must be stored in clean, heated premises, which must be at least sufficiently ventilated to prevent moisture accumulation by capillarity (between sheets or coil laps), which would lead to corrosion. Moreover, the storage temperature should be as constant as possible to avoid condensation. If storage at a low temperature cannot be avoided, the products must be warmed at about 20°C for 24 hours prior to processing.

Thickness Tolerance

(1) Nominal value, tolerances according to EN 10169

IntelyCoat® Mat

About

IntelyCoat® Mat adds to the basic bi-layer coating solution of non-guaranteed portfolio, the deep textured mat finish. With its ceramic-like appearance, IntelyCoat® Mat is a solution designed mainly to offer an elegant appearance to final applications with improved UV resistance and complementary protection against corrosion

Properties

- Nice aesthetic appearance: matt and wrinkled
- Good UV resistance
- Corrosion protection
- Very good formability
- Thermosetting paint
- Surface treatment and paint: free of hexavalent chromium and heavy metals

Applications

IntelyCoat® Mat offers a special texture, with a rougher, robust structure of surface. Basic coating for roofing tile and cladding applications, available on galvanized steel substrate with a zinc coating of minimum 140 g/m² with a large colors palette available.

IntelyCoat® Mat stands as an alternative solution for outdoor projects considering the recommendation to use as substrate galvanized steel with a zinc coating of minimum 200 g/m².

Color Palette

M8017 Chocolate Brown	M8019 Grey Brown	M9005 Jet Black	M7024 Graphite Grey	M3009 Oxide Red
M3005 Wine Red	M6020 Chrome Green	M8004 Copper Brown	M6005 Moss Green	M3011 Brown Red

IntelyCoat® Mat continued...

Coating Properties

Paint System Characteristics	
Thickness (1)	35 µm (bilayer)
Composition	Top side: 10 µm primer + 25 µm top coat Back side: 5, 7, 10 or 12 µm back coat
Gloss (Gardner 60°)	max 5 GU
Colors	Color palette Other colors on request
Appearance	Wrinkled

Performance	
Adhesion of the coating (T-bend) Resistance to cracking on bending (T-bend) Impact Resistance Surface “pencil” hardness	≤ 1 T ≤ 2 T 18 J HB to H
Clemen scratch resistance	≥ 2.2 kg
Corrosion resistance: Salt spray test	240 hours
Corrosion resistance category	CPI2
Condensation resistance (QCT)	500 hours
UV resistance: QUV (UVA + H20) test (2000 hours)	ΔE ≤ 2; GR ≥ 80 %
Fire behaviour classification (EN 13501-1)	A1

IntelyCoat® Mat continued...

Remarks

If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.

Although we take great care to reproduce the same aesthetic aspect on each coil, the visual consistency from one batch to another cannot be guaranteed. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.

Recommendations

Equipment for coils handling should have a protective coating, e.g. sheathed non-metallic slings, and grips or C-hooks with a rubber or synthetic coating, and must be used with great care to avoid any hard impact that could mark the product.

To prevent collapsing phenomena of coils with weight more than 6 tons, it is recommended to avoid multilayer storage, practice proven to have significant impact.

The coils and sheets must be stored in clean, heated premises, which must be at least sufficiently ventilated to prevent moisture accumulation by capillarity (between sheets or coil laps), which would lead to corrosion. Moreover, the storage temperature should be as constant as possible to avoid condensation. If storage at a low temperature cannot be avoided, the products must be warmed at about 20°C for 24 hours prior to processing.

Thickness Tolerance

(1) Nominal value, tolerances according to EN 10169

Contact with the mill

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