

Coating Selector & Maintenance Guide

Cladding designed for the most demanding environments





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Interior environments

Indoor environments are subject to a variety of conditions that can affect the performance of materials and systems.

The corrosive factors of an indoor environment are determined by the presence of corrosive chemical products and/or micro-organisms in the indoor atmosphere, relative humidity,

frequency of cleaning, aggressiveness of cleaning products, degreasing products, disinfectants and various cleaning methods.

Indoor environment classification in accordance with EN 10169: 2013

EN 10169: 2013	Criteria			Indoor Temperature	Example of premises
	Aggressiveness	Cleaning	Humidity		
CPI1	Non-aggressive atmosphere	Routine maintenance	Low humidity	-40°C à +25°C	Storage of packaged dry products, freezing, storage of frozen or deep-frozen products (except unpackaged fish)
CPI2	Non-aggressive atmosphere	Routine maintenance	Medium humidity	0°C à +25°C	Refrigeration, sorting, packaging of fruit and vegetables, controlled atmosphere storage, conservation storage of packaged dairy or meat products
CPI3	Non-aggressive atmosphere	Non-intensive cleaning	High humidity	0°C à +25°C	Storage, preparation of salads, flowers, fruit etc., refrigeration of meat products, ice cream production
CPI4	Slightly aggressive atmosphere	Non-intensive cleaning	Humid	0°C à +30°C	Cold rooms for endives, ready-made meal preparation, poultry and rabbit slaughterhouse, wine cellar, butter processing, meat cutting, charcuterie
CPI5	Aggressive atmosphere	Intensive cleaning	Very humid	0°C à +35°C	Slaughter hall for sheep, cattle, pigs and goats, mushroom cultivation, cooking room, driers, smokehouses, scalding, evisceration, cheese drying room, bread-making laboratory, storage, freezing of unwrapped fish.
CPI5	Very aggressive atmosphere	Very intensive cleaning	Saturated	0°C à +40°C	Washing, showering, tripe processing, hides and skins, salting, brining, dairy production zones, cheese-making, processing and preparation of seafood products



Coating selection

Isocab CLEANsafe coatings are specifically designed for use in indoor environments.

Each coating has specific properties adapted to different indoor environments.

Classification of food premises and choice of suitable coatings

Cladding	Nature of the coating	Organic coating thickness [µm]	Possible atmospheres in accordance with EN 10169: 2013	Isocab by Kingspan coating
Galvanised steel or coated with a zinc and aluminium based alloy	Polyester	10 à 20	CPI2	CLEANsafe 15
	Polyester	25	CPI3	CLEANsafe 25
	Polyester	35	CPI3	CLEANsafe HDP 35
	Polyurethane	35	CPI3	CLEANsafe 35 Wood1N
	Polyurethane	50	CPI4	CLEANsafe HDP 50
	Polyurethane	≥ 55	CPI4	CLEANsafe PUR 55
	PET System	≥ 55	CPI4 to CPI5	CLEANsafe PET
	Laminated PVC film	≥ 120	CPI4 to CPI5	CLEANsafe PVC 150
Stainless steel	LAMPRE** PVC+PET laminate film	150	CPI5	CLEANsafe Inox PET 150+
AISI 304L stainless steel	X5CrNi18-9	bare	CPI4 to CPI5	CLEANsafe Inox 304L
AISI 316L stainless steel	X2CrNiMo17-12-2	bare	CPI5	CLEANsafe Inox 316L

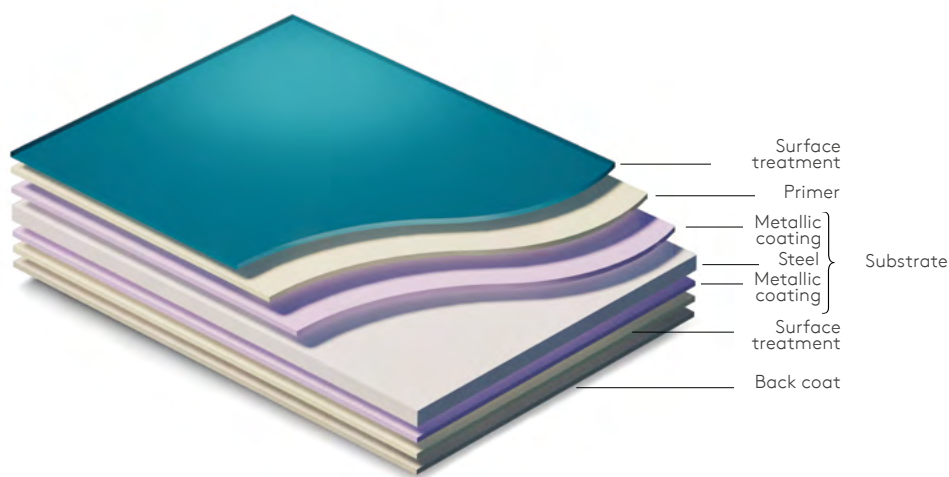


CLEANSafe 15

CLEANSafe 15 is a chemically inert 15µm polyester paint applied to pre-treated metal, specially designed for indoor environments CPI1 to CPI2.

Features

- Durable and efficient interior coating.
- Good light reflection properties.
- Easy to clean.
- Food safety certificate available on request.
- Moderate resistance to chemical corrosion and moisture.
- Non-toxic.
- Resistant to impact and wear.



Technical data		Test standard	
Nature of the organic coating	Polyester		
Applications	Interior applications only		Insulated panels for ceilings, walls, partitions, ancillary systems and accessories
Description	Substrate		Hot-dip galvanised with zinc/aluminium-coated metal
	Thickness	EN 13523-1: 2010	Nominal value: 15 µm
	Composition		1 Coat (finish)
	Colour		See colour chart
	Specular gloss (60°)	EN 13523-2: 2013	35 - 40 % (moderate gloss)
	Surface finish		Smooth finish
	Protective film		No
Performance	Scratch resistance	EN 13523-12: 2005	1600 g
	Impact resistance		Good
	Salt spray	EN 13523-8: 2024	150 hours
	Condensation resistance	EN 13523-26: 2013	500 hours
	Internal corrosion protection category	EN 10169: 2013	CPI2
	Temperature resistance		Maximum 60°C continuous
	Reaction to fire	EN 13501-1: 2007	A1 according to NF EN 13501-1: 2007

Remarks:

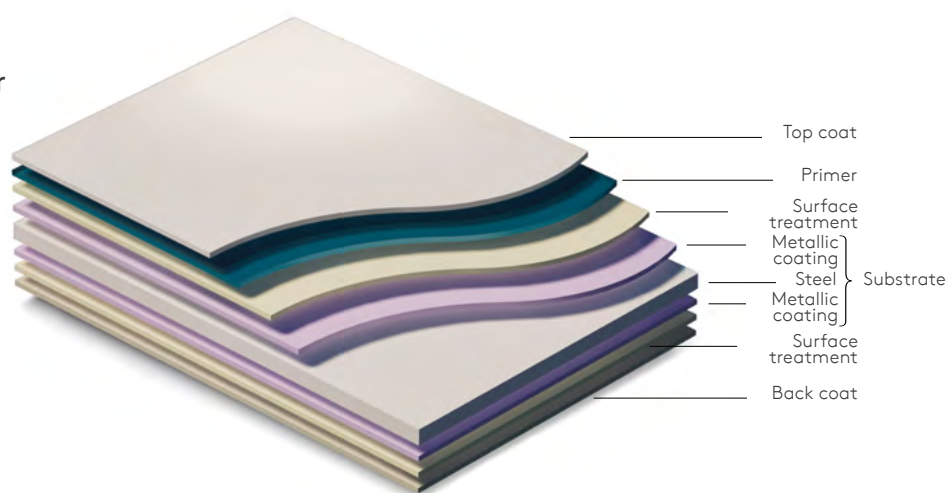
This data sheet is not intended to guarantee that this product is suitable for your application. Please consult us or refer to our selection guides.

CLEANSafe 25

CLEANSafe 25 is a 25 μm , chemically inert polyester paint applied to pre-treated metal, and specially designed for indoor environments CPI1 to CPI3.

Features

- Food hygiene - suitable for surfaces just behind food preparation areas, processing surfaces or equipment.
- Easy to clean.
- Food safety certificate available on request.
- Good resistance to chemical corrosion and moisture.
- Non-toxic.
- Resistant to impact and wear.



Technical data		Test standard	
Nature of the organic coating	Polyester		
Applications	Interior applications only		Insulated panels for ceilings, walls, partitions, ancillary systems and accessories
Description	Substrate		Hot-dip galvanised with zinc/aluminium-coated metal
	Thickness	EN 13523-1: 2010	Nominal value: 25 µm
	Composition		2 coats (primer and top coat)
	Colour		See colour chart
	Specular gloss (60°)	EN 13523-2: 2013	20 - 60 %
	Surface finish		Smooth or Textured
	Protective film		Yes - Standard
Performance	Scratch resistance	EN 13523-12: 2005	≥ 1800 g
	Abrasion resistance	EN 13523-16: 2005	< 30 mg
	Impact resistance		Good
	Salt spray	EN 13523-8: 2024	360 hours
	Condensation resistance	EN 13523-26: 2013	1000 hours
	Temperature resistance		Maximum 80°C continuous
	Reaction to fire	EN 13501-1: 2007	A1

Remarks:

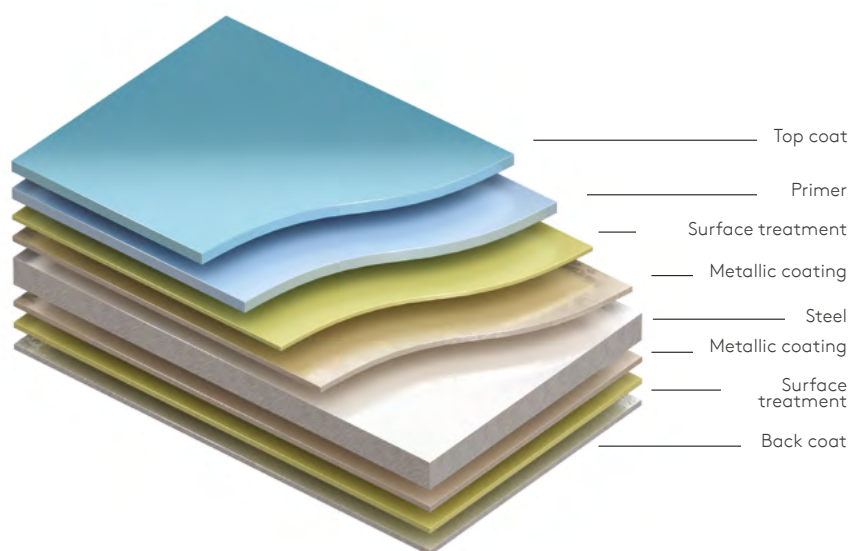
This data sheet is not intended to guarantee that this product is suitable for your application. Please consult us or refer to our selection guides.

CLEANSafe HDP 35

CLEANSafe HDP 35 is a chemically inert 35µm polyester paint applied to pre-treated metal, which is particularly suitable for CPI1 to CPI3 interior environments.

Features

- Smooth look
- Very good corrosion resistance (galvanised zinc substrate).
- Wide range of colours.
- High performance reverse side coating, specially formulated for building applications.



Technical data		Test standard	
Nature of the organic coating	High Durability Polymer		
Applications	Interior applications only	Insulated panels for ceilings, walls, partitions, ancillary systems and accessories	
Description	Substrate	Galvanised substrate made of zinc	
	Thickness	EN 13523-1: 2010	Nominal value: 35 µm
	Composition	2 coats (Primer and top coat)	
	Colour	See colour chart	
	Specular gloss (60°)	EN 13523-2: 2013	20 - 80 %
	Surface finish	Smooth or Textured	
	Protective film	Yes - Standard	
Performance	Scratch resistance	EN 13523-12: 2005	2000 g
	Corrosion resistance	EN 10169: 2013	CPI3
	Salt spray	EN 13523-8: 2024	500 hours
	Condensation resistance	EN 13523-26: 2013	1000 hours
	Reaction to fire	EN 13501-1: 2007	A1 (colours classes 1 to 4) according to NF EN 13501-1: 2007

Remarks:

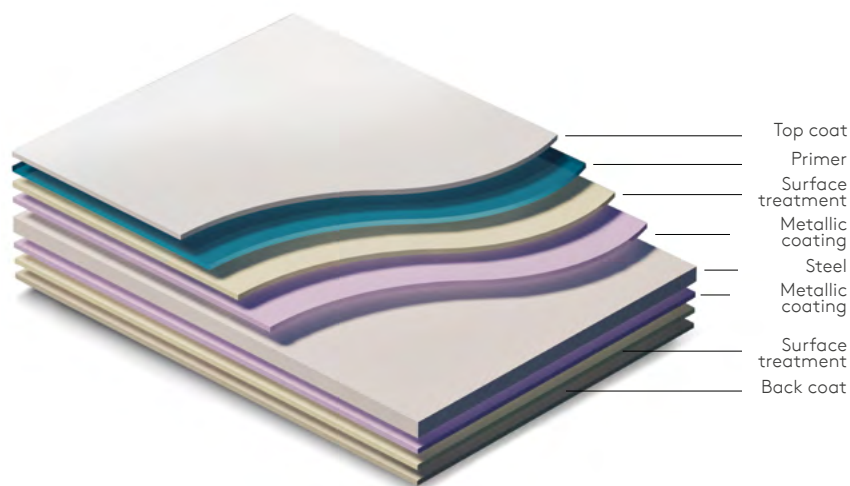
This data sheet is not intended to guarantee that this product is suitable for your application. Please consult us or refer to our selection guides.

CLEANsafe HDP 50

CLEANsafe HDP 50 is a pre-coated steel suitable for interior environments from CPI1 to CPI4.

Features

- Smooth or lightly textured finish.
- Very good corrosion resistance (galvanised steel substrate with metallic zinc coating).
- Wide range of colours.
- High-performance reverse side coating, specially formulated for building applications.



Technical data		Test standard	
Nature of the organic coating	Polyurethane		
Applications	Interior applications only		Insulated panels for ceilings, walls, partitions, ancillary systems and accessories
Description	Substrate		Galvanised steel Z275 or ZM 140 minimum
	Thickness	EN 13523-1: 2010	Nominal value: 50 µm
	Composition		2 coats (primer and top coat)
	Colour		See colour chart
	Specular gloss (60°)	EN 13523-2: 2013	20 - 40 %
	Surface finish		Smooth or slightly textured
Performance	Scratch resistance	EN 13523-12: 2005	> 3000 g
	Abrasion resistance	EN 13523-16: 2005	< 20 mg
	Corrosion resistance	EN 10169: 2013	CPI4
	Salt spray	EN 13523-8: 2024	1000 hours
	Condensation resistance	EN 13523-26: 2013	1500 hours
	Reaction to fire	EN 13501-1: 2007	A1 (colours classes 1 to 4) according to NF EN 13501-1: 2007

Remarks:

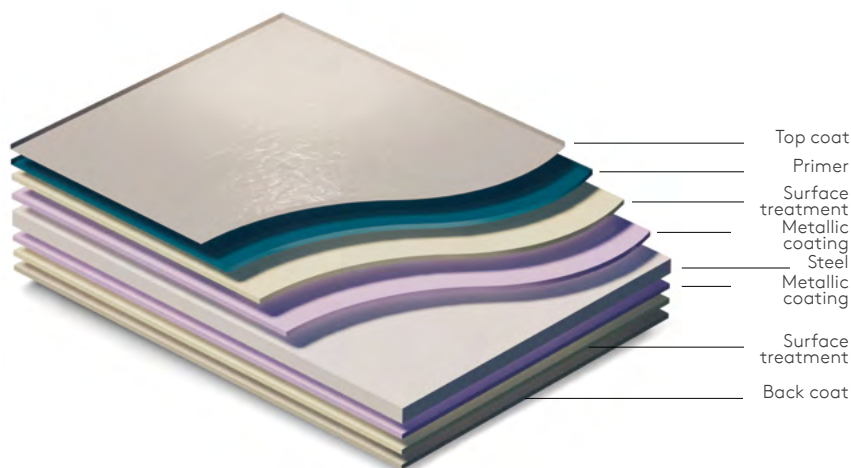
This data sheet is not intended to guarantee that this product is suitable for your application. Please consult us or refer to our selection guides.

CLEANSafe PUR 55

CLEANSafe PUR 55 is a pre-coated, grained steel reinforced with micro-beads for interior environments from CPI1 to CPI4.

Features

- Excellent corrosion resistance
- Very good formability
- Robust coating
- Thermosetting paint
- Surface treatment and paint: free from hexavalent chromium and heavy metals
- Ideal for mushroom growing activities.



Technical data		Test standard	
Nature of the organic coating	Film en polyuréthane		
Applications	Interior applications only		Insulated panels for ceilings, walls, partitions, ancillary systems and accessories
Description	Substrate		Minimum Z225 galvanised steel
	Thickness	EN 13523-1: 2010	Nominal value: 55 µm
	Composition		2 coats (primer and top coat)
	Colour		See colour chart
	Specular gloss (60°)	EN 13523-2: 2013	30 %
	Surface finish		Textured and satin - Matt available
	Protective film		Yes - Standard
Performance	Scratch resistance	EN 13523-12: 2005	≥ 3000 g
	Corrosion resistance	EN 10169: 2013	RC5 (Very resistant)
	Impact resistance		18 J
	Salt spray	EN 13523-8: 2024	700 hours
	Condensation resistance	EN 13523-26: 2013	1500 hours
	Reaction to fire	EN 13501-1: 2007	A1 (Colours classes 1 to 4) according to NF EN 13501-1: 2007 - A2 (Metallic colours class 5)

Remarks:

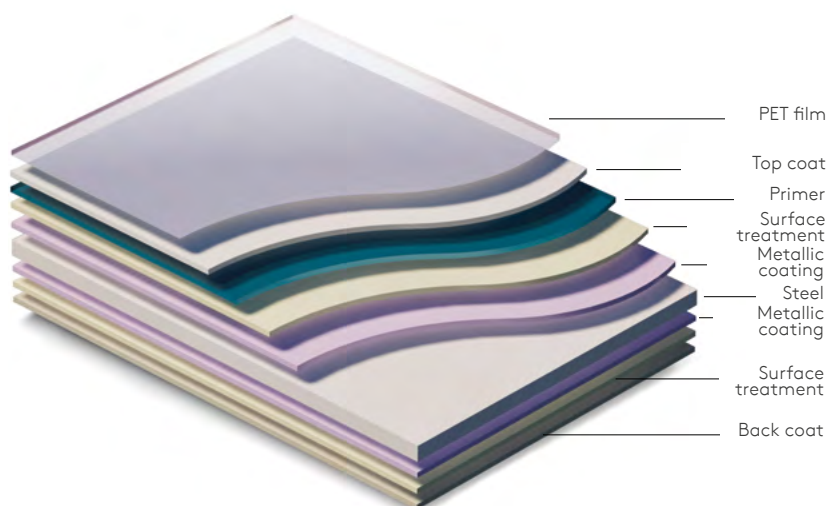
This data sheet is not intended to guarantee that this product is suitable for your application. Please consult us or refer to our selection guides.

CLEANSafe PET

CLEANSafe PET is a colaminated PET film applied to pre-treated metal, developed specifically for indoor environments up to CPI5.

Features

- Food hygiene - suitable for slaughterhouses, mushroom cultivation, cooking rooms, cheese grinders, bread-making laboratories, etc.
- Easy to clean.
- Food safety certificate available on request.
- Good resistance to chemical corrosion and humidity.
- Non-toxic.
- Resistant to impact and wear.



Technical data		Test standard	
Nature of the organic coating	PET colaminate film		
Applications	Interior applications only		Insulated panels for ceilings, walls, partitions, ancillary systems and accessories
Description	Substrate		Minimum Z225 galvanised steel
	Thickness	EN 13523-1: 2010	Nominal value: 50 µm
	Composition		3 coats (primer, top coat and colaminated PET film)
	Colour		See colour chart
	Specular gloss (60°)	EN 13523-2: 2013	17 %
	Surface finish		Smooth finish
	Protective film		Yes - Standard
Performance	Scratch resistance		EN 13523-12: 2005 > 4000 g
	Abrasion resistance		EN 13523-16: 2005 > 5000 g
	Impact resistance		Very good
	Salt spray		EN 13523-8: 2024 500 hours
	Condensation resistance		EN 13523-26: 2013 2000 hours
	Temperature resistance		-20° to 100° continuous
	Reaction to fire		EN 13501-1: 2007 A1 according to NF EN 13501-1: 2007

Remarks:

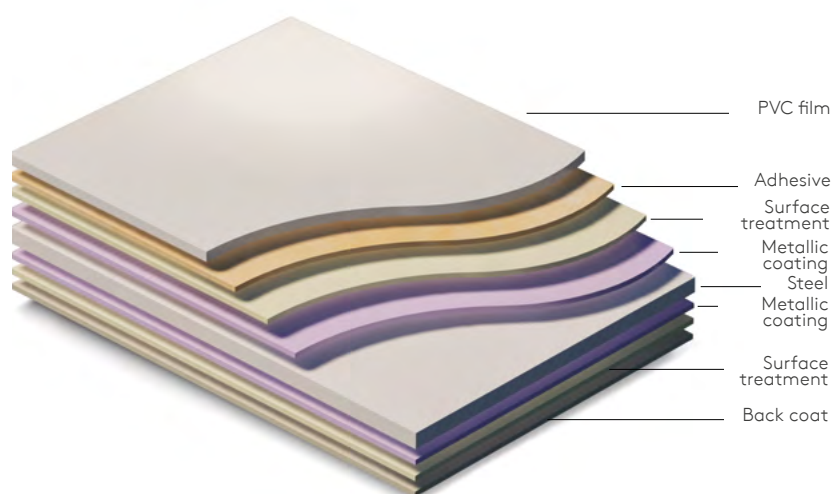
This data sheet is not intended to guarantee that this product is suitable for your application. Please consult us or refer to our selection guides.

CLEANsafe PVC 150

CLEANsafe PVC 150 is a chemically inert PVC film, applied to pre-treated metal and specially developed for use in indoor environments up to CPI5.

Features

- Food hygiene - suitable for surfaces immediately behind food preparation areas, processing surfaces or equipment.
- Easy to clean.
- Food safety certificate available on request.
- Good resistance to chemical corrosion and moisture.
- Non-toxic.
- Resistant to impact and wear.



Technical data		Test standard	
Nature of the organic coating	PVC film		
Applications	Interior applications only		Insulated panels for ceilings, walls, partitions, ancillary systems and accessories
Description	Substrate		Galvanised steel
	Thickness	EN 13523-1: 2010	Nominal value: 120 - 150 µm
	Composition		2 layers (adhesive and PVC film)
	Colour		See colour chart
	Specular gloss (60°)	EN 13523-2: 2013	14 - 18 % (low gloss)
	Surface finish		Smooth - slightly textured finish
	Protective film		Yes - Standard
Performance	Scratch resistance	EN 13523-12: 2005	3900 g
	Abrasion resistance	EN 13523-16: 2005	40 mg
	Impact resistance		Very good
	Salt spray	EN 13523-8: 2024	480 hours
	Condensation resistance	EN 13523-26: 2013	1000 hours
	Temperature resistance		-20°C à 80°C
	Reaction to fire	EN 13501-1: 2007	B according to NF EN 13501-1: 2007

Remarks:

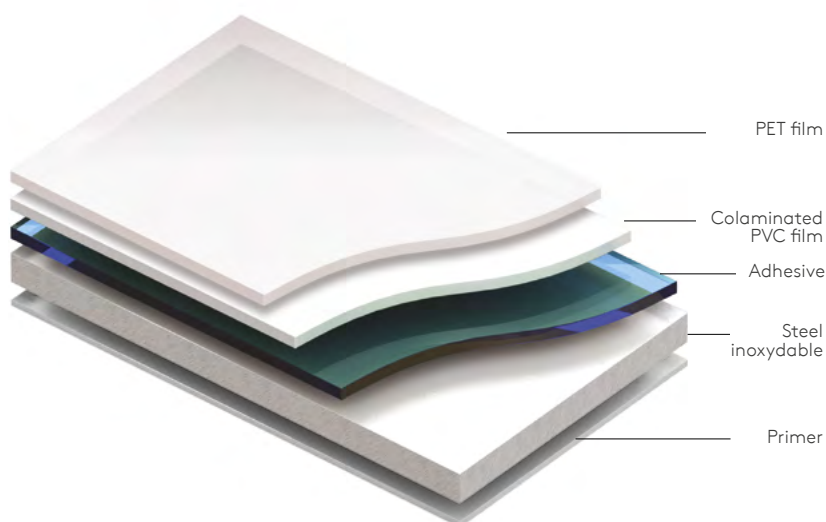
This data sheet is not intended to guarantee that this product is suitable for your application. Please consult us or refer to our selection guides.

CLEANSafe Inox PET 150+

CLEANSafe Inox PET 150+ is a colaminated PET film applied to stainless steel and specially developed for use in indoor environments up to CPI5.

Features

- Food hygiene - suitable for slaughterhouses, mushroom cultivation, cooking rooms, cheese grinders, bread-making laboratories, etc.
- Easy to clean.
- Food safety certificate available on request.
- Excellent resistance to chemical corrosion and moisture.
- Non-toxic.
- Resistant to impact and wear.



Technical data		Test standard
Nature of the organic coating	Colaminated PVC film and PET sheet	
Applications	Interior applications only	Insulated panels for ceilings, walls, partitions, ancillary systems and accessories
Description	Substrate	Stainless steel (AISI 304)
	Thickness	Nominal value: 110 - 160 µm
	Composition	3 layers (adhesive, colaminated PVC film and PET film)
	Colour	See colour chart
	Specular gloss (60°)	EN 13523-2: 2013 35 % - 45 % (Mat)
	Surface finish	Smooth finish
	Protective film	Yes - Special
Performance	Scratch resistance	EN 13523-12: 2005 Very good
	Abrasion resistance	EN 13523-16: 2005 26.5 to 27.5 mg
	Impact resistance	Very good
	Salt spray	EN 13523-8: 2024 750 hours
	Condensation resistance	1500 hours
	Temperature resistance	Maximum 60° C continuous
	Reaction to fire	EN 13501-1: 2007 B according to NF EN 13501-1: 2007

Remarks:

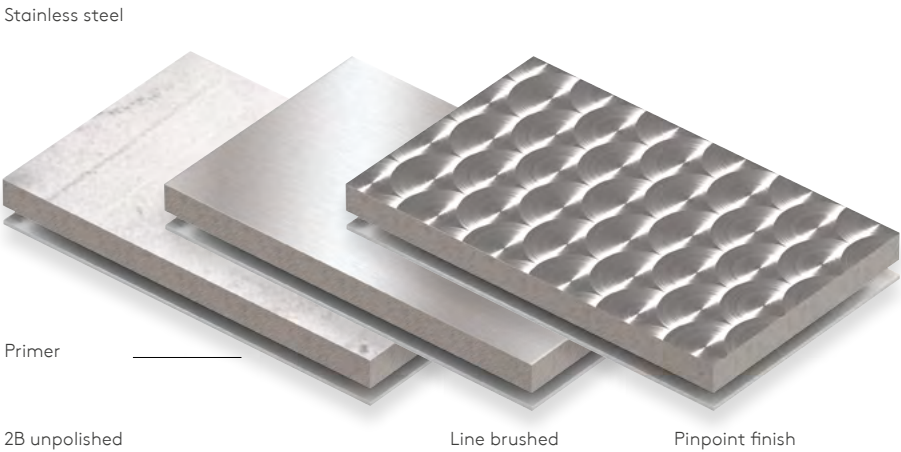
This data sheet is not intended to guarantee that this product is suitable for your application. Please consult us or refer to our selection guides.

CLEANSafe Inox 304L

CLEANSafe Inox 304L is a chemically inert, austenitic stainless steel developed specifically for indoor environments up to CPI5.

Features

- Food hygiene - suitable for surfaces immediately behind food preparation areas, processing surfaces or equipment.
- Easy to clean.
- Food safety certificate available on request.
- Excellent resistance to chemical corrosion and moisture.
- Non-toxic



Technical data		Test standard	
Nature of the organic coating	X5CrNi18-9 in accordance with EN 10088-2		
Applications	Interior applications only		Insulated panels for ceilings, walls, partitions, ancillary systems and accessories
Description	Substrate		Austenitic stainless steel type AISI 304L
	Thickness		Nominal value: 0.6 mm
	Colour		Unpolished finish
	Specular gloss (60°)	EN 13523-2: 2013	Semi-reflective
	Surface finish		Finish 2B unpolished, line brushed (320 grain) or pinpoint
	Protective film		Yes - Special
Performance	Scratch resistance	EN 13523-12: 2005	Good
	Abrasion resistance	EN 13523-16: 2005	3,2 mg
	Impact resistance		Excellent
	Salt spray	EN 13523-8: 2024	500 hours
	Reaction to fire	EN 13501-1: 2007	A1

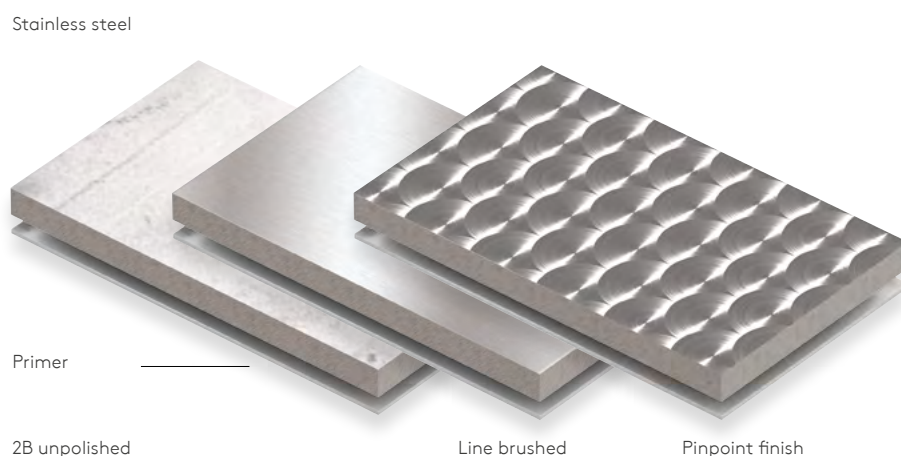
Remarks:
Do not use cleaners containing chlorine or chlorine derivatives on bare stainless steel cladding.
This data sheet is not intended to guarantee that this product is suitable for your application.
Please consult us or refer to our selection guides.

CLEANSafe Inox 316L

CLEANSafe Inox 316L is a chemically inert, austenitic stainless steel developed specifically for indoor environments CPI5.

Features

- Food hygiene - suitable for slaughterhouses, mushroom cultivation, cooking areas, cheese grinders, bread-making laboratories, etc.
- Easy to clean.
- Food safety certificate available on request.
- Excellent resistance to chemical corrosion and moisture.
- Non-toxic.



Technical data		Test standard	
Nature of the organic coating	X5CrNi18-9 in accordance with EN 10088-2: 2025		
Applications	Interior applications only		Insulated panels for ceilings, walls, partitions, ancillary systems and accessories
Description	Substrate		Austenitic stainless steel type AISI 316L
	Thickness		Nominal value: 0.6 mm
	Colour		Unpolished finish
	Specular gloss (60°)	EN 13523-2: 2013	Semi-reflective
	Surface finish		Finish 2B unpolished, line brushed or pinpoint
	Protective film		Yes - Special
Performance	Scratch resistance	EN 13523-12: 2005	Good
	Abrasion resistance	EN 13523-16: 2005	3,2 mg
	Impact resistance		Excellent
	Salt spray	EN 13523-8: 2024	500 hours
	Reaction to fire	EN 13501-1: 2007	A1

Remarks:

Do not use cleaners containing chlorine or chlorine derivatives on bare stainless steel cladding.

This data sheet is not intended to guarantee that this product is suitable for your application.

Please consult us or refer to our selection guides.

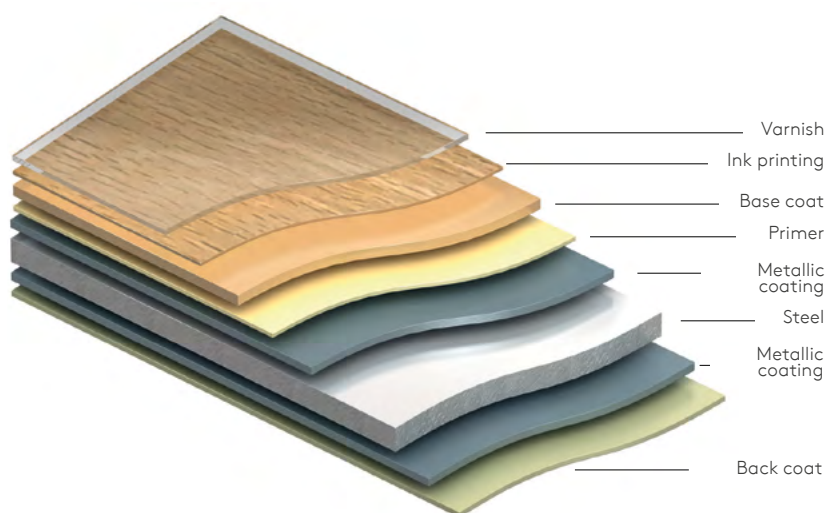
* Use in A16 is strictly reserved for the 2B unpolished finish, which has not undergone any surface treatment. The other finishes, line brushed and pinpoint, are limited to A15.

CLEANSafe 35 Wood1N

CLEANSafe 35 Wood1N is a pre-painted coating with a thickness of 35 µm, developed to be applied on insulated sandwich panels. Thanks to its high water resistance, the walls have the appearance of wood while benefiting from the advantages of steel.

Features

- A practical, economical alternative to wooden walls.
- Easy to maintain and protect against insects and mould.
- Stable material, even in high temperatures and humidity.



Technical data		Test standard	
Nature of the organic coating	Polyurethane		
Applications	Interior and exterior applications		Insulated sandwich panels for facades and roofs
Description	Substrate		Galvanised steel Z225 minimum
	Thickness	EN 13523-1: 2010	Nominal value: ≥ 35µm - 40 µm
	Composition		3 coats (primer, base coat and varnish)
	Colour		See colour chart
Performance	Scratch resistance	EN 13523-12: 2005	25 N
	Corrosion resistance	DIN 55634: 2018	C3 (on Z275 or ZM120)
	Salt spray	EN 13523-8: 2024	500 hours
	Condensation resistance	EN 13523-26: 2013	750 hours
	UV resistance	EN 10169: 2013	RUV3/RUV4
	Internal corrosion protection category	EN 10169: 2013	CPI4
	Temperature resistance		80°C
	Reaction to fire	EN 13501-1: 2007	A1

Remarks:

This data sheet is not intended to guarantee that this product is suitable for your application. Please consult us or refer to our selection guides.



Exterior environments

Isocab DESTRAL coatings are specifically designed for use in outdoor environments.

Table for outdoor use

Coatings	External environment								
	Rural non-polluted	Urban or Industrial		Marine				Special	
		Normal	Severe	20 to 10 km	10 to 3 km	Coastal (<3 km) (c)	Mixte	Strong UV	Specific
Minimum requirements according to EN 10169: 2013	III	III	d)	III	IV	V	d)	VI	d)
Destral 25	■	■	–	■	–	–	–	–	–
Destral 35	■	■	■	■	■	–	–	■	–
Destral 50	■	■	■	■	■	■	○	■	–
Spectrum 55	■	■	■	■	■	■	○	■	–
Destral Seashore	■	■	■	■	■	■	○	■	–
Deepmat (*)	■	■	–	■	–	–	–	–	–
Destral 35 Wood1N	■	■	–	■	■	–	–	■	–

■ Suitable coatings.

○ Coatings for which the final choice and specific properties should be determined after consultation and agreement with the manufacturer.

– Non-recommended coatings.

c) Except sea coast, for which the final assessment or determination of specific provisions should be decided after consultation and agreement of the manufacturer.

d) Cases for which final assessment or determination of specific provisions should be decided after consultation and agreement of the manufacturer.

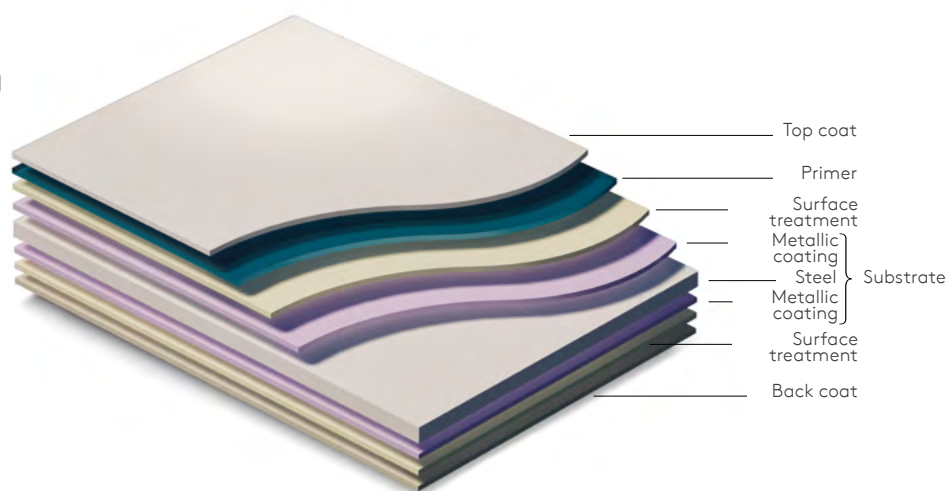
(*) valid only for accessories. Steel 90% Mat Thickness 0.88mm.

Destral 25

Destral 25 is a 25 µm chemically inert polyester paint applied to pre-treated metal, particularly suitable for exterior building envelope applications such as cladding and roofing.

Features

- Good resistance to chemical corrosion and moisture.
- Non-toxic.
- Resistant to impact and wear.



Technical data		Test standard	
Nature of the organic coating	Polyester		
Applications	Exterior application		Insulated panels for ceilings, walls, partitions, ancillary systems and accessories
Description	Substrate		Hot-dip galvanised with zinc/aluminium-coated metal
	Thickness	EN 13523-1: 2010	Nominal value: 25 µm
	Composition		2 coats (primer and top coat)
	Colour		See colour chart
	Specular gloss (60°)	EN 13523-2: 2013	20 - 60 %
	Surface finish		Smooth or Textured
	Protective film		Yes - Standard
Performance	Scratch resistance	EN 13523-12: 2005	≥ 1800 g
	Abrasion resistance	EN 13523-16: 2005	< 30 mg
	Impact resistance		Good
	Salt spray	EN 13523-8: 2024	360 hours
	Condensation resistance	EN 13523-26: 2013	1000 hours
	Temperature resistance		Maximum 80°C continuous
	Reaction to fire	EN 13501-1: 2007	A1

Remarks:

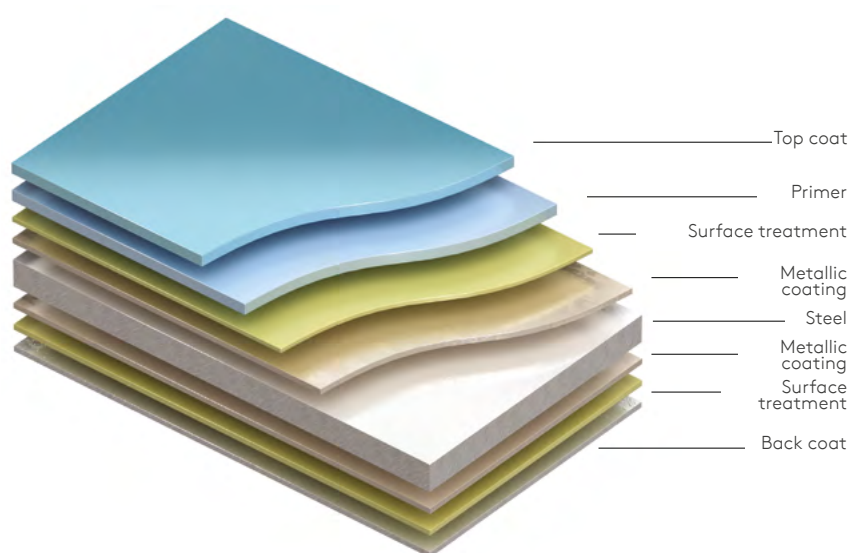
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Destral 35

Destral 35 is a chemically inert 35µm polyester paint, applied to pre-treated metal, which is particularly suitable for exterior building envelope applications such as cladding and roofing.

Features

- Smooth surface finish.
- Very good corrosion resistance (galvanised zinc substrate).
- Excellent UV stability.
- Wide range of colours.



Technical data		Test standard	
Nature of the organic coating	High Durability Polymer		
Applications	Exterior and interior application		Insulated sandwich panels for facades and roofing
Description	Substrate		Galvanised substrate made of zinc
	Thickness	EN 13523-1: 2010	Nominal value: 35 µm
	Composition		2 coats (Primer and top coat)
	Colour		See colour chart
	Specular gloss (60°)	EN 13523-2: 2013	20 - 80 %
	Surface finish		Smooth or Textured
	Protective film		Yes - Standard
Performance	Scratch resistance	EN 13523-12: 2005	2000 g
	Corrosion resistance	EN 10169: 2013	RC4
	Salt spray	EN 13523-8: 2024	500 hours
	Condensation resistance	EN 13523-26: 2013	1000 hours
	UV resistance	EN 10169: 2013	RUV4
	Reaction to fire	EN 13501-1: 2007	A1 (colours classes 1 to 4) according to NF EN 13501-1: 2007

Remarks:

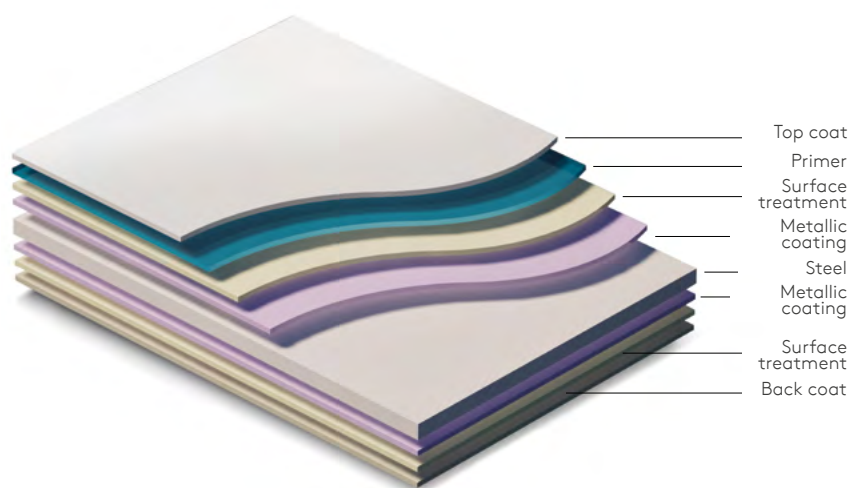
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Destral 50

Destral 50 is a pre-coated steel that is particularly suitable for exterior building envelope applications such as cladding and roofing.

Features

- Smooth or lightly textured finish.
- Very good corrosion resistance (galvanised steel substrate with zinc metal coating).
- Excellent UV stability.
- Wide range of colours.



Technical data		Test standard	
Nature of the organic coating	Polyurethane		
Applications	Exterior and interior application		Insulated sandwich panels for facades
Description	Substrate		Galvanised steel Z275 or ZM 140 minimum
	Thickness	EN 13523-1: 2010	Nominal value: 50 µm
	Composition		2 coats (primer and top coat)
	Colour		See colour chart
	Specular gloss (60°)	EN 13523-2: 2013	20 - 40 %
	Surface finish		Smooth or slightly textured
Performance	Scratch resistance	EN 13523-12: 2005	> 3000 g
	Abrasion resistance	EN 13523-16: 2005	< 20 mg
	Corrosion resistance	EN 10169: 2013	RC5
	Salt spray	EN 13523-8: 2024	1000 hours
	Condensation resistance	EN 13523-26: 2013	1500 hours
	UV resistance	EN 10169: 2013	RUV4
	Reaction to fire	EN 13501-1: 2007	A1 (colours classes 1 to 4) according to NF EN 13501-1: 2007

Remarks:

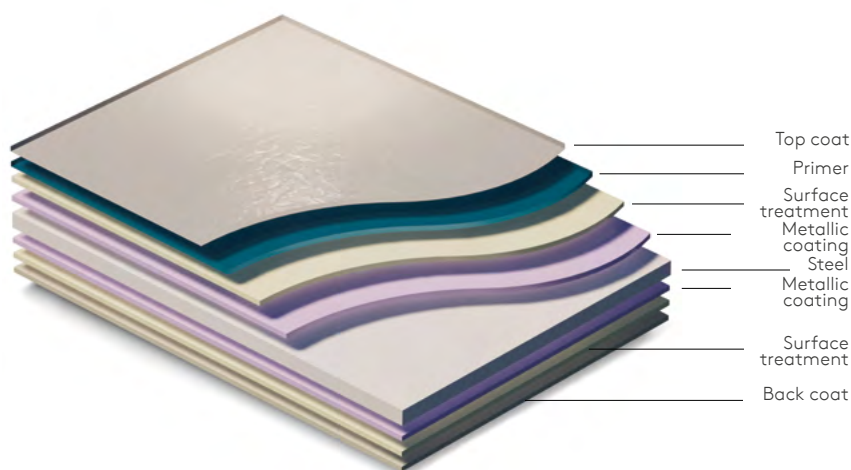
This data sheet is not intended to guarantee that this product is suitable for your application. Please consult us or refer to our selection guides.

Spectrum 55

Spectrum 55 is a pre-coated, textured steel reinforced with micro-beads for outdoor use in 'hostile' environmental or climatic conditions (polluted, cold, damp or extremely sunny).

Features

- Very good UV resistance.
- Excellent corrosion resistance.
- Very good formability.
- Robust coating.
- Thermosetting paint.
- Surface treatment and paint: free from hexavalent chromium and heavy metals.



Technical data		Test standard	
Nature of the organic coating	Polyurethane		
Applications	Interior and exterior applications		Insulated sandwich panels for facades
Description	Substrate		Minimum Z225 galvanised steel
	Thickness	EN 13523-1: 2010	Nominal value: 55 µm
	Composition		2 coats (primer and top coat)
	Colour		See colour chart
	Specular gloss (60°)	EN 13523-2: 2013	30 %
	Surface finish		Textured and satin - Matt available
	Protective film		Yes - Standard
Performance	Scratch resistance	EN 13523-12: 2005	≥ 3000 g
	Corrosion resistance	EN 10169: 2013	RC5 (Very resistant)
	Impact resistance		18 J
	Salt spray	EN 13523-8: 2024	700 hours
	Condensation resistance	EN 13523-26: 2013	1500 hours
	UV resistance	EN 10169: 2013	RUV4
	Reaction to fire	EN 13501-1: 2007	A1 (Colours classes 1 to 4) according to NF EN 13501-1: 2007- A2 (Metallic colours class 5)

Remarks:

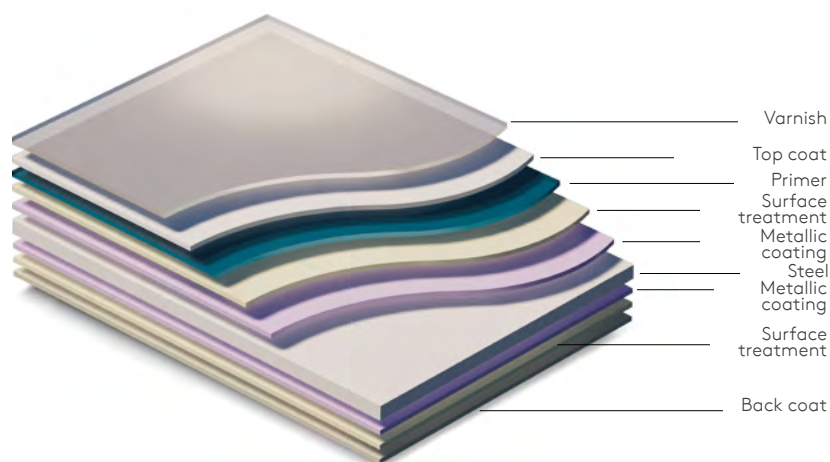
This data sheet is not intended to guarantee that this product is suitable for your application. Please consult us or refer to our selection guides.

DESTRAL Seashore

Destral Seashore is a 75 µm thick coating developed specifically for corrosive environments. It combines UV and corrosion protection with high durability.

Features

- Durable and robust, with weather and UV resistance.
- Suitable for harsh environments, including coastal environments, with a unique range of colours and surface finishes.
- Available in a range of finishes (matt, textured and satin).



Technical data		Test standard	
Nature of the organic coating	Polyurethane		
Applications	Exterior applications		Insulated sandwich panels for facades and roofs
Description	Substrate		Minimum Z225 galvanised steel
	Thickness	EN 13523-1: 2010	Nominal value: 70 to 75 µm
	Colour		See colour chart
	Specular gloss (60°)	EN 13523-2: 2013	10% (Matt), 15% to 30% (Satin), 30%
	Surface finish		Textured and satin - Matt available
Performance	Scratch resistance	EN 13523-12: 2005	> 3500 g
	Abrasion resistance	EN 13523-16: 2005	40 mg
	Corrosion resistance	EN 10169: 2013	RC5+
	Impact resistance		18 J
	Salt spray	EN 13523-8: 2024	1000 hours
	Condensation resistance	EN 13523-26: 2013	1500 hours
	UV resistance	EN 10169: 2013	RUV5
	Reaction to fire	EN 13501-1: 2007	A2

Remarks:

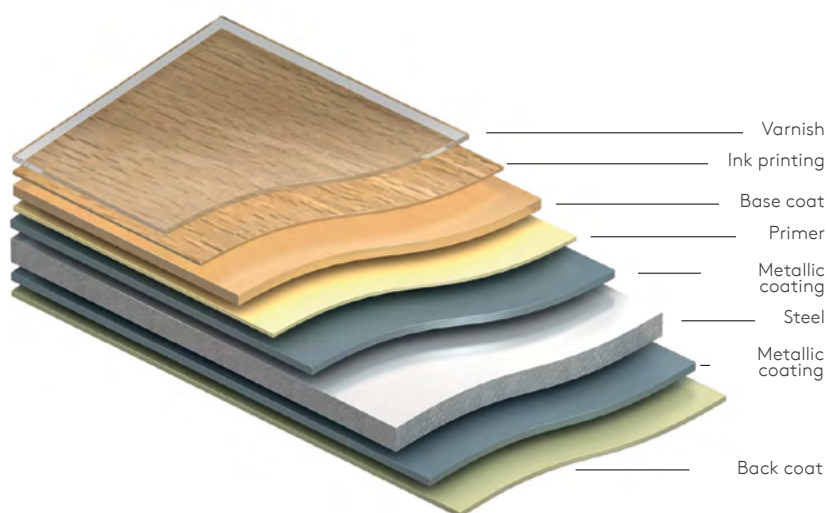
This data sheet is not intended to guarantee that this product is suitable for your application. Please consult us or refer to our selection guides.

Destral 35 Wood1N

Destral 35 Wood1N is a pre-painted coating with a thickness of 35 µm, developed to be applied on insulated sandwich panels. Thanks to its high water resistance, the walls have the appearance of wood while benefiting from the advantages of steel.

Features

- A practical, economical alternative to wooden walls.
- Easy to maintain and protect against insects and mould.
- Stable material, even in high temperatures and humidity.



Technical data		Test standard	
Nature of the organic coating	Polyurethane		
Applications	Interior and exterior applications		Insulated sandwich panels for facades and roofs
Description	Substrate		Galvanised steel Z225 minimum
	Thickness	EN 13523-1: 2010	Nominal value: ≥ 35µm - 40 µm
	Composition		3 coats (primer, base coat and varnish)
	Colour		See colour chart
Performance	Scratch resistance	EN 13523-12: 2005	25 N
	Corrosion resistance	DIN 55634: 2018	C3 (on Z275 or ZM120)
	Salt spray	EN 13523-8: 2024	500 hours
	Condensation resistance	EN 13523-26: 2013	750 hours
	UV resistance	EN 10169: 2013	RUV3/RUV4
	Internal corrosion protection category	EN 10169: 2013	CPI4
	Temperature resistance		80°C
	Reaction to fire	EN 13501-1: 2007	A1

Remarks:

This data sheet is not intended to guarantee that this product is suitable for your application. Please consult us or refer to our selection guides.



Inspection and maintenance

Regular inspection and maintenance will ensure the longevity of sandwich panels.

Their frequency is defined by the classification of the corrosive environment and the type of activity.

The table below provides a list of simple checks and the actions required.

Owners of refrigeration and food processing premises must record information about the construction of their building and keep a record of inspections and maintenance. This is an important step in the documentation process for any building.

Area to be checked	Risk factors	Actions
Retention of dirt	Could cause the coating to disintegrate.	Cleaning, see 'Cleaning' section.
Condition of coating	Cracks, spalling, discolouration.	Assess extent, severity and type of damage, see 'Repair' section.
Scratches and dents	Can cause corrosion of the metal substrate.	Assess extent and type of damage, see 'Repair' section.

Remarks:

Aesthetics are not considered to be a durability requirement.



Cleaning

To optimise the performance of coatings and maintain their high standard in terms of hygiene, the panels should be cleaned according to the procedures described below. The frequency of cleaning and the use of cleaning agents depends on the different types of activities in the space.

Clean means 'visibly clean', in other words without traces of dirt, dust or food particles visible to the naked eye and without odour. Cleaning consists of removing these particles and any associated odours.

Disinfecting means using chemicals on a surface to reduce the number of bacteria so that it becomes suitable for food contact.

Cleaning and disinfecting should normally be carried out separately. The surface should be thoroughly cleaned before disinfecting.

Care and maintenance

When cleaning sandwich panels, it is recommended to:

- Test the cleaning product before using it on the entire surface.
- Respect the dosage
- Dilute the products in lukewarm water.
- Observe the following conditions:
 - Maximum 50 bar at 30 cm from the wall with a wide jet (not sharp).
 - Temperatures between 30 and 50°C maximum.
 - Respect the contact time between the coating and the cleaning agent of 15 minutes maximum.
 - Remove stubborn dirt with a suitable non-abrasive product to avoid damaging the top coat.
- Rinse cleaned surfaces thoroughly with clean water.
- Use mainly alkaline cleaners and use an acidic cleaner once every 10 times.
- Do not use cleaning agents containing chlorine or chlorine derivatives on bare stainless steel surfaces.
- Never mix different cleaners
- If possible, limit the pH of cleaning agents between 4 and 9. Above and below this range, a compatibility analysis between the cleaning product and the organic coating or stainless steel should be requested from cleaning product suppliers.
- Never use solvents without first consulting Isocab by Kingspan.
- Using organic coatings in an environment where the temperature exceeds 50°C may cause the colour to yellow over time.

The following points should be taken into account when cleaning:

1. Using a higher concentration of cleaning products than recommended can damage the coating surfaces.
2. Always clean treated surfaces from top to bottom.
3. Scrubbing or excessive cleaning is not necessarily beneficial.
4. Using a steam cleaner can damage the coating due to the high temperatures.
5. High-pressure cleaners should not be used too close to or perpendicular to the coating. At panel joints, the high-pressure cleaner should be directed downwards to avoid spraying pressurised water directly into the joints. Old coatings must be treated with care.
6. Follow the manufacturer's instructions on the use of cleaning products and check their compatibility with the coating with our technical assistance. To this end, the technical data sheet and safety data sheet for each cleaning product are required when a compatibility analysis is requested.

Cleaning products		Isocab CLEANsafe* coating								
pH of the solution at use concentration	Corrosion inhibitor	15	25	35	50	55	150	Inox 150+	Inox 304**	Inox 316L**
9 ≤ pH ≤ 12,5	with	-	-							
	without	-	-							
4 < pH < 9		A NI	A NI					A I	A I	A I
1,5 ≤ pH ≤ 4	with	-	-							
	without	-	-							

A = Suitable

- = Not suitable

I = Intensive cleaning (usually daily)

NI = Non-intensive cleaning (usually monthly)

* = This table is for information only. In all cases, the supplier of the cleaning product must ensure that their product is compatible with the organic coating or metal cladding in question when in direct contact.

** = Avoid any contact with products containing chlorine.

Remarks:

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Repairing insulated panels

Before repairing panels, the surface should be cleaned (as described in the 'Cleaning' section), degreased and dried. Surface preparation is an important step and should be carried out by specialists using recommended methods and certified paints.

Minor scratches: If the cladding is scratched during installation or through use, it is not necessary to treat the affected area unless the paint surface is severely damaged.

Scratches: If the scratch in the coating extends to the deeper layers, the affected area should be treated with a suitable retouching paint in accordance with the paint supplier's recommendations. It is important that the applied paint is not wider than the scratches. To achieve this, the paint should be applied with a fine or medium-thick brush.

Minor dents: When the outer steel plate of the panel is dented and the coating is not scratched or damaged, it is not necessary to treat the affected area. For aesthetic reasons, it may be necessary to repair the affected areas as described in the 'Severe damage' section.

Deep dents or perforations: Affected areas can be repaired as described in the section 'Severe damage'. This repair should be carried out by certified repair companies that specialise in paintwork and can provide a guarantee on the repairs carried out.

Repainting: Surface preparation and paint application should be carried out by a specialised repair company using certified paints. Cellulose-based paints should not be used.

Severe damage:

1. Remove the paint from the damaged area with a sanding tool, making a concentric circle. The sanded surface must be clean, dry and dust-free.
2. Mix the multipurpose filler and apply to the damaged area according to the manufacturer's recommendations. Avoid touching adjacent painted surfaces. The panel profile should be redone to give a uniform appearance after repair.
3. Finally, sand the mastered area in concentric circles to smooth the edges. The surface should be dust-free.
4. Apply primer according to the supplier's recommendations and respect the drying times.
5. Apply a suitable paint according to the paint manufacturer's recommendations.

NB: For this, it may be advisable to entrust the work to a coachbuilder, for example.

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25/05/26

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