

DOBEL® Endure Zero

Keeping the outside out and the inside safe





Our brand new **DOBEL® Endure Zero** utilises the highest quality of film-laminated steel to build exterior doors able to withstand both the everyday and the exceptional. The steel sheets are finished with UV and scratch resistant laminates to cope with daily wear and tear so that we can call them Endure with complete confidence.

Following Metalcolour's commitment to lowering its environmental impact we now offer **DOBEL® Endure Zero** using a phthalate-free and bio-sourced PVC and SSAB Zero™ steel. This product offers the exact same quality, durability and performance as our standard products at the same time as reducing our carbon footprint.

INTRODUCTION

DOBEL Endure Zero film laminated steel is Made in Sweden – We have some of the most extreme weather conditions on the planet, from frozen glaciers above the arctic circle to sunny beaches in the south. So we developed a product that can withstand this demanding environment and extensively tested it far beyond the typical standards. The steel used is the highest grade on the market and offers total reliability in the most exceptional circumstances. At the same time we finish the steel sheets with UV and scratch resistant laminates to cope with daily wear and tear so that we can call them Endure with complete confidence.

We have over 50 years of experience working with coated metals and the evolution into exterior doors has been both natural and logical. Our products can be found all over the world resisting the elements and offering the highest standards of reliability.

MADE BY SWEDEN

For the past 5 years we have been collaborating very closely with our suppliers and a number of our clients to realize a vision. We wanted to develop the very best laminated steel on the market suitable for build-

ing doors capable of resisting everything man and nature could throw at them. And Sweden just happens to be the best place to make it.

Sweden's unique geographical position generates an extraordinary range of different weather conditions. The four distinct seasons from north to south include some of the hottest summers in the region to the darkest and coldest in the far north. Dobel Endure Zero will perform just as well when the temperatures drop far below zero as on a hot midsummer afternoon.

It's not just the weather we need to take into consideration, in this country of extremes there's also the light. Daylight hours range from 0 in the winter to 24 six months later. That's why we have tested the UV resistance of all our laminates far beyond typical industry standards giving our customers, and the end user, assurance that our colours remain the same year in and year out.

PTHALATE-FREE AND PLANT-BASED VINYL

Following Metalcolour's commitment to lowering its environmental impact we now offer laminated metals using a bio-sourced PVC. This product offers the exact same quality, durability and performance as our standard films at the same time as reducing our carbon footprint.



AVAILABLE DESIGNS



DOBEL® 4125
NCS S 2500-N



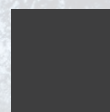
DOBEL® 4112
NCS S 4500-N



DOBEL® 4015
NCS S 6502-B



DOBEL® 4412
NCS S 8000-N



DOBEL® 4111
NCS S 9000-N

The PVC uses renewable pine oil which is a by-product of the wood pulping industry and sourced from sustainably managed forests and is dropped directly into the production process of our film laminates.

SSAB ZERO™ STEEL

For production of Dobel Endure Zero laminated sheets we use SSAB Zero™ steel which is made using recycled steel (scrap) and fossil-free energy. It has virtually zero fossil emissions during steel production, without mass balancing or allocation of emission reductions or carbon emission offsetting. It is SSAB's way to produce our existing steel grades and products with significantly lower carbon footprint, while maintaining the same premium quality, properties and dimensions. The first step in making SSAB Zero™ is to feed the electric arc furnace (EAF) with scrap. Heat is generated from an electric arc between electrodes. Oxygen is blown into the furnace, and lime and slag formers are added to combine with the impurities and form slag. Molten steel is extracted and poured out via a tapping spout. Across the entire process, only fossil-free electricity and fuels will be used – resulting in SSAB Zero™ steel as the end-product.

The fossil carbon emissions in SSAB's production of SSAB Zero™ are less than 0.05 kg CO₂e/kg steel in Scope 1 and 2 of the GHG Protocol. For more information, please visit ssab.com

QUALITY AND SECURITY

For Dobel Endure Zero we use only SSAB Zero™ steel and this is where the reliability begins – in the raw materials. The quality of the steel we use is very consistent and does not compromise on workability when used in the formation of doors. The characteristics ensure that doors built with Dobel Endure Zero are tougher and stronger than any other suitable steel on the market. And it can be used in the same production techniques with minimal adjustments to the machinery. This brings with it reliability and a reassured confidence in the final product. Even under the most extraordinary circumstances doors made from Endure will keep what is outside out and what's inside safe.

However, we have not only accounted for the dramatic and the unexpected, we have also taken into account the importance of the ordinary everyday. We pride ourselves on the scratch resistance of the laminates we use and have tested them to prove it. Doors built with Dobel Endure Zero can withstand the typical daily impact of wear and tear, both from the outside and inside.

METALCOLOUR SERVICE

The development of Dobel Endure Zero is a story of confidence. We have been working with door manufacturers for many years and it has been through their collaboration that we recognised the opportunity for a high quality, laminated steel specifically for exterior doors. Our customers had the confidence in our skills and material and we in turn had the confidence that their final products would sell. This is why we operate on extremely short turnaround times, continuously replenish stock items and are able to offer quick deliveries.

This confidence runs throughout the entire supply chain right the way down to the final user. Each stage is a confirmation that the best materials are being handled by the best partners. This in turn is an assurance that when a door made with Dobel Endure Zero is fitted it will be one of the highest quality on the market.

Our customer service is well known to be one of the most efficient in the industry, able to accommodate requests not possible for many others in the sector. We have over 50 years experience working with metal coatings and our support team are confident dealing with all kinds of requests. Over the years we have learned that access to real product samples is crucial to a productive collaboration so we have established routines for getting samples into your hands as quickly as possible.

Metalcolour service even extends to post purchase where our supplier is able to offer on-location replacement lamination either through damage or a change of colour. This is by far the most convenient option for the end user and a highly sustainable solution to a simple aesthetic problem.

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PROPERTIES

Specification	Data	Test method
Film thickness	150 µm	ISO 4593
Min bending radius	Steel 0 T*/Aluminium 1 T*	
Adhesion	No remark	ISO 1520
Impact resistance	18 J	ISO 6272
Max application temp	60°C**	

* T is the metal sheet thickness. ** Temperatures exceeding 60°C may cause discolouration with time.

DIMENSIONS – SHEETS CUT TO SIZE

Specification	Thickness (mm)	Width (mm)	Length (mm)	Zn thickness (g/m ² /side)
Steel	0.50 – 1.50	– 1280	– 3700	100*, 275

* Standard Zn thickness. Maximum bundle weight: 3.0 tonnes (steel).

COILS

Specification	Thickness (mm)	Width (mm)	Zn thickness (g/m ² /side)
Steel	0.50 – 1.00	– 1280	100*, 275

* Standard Zn thickness. Inside diameter: 610 mm or 508 mm. Max coil weight: 5 tons.

TOLERANCES

Thickness* (mm)	Tolerance (± mm)
0.50 – 0.60	0.06
0.61 – 0.80	0.07
0.81 – 1.00	0.08
1.01 – 1.20	0.09
1.21 – 1.50	0.13

* According to SS – EN 10143 (steel).

Dimensions	Tolerance (mm)
Width (mm)	-0/+6
Length (mm)	-0/+2

There can be up to 5 mm naked edge (without film), on material with standard dimension tolerances.

Flatness: 5 mm standard deviation.

Straightness: 5 mm maximum deviation on a gauge length of 2000 mm.

Squareness: The squareness is expressed as the maximum allowable difference in length of diagonals. 3 mm up to length of 3000 mm.



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