



## DOBEL® Endure

### APPLICATIONS

Film laminated sheet metal is used where the requirements are high regarding aesthetic and robust surfaces. **DOBEL® Endure** is developed for exterior applications, designed with superior weather resistance properties. Typical use are doors in apartment buildings, stairwells, exterior corridors, boutiques, arenas as a few examples.

### PRODUCT DESCRIPTION

**DOBEL® Endure** consists of a 150µ thick Vinyl film laminated onto sheet metal. The Vinyl film is phthalate free and produced with Bio-attributed PVC. The base material is hot-dip galvanized steel or aluminium. The product is supplied with a removable protective film. A range of single colours are available. The reverse side has as standard a primer coating, suitable for gluing and foaming.

**DOBEL® Endure** is supplied as coils\* or cut-to-length sheets. European standard EN 10169-1 for organic coated sheet is applicable for the product.

Available colours: NCS 2500-N, NCS 4500-N, NCS 6502-B, NCS 8000-N and NCS 9000-N.

### CLEANING & MAINTENANCE

Water and a mild detergent should be used for cleaning, solvents and abrasive materials is not recommended. The suitability of cleaning agents should be tested first on a non-critical area before use to avoid damage. More info can be found in our sheet "Maintenance Instructions"

### STORAGE AND HANDLING

- Care should be taken to avoid damage to the surface during handling and installation.
- Store in a clean dry atmosphere at temperatures between +15°C and +30°C
- Keep out of direct sunlight and away from heat sources
- Store the material in the original packaging
- Do not put heavy objects on top to prevent surface damage and pressure marks
- The protection film should not be removed until the material is installed

### REACH & SUSTAINABILITY

Metalcolour Sverige AB continues to commit significant resources in order to ensure that our processes are increasingly environmentally friendly, performed under controlled conditions according to ISO 9001 and ISO 14001.

Metalcolour Sverige AB follows REACH regulations and uses no materials containing restricted chemicals on the SVHC candidate list, Substances of Very High Concern. All of our products are compliant to RoHS Directive 2015/863.

Film laminated metal can be recovered at the end of its life cycle by remelting to new metal. **DOBEL® Endure** should be collected, as all other metal sheets, through the local scrap recovery channels.

### TECHNICAL SERVICE AND INFORMATION

Dimensions and tolerances in the data sheet are standard. Other requirements available on agreement.

\* Only available in steel.

### TECHNICAL CHARACTERISTICS

Property	Unit	Value	Test method
Thickness PVC	mm	0.15 ± 10%	ISO 4593
Thickness protection film	mm	0.08 ± 10%	
Color tolerance	Cielab D65 10°	ΔE ≤ 0.6	ISO 7724 Measured color difference on new material acc. to approved master sample
Light fastness 3000h	Grey Scale	≥ 4/5	ISO 4892-2, cycle 1
Scratch resistance	Level	≥ 4C	DIN 68861-4



**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 <sup>2</sup> /side)
Steel	0.50 – 1.50	– 1280	– 3700	100*, 275
Aluminium	0.70 – 1.50**	– 1250	– 3700	

\* Standard Zn thickness. Maximum bundle weight: 3.0 tonnes (steel). \*\* 2,00 mm thickness available for min. order quantity of 7 tons

**COILS**

Specification	Thickness (mm)	Width (mm)	Zn thickness (g/m <sup>2</sup> /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, STEEL/ALUMINIUM**

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 (Alu: 1.21-2.00)	0.13

\* According to SS – EN 10 143 (steel). According to EN 485 (aluminium).

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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