

COLORDUR® DX53/0.55 MM

TECHNICAL DATA SHEET

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The steel sheet is coated with a two-layer coating system consisting of a primer and a color topcoat, with a nominal total dry film thickness of 35 µm. This coating provides good to very good forming properties and good weather resistance. In combination with the ZM120 zinc-magnesium coating, Zambelli COLORDUR® DX53 is suitable for use as a roof drainage systems in environments with atmospheric conditions up to corrosivity category C4 in accordance with DIN EN ISO 12944-2 (Table 6), provided that a minimum distance of more than 3 km from coastal or saltwater zones is maintained. In addition, due to these properties, the material is also suitable for all conventional sheet metal works such as folding, bending, and profiling.

TECHNICAL DATA

PROPERTY	TEST STANDARD	VALUE
Steel grade		DX53D+ZM120
Steel thickness		0.55 mm
Typical dry film thickness (total)	DIN EN 13523-1	35 µm
Gloss level (60°)	DIN EN 13523-2	0 - 10 GU
Adhesion (cross-cut test)	DIN EN ISO 2409	GT 0
Adhesion after cupping	DIN EN 13523-6	6 mm / GT 0
Adhesion after bending	DIN EN 13523-7	max. 1T, no flaking
Flexibility (T-bend)	DIN EN 13523-7	max. 2T, no cracking
Solvent resistance (MEK test)	DIN EN 13523-11	min. 100 double rubs
Pencil hardness	DIN EN 13523-4	HB-F
Buchholz hardness	DIN EN ISO 2815	min. 90
Resistance to cracking during rapid deformation (reverse impact)	DIN EN 13523-5	min. 8 J
Salt spray resistance	DIN EN ISO 9227 DIN EN ISO 4628-2 DIN EN ISO 4628-8	After 360 h: average creepage at the scribe max. 2 mm, no blistering on the surface
Temperature resistance		up to 80 °C
Recommended processing temperature	In accordance with „Characteristic Features 093 - Organic coil-coated flat steel products“	≥ 18 °C (material temperature)
UV resistance category	DIN EN 10169	RUV4
Scratch resistance	Based on DIN EN 13523-12	≥ 30 N



PROCESSING GUIDELINES

Processing shall be carried out in accordance with generally accepted industry guidelines, such as the current sheet metal trade regulations.



GUARANTEES

Warranty periods of up to 20 years are possible. Please contact us for further details.



RECYCLING

Steel is fully recyclable and retains a high economic value as scrap material.



NOTE

The information provided in this document reflects the current state of our knowledge and experience. This technical data sheet is intended for non-binding guidance only. No warranty is given with respect to completeness or accuracy. With the publication of this data sheet, all previous data sheets become invalid.



Further information available at:
www.zambelli.com/colordur