Steel

pladur® Indoor

Segment Construction
Product information for coil-coated high-grade flat steel

thyssenkrupp

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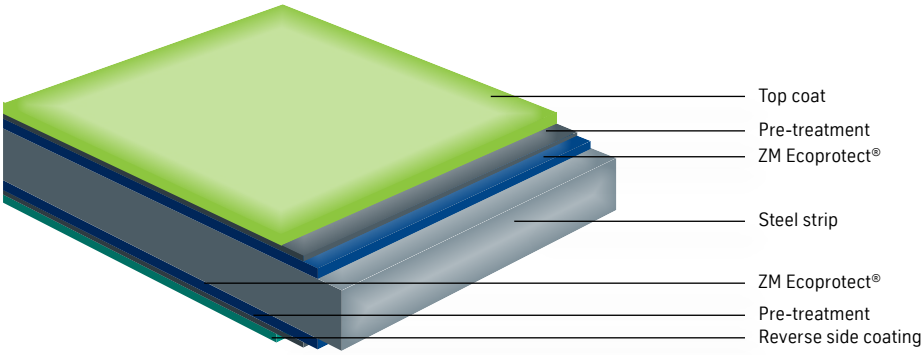
Material structure



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Brief profile

pladur® Indoor has been specifically developed for indoor applications where functional requirements are the primary focus. The surface is smooth and predominantly light grey-white in color, allowing it to blend discreetly into a wide range of architectural and design concepts.

The thin coating is based on polyester or epoxy resin systems and has a coating thickness of ≤ 15 µm. Due to this limited layer thickness, only restricted visual requirements can be met. A uniform surface appearance cannot be guaranteed either across coils or within a single coil.

pladur® Indoor is primarily used as a backside coating for ceiling applications (ceiling underside coating) and meets the requirements of a functional and cost-efficient solution in this area. Despite its limited visual homogeneity, the product convinces through its technical suitability for interior construction applications.

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Available dimensions

	Thickness from_to [mm] [1]	Width from_to [mm] [1]	Length from_to [mm] [1]
Strip	0.40–3.00	600–1,500	–
Sheet	0.40–3.00	430–1,500	450–6,000

[1] Not all thickness and width combinations are possible.

Product features

Feature	Test procedure / method	Typical characteristic values
Thickness of organic coating [2]	DIN EN 13523-1	15 µm
Appearance		
Surface appearance		smooth
Gloss (60°) [2]	DIN EN 13523-2	20–40 GU
Color (CIE-L*a*b* or ΔE*)	DIN EN 13523-3	grey-white / according to agreement
Color difference ΔE*	DIN EN 13523-6	ΔE* ≤ 1,5
Deformation resistance		
T-bend cracking	DIN EN 13523-7	≤ 4.0 T, no crack formation
T-bend adhesion loss	DIN EN 13523-7	≤ 2.0 T, no loss of adhesion
Erichsen cupping adhesion	DIN EN 13523-6	4 mm, no loss of adhesion
Durability		
MEK rub test	DIN EN 13526-11	> 50 double rubs
Scratch resistance	DIN EN 13523-12	≥ 1,400 g
Cross-cut test	DIN EN ISO 2409	≤ Gt 1
Weathering resistance		
Constant humidity condensation atmosphere	DIN EN 13523-26	Degree of blistering < 2(S2) after 500 h
Salt spray test	DIN EN ISO 9227 (NSS)	Degree of delamination ≤ 2 mm after 360 h
UV resistance category (R_{UV})	DIN EN 10169	R_{UV} 1
Corrosivity category	DIN 55634-1	C2 (H) indoor
Corrosion protection interior category (CPI)	DIN EN 10169	CPI2
Fire classification	DIN EN 13501-1	A2
Reverse-side coating		10 µm, grey / by separate agreement

[2] Nominal value, tolerance according to DIN EN 10169

Quality management

All locations of thyssenkrupp Steel Europe AG are certified in accordance with ISO 9001, including the additional requirements of the international automotive industry IATF 16949. The chemistry and materials testing laboratories in the Innovation division (Duisburg and Dortmund sites) are accredited according to DIN EN ISO/IEC 17025.

TÜVRheinland ZERTIFIZIERT – Management System ISO 9001:2015 IATF 16949:2016 – www.tuv.com ID 9000000592

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General information

No explanation of the test methods has been provided here, consequently the specified standards for the test methods must be observed. The information on the product characteristics was obtained from numerous sample productions, and represents average values that serve as a guide and may vary in individual cases. The information has been compiled conscientiously, but is nevertheless not guaranteed. As a result of technical developments and legal requirements, product features may vary and are therefore subject to change.

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