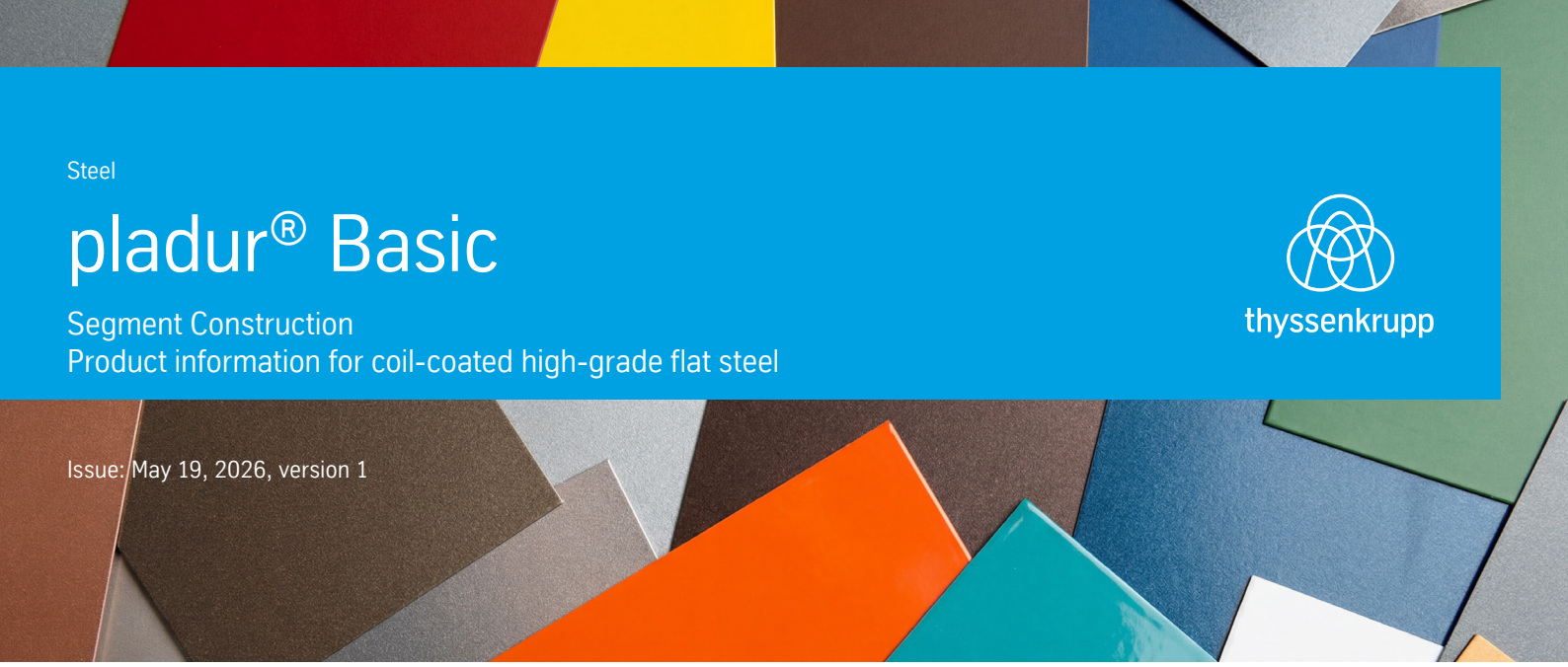
Steel

pladur® Basic

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

thyssenkrupp



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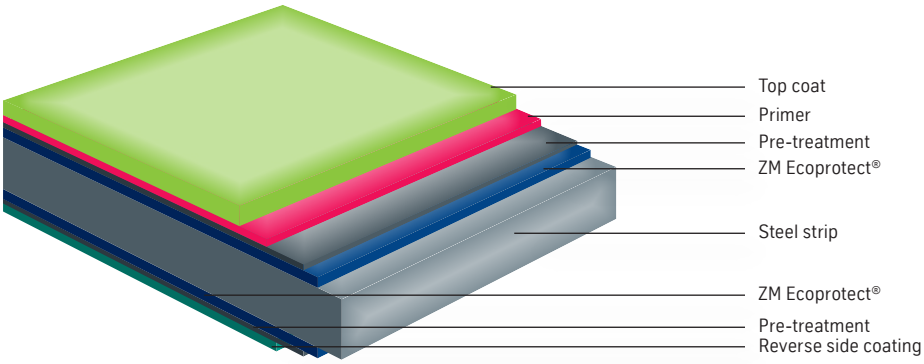
Material structure



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Brief profile

pladur® Basic is the economical standard solution for applications requiring a balanced combination of protection, workability, and appearance. This organic coil-coated steel product with a proven polyester coating delivers reliable performance for a wide range of exterior and interior applications.

Its smooth surface creates a clean, timeless appearance and supports versatile use in architecture and lightweight metal construction. As a result, pladur® Basic is ideally suited for applications that demand a functional, clean, and visually appealing surface.

In addition, pladur® Basic offers good corrosion and weather resistance as well as reliable color and gloss stability under normal outdoor conditions. The coating is easy to process and meets the requirements of common forming operations such as bending, edging, punching, and roll forming with a high level of process reliability.

Whether for facade panels, sandwich panels, trapezoidal profiles, or door and garage door applications, pladur® Basic is the right choice for projects seeking a proven coil-coating solution with an attractive price-performance ratio.

Available dimensions

	Thickness from_to [mm] [1)]	Width from_to [mm] [1)]	Length from_to [mm] [1)]
Strip	0.40–3.00	600–1,550	–
Sheet	0.40–3.00	600–1,550	450–6,000

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

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Product features

Feature	Test procedure / method	Typical characteristic values
Thickness of organic coating[2)]	DIN EN 13523-1	25 µm
Appearance		
Surface appearance		smooth
Gloss (60°)[2)]	DIN EN 13523-2	matte to high-gloss
Color (CIE-L*a*b* or ΔE*)	DIN EN 13523-3	according to color shade standard / agreement
Deformation resistance		
T-bend cracking	DIN EN 13523-7	≤ 3.0 T, no crack formation
T-bend adhesion loss	DIN EN 13523-7	≤ 1.0 T, no loss of adhesion
Erichsen cupping 4 mm cracking	DIN EN 13523-6	≤ 4.0 mm, no crack formation
Erichsen cupping 4 mm adhesion	DIN EN 13523-6	≤ 4.0 mm, no loss of adhesion
Impact test	DIN EN 13523-5	18 J, no loss of adhesion
Durability		
MEK rub test	DIN EN 13526-11	≥ 80 DH
Scratch resistance	DIN EN 13523-12	≥ 1.500 g
Cross-cut test	DIN EN ISO 2409	Gt 0
Temperature resistance	DIN EN 13523-13	-20 to +80 °C (ΔE* < 1)
Weathering resistance		
Alternating humidity and temperature atmosphere	DIN EN ISO 6270-2 (AHT)	Degree of blistering < 2(S2) after 1,000 h
Salt spray test	DIN EN ISO 9227 (NSS)	Degree of blistering < 2(S2) after 360 h Degree of delamination ≤ 2 mm after 360 h
UV resistance category (R_{UV})	DIN EN 10169	min. R_{UV} 3
Corrosivity category	DIN 55634-1	C3 (H)
Corrosion resistance outdoor category (RC)	DIN EN 10169	RC3
Corrosion protection interior category (CPI)	DIN EN 10169	CPI3
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
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FÖRDERNDES MITGLIED IM IFBS

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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.