Stee

perdur®

Extreme demands call for a resilient partner.









perdur® is our brand for innovative, wear-resistant cut-to-length sheets with an extensive customer service offer. Ideal for use in high-wear components in dumpers, garbage trucks, roll-off/skip loaders and agricultural machinery.

The advantages of perdur® at a glance



High wear resistance



Guaranteed toughness



Good cutting and welding properties



 $\stackrel{\textstyle \hookleftarrow}{\Longrightarrow}$ Good surface quality and flatness



Lightweight construction potential saves costs and weight



Experienced materials partner with application know-how and innovation expertise

The indestructible cut-to-length sheets

perdur® 400 and perdur® 450 offer you versatile cut-to-length sheets that combine high wear resistance with excellent forming properties, offering guaranteed durability and all the advantages of thyssenkrupp steel in a single product.

Our perdur® cut-to-length sheets are available in a thickness range from 4.00 mm to 8.00 mm. Due to their very tight thickness tolerance, they offer both the advantage weight reduction, as well as better cold forming properties.







perdur® instead of quarto: a lasting change.

In comparison to classic quarto sheets of the same dimensions, perdur® possesses better resistance to brittle fracture and is thus ideally suited for high-quality processing in your customized applications.

The wear-resistant partnership

Our perdur® cut-to-length sheets underline our goal to provide comprehensive customer service from materials consulting and innovation all the way to application and process optimization.

Benefit from our experience

As an experienced materials technology partner, thyssenkrupp Steel has always been synonymous with innovative, custom solutions — especially where cut-to-length sheet products are concerned.

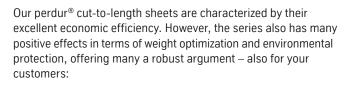
Trust is our success

Our sales and technical customer service teams maintain close contact with our customers and can look back on years of experience and partnerships across many industries.



We support our customers with our know-how and team of experts, and provide a partner to develop and manufacture high-quality and tailor-made wear-resistant steels, which will also include "green" wear-resistant cut-to-length sheets on demand in the future.

An efficiency and eco upgrade for your customer products







substantial fuel savings

better eco and CO₂ footprint during operation

economic cost reduction thanks to more durable wear parts

For example, our wear-resistant steels used on the tail lifts of garbage trucks last up to three times longer than conventional structural steel.

perdur® also offers new potential for lightweight construction with a lower dead weight for your customers' vehicles. A lower dead weight allows dumpers to transport more bulk materials per trip. This allows your customers to benefit from fuel savings that are also reflected in their ${\rm CO}_2$ balance.

perdur® helps to design vehicles that are both economical and ecologically sustainable. A road to a new level of innovation, on which we would like to accompany you as your ideal materials partner equipped with the necessary application know-how.







Available steel grades

perdur® family	overview		
	Material number	Special feature	Delivery form
Name of steel grade			
perdur® 400	1.8714	Guaranteed toughness ¹	Cut-to-length sheet
perdur® 450	1.8722	Guaranteed toughness ¹	Cut-to-length sheet

 $^{^{1}\}text{Notch}$ impact test at a temperature of minus 20 °C.

Available sizes

	Thickness [mm]	Maximum width [mm]
Name of steel grade		
Name of steel grade perdur® 400	4.0 – 8.0	1,500
		1,500 1,500

Length: minimum 2,000 mm, maximum 16,000 mm. Further sizes on request. $\label{eq:minimum}$

Mechanical properties

Test direction in direction of rolling, as-delivered condition: thermomechanically rolled with accelerated cooling Brinell hardness Impact energy Yield strength Tensile strength Elongation KV Min. [J] [HBW] KV Typ. [J] $R_{p0.2}$ typ. [MPa] R_m typ. [MPa] A typ. [%] at -20 °C at -40 °C Name of steel grade perdur® 400 370 - 43027 45 1,100 1,300 11 perdur® 450 27 40 1,200 1,450 10 420 - 480

Steel

thyssenkrupp Steel Europe AG Kaiser-Wilhelm-Strasse 100 47166 Duisburg, Germany P: +49 203 52 - 0 F: +49 203 52 - 25102 www.thyssenkrupp-steel.com info.steel@thyssenkrupp.com

Industry
P: +49 203 52 41048
info.industry@thyssenkrupp.com

Further information at www.bandblech.de

