



thyssenkrupp

perform[®]

strong yet formable steel

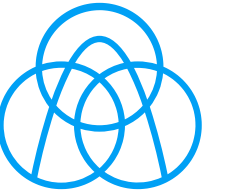




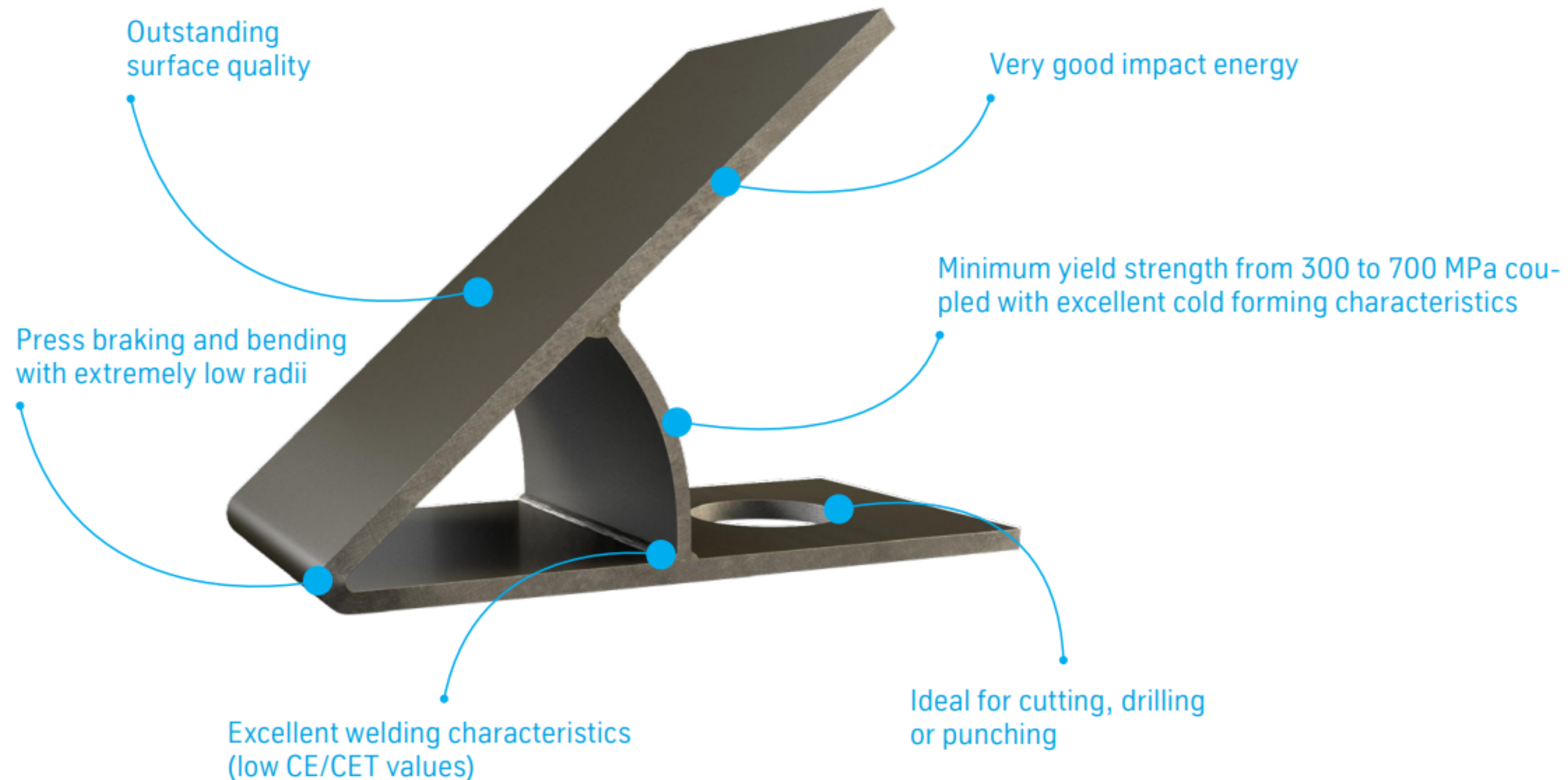
perform[®]: a sustainable product for strong performance.

Take advantage of the properties of perform steels from thyssenkrupp today to cut costs, resource consumption and environmental impact in the construction of special-purpose vehicles and trucks.

perform steels combine high strength with excellent cold forming characteristics, enabling weight reductions while offering you excellent perspectives for designing components with complex geometries.

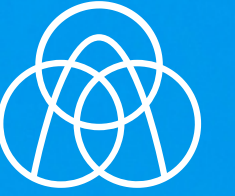


Opposites attract - perform[®] proves it every day with widely-divergent properties that improve your processes.



Modern technology often requires a combination of conflicting properties.

The development and use of cold forming steels provided solutions to numerous problems encountered in many structures.



perform[®] Application examples



Lifting platforms



Semi trailers



Craines

Available steel grades

Steel grade designation and delivery form

				Delivery form	
				Hot-rolled strip	Cut-to-length plate
Steel grade	Reference grade DIN EN 10149-2	Reference grade VDA 239-100	Material No.		
perform [®] 500	S500MC	HR500LA	1.0984	●	●
perform [®] 700	S700MC	HR700LA	1.8974	●	●

● Available

Technical characteristics

Mechanical properties - test direction longitudinal to railing direction, delivery condition: thermomechanically rolled, for all thickness

	Yield strength	Tensile strength	Elongation		Notch impact energy		Bend test, mandrel diameter
			A [%] min. L ₀ = 80 mm	L ₀ = 5.65 √S ₀			
	R _{eH} [MPa]	R _m [MPa]	Nominal thickness < 3.0 mm	≥ 3.0 mm	KV [J] at a test temperature of -20°C	KV [J] at a test temperature of -40°C	D [t = specimen thickness]
Stahlsorte							
perform [®] 500	500 - 690	550 - 700	12	14	40	27	1.0 t
perform [®] 700	700 - 880	750 - 930	10	12	40	27	2.0 t

Contact our specialists



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