

TATA STEEL



Ymagine[®]

Direct rolled steel for smarter manufacturing
consistent, strong, efficient.



WHAT IS YMAGINE[®]

A smart alternative to hot- and cold-rolled steel

Ymage is a direct-rolled steel, produced straight from the casting process without intermediate reheating. Thanks to its excellent workability and tight thickness tolerances, it offers a cost-effective alternative to

traditional hot-rolled and cold-rolled steel. Through tightly-controlled production processes, Ymage delivers consistent steel characteristics with homogeneous mechanical properties and chemical composition.



WHAT YMAGINE CAN DO FOR YOUR BUSINESS

Produced at our advanced Direct Sheet Plant (DSP), Ymagine delivers consistent quality and precision, ensuring smooth processing and maximum productivity in every batch.

Ymagine delivers clear advantages through consistent and reliable quality that ensures smooth processing, fewer interruptions and maximised productivity and yield. All coils are weld-free and supplied with trimmed edges only – supporting faster processing and additional time and cost efficiencies, which result in less waste and rework.

Produced in a continuous, direct-rolled process, Ymagine offers uniform mechanical properties and chemical composition throughout the entire coil, ensuring predictable performance in every batch.

Ymagine is compatible with all conventional welding methods, while the excellent surface quality and roughness ensure good results for post-treatments such as painting, galvanising and enamelling.

By improving process reliability and material consistency combined with tight thickness tolerances, Ymagine helps to reduce total cost of ownership – delivering more finished products per tonne of steel and increasing overall production efficiency.

KEY BENEFITS



Consistent, reliable end product quality



Faster and more efficient processing



Reduced waste and rework



Lightweight, high-strength Steel for smarter solutions



Excellent weldability and surface finish



Tight thickness tolerances for efficient processing



Higher yield per tonne of steel



Trimmed edges for time and cost efficiency

USING YMAGINE® IN APPLICATIONS

The Ymage range enables you to design more freely, reduce weight, cut costs and increase throughput – all without compromising on quality.

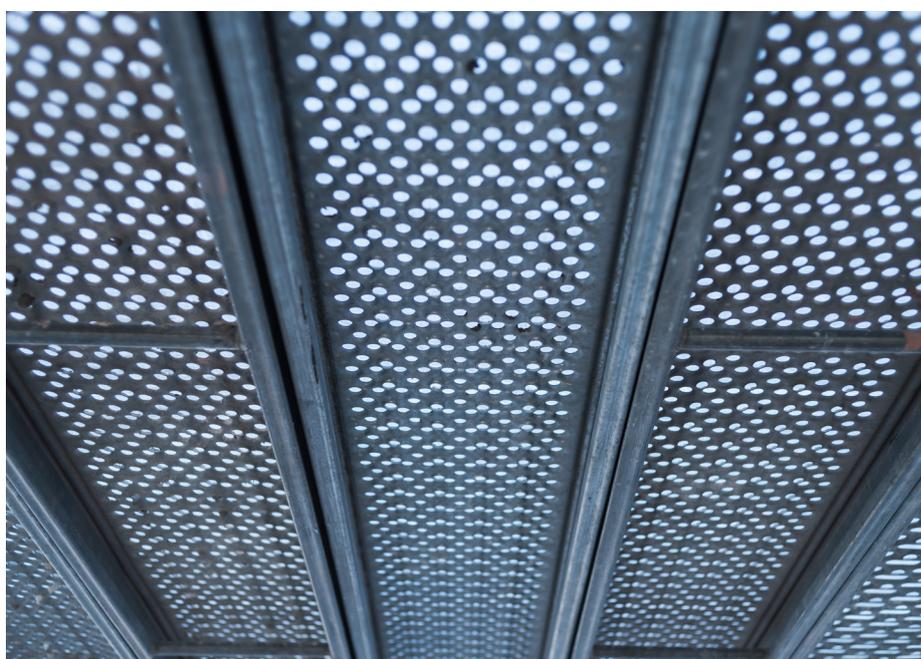
DOMESTIC INSTALLATION COMPONENTS

Ymage S1 is used in the fabrication of expansion vessels and hot water tanks. The tight thickness tolerances and excellent surface quality, suitable for enamelling, make this direct-rolled structural steel ideal for delivering repeatable and reliable performance, along with easy fabrication.

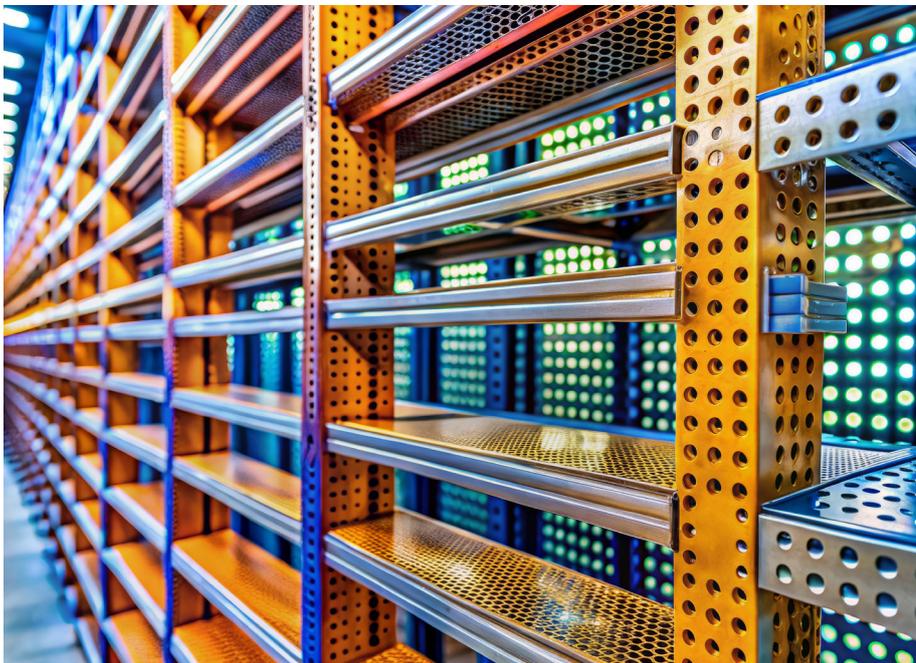


SCAFFOLDING COMPONENTS

Ymage S1 and H360 are used to fabricate light steel scaffolding floors. The surface of this pickled product, combined with its low thickness capability and high strength, makes the scaffolding floors lighter while still being fully suitable for batch galvanising.



PRODUCT RANGE	THICKNESS	WIDTH	PICKLED AND OILED
Drawing steel			
Ymagine D1 (DD11)	1.15 – 4 mm	1000 – 1530 mm	yes
Structural steel			
Ymagine 1 (S235JR+AR)	1.15 – 4 mm	1000 – 1530 mm	yes
High-strength low-alloy steels			
Ymagine H240	1.15 – 4 mm	1000 – 1530 mm	yes
Ymagine H320 (S315MC)	1.19 – 3 mm	1000 – 1530 mm	yes
Ymagine H360 (S355MC)	1.2 – 4 mm	1000 – 1530 mm	yes
Ymagine H420 (S420MC)	1.2 – 4 mm	1100 – 1530 mm	yes
Ymagine H500 (S500MC)	1.5 – 4 mm	1175 – 1450 mm	yes



RACKING COMPONENTS

Ymagine H360 is used to fabricate racking components, such as tubular or double-C profiles for stringers. The consistent quality and tight thickness tolerances of this direct-rolled HSLA steel help deliver repeatable and reliable performance, along with easy fabrication.



AUTOMOTIVE COMPONENTS

The Ymagine H500 grade is used to fabricate safety-critical seat track components for a wide range of passenger cars. The consistent quality and the tight thickness tolerances of this direct-rolled HSLA steel helps deliver repeatable and reliable performance, along with savings in both weight and cost.

SUSTAINABILITY

Ymagine® combines high performance with a lower environmental footprint. After casting, the material is rolled directly into coils, eliminating slab reheating and significantly reducing CO₂ emissions. The consistent quality of Ymagine steels helps you reduce waste, making it a more sustainable choice than conventional steels. Its high yield strength allows for a reduction in the amount of steel required for

end product manufacturing, which in turn reduces the consumption of raw materials and energy. Ymagine is also available with assured CO₂ reduction declarations as part of our Zeremis offering. Our steel is fully traceable and produced in accordance with ISO 14001 environmental standards. We operate under a class-leading safety framework across all processes.



CO₂ reduction



Lower material
use



Available with
Zeremis® solutions





MANUFACTURED WITH PRECISION

Backed by decades of expertise, the Ymagine range is produced with consistently tight dimensional tolerances at our advanced direct sheet plant (DSP) ensuring smooth processing and maximum productivity.

The surface roughness makes Ymagine compatible for post treatments like painting, galvanising and enamelling. Our high-speed pickling line ensures fast and efficient response to your needs.



PARTNERSHIP BUILT ON EXPERTISE

We believe in true partnership. Backed by decades of experience in steelmaking and innovation, our technical engineers and scientists are available to support you and your customers. Combining in-depth expertise with innovative thinking, they help you solve complex challenges, optimise productivity and enhance product performance.

Let's develop tailored solutions that meet your specific needs and make your operations more efficient – together.



TATA STEEL NEDERLAND

Tata Steel Nederland is one of Europe's largest steel producers and a cornerstone of Dutch industry. Our steel is found in buildings, cars, packaging and machinery. We operate production sites in the Netherlands, the United States, Belgium, Germany and other parts of Europe, and are part of the global Tata Steel Group - one of the world's leading steel companies.

We are on our way to producing climate-neutral steel by 2045 – cleaner steel made without coal. Innovation and continuous improvement are at the heart of our performance culture. We aim to create value by offering a sustainable and high-quality product range, supported by unrivalled customer service.

CONTACT US

Ready to improve your production?

Speak with our team today and discover what Ymagine® can do for you.

Contact your Tata Steel representative or email connect.engineering@tatasteel.eu or consult products.tatasteel.nl

www.tatasteelnederland.com

While care has been taken to ensure that the information contained in this publication is accurate, neither Tata Steel, nor its subsidiaries, accept responsibility or liability for errors or for information which is found to be misleading.

Before using products or services supplied or manufactured by Tata Steel and its subsidiaries, customers should satisfy themselves as to their suitability.



Scan the latest product information

Copyright
Tata Steel IJmuiden B.V.

Tata Steel Nederland

Wenckebachstraat 1
1951 JZ Velsen-Noord
The Netherlands

E: connect.engineering@tatasteeeurope.com
products.tatasteelnederland.com

E0045:EN:PDF:0326

Tata Steel Nederland B.V. is registered in the Netherlands under number 34005278 with registered office at Wenckebachstraat 1, 1951 JZ Velsen-Noord.