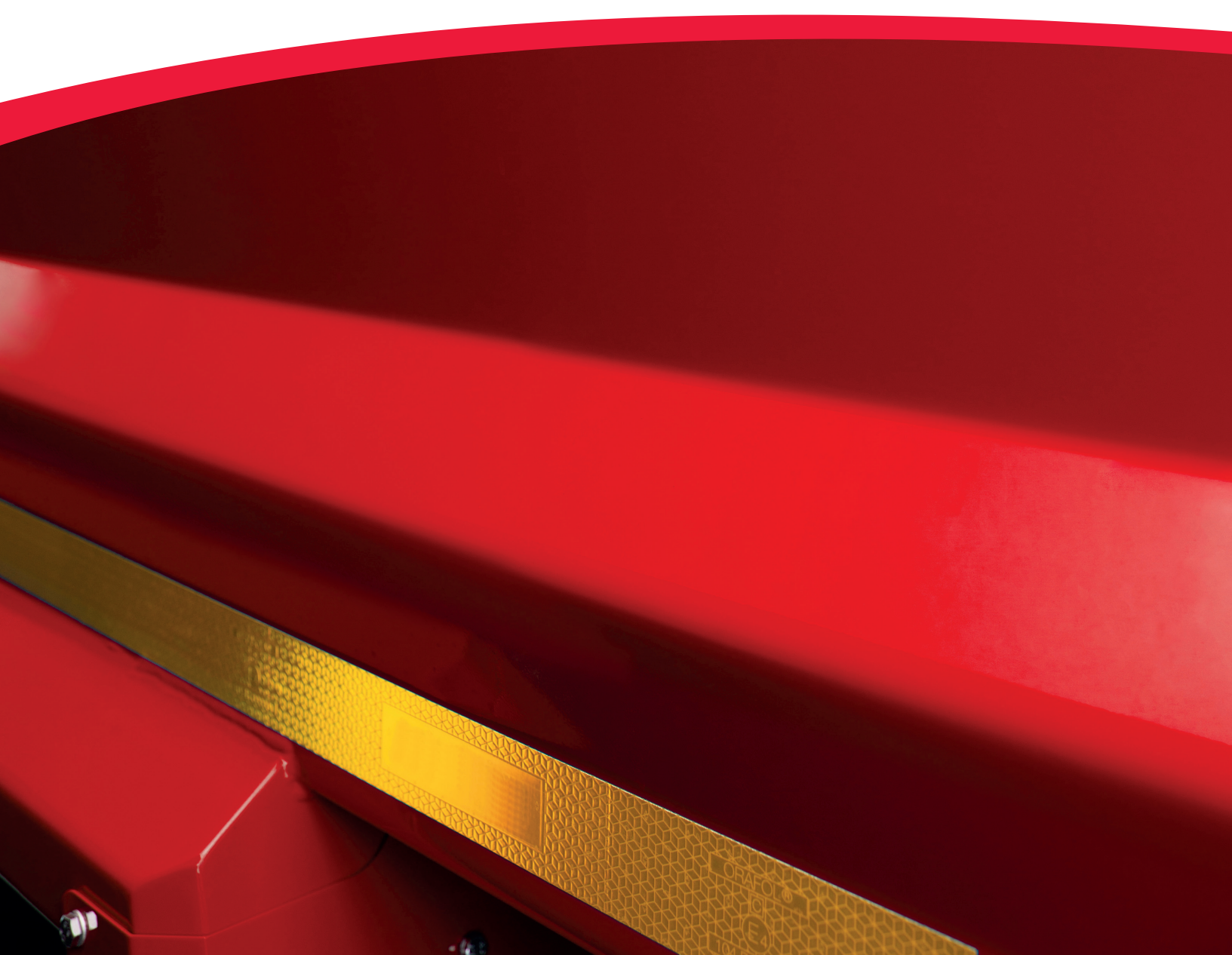


TATA STEEL



Valast®

Abrasion resistant steel for long-lasting performance



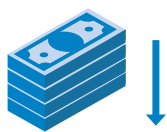
High endurance steel sheet with lasting quality

Efficient and reliable abrasion resistant steel sheet withstands harsh wear and tear whilst maintaining lasting quality – even in the most demanding environments. Valast® delivers processing efficiencies through extra wide strip dimensions, consistent flatness and world class surface quality.

Available in 450 Brinell hardness, Valast is brought to you through a robust local supply chain offering reduced lead times and customized sheet lengths.



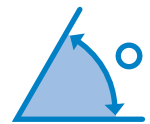
Longer lasting with guaranteed impact toughness



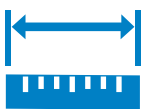
Consistent high quality strip production process, delivering cost efficiency



Wider (81 inch) than alternative strip products



Consistent dimensional tolerances and flatness



Coil can be cut to any length



Outstanding service and technical know-how of Tata Steel



Local supply on demand



High quality finish

Stand-out performance, from a source you can trust

Based on decades of steel know-how and extensive application knowledge, we have developed Valast abrasion resistant steel. Designed specifically for use in construction, mining and agriculture equipment. You can rely on Valast to keep performing in the toughest conditions.

Reliable quality, together with the widest abrasion resistant strip dimensions on the market, result in multiple benefits for your processing operations – with scope to boost yield and cut waste. Thoroughly tested, fully accredited and available only via a proven supply chain, Valast gives you extra value.

Key properties

- Valast is harder and longer lasting than structural steel – with a typical hardness of 450 HBW (Valast 450)
- Valast offers consistent dimensional tolerances and flatness
- As a hot-rolled strip product Valast offers superior surface quality when compared with reversing mill plate in 'as rolled' condition
- Valast is available in extra wide strip dimensions (81 inch) and customized lengths
- Valast offers guaranteed impact toughness as standard



Why Valast®?

1. Efficiency, from processing to end use

Our high quality production of extra wide, reliable strip, coupled with a robust supply chain, make us a dependable partner. With extra width when compared to other abrasion resistant strip, and weight savings when compared to structural steel, our Valast products can help deliver:

- increased manufacturing efficiency
- reduced waste
- improved end product performance

2. Made to match your needs

Valast grades are manufactured to exacting standards to ensure the consistent flatness and dimensional tolerances that you need.

Our flexible service is designed to meet your specific requirements and offers:

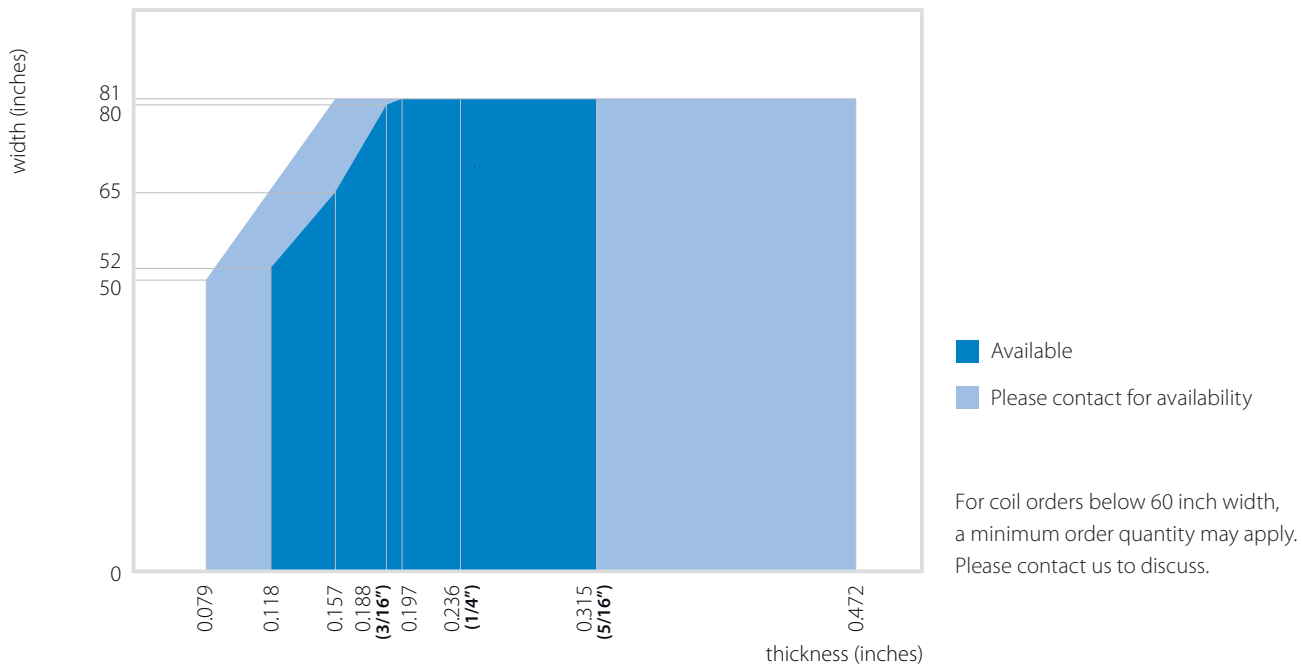
- local supply of customized lengths on demand
- support from technical experts with comprehensive application know-how

3. Enduring quality

You can be confident in the lasting quality of our Valast products. Proven abrasion resistance in 450 Brinell hardness, combined with a world-class surface finish, deliver:

- a high endurance steel that withstands wear and tear
- the perfect base for outstanding aesthetics

Dimensional window of Valast® 450





Value for both customers and end users

Valast provides scope for improved end product performance and brand reinforcement. It can also help you to increase yield, save on processing and minimize waste.

Through investment in our hot strip mill, we have built robust production capacity and a reliable supply chain delivering end-to-end cost efficiencies for customers and end users.

Improved end products

Valast is a consistent, high quality abrasion resistant steel that is harder and longer lasting than structural steel. It also offers a world-class surface finish. Used in your products, Valast steels can help deliver:

- lighter, more fuel-efficient vehicles
- extended operational life
- reduced maintenance costs
- an ideal surface for outstanding aesthetics

Increased manufacturing efficiency

Valast is available in the widest abrasion resistant strip dimensions on the market, with sheets also supplied in customized lengths. This offers opportunity for:

- improved nesting yield
- reduced welding requirements
- minimized waste

The consistent flatness, tight dimensional tolerances and surface quality of Valast products enable:

- repeatable processing
- minimized part rejection rate
- increased yield
- potential for reducing shot blasting and pre-painting requirements

Local supply on demand, through carefully selected channel partners, means:

- a flexible local service to match your needs
- reduced lead times for cut-to-length sheets

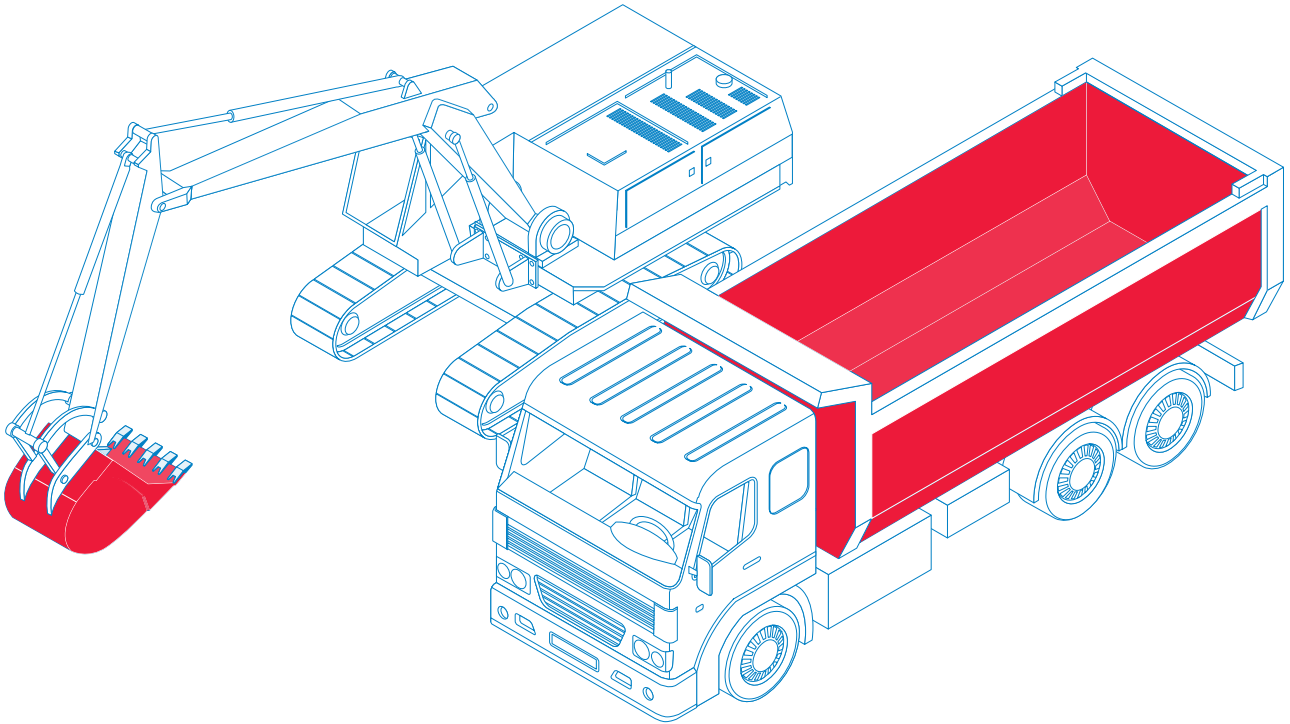
Made to last

450 Brinell hardness ensures the lasting performance of Valast® – even in the toughest conditions

Arduous operating scenarios are the norm for construction, mining and agriculture equipment. Rigorous duty cycles and tough working environments, often in challenging terrain, demand strong, high endurance steel.

Steel hardness is vital to the development of high performance, abrasion resistant steel. Typically used in tipper bodies, dump trucks, asphalt pavers, chutes, garbage trucks, containers, excavator buckets and many more applications, this steel must withstand

severe wear and tear to extend their operational life and minimize repair and replacement costs. At Tata Steel, we invested in a research and development programme to ensure a low CET of less than 0.33 in our Valast steel to ensure all conventional welding methods can be used. Using ASTM G65 Standard - Dry Sand/Rubber Wheel (DSRW) Abrasive Wear Testing in fixed lab conditions, Tata Steel have found that the abrasion resistance of Valast 450 is up to 2.5 times greater than Grade 50 structural steel.



Valast 450 steel is harder than structural steel grades e.g. Grade 50 and the abrasion resistance is up to 2.5 times greater.



Supporting our customers

Our technical experts are always on hand to help you gain maximum advantage from Valast steels

Product quality and local, flexible service are matched by our commitment to working in partnership with you – helping you to get the best from Valast. Our knowledgeable and proactive customer technical services team offers technical consultancy and practical, hands-on support.

Decades of experience in supplying construction equipment, mining, and agriculture sectors means that we have a deep understanding of what customers require from our products. Using our steel know-how and application knowledge, we have worked closely with global brands to help them take advantage of our steel in their products to:

- maximize payload
- improve fuel efficiency
- save weight
- reduce component count
- boost production output
- increase the lifetime

Our tailored product and process solutions are backed by world-class research and development facilities.

Tata Steel

Tata Steel Group is one of the world's most geographically diversified steel producers, with operations in 26 countries and commercial offices in over 50 countries. In Europe, we are one of the largest steel producers. We serve many different and demanding markets worldwide including Automotive, Packaging, Engineering and Construction.

Our approach to business is unique. We focus on market sectors to allow us to better recognize the individual needs of our customers. We believe our strength is in how we build collaborative relationships that create new success for our customers, adding value to their business and helping them to perform in their markets.

Discover what Valast can do for you

Valast offers consistent quality for long-lasting performance and multiple processing benefits.

For more information and to discuss how Valast steels could help improve your manufacturing efficiency and end products, please contact us.

www.tatasteeleurope.com

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