

HX500LAD

High strength hot-dip galvanised steel

HX500LAD is an extension to Tata Steel's hot-dip galvanised (HDG) high-strength low-alloy steel family.

It offers designers the possibility to down gauge complex components, without losing the required structural integrity by combines high strength with high formability.

Typical applications:

This high-strength metallic coated product is used for a range of applications, including: seat belts, containers and profiles in trailers.

Benefits:

The application of this product allows customers to exploit a range of associated benefits, including:

- Excellent strength/weight ratio
- Good formability suitable for most rolled formed sections
- Associated environmental benefits including improved carbon foot-print

Mechanical properties (EN 10346:2009)

Grade	R _{p0,2} (N/mm ²)	R _m (N/mm ²)	A ₈₀ (%)
	Min	Min	Min
HX500LAD	500-620	530-690	13

Note:

1. Values are based on test pieces taken in the transverse direction

Chemical analysis (EN10346:2009)

Grade	C	Si	Mn	P	S	Al _{tot}	Nb	Ti
	Max	Max	Max	Max	Max	Min	Max	Max
HX500LAD	0,15	0,5	1,7	0,03	0,025	≥0,015	0,09	0,15

Note:

Values provided in mass percentages

Dimensions

Thickness (mm)		Width (mm)	
		Min	Max
≥	<		
1,80	2,10	1000	1100
2,10	2,30	1000	1310
2,30	3,00	1000	1430

Note:

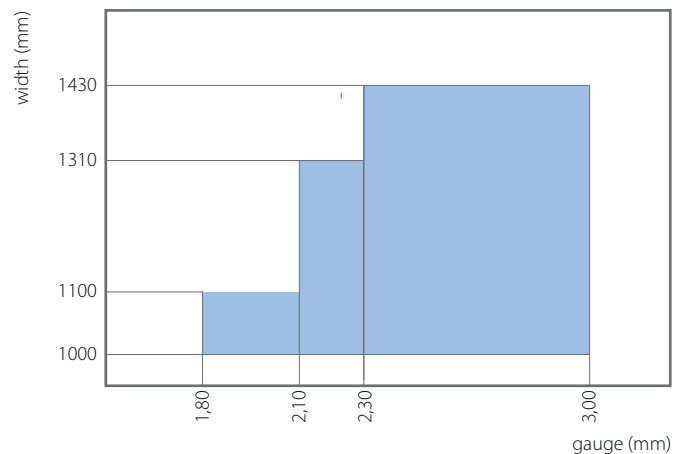
For other dimensions please contact Tata Steel

Dimensional tolerances against EN 10143: 2006

	Tolerances
Thickness	Normal, special
Width	Normal

Note:

For other tolerances please contact Tata Steel



Surface treatment

Products can be supplied with an oiled or a chemical passivated surface.

Technical support

By working in partnership with you, we find the best solutions to meet your needs and help your business to perform. Our technical services team is available at short notice to assist you and your customers. These skilled engineers can apply their knowledge of steel and its application helping customers optimise productivity, efficiency and product performance.

Customers can also take advantage of our research and development resources. Our scientists and technical experts can help resolve complex engineering issues and assist in the development of innovative products.



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NLISLT:09/2013

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