

1. BASIC DATA

Document data

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Changes relates to:

New description

Stainless steel sheet - 1.4404

Article name:

Stainless steel sheet - 1.4404

Article No/ID concept

Article identity: GTIN

1.4404, RF-D

Product group/Product group classification

Product group system	Product group id
BK04	01505
BSAB96	HSB

Article description:

Stainless steel sheet 1.4404 acid-proof (X2CrNiMo17-12-2). 1.4404 is a molybdenum alloyed acid-resistant stainless steel. The corrosion resistance is very good to general corrosion and pitting. Assessments at SundaHus and Byggvarubedömningen etc. are registered under the name "Rostfri stålplåt 1.4404". It is also possible to use the article name as search criteria.

Declarations of performance:

Not applicable

Declaration of performance number:

Other information:

Lindab Sverige AB

Company name:

Lindab Sverige AB

Organisation number:

556247-2273

Address:

Contact person:

Järnvägsgatan 41

Matilda Isaksson

E-mail:
matilda.isaksson@lindab.com

Telephone:
+46 72 353 44 61

VAT number:
SE556247227301

Website:
www.lindab.se

GLN:

DUNS:

Environmental certification system

- BREEAM BREEAM-SE LEED 2009 LEED version 4 Miljöbyggnad (Swedish certifica

References

Reference
The International Stainless Steel Forum (ISSF), <http://www.worldstainless.org/>, 2017-02
Carbon Footprint study for Lindab produkts performed by WSP 2010
Jernkontoret, Hälsospekter, <http://www.jernkontoret.se/>, 2017-02

Annexes

Annex
https://itsolution.lindab.com/LindabWebProductsDoc/PDF/Documentation/ADS/Lindab/Building_product_Declarations/Attachment/Miljointyg_Oresundskr

2. SUSTAINABILITY WORK

Company's certification

- ISO 9001 ISO 14001

Other:

Policies and guidelines

- The company has a code of conduct/policy/guidelines for dealing with social responsibility in the supplier chain, including produces for ensuring the requirements
 This is third-party audited

If yes, which if the following guidelines have you affiliated to or management system you have implemented

- UN guiding principles for companies and human rights
 ILO's eight core conventions
 OECD Guidelines for Multinational Enterprises
 UN Global Compact
 ISO 26000

Other policy guidelines

Management system

If you have a management system for corporate social responsibility, what out of the following is included in the work?

The data provider is solely responsible for data on articles/products that have been registered in the database. The data provider and the Swedish Association of Construction Product Industries cannot be held responsible for correct information incorrectly entered into the database.

- Mapping
- Risk analysis
- Action plan
- Monitoring

Sustainability reporting guidelines:

GRI - Global Reporting Initiative

3. DECLARATION OF CONTENTS

Chemical content

Enter chemical content for the whole article. The concentration is calculated at component level according to the principle of “once an article always an article”.

Is there a safety data sheet for the article?

Not applicable

Is there classification of the article?

Not applicable

Enter which version of the candidate list has been used (Year, month, day)

For complex products, the concentration of included substances has been calculated at:

whole construction product

The article is covered by the RoHS Directive:

No

Enter the weight of the article:

Enter how large a proportion of the material content has been declared [%]:

100

If the article contains nanomaterials deliberately added to obtain a particular function, enter these here:

The product does not contain deliberately added nanomaterial

Is the article registered in Basta?

Enter the proportion of volatile organic substances [g/litre], applies only to sealants, paints, varnishes and adhesives:

Yes

Other information:

Article and/or sub-components

Phase	Delivery				
Component	Stainless steel	Weight% of product			
Comment	Manufactured according to Standard: - SS EN 1088:2005 Homogeneous material emits no harmful substances in normal use. Stainless steel contains nickel but elicits generally not a nickel allergy. This is because the nickel is not emitted because it is so hard bounded in the steel.				
Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
Stainless steel	Stainless steel	=100	1.4404 / AISI 316L	<input type="checkbox"/>	<input type="checkbox"/>

4. RAW MATERIALS

Raw materials

Component	Material	Transport type
	Steel	Ship
Country of raw material extraction		City of raw material extraction
Sweden		Kiruna
Country of manufacture/production		City of manufacture/production
Comment		
The steel raw material is produced at different smelting plants, mainly in the EU, according to the detailed specification of the current standard. The sheet dimensions are then adjusted at the production unit in Grevie.		

Total recycled material in the article

<input checked="" type="checkbox"/>	Is recycled material included in the article?
-------------------------------------	---

Material		
Steel		
Proportion after the consumer stage	Proportion before the consumer stage	Weight/percent by weight
74,7	25,3	75 %
Comment		
About 75% recycled material are being used in the production of stainless steel.		

Renewable material

Enter proportion of renewable material in the article (short cycle, less than 10 years):

0

Enter proportion of renewable material in the article (long cycle, more than 10 years):

0

Included biobased raw material is tested according to ASTM test method D6866:

Is there supporting documentation for the raw materials for third-party certified system for control of origin, raw material extraction, manufacturing or recycling processes or similar (for example BES 6001:2008, EMS certificate, USGBC Program)? If yes, enter system(s):

No

Wood raw materials

Wood raw materials are included

Included wood raw material is certified

How large a proportion is certified [%]?

What certification system has been used (for example FSC, CSA, SFI with CoC, PEFC)?

Reference number:

Enter logging country for the wood raw material and that following criteria have been met. Country of logging:

Does not contain type of wood or origin in CITES appendix of endangered species

The timber has been logged legally and there is certification for this

5. ENVIRONMENTAL IMPACT

Environmental impact during life cycle of the article, production phase module A1-A3 under EN

Has environmental product declaration been drawn up according to EN 15804 or ISO 14025 for the article?

These product-specific rules, known as PCR, have been applied:

[Redacted]

Registration number / ID number for EPD:

[Redacted]

Climate impact (GWP100) [kg CO₂-eq]:

[Redacted]

Ozone depletion (ODP) [kg CFC 11-eq]:

[Redacted]

Acidification (AP) [kg SO₂-eq]:

[Redacted]

Ground-level ozone (POCP) [kg ethene-eq]:

[Redacted]

Eutrophication (EP) [kg (PO₄)-3-eq]:

[Redacted]

Renewable energy [MJ]:

[Redacted]

Non-renewable energy [MJ]:

[Redacted]

If calculation has been made in Green Guide, enter which rating:

[Redacted]

If there is environmental product declaration or other life cycle assessment, describe how the environmental impact of the article is taken into account from a life cycle perspective:

The information refer to "gate to gate", inflows (raw materials, inputs, energy, etc.) for the registered product into the manufacturing unit, and outflows (emissions and waste) from it and relates to unit of product 1 kg.

Country of final manufacture: Sweden

Energy used in the manufacture of the product: electricity <0,01 kWh. From 2017, all units in Sweden only uses electricity from renewable sources. See attached file.

Transport: <98% truck, deliveries to the customer/branch, <1% electric forklift, partially replaced shipments with diesel trucks, <1% diesel forklift, heavier internal transports. Climate impact from internal transports: CO₂ 0,0025 kg, CH₄ <0,0001 kg and N₂O <0,0001 kg.

Emissions to air, water or soil from the manufacture of the product, climate impact from operations: carbon dioxide equivalents (CO₂-e) ≈ 0,02 kg (includes energy/waste/scrap/travels). The production itself causes no emissions to air, water or land.

Residual products from the manufacture of the product: 2,2% stainless steel scrap, 100% is recycled, waste code 17 04 05. All waste is taken care of by carrier with the necessary permits. No waste is exported.

For information about raw materials, distribution, waste etc., see the other sections.

6. DISTRIBUTION

Distribution of finished article

Does the supplier use Retursystem Byggpall?

Yes

Does the supplier apply any system with multiple-use packaging for the article?

No

Does the supplier take back packaging for the article?

No

Is the supplier affiliated to a system for product responsibility for packaging?

Yes

If yes, which packaging and which system?

Förpacknings & Tidningsinsamlingen

Other information:

The packaging consists of wood, paper, soft plastics and steel and plastic strapping. All packaging consists of recyclable material. Wooden pallets are being reused. Shipments of manufactured goods are mainly transported by truck to the customer/branch.

7. CONSTRUCTION PHASE

Construction phase

Does the article make special requirements in storage?

Yes

Specify

The sheet shall be stored in temperate premises without being exposed to excessive moisture. No outdoor storage as long as the sheets are coiled or stacked without free airflow. Handle with care. Avoid collisions when sheets for large value can be damaged. Large risk of injuries as the products are heavy and can fall over.

Does the article make special requirements for surrounding building products?

No

Specify

Other information:

8. USE PHASE

Use phase

Does the article make requirements for input materials for operation and maintenance?

No

Specify:

Does the article require supply of energy during operation?

No

Specify:

Estimated technical service life for the article:

>50 years

Comment:

Lifetime depends on the environment where the sheet is being used. Corrosive environments can affect the life of the product negatively. See Lindab's product catalogue for more information.

Is there energy labelling under the Energy Labelling Directive (2010/30/EU) for the article?

If yes, enter labelling (G to A, A+, A++, A+++):

Not applicable

Other information:

9. DEMOLITION

Demolition

Is the article prepared for disassembly (dismantling)?

Not applicable

Specify:

Does the article require special measures for protection of health and environment in demolition/disassembly?

No

Specify:

Other information:

The product only consists of stainless steel and do not need to be disassembled for recycling. The steel is easily separated during demolition.

10. WASTE MANAGEMENT

Delivered article

Is the supplied article covered by the Ordinance (2014:1075) on producer responsibility for electrical and electronic products when it becomes waste?

No

Is reuse possible for the whole or parts of the article when it becomes waste?

No

Specify:

Not normally suitable. The product is used as raw material in the production of other goods and therefore not applicable for reuse.

Is material recovery possible for the whole or parts of the article when it becomes waste?

Yes

Specify:

~99% of the material can be recycled

Is energy recovery possible for the whole or parts of the article when it becomes waste?

Yes

Specify:

Heat recovery occurs at smelter.

Does the supplier have restrictions and recommendation for re-use, material or energy recovery or landfilling?

Yes

Specify:

Should be recycled.

Waste code for the delivered article when it becomes waste

170405 - 05 Järn och stål.

When the supplied article becomes waste, is it classified as hazardous waste?

No

Mounted article

Is the mounted article classified as hazardous waste?

No

Other information

11. INDOOR ENVIRONMENT

Indoor environment

The article is not intended for indoor use

The article does not produce any emissions

Emissions from the article not measured

Does the article have a critical moisture state?

No

If yes, state what:

Noise

Can the article give rise to own noise?

No

Value:

Unit:

Measuring method:

Electrical field

Can the article give rise to electrical fields?

No

Value:

Unit:

Measuring method:

Magnetic fields

Can the article give rise to magnetic fields?

No

Value:

Unit:

Measuring method:

Paints and varnishes

The article is resistant to fungi and algae in use in wet areas

Emissions

The article produces the following emissions in intended use:

Other information