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<b>Environmental work</b>	The company subject to the Swedish Environmental Act and fulfils the current conditions. Listed in REPA-Registret AB. Fulfils the stipulations for internal controls in accordance with AFS 1996:6. Certified management systems in accordance with ISO 9001 and ISO 14001.		

## Lindab Construline

### Statement of contents

Continuously hot-dip zinc coated steel in accordance with SS-EN 10142 or SS-EN 10147.

### 1 Component materials

#### Raw materials

Steel  
The amount of zinc and chrome depends on the size of the sheet metal and is defined as weight/m<sup>2</sup>

#### Additives

Vegetable-based emulsion lubricant and metalworking oil.

The above additives are small quantities only (<5% of the total raw materials) and vary depending on the product and size.

#### Recycled material<sup>1,2</sup>

On average, the sheet metal consists of 20% recycled scrap metal.

#### Origin of raw material

The sheet metal is mainly purchased from steel mills within the EU.

### 2 Production

#### Energy

Electrical energy is used in the processing of the product. Natural gas is used for heating of the premises. Bottled gas is used for internal transport.

#### Emissions to water

None

#### Emissions to air

None except for small quantities of solvents from the emulsion lubricant and metalworking oil in connection with rolling.

### 3 Distribution of finished products

#### Production site

Förlöv, Municipality of Båstad, Sweden.

#### Means of transport

The products are primarily distributed to customers by truck.

#### Packaging

The following types of materials are used in packaging:

Packaging	Materials included	Recyclable	Reuseable
Boards	Wood	x	x
Blocks	Wood	x	x
Dividers	Hardboard	x	x
Bands	PP plastic	x	-
Bands	Steel	x	-
Corner guards	Steel	x	-

### 4 During construction

No environmental impact.  
Made-to-measure lengths eliminate scrap at the construction site.

### 5 During use

No environmental impact.  
Steel-frame buildings have a very long lifetime. Properly maintained, galvanized steel does not rust. Designed for >60 years. The lifetime of the product is highly dependent on where it is used.  
Waste of energy is prevented through slotted steel studs.

### 6 Demolition

Steel constructions are easy to take apart. Thanks to standardized sizes, they are easy to identify and reuse.

### 7 Waste

Steel is separated magnetically and recycled as scrap metal. Scrap steel has a high market value and collection systems are well established. The product is melted down and 95-98% is recycled. The zinc is also separated from the product by a heating process where the zinc is vaporized and collected.

### 8 Indoor environment

The high degree of prefabrication of the products means a good, clean working environment with little heavy lifting. Contact with the sheet metal is not harmful during normal handling. The surface of the sheet metal is however covered with a protective chromate layer. Be careful with the handhygiene after contact with the sheet metal. Avoid inhalation of grinding dust when the sheet metal is cut. If the sheet metal is heated through welding or by fire, zinc oxide evaporates. It is therefore important to avoid inhalation of the smoke. Steel does not absorb moisture and thus does not give rise to mold, nor does it emit hazardous substances. The use of electrical devices in the home is growing. Grounding / earthing the steel framework effectively screens electrical fields.

### References

<sup>1</sup> SSAB (Aug 1998) *Environmental Declaration for Galvanized Sheet Metal*.

<sup>2</sup> Borg (1997) *Life-Cycle Assessement of Three Construction Materials*, Swedish Royal Institute of Technology, TRITA-BYMA 1997:1E