

Appendix 22 Declaration form AI0022 - Producer of steel

To be used in conjunction with an application for a licence for the Nordic Swan Ecolabel of furniture and fitments.

This declaration is used by the **producer of steel** for Nordic Swan Ecolabelled Furniture and fitments.

The following is **not** covered in this declaration:

- Small parts consisting of metal and weighing less than 100 grams are exempted from the areas subject to declaration in this declaration.

General information

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|---|
| Please state name/trade name and steel grade the steel: |
| Name of the manufacturer/supplier of the steel: |

| O80 Production of steel | | |
|---|--------------------------|--------------------------|
| <p>This requirement can be met by documenting either A) or B):</p> <p>A) High proportion recycled A minimum of 75 wt. % of the steel must be recycled. Recycled steel is defined as both pre- and post-consumer, according to definitions in ISO 14021.</p> <p>B) Virgin steel production The requirement can be verified using either: direct traceability through the supply chain, mass balance approach* or by all major suppliers**.</p> <p><i>* In case of several potential steel producers, the supplier of the metal components can verify the requirement by using a mass balance approach if there is an account documenting the annual volumes purchased from the individuals steel producers. The volumes must correspond to volumes sold to the producer of Nordic Swan Ecolabelled product (e.g., cannot sell a larger volume than the corresponding quantity purchased from the individual steel producers).</i></p> <p><i>*** All major suppliers are compliant with one of the 3 alternatives. Major suppliers are here defined as suppliers delivering 75% of the total volume (w/w) of steel components in the Nordic Swan Ecolabelled product.</i></p> <p>The virgin steel production can be declared by point 1, 2 or 3 in alternative B.</p> | | |
| | A | B |
| Do you wish to declare in accordance with alternative A or B? | <input type="checkbox"/> | <input type="checkbox"/> |

| A) High proportion recycled |
|---|
| <p>A minimum of 75% by weight of the steel must be recycled.</p> <p><i>Recycled steel is defined as both pre- and post-consumer, according to definitions in ISO 14021.</i></p> |
| <p>Please state the proportion of recycled steel in the item (wt.%):</p> <p><i>The annual average for the plant(s)/smelter(s) is approved.</i></p> |
| <p>Please attach:</p> |

- eBVD or EPD based on product-specific data/data from the steel producer's own production specifically stating the content of recycled steel in the product.
- Other production specific calculation of the recycled steel content.

B) Virgin steel production

The virgin steel production can be declared by 3 alternatives.

- 1) Steel produces from traditional methods
- 2) Steel production - Responsible steel certified production site
- 3) Steel production base on new technologies with reduced greenhouse gas emissions

| | 1 | 2 | 3 |
|--|--------------------------|--------------------------|--------------------------|
| Do you wish to declare in accordance with alternative 1, 2 or 3? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

B) alternative 1, steel produced from traditional methods

Steel used in the Nordic Swan Ecolabelled product comes from a steel producer who:

- has implemented at least 2 of the energy efficiency measures stated as BAT in the BREF document for iron and steel production (2013 or later version) - see table below and
- has an active sustainability strategy focusing on reducing energy consumption and greenhouse gas emissions. The strategy for reducing energy consumption and greenhouse gas emissions shall be quantitative and time-based, and they shall be determined by the company management.

Measures for efficient energy consumption in steel production

| | |
|----------------|---|
| Blast furnaces | BAT is to maintain a smooth, continuous operation of the blast furnace at a steady state to minimise releases and to reduce the likelihood of burden slips. BAT is to use the extracted blast furnace gas as a fuel. BAT is to recover the energy of top blast furnace gas pressure where sufficient top gas pressure and low alkali concentrations are present. |
| BOF | 1) BAT is to collect, clean and buffer BOF gas for subsequent use as a fuel. 2) BAT is to reduce energy consumption by using ladle-lid systems. 3) BAT is to optimise the process and reduce energy consumption by using a direct tapping process after blowing 4) BAT is to reduce energy consumption by using continuous near net shape strip casting, if the quality and the product mix of the produced steel grades justify it. |

Please state which 2 (or more) BATs in the table above have been implemented and how:

Please describe your strategy to reduce energy consumption and how the strategy is quantitative and time-based:

Please describe your strategy to reduce greenhouse gas emissions and how the strategy is quantitative and time-based:

Please describe where (what page) the information can be found in the documentation you have attached:

B) alternative 2, Steel production base on new technologies with reduced greenhouse gas emissions

A minimum of 50% by weight of the steel used in the Nordic Swan Ecolabelled product comes from a production site that are certified according to the standard Responsible Steel³, version 1.0, 2019 or later versions.

Please attach

- Valid Responsible Steel certificate from the steel producer
- or
- Information from the supplier/manufacturer of the constituent steel part about which metal parts are from certified metal production (purchase records).
 - Information from the supplier/manufacturer of the constituent steel parts on type of traceability used to document the requirement.

B) alternative 3, Steel production - Responsible steel certified production site

Steel used in the Nordic Swan Ecolabelled product comes from steel production sites that have implemented one of the following technologies:

- blast furnace top gas recycling with carbon capture and storage
- direct smelting reduction processes
- hydrogen steelmaking in shaft furnaces using green H₂
- direct electrolysis of iron ore

Please state which technologies have been implemented:

Please briefly describe the implemented technologies:

Please state the type of traceability used to document the requirement:

Manufacture's signature

| | |
|---------------------|----------------------------------|
| Place and date: | Company name: |
| Responsible person: | Signature of responsible person: |
| Phone: | Mail: |

³ Overview of certified steel producers, <https://www.responsiblesteel.org/certification/issued-certificates/>