Carbon Footprint of Products
CFP Declaration
Registration number： JR-AJ-20005C

Ecoleaf Environmental Labeling Program
Sustainable Management Promotion Organization
2-1, Kaji-cho 2 chome, Chiyoda-ku, Tokyo Japan
https://ecoleaf-label.jp/

Yamato Steel Co.,Ltd.

Patterned H-Beams

Functional unit

1t

System boundary

☐ final products ■intermediate products

Production Stage and optional supplementary infomation

Main specifications of the product

Production sites ： Head office (Himeji)

Main standards ：

YHS-SS400,YHS-SN400B,YHS-SM490A,YHS-SN490B

Main sizes(unit:mm,t:thickness)

H150(t7)×B150(t10)～H912(t18)×B302(t34)

Company Information

Yamato Steel Co., Ltd.

http://www.yamatokogyo.co.jp/steel/

Registration#	JR-AJ-20005C
PCR number	PA-180000-AJ-03
PCR name	Steel products for construction
Publication date	8/23/2020
Verification date	7/31/2020
Verification method	Product-by-product
Verification#	JV-AJ-20005
Expiration date	7/30/2025

PCR review was conducted by:

Approval date	10/1/2019
PCR review panel chair	Yasunari Matsuno (Chiba University)

Third party verifier*

Tomoko Fuchigami

Independent verification of data & declaration in accordance with ISO/TS14067

☐internal ■external

*Auditor's name is stated if system certification has been performed.

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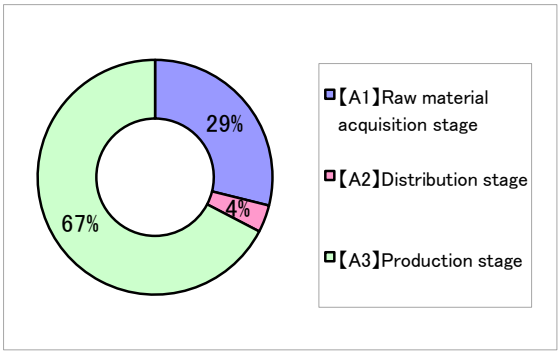
1. Quantification results, and contents of the declaration

CFP quantification unit :

Parameter			Unit
CFP Quantification result		**660**	**kg-CO_2eq**
Breakdown	【A1】Raw material acquisition stage	190	kg-CO_2eq
	【A2】Distribution stage	25	kg-CO_2eq
	【A3】Production stage	440	kg-CO_2eq
	【D】scrup recycling effect for steel products	250	kg-CO2eq
Value on CFP mark		**660**	**kg-CO_2eq**
Unit for the value on CFP mark		**1t**	

*Quantification results may slightly differ from the sum of the breakdown due to rounding of fractions.

2. Additional information



①The recycling effect is calculated with the following totals.One is load accompanied with the scrap injection to the product production site.It is the credit accompanied with the scrap collection of the used steel product one more.
②Recycling rate(RR) of this EPD is 93.1%(the average of Japan in 2014).
③Transport to site scienario is based on PCR.

3. Supplementary environmental information

Manufactured at ISO 14001 certified factories.

Manufactured at medical waste disposal certified factories.

4. Interpretation

By this evaluation, the CO2 emission at the [A3]stage of production became 80% degree and the dominant contribution degree. At the [A3]stage of production, The electric energy to use in the electric furnace, the electric energy and the burning of city gas to use in the rolling process were main discharge sources. Then, [A1]stage had a big contribution degree. At the [A1] stage, sub-raw materials production was a main discharge source. But this evaluation calculates it using company's quantity of raw materials and energy input. And, this evaluation calculates the manufacturing load of raw materials and energy load at the time of the production using the general values such as databases. This evaluation may not reflect a characteristic peculiar to our product. For example, this evaluation uses a PCR mention scenario at the time of the raw materials procurement transportation. Therefore, please understand that this result is an approximate value.

5. Assumptions of secondary data used

We use the IDEA2.1.3 data and scrup iron data from the Japan Iron and Steel Federation(J.I.S.F).

6. Remarks

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- For data quantification, please refer to PCR and Rules on quantification and declaration.
- Comparative assertion is permitted only when Rules on quantification and declaration are satisfied.
  (Reference URL : https://ecoleaf-label.jp/regulation/)
- The CFP only addresses the single impact category of climate change and does not assess other potential social, economic and environmental impacts arising from the provision of a product.