

Climate Declaration

Registration number of EPD: JR-AJ-24056E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization
14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan
<https://ecoleaf-label.jp>

※The Climate Declaration indicates greenhouse gas emissions in CO2 equivalent values and is not an EPD. Please check here for EPD: <https://ecoleaf-label.jp/>



H-Beams/Steel H piles

Declaration unit・Functional unit

1t

System boundary

final products intermediate products

Production Stage and optional supplementary information

Main specifications of the product

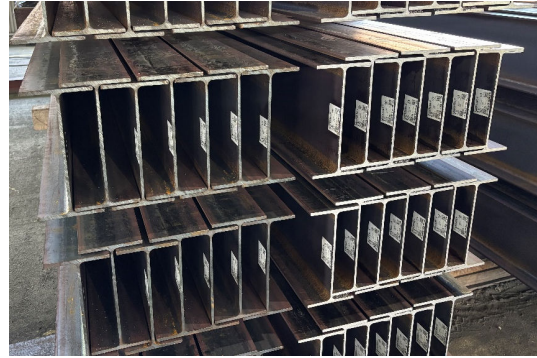
Production sites : Head office (Himeji)

Main standards : SS400,SS490,SM400A.B,SM490A.B,
SM490YA.YB,SM520B,SN400A.B,SN490B,
SMA400AW.BW,SMA400AP.BP,
SMA490AW.BW,SMA490AP.BP,
SHK400,SHK490M

Main sizes(unit:mm,t:thickness)

H-Beams : H150(t7)×B150(t10)~H912(t18)×B302(t34)

Steel H piles : H200(t8)×B200(t12)~H400(t13)×B400(t21)



EPD Verification information

Registration#	JR-AJ-24056E
PCR number	PA-180000-AJ-06
Publication date	1/February/2025
Verification date	14/January/2025
Verification method	Product-by-product
Verification#	JV-AJ-24056
Expiration date	13/January/2030
Verifier	<input type="checkbox"/> internal <input checked="" type="checkbox"/> external Yuki Sakamoto

PCR information

PCR name Steel products for construction

PCR review panel

Approval date 10/May/2023
PCR review Yasunari Matsuno
panel chair (Chiba University)

GWP (Carbon footprint)

Stages of the Life cycle	Breakdown	Unit	Percentage
[A1]Raw material acquisition	4.6E+01 kg-CO2eq		9%
[A2]Distribution	2.4E+01 kg-CO2eq		5%
[A3]Production	4.3E+02 kg-CO2eq		86%
[D]Scrup recyclig	2.2E+02 kg-CO2eq		-
Total	5.0E+02 kg-CO2eq		

Additional information

- ①Each LCI figure includes allocation for scrap recycling as a optional supplementary information[D]. The 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. Recycling rate(RR) of this EPD is 93%(the average of Japan in 2018).
- ②Transport to site scienario is based on PCR.
- ③The first data was acquired from 2023.
- ④The source of the unit power consumption is the average of 10 electric power suppliers of Japan in 2018.
- ⑤A component about the material and a substance mentioned the number quoted from our safe data seat (SDS).

About the Climate Declaration

This declaration is based on the results of LCA calculations conducted to prepare an EPD in accordance with ISO 14025, and only the global warming impact (carbon footprint) has been isolated and disclosed. Indicators other than carbon footprint may be of equal or greater importance to the impact on global warming, and therefore great care must be taken in the interpretation and communication of this declaration. This figure is a portion of the verified data, and the declaration itself has not been verified by Japan EPD Program by SuMPO. Please check the QR on the right for EPD compliant with ISO14025.

EPD Link



EPD Link

<https://ecoleaf-label.jp/en/epd/1999>

LCI date

IDEA ver.3.1.0

Company Information

Yamato Steel Co., Ltd.

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