



# Fittings and tubes made of stainless steel

IBP Instal fittings Sp. z o.o.



ISSUANCE DATE

VALIDITY DATE

06/08/2024

06/08/2029

# 01

## Basic information

This declaration is a Type III Environmental Product Declaration (EPD) based on the EN 15804 standard and verified according to ISO 14025 by an independent auditor.

It contains information about the environmental impact of the declared construction materials. These aspects have been verified by an independent body in accordance with ISO 14025. In principle, a comparison or evaluation of EPD data is only possible if all data to be compared have been created in accordance with EN 15804 (see section 5.3 of the standard).

EPD OWNER	<b>IBP Instalittings Sp. z o.o.</b> Stanisława Zwierzchowskiego 29 Street, 61 – 249 Poznań, Poland www.ibpgroup.com.pl
PROGRAMME OWNER	<b>Instytut Techniki Budowlanej (ITB)</b> Filtrowa 1 Street, 00 – 611 Warsaw, Poland e-mail: energia@itb.pl, www.itb.pl
LCA ANALYSIS	A1 – A3, A4, C1 – C4 and D according to EN 15804 (cradle to gate with options)
YEAR OF EPD DEVELOPMENT	2024
DECLARED SERVICE LIFE	10 years – APress INOX 316L and 304 fittings, INOX 316L and 304 tubes 25 years – BPress INOX 316L fittings
PCR	ITB-PCR A document (based on PN-EN 15804)
DECLARED UNIT	1 kg of product
REASON FOR IMPLEMENTATION	B2B
REPRESENTATIVENESS	Global products, 2022

ITB cooperates with other operators of EPD programmes through the ECO-PLATFORM, (<http://www.eco-platform.org/>) in order to coordinate efforts to support industrial sectors while reducing

verification efforts in different countries.

## 02

## Manufacturer

**Conex Bänninger is a world leader in fittings used for copper, carbon steel, plastic and stainless steel pipes.**

The company's comprehensive product range consists of plumbing fittings and valves for domestic, commercial and industrial applications, working with customers in the plumbing, heating, ventilation, gas, refrigeration and medical industries.

The products covered in this study are manufactured at plants in Sady (Poland), Barcelona (Spain), Yuhuan (China) and Wenzhou (China). Warehousing and dispatching to customers takes place at facilities in Cordoba (Spain), Sady (Poland) and Pensnett (UK).





Fig. 1. IBP Instal fittings plant at ul. Za Motelem 2A in Sady/Tarnowo Podgórne (Poland)



Fig. 2. IBP ATCOSA plant, Poligono Industrial, Quintos-Aeropuerto in Cordoba (Spain)

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## Products description and application







Stainless steel fittings and tubes are made of type 316L and 304 steel. The compression fittings are designed to connect stainless steel tubes used in sanitary, heating, air conditioning, solar, rainwater drainage and other industrial systems.

The table shows the range of stainless steel fittings and tubes:

Picture	Fitting type	Code	Dimensions
<b>&gt;B&lt;Press Inox 316 L - PS4000 series</b>			
	90° Bend with Male Thread	PS40001G	from 15 x 1/2" to 54 x 2"
	90° Bend with Female Thread	PS4002G	from 15 x 1/2" to 54 x 2"
	90° Elbow with Female Thread	PS4090G	from 15 x 1/2" to 35 x 1 1/4"
	90° Elbow with Male Thread	PS4092G	from 15 x 1/2" to 18 x 1/2"
	Tee with Female Branch	PS4130G	from 15 x 1/2" x 15 to 108 x 2" x 108
	Male Straight Coupler	PS4243G	from 15 x 1/2" to 108 x 4"

	Female Straight Coupler	PS4270G	from 15 x 1/2" to 89 x 3"
	Slip Coupler	PS4275	from 15 to 108
	Female Straight Union Connector	PS4330G	from 15 x 1/2" to 54 x 2"
	Male Straight Union Connector	PS4331G	from 15 x 1/2" to 54 x 2"
	Flat Face Union	PS4355G	from 15 x 3/4" to 35 x 1 1/2"
	Wall Plate Elbow	PS4471G	from 15 x 1/2" to 28 x 1"
<b>&gt;B&lt;Press Inox 316 L - PS5000 series</b>			
	90° Bend	PS5001	from 15 to 108
	90° Bend	PS5002	from 15 to 108
	90° Male Street Bend	PS5030	from 15 to 54

	45° Bend	PS5040	from 15 to 108
	45° Bend	PS5041	from 15 to 108
	Short Crossover	PS5087	from 15 to 28
	Long Crossover	PS5088	from 15 to 28
	Equal Tee	PS5130	from 15 to 108
	Tee - Reduced Branch	PS5130	from 18 x 15 x 18 to 54 x 42 x 54
	Fitting Reducer	PS5243	from 18 x 15 to 108 x 89
	Straight Coupler	PS5270	from 15 to 108
	End Cap	PS5301	from 15 to 108

<b>&lt;A&gt;Press Inox 316L - PS26000 series</b>			
	90° Bend	PS26001	from 15 to 54
	90° Bend	PS26002	from 15 to 54
	90° Swivel Connector	PS26002G	from 15 x 1,2" to 54 x 2"
	45° Bend	PS26040	from 15 to 54
	45° Bend	PS26041	from 15 to 54
	Crossover	PS26085	from 15 to 28











	<p>90° Elbow with Female Thread</p>	<p>PS26090G</p>	<p>from 15 x 1/2" to 35 x 1/4"</p>
	<p>90° Elbow with Male Thread</p>	<p>PS26092G</p>	<p>from 15 x 1/2" to 45 x 2"</p>
	<p>Plug End</p>	<p>PS26292</p>	<p>from 15 to 54</p>
	<p>Equal Tee</p>	<p>PS26130</p>	<p>from 15 to 54</p>
	<p>Tee - Reduced Branch</p>	<p>PS26130</p>	<p>from 18 x 15 x 18 to 54 x 42 x 54</p>
	<p>Tee with Female Branch</p>	<p>PS26130G</p>	<p>from 15 x 1/2" x 15 to 54 x 2" x 54</p>

	<p>Tee with Male Branch</p>	<p>PS26133G</p>	<p>from 15 x 3/8" x 15 to 35 x 1 1/4" x 35</p>
	<p>Flange Adaptor PN16</p>	<p>PS26230B</p>	<p>from 15 to 54 mm</p>
	<p>Fitting Reducer</p>	<p>PS26243</p>	<p>from 18 x 15 to 54 x 42</p>
	<p>CxFi Con Flat Seal Face</p>	<p>PS26355</p>	<p>from 15 x 1/2" to 54 x 2"</p>
	<p>Straight Male Connector</p>	<p>PS26243G</p>	<p>from 15 x 3/8" to 54 x 2"</p>
	<p>Straight Coupler</p>	<p>PS26270</p>	<p>from 15 to 54</p>

	<p>Straight Female Connector</p>	<p>PS26270G</p>	<p>from 15 x 3/8" to 54 x 2"</p>
	<p>End Cap</p>	<p>PS26301</p>	<p>from 15 to 54</p>
	<p>Slip Coupler</p>	<p>PS26275</p>	<p>from 15 to 54</p>
	<p>Female Straight Union Connector</p>	<p>PS26340G</p>	<p>from 15 x 1/2" to 54 x 2"</p>
	<p>Male Straight Union Connector</p>	<p>PS26341G</p>	<p>from 15 x 1/2" to 54 x 2"</p>
	<p>Wall Plate Elbow</p>	<p>PS26471G</p>	<p>from 15 x 1/2" to 22 x 3/4"</p>

<b>&lt;A&gt;Press Inox 304 – PS24000 series</b>			
	90° Bend	PS24001	from 15 to 108
	90° Bend	PS24002	from 15 to 108
	90° Swivel Connector	PS24002G	from 15 x 1/2" to 54 x 2"
	45° Bend	PS24040	from 15 to 108
	45° Bend	PS24041	from 15 to 108
	Crossover	PS24085	from 15 to 28
	90° Elbow with Female Thread	PS24090G	from 15 x 1/2" to 35 x 1 1/4"
	90° Elbow with Male Thread	PS24092G	from 15 x 1/2" to 54 x 2"
	Plug End	PS24292	from 15 to 54

	Equal Tee	PS24130	from 15 to 108
	Tee - Reduced Branch	PS24130	from 18 x 15 x 18 to 108 x 88.9 x 108
	Tee with Female Branch	PS24130G	from 15 x 1/2" x 15 to 108 x 2" x 108
	Tee with Male Branch	PSDN133G	from 15 x 3/8" x 15 to 35 x 1 1/4" x 35
	Flange Adaptor PN16	PSDN230B	from 15 to 108
	Fitting Reducer	PSDN243	from 18 x 15 to 108 x 88.9
	CxFi Con Flat Seal Face	PS24355	from 15 x 1/2" to 54 x 2"
	Straight Male Connector	PS24243G	from 15 x 3/8" to 108 x 4"
	Straight Coupler	PS24270	from 15 to 108

	Straight Female Connector	PS24270G	from 15 x 3/8" to 88.9 x 3"
	End Cap	PS24301	from 15 to 108
	Slip Coupler	PS24275	from 15 to 108
	Female Straight Union Connector	PS24340G	from 15 x 1/2" to 54 x 2"
	Male Straight Union Connector	PS24341G	from 15 x 1/2" to 54 x 2"
	Wall Plate Elbow	PS24471G	from 15 x 1/2" to 22 x 3/4"
<b>Tubes 316 L</b>			
	Tubes	PSTUBE 316	from 15 x 1.0 to 108 x 2
<b>Tubes 304</b>			
	Tubes	PSTUBE 304	from 15 x 1.0 to 54 x 1.5

## 04

## Life cycle assessment (LCA) - general principles

### Declared unit

The declared unit is the production of 1 kg of fittings and tubes made of stainless steel.

### Allocation

Semi-finished and final products come to Sady from a factory in Spain (Barcelona) and 2 factories in China (Wenzhou and Yuhuan). Semi-finished products are assembled and packaged at Sady and shipped directly to customers or to storage facilities in Cordoba and Pensnett, from where they are distributed further to customers. Inputs were inventoried for each production (Poland, Spain, China) and storage facility (Poland, Spain, UK). The allocation of impacts is based on the weight of stainless steel products, which is a percentage of total production and transport and represents: 3.85% at the Sady site, 4.74% at the Pensnett site, 0.14% at the Cordoba site, 22.00% at the Barcelona site, 7.80% at the Wenzhou site and 1.74% at the Yuhuan site. The allocation to a single, representative product was made on the basis of product weight. All impacts from raw material extraction are allocated in module A1. Production is based on steel, and waste from production is sold as scrap to other operators, where it is recycled. Module A2 includes the transport of semi-finished products between production sites: Yuhuan - Sady, Wenzhou - Sady, Barcelona - Sady and the production facility and storage facilities: Sady - Cordoba, Sady - Pensnett. Energy, fuel, water consumption and waste production were inventoried for the entire production process in module A3.

### System boundaries

The life cycle analysis of the declared products includes the production stage (modules A1 - A3) and modules A4, C1-C4+D ("from cradle to gate with options") according to EN 15804 and ITB PCR A.

### System limits

100% of input materials and 100% of electricity, natural gas, propane, diesel, water and sewage consumption were inventoried at the Sady, Cordoba, Pensnett, Barcelona, Wenzhou and Yuhuan plants. All relevant parameters from the collected production data are included in the assessment, i.e. all materials consumed for production, packaging materials and utilities used, waste produced and emissions generated.

## Modules A1 and A2 Extraction and transport of raw materials

Raw materials and semi-finished products for production such as stainless steel and o-rings (elastomer) are transported to the production facilities (China and Spain) mainly from China. Module A1 shows the production impact of raw materials further used in the production of fittings. Data on the transport of raw materials is recorded by the plants. The means of transport include trucks, ships and trains. Global fuel averages were used for the calculation of module A2.

## Module A3 Production

The production process is illustrated in the diagram on page 18. Once the raw materials have been delivered, they are processed (e.g. cutting, bending, pressing, soldering, annealing). The finished products are subjected to an airtight test and pressure test, followed by inspection. Electricity, gas, water and propane are consumed in the process. The Barcelona and Wenzhou plants cover part of their electricity demand from renewable sources. Semi-finished products from Barcelona, Wenzhou and Yuhuan go to Sady, where the products are assembled, before being shipped to Pensnett and Cordoba or directly to customers. In Pensnett and Cordoba, the products are stored and sold to customers.

## Module A4 Transport

Transport of finished goods to the customer is carried out from three locations: Pensnett in the UK, Sady in Poland and Cordoba in Spain. Finished products are packed in bags and cartons. The company uses road transport, adapted to the size of the order. The largest order recipients are located in Poland, Slovenia, Germany, Lithuania, Kazakhstan, Ireland and the UK. The fuel used is diesel fuel. The average transport distance is 1145 km.

## Module C1 Deconstruction and demolition

No information on the impact of deconstruction in the construction or any other sector is available for fittings and tubes made of stainless steel. Therefore, no contribution to the impact categories of this module is reported and the module is equal to 0.

## Module C2 Transport

It is assumed that the end-of-life product will be transported by truck to the nearest waste treatment facility (truck, diesel) within a 100 km distance.

## Module C3 Waste treatment

It is assumed that 100% of the products would be recovered and recycled.



## Module C4 Disposal

It is assumed that the products would not go to landfill at the end of their life, so the module is equal to 0.

## Module D External impacts beyond system boundaries

To obtain the net result of recycled material from the product system, the contribution of the recycled material building up the product is subtracted from the material to be recycled at the end of life. Module D shows the burdens and benefits of recycling the remaining net recycled material. The benefits are assessed at the point of functional equivalence, i.e. where there is a substitution of virgin raw material. The starting material contains 27% recycled steel.

## Data collection period

The input data of the declared products concern the period from January to December 2022. The life cycle assessment has been prepared for the whole world as a reference area.

## Data quality

The data for the LCA calculation of modules A1-A4 came from verified LCI inventory data from the plant. In accordance with Annex E of EN 15804 + A2, a data quality assessment was carried out. For technical representativeness, processes with a quality level of 'very good' represent 99% of the values for the climate change indicators. For geographical and temporal representativeness, a process evaluation level of "very good" was obtained.

## Assumptions and estimates

The impacts of the representative products were aggregated using a weighted average. The results obtained for the representative products can be applied proportionally to all types of fittings and tubes made of stainless steel.

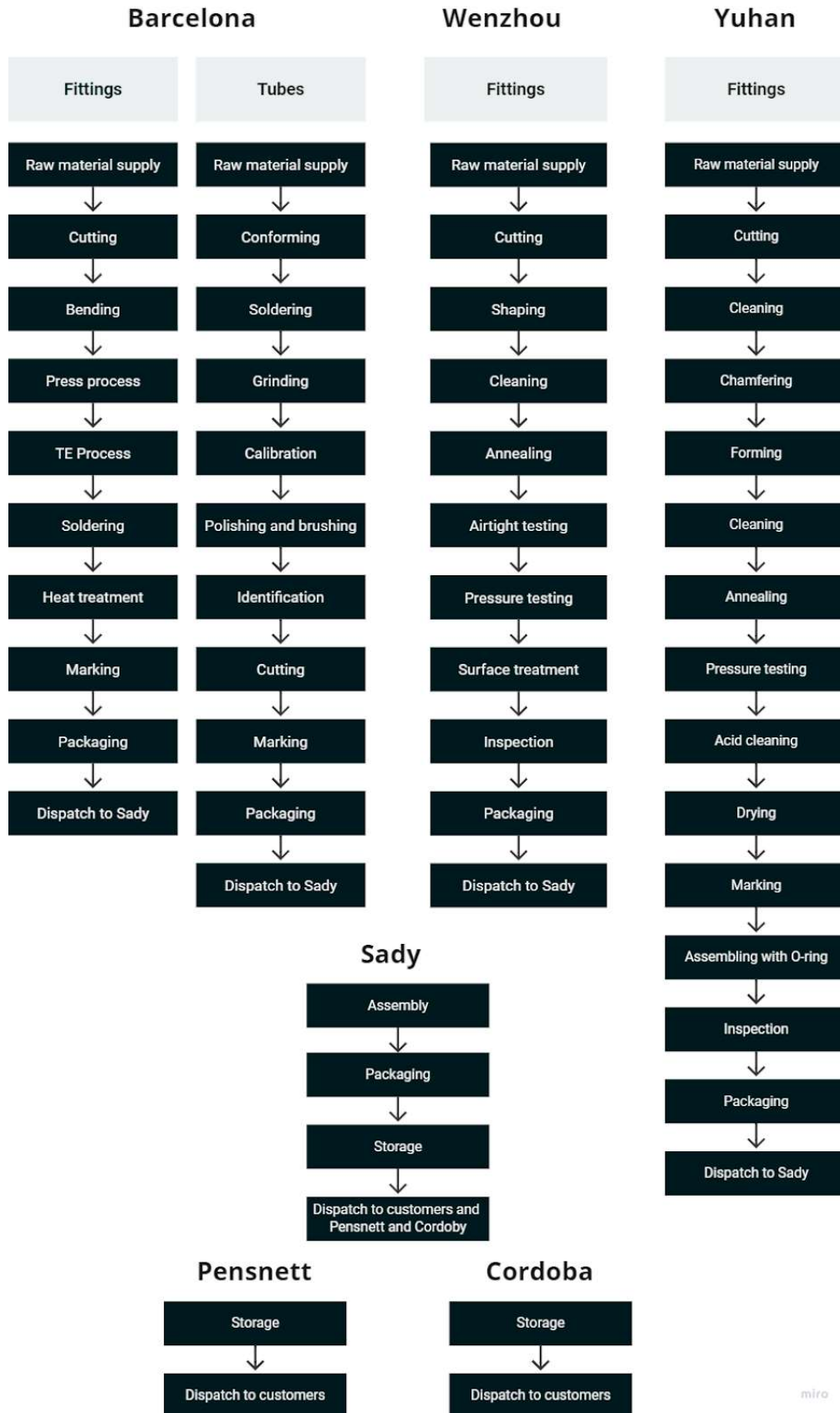
## Calculation principles

LCA was made in accordance with PN-EN 15804+A2 standard and ITB PCR A (v1.6. 2023) document.

## Databases

The data for the calculations came from Ecoinvent v. 3.8 and from databases available in Bionova OneClickLCA software. Emission factors for electricity in Poland have been supplemented with actual KOBIZE data. The characterisation factors are CML ver. 4.2 based on EN 15804+A2.

Production scheme



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# 05

## Life cycle assessment (LCA) - Results

The declared unit is 1 kg of fittings and tubes made of stainless steel manufactured by IBP Instalittings Sp. z o.o. The following indicates which LCA assessment modules were included in the assessment (**MA** - module assessed, **MNA** - module not assessed).

Information on system boundaries																
Product stage			Construction stage		Use stage							End of life				Benefits and loads beyond the system boundaries
Raw material supply	Transport	Manufacturing	Transport to construction site	Construction and installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction / demolition	Transport	Waste processing	Disposal	Potential for reuse, recovery or recycling
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
MA	MA	MA	MA	MNA	MNA	MNA	MNA	MNA	MNA	MNA	MNA	MA	MA	MA	MA	MA

**Environmental impacts**

Indicator	Unit	A1	A2	A3	A1-A3	A4	C1	C2	C3	C4	D
GLOBAL WARMING POTENTIAL - TOTAL	kg CO2 eq.	4.21E+00	3.27E-01	1.28E+00	5.81E+00	0.00E+00	0.00E+00	9.10E-03	1.38E-02	0.00E+00	-3.41E+00
GLOBAL WARMING POTENTIAL - FOSSIL	kg CO2 eq.	4.20E+00	3.27E-01	1.23E+00	5.76E+00	0.00E+00	0.00E+00	9.09E-03	1.92E-02	0.00E+00	-3.41E+00
GLOBAL WARMING POTENTIAL - BIOGENIC	kg CO2 eq.	0.00E+00	9.36E-05	4.57E-02	4.58E-02	0.00E+00	0.00E+00	6.60E-06	0.00E+00	0.00E+00	0.00E+00
GLOBAL WARMING POTENTIAL - LULUC	kg CO2 eq.	4.21E-03	1.57E-04	1.28E-03	5.65E-03	0.00E+00	0.00E+00	2.74E-06	1.82E-05	0.00E+00	-5.51E-03
DEPLETION POTENTIAL OF THE STRATOSPHERIC OZONE LAYER	kg CFC II eq.	2.00E-07	7.15E-08	8.40E-08	3.55E-07	0.00E+00	0.00E+00	2.14E-09	9.19E-10	0.00E+00	3.16E-10
ACIDIFICATION POTENTIAL	mol H+ eq.	2.37E-02	5.73E-03	8.06E-03	3.75E-02	0.00E+00	0.00E+00	3.82E-05	9.66E-05	0.00E+00	-1.96E-02
EUTROPHICATION AQUATIC FRESHWATER	kg Pe	1.61E-04	6.42E-06	2.85E-04	4.53E-04	0.00E+00	0.00E+00	2.27E-07	7.77E-07	0.00E+00	-2.05E-05
EUTROPHICATION AQUATIC MARINE	kg N eq.	3.91E-03	1.45E-03	1.37E-03	6.73E-03	0.00E+00	0.00E+00	1.15E-05	2.78E-05	0.00E+00	-3.18E-03
EUTROPHICATION AQUATIC TERRESTRIAL	kg N eq.	4.43E-02	1.61E-02	1.52E-02	7.56E-02	0.00E+00	0.00E+00	1.27E-04	2.35E-04	0.00E+00	-3.47E-02
FORMULATION POTENTIAL OF TROPOSPHERIC OZONE	kg NMVOC eq.	1.41E-02	4.32E-03	4.00E-03	2.24E-02	0.00E+00	0.00E+00	4.08E-05	6.34E-05	0.00E+00	-1.01E-02
ABIOTIC DEPLETION POTENTIAL FOR NON-FOSSIL RESOURCES	kg Sb eq.	1.06E-04	4.09E-06	5.01E-06	1.15E-04	0.00E+00	0.00E+00	1.55E-07	6.92E-07	0.00E+00	5.04E-07
ABIOTIC DEPLETION POTENTIAL FOR FOSSIL RESOURCES	MJ	4.69E+01	4.65E+00	2.21E+01	7.37E+01	0.00E+00	0.00E+00	1.41E-01	1.58E-01	0.00E+00	1.14E-01
WATER USE	m³	1.38E+00	1.41E-02	1.19E+00	2.59E+00	0.00E+00	0.00E+00	5.26E-04	4.73E-03	0.00E+00	-1.96E+00

### Environmental aspects related to resource use

Indicator	Unit	A1	A2	A3	A1-A3	A4	C1	C2	C3	C4	D
RENEWABLE PRIMARY ENERGY AS AN ENERGY CARRIER	MJ	1.03E+01	4.71E-02	4.50E+00	1.48E+01	0.00E+00	0.00E+00	1.78E-03	2.67E-02	0.00E+00	-1.02E+01
RENEWABLE PRIMARY ENERGY FOR MATERIAL USE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COMPLETELY RENEWABLE PRIMARY ENERGY	MJ	1.03E+01	4.71E-02	4.50E+00	1.48E+01	0.00E+00	0.00E+00	1.78E-03	2.67E-02	0.00E+00	-1.02E+01
NON-RENEWABLE PRIMARY ENERGY AS AN ENERGY SOURCE	MJ	4.69E+01	4.65E+00	2.16E+01	7.32E+01	0.00E+00	0.00E+00	1.41E-01	1.58E-01	0.00E+00	-4.13E+01
NON-RENEWABLE PRIMARY ENERGY AS MATERIA USE	MJ	3.20E-03	0.00E+00	3.36E-01	3.39E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COMPLETELY NON-RENEWABLE PRIMARY ENERGY	MJ	4.69E+01	4.65E+00	2.19E+01	7.35E+01	0.00E+00	0.00E+00	1.41E-01	1.58E-01	0.00E+00	-4.13E+01
USE OF SECONDARY RAW MATERIALS	MJ	4.48E-01	0.00E+00	1.68E-03	4.49E-01	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	2.13E-04
RENEWABLE SECONDARY FUELS	MJ	1.23E-03	0.00E+00	1.18E-02	1.30E-02	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	1.76E-05
NON-RENEWABLE SECONDARY FUELS	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
USE OF FRESH WATER RESOURCES	MJ	4.21E-02	7.44E-04	1.15E-02	5.43E-02	0.00E+00	0.00E+00	2.94E-05	1.30E-04	0.00E+00	-5.88E-02

**Other environmental information describing the waste categories**

Indicator	Unit	A1	A2	A3	A1-A3	A4	C1	C2	C3	C4	D
HAZARDOUS WASTE DESTINED FOR LANDFILL	kg	3.90E+00	4.91E-03	4.53E-02	3.95E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	-9.33E-02
NON-HAZARDOUS WASTE DESTINED FOR DISPOSAL	kg	6.98E+00	3.18E-01	1.96E+00	9.25E+00	0.00E+00	0.00E+00	1.52E-02	0.00E+00	0.00E+00	-1.52E-01
RADIOACTIVE WASTE FOR DISPOSAL	kg	1.13E-04	3.22E-05	1.49E-04	2.94E-04	0.00E+00	0.00E+00	9.70E-07	0.00E+00	0.00E+00	-1.67E-03
COMPONENTS TO BE REUSED	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MATERIALS TO BE RECYCLED	kg	0.00E+00	0.00E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	9.99E-01	0.00E+00	-1.82E-01
MATERIALS DESTINED FOR ENERGY RECOVERY	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00
ELECTRICITY EXPORTED	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

## **Interpretation of the results of the LCA analysis of fittings and tubes made of stainless steel**

The following life cycle phases are responsible for the largest CO2 emissions:

- A1 Raw material supply - 73.7%
- A3 Production - 21.6%
- A2 Transport of raw materials to the production site - 4.3%

The end-of-life scenario assuming complete recycling of steel products results in a reduced carbon footprint for the products covered by this declaration, thereby minimising the environmental impact.

## 06

## Verification

The verification process for this EPD is in accordance with ISO 14025 and ISO 21930. Once verified, this EPD is valid for a period of 5 years. There is no need to recalculate after 5 years if the inputs have not changed significantly.

**EN 15804 standard serves as the basis for ITB PCR-A  
independent verification according to ISO 14025 (subsection 8.1.3.)**

**[ ] internal [x] external**

External verification of EPD: **Michał Piasecki, Professor ITB, m.piasecki@itb.pl**

Input data verification, LCI audyt, LCA: **Zuzanna Gondek, JWA, z.gondek@jw-a.pl**

LCA verification: **Michał Piasecki, Professor ITB, m.piasecki@itb.pl**

Note 1: The declaration owner has the sole ownership, liability, and responsibility for the information provided and contained in EPD. Declarations of construction products may not be comparable if they do not comply with EN 15804+A2. For further information about comparability, see EN 15804+A2 and ISO 14025.

Note 2: ITB is a public Research Organization and Notified Body (EC Reg. no 1488) to the European Commission and to other Member States of the European Union designated for the tasks concerning the assessment of building products' performance. ITB acts as the independent, third-party verification organization (ISO 17025/17065/17029). ITB-EPD program is recognized and registered member of The European Platform - Association of EPD program operators and ITB-EPD declarations are registered and stored in the international ECO-PORTAL.



## Normative references

<b>ITB PCR A</b> General Product Category Rules for Construction Products
<b>ISO 14025:2006</b> Environmental labels and declarations – Type III environmental declarations – Principles and procedures
<b>ISO 21930:2017</b> Sustainability in buildings and civil engineering works – Core rules for environmental product declarations of construction products and services
<b>ISO 14044:2006</b> Environmental management – Life cycle assessment – Requirements and guidelines
<b>EN 15804 +A2</b> Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products
<b>EN 10088</b> Stainless steel
<b>EN 10226-1</b> Pipe threads where pressure tight joints are made on the threads – Part 1: Taper external threads and parallel internal threads – Dimensions, tolerances and designation
<b>EN ISO 228</b> Pipe threads for connections with tightness not achieved at the threads
<b>EN 10312</b> Welded stainless steel tubes for the conveyance of aqueous liquids including water for human consumption – Technical delivery conditions
<b>EN 681-1</b> Elastomeric seals – Materials requirements for pipe joint seals used in water and drainage applications



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# **CERTIFICATE № 656/2024 of TYPE III ENVIRONMENTAL DECLARATION**

Products:

**Fittings and tubes made of stainless steel**

Manufacturer:

**IBP Instalittings Sp. z o.o.**

Stanisława Zwierzchowskiego 29, 61-249 Poznań, Poland

confirms the correctness of the data included in the development of  
Type III Environmental Declaration and accordance with the requirements of the standard

**EN 15804+A2**

**Sustainability of construction works.**

**Environmental product declarations.**

**Core rules for the product category of construction products.**

This certificate, issued on 6<sup>th</sup> August 2024 is valid for 5 years  
or until amendment of mentioned Environmental Declaration

Head of the Thermal Physic, Acoustics  
and Environment Department

  
Agnieszka Winkler-Skalna, PhD



Deputy Director  
for Research and Innovation

  
Krzysztof Kuczyński, PhD

Warsaw, August 2024