In accordance with ISO 14025 and EN 15804:2012+A2:2019

ERW Cold Formed Bare Pipes

BF Routed Steel

from

Borusan Pipe



PROGRAMME

The International EPD® System www.environdec.com

EPD REGISTIRATION NUMBER S-P-04828

PROGRAMME OPERATOR
EPD International AB

PUBLICATION DATE 2022-08-21

REVISION DATE 2025-05-23

GEOGRAPHICAL SCOPE
Global

LICENSEE EPD Türkiye

VALID UNTIL 2027-08-20







An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at: **environdec.com**



PROGRAMME INFORMATION

Programme Information

Programme

Operator : EPD International AB

Address : EPD® International AB Box 21060

SE-100 31 Stockholm, Sweden

Website : www.environdec.com
E-mail : info@environdec.com

Licensee : EPD Türkiye, SÜRATAM Sürdürülebilirlik

Danışmanlığı A.Ş.

Address : Nef 09 B Blok No: 7 / 15 34415

Kağıthane İstanbul / Türkiye

Website : www.epdturkey.org
E-mail : info@epdturkey.org

Information about verification and reference PCR:

| CEN standard EN 15804 serves as the Core Product Category Rules (PCR) | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| Product category rules (PCR) PCR 2019:14 Construction products (EN 15804:A2) Version 1.1 | | | | | | | | |
| PCR review was conducted by The Technical Committee of the International EPD® System. See www.environdec.com/TC for a list of members. Review chair: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat www.environdec.com/contact. | | | | | | | | |
| Independent third-party verification of the declaration and data, accor | ů | | | | | | | |
| Sunil Kumar | Approved by International EPD System Technical Commiee, supported by the Secretariat | | | | | | | |
| Procedure for follow-up of data during EPD validity involes third party Yes No | verifier: | | | | | | | |

LCA Study & EDP Design Conducted by

Semtrio Sustainability Consulting BUDOTEK Teknopark, No 8/27 Umraniye / Istanbul Turkey www.semtrio.com



Borusan Pipe has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but from different programmes may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804. For further information about comparability, see EN 15804 and ISO 14025.

COMPANY INFORMATION

Owner of the EPD

Borusan Birleşik Boru Fabrikaları San. ve Tic. A. Ş. Ata Mh. Sanayi Cd. No: 54/68 16601 Gemlik/Bursa

Contact
Ahu OLGUN
aolgun@borusan.com

The first industrial enterprise of one of Türkiye's foremost business conglomerates, the Borusan Group, Borusan Pipe, marked its 65th anniversary in 2023. Since its founding on the first day, Borusan Pipe has continued investing in solutions that create value for its partners with a global vision.

Today, Borusan Pipe continues its global business with more than 2,800 employees and offers more than 4,000 product varieties. Its eleven facilities across three continents and high sales volume have placed it on the map as a leading manufacturer in the steel pipe industry in Europe and the world.

Borusan Pipe brings its experience, expertise, and passion worldwide with state-of-the-art pipes addressing all areas ranging from automotive to construction and energy to machinery production. The company continued its investments with a global perspective following market dynamics. It made its first overseas investment in 2001 when it bought the facility in Vobarno and founded Borusan Vobarno Tubi S.p.A. The company then established Borusan Pipe US Inc. in 2014 to manage its Houston Baytown factory investment in the United States. Borusan Pipe US Inc. achieved success soon thanks to its advanced technology and innovative products. It won the "Best Pipe Manufacturer" award given by one of the most prestigious publications in the United States, the American Metal Market, in 2016, 2017, and 2020. In 2023, within the scope of its strategy to become a local player in global markets, Borusan Pipe acquired Berg Pipe, which produces at the highest quality and largest capacity in the USA

Having entered Türkiye's pioneering overseas investors with these breakthroughs, Borusan Pipe seeks investment opportunities in different countries and aims to boost Türkiye's competitiveness.

In addition to its contributions to our country with its exports to various countries in America, Europe, Africa, and Asia, it is also a driving force for the Turkish economy with the development assurance it gives for the coming years.

Having been ranked among Türkiye's top 100 industrial enterprises for 50 years, Borusan Pipe goes beyond merely manufacturing pipes with its thousands of products, reliable service, quality, and the trails it has blazed in Türkiye and the world and builds Türkiye's future. It delivers a sustainable society with management policies, a developed country, and a secure future with large-scale investments.





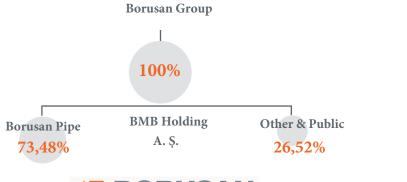




- S Flagship of Borusan Group with more than 60 years of pipe manufacturing experience
- Workforce of 2,800 people
- 20 years of Contract Management competency
- Mas its own port (Borusan Port) adjacent to the mill, which brings operational flexibility in terms of logistics inbound and outbound
- Sole 24.5 m single seam API/ISO/EN large diameter line pipe producer in Europe

Corporate Structure

BMB Holding A. Ş. owns 73,48% shares of Borusan Pipe and the remainder 26,52% is publicly traded. Borusan Pipe is the first industrial organization the Borusan Group, one of Türkiye's foremost business conglomerates.







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PRODUCT INFORMATION

Product Name

ERW Cold Formed Bare Pipes

Circular Hollow Section

Tests & Certificates

- Visual and Dimensional Inspection
- Mechanical Tests: Tensile Test Flattening Test,
 Flaring Test Expanding Test Impact Test
- Metallographic Examination
- · Chemical Analysis
- Non Destructive Inspection: In-Line Ultrasonic (weld check) In-Line and offline Eddy Current (for round tubes)
- Mill Test Certificates According to EN 10204 2.1; 2.2; 3.1; 3.2
- NDT Standards ET (ISO 10893-2)
- Quality Certificates EN 10219 EN10210 CE marked

Finishing Operations

Plain End-Square cut or bevelled Black, self-colored/uncoated

Mill protective oil coating; for both round, square and rectangular tubes, black varnish for outside surface of round tubes.

Engineering Tubes

Tests & Inspections

- Visual Examination
- Dimensional Inspection
- · Metallographic Inspection
- · Tensile Test
- · Drift Expanding / Flaring Test
- · Flattening Test
- Hardness Testing (HV, HRB, HRC)
- · Ultrasonic Testing
- Flanging Test
- Chemical Analysis
- Eddy Current Testing
- Surface Roughness Measurement



Tests & Inspections

- Cutting
- End Finishing
- Washing
- Bending
- Drilling
- CNC Machining
- Laser Cutting
- Pressing

Tests & Inspections

MTC (Mill Test Certificates) acc. to EN 10204 3.1; 2.2

Fire Sprinkler Pipes

Technical Specifications

- FM approved
- UL/C-UL Listed
- NSF certified
- · Tight tolerances
- Consistent wall thickness, straightness, roundness
- CE, PED certified
- Pressure tested
- · Reliable high steel quality
- Galvenised or shop primer coated black, red (RAL 3000, RAL 3002, RAL 3009) or grey (RAL 7012)
- Plain Ends, Grooved or Threaded & Coupled
- · Custom length availability

Fire Sprinkler Pipe Specifications

- ASTM A53 & ASTM A795 production standards available; Light wall, Sch7, Sch10, Sch30, Sch40 and Sch 80
- EN 10217 & EN 10255 production standards available; Light wall, light, medium, heavy series
- Easy to weld & install
- Saves labor, time and cost
- Pressure ratings exceeding 300 psi
- · Compatible for use in wet, dry, preaction and deluge sprinkler systems
- Plain end, roll grooved, threaded & coupled
- Custom length available
- Tight tolerances
- Consistent roundness, straightness and wall thickness
- · Reliable high steel quality
- · Inside weld bead can be removed
- · Pressure tested

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Sizes

| Circular Hollow Section | ERW Line Pipes | Piling Tubes | Fire Sprinkler Pipes | | |
|------------------------------|------------------------------|------------------------------|----------------------|--|--|
| Outside Diameter | Outside Diameter | Outside Diameter | Outside Diameter | | |
| 21.3mm - 339.7mm | 21.3mm - 339.7mm | 21.3mm - 339.7mm | 21.3mm - 323.9mm | | |
| Wall Thickness | Wall Thickness | Wall Thickness | Wall Thickness | | |
| 1.9mm - 12.7mm | 1.9mm - 12.7mm | 2.8mm - 12.7mm | 1.9mm - 12.7mm | | |
| Length 5.00m - 18.30m | Length 5.00m - 18.30m | Length 6.00m - 18.30m | Custom length | | |

Technical Specifications

| Production Standards | Steel Grades |
|--|---|
| Circular Hollow Section | |
| EN 10305-3 | E 155 - E 700 |
| BS EN 10029 | GR 43 C |
| ASTM A 500 | GR A, GR B, GR C |
| EN 10219 (BS 6363), EN 10210-2 | S 235, S 275, S 355, S 460 MH, NH (J0H, JRH, J2H, K2H, GR 34/26, GR 43/36) |
| Piling Tubes | |
| EN 10210-2 | Grade including S355, J2H, S460 MH, S550 J2H |
| S 235, S 275, S 355, S 460 MH, NH (J0H, JRH, J2H, K2H, GR 34/26, GR 43/36) | Grade including Grade 3 |
| Engineering Tubes | |
| EN 10305-3, EN 10305-2, EN 10305-5 | S235JR, S275J2, S355J2, DC01, DC03, DC04, S315MC - S700MC, HC260LA - HC2500LA, DP500 - DP1000, 20MnB5, 22MnB5, 26MnB5, 30MnB5, 34MnB5, DX51, DX52, DX53, S220, S350 |
| Fire Sprinkler Pipes | |
| ASTM A53, ASTM A795 | Grade A, Grade B |
| EN 10217, EN 10255 | P195 TR1-TR2, P235 TR1-TR2, P265 TR1-TR2, S195 |

LCA Information

Declared unit

1 tonne (1000kg) of fabricated steel product manufactured in Gemlik facility (TR).

Reference service life

Not applicable

Time representatives

The production data in this LCA study represents the period of 1st January 2021 and 30th September 2021.

Database(s) and LCA software used

Simpro v9.2 and Ecoinvent v3.7.1

Description of system boundaries

Cradle to gate (A1-3) with options, modules C1-C4, module D.

Data quality and data collection

According to EN 15804:2012+A2:2019 specific data was used for module A3 (Processes the manufacturer has influence over) and was gathered from Borusan Gemlik plant. Specific data includes actual product weights, amounts of raw materials used, product content, energy consumption, transport figures, water consumption and amounts of wastes. For A1 and A2 modules, according to EN 15804:2012+A2:2019, generic data was applied and was obtained from Ecoinvent v3.7.1

Allocation

Mass allocation has been applied for preconsumer recycled materials according to EN 15804:2012+A2:2019.

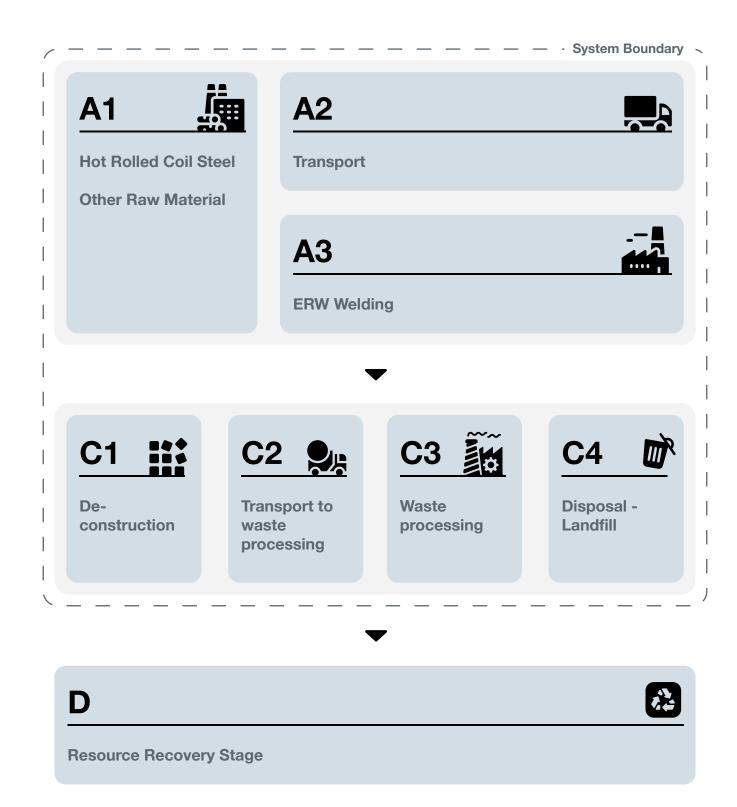
Cut-off rules

Life Cycle Inventory data for a minimum of 99% of total inflows to the three life cycle stages have been included and a cut-off rule of 1% regarding energy, mass and environmental relevance was applied. Impacts caused by treatment operations have been calculated lower than 1% environmental relevance.

Modules declared, geographical scope, share of specific data (in GWP-GHG indicator) and data variation

| | Pr | oduct Sta | ige | Constr Proces | | | Use Stage | | | | End of Life Stage | | | | Resource Recovery Stage | | |
|----------------------------|---------------------|------------|---------------|-------------------------------------|----------|-----|-------------|--------|-------------|--------------|---------------------------|--------------------------|-----------------|-----------|-------------------------------|------------------|---|
| X Declared ND Not Declared | Raw Material Supply | Transport | Manufacturing | Transport from the gate to the site | Assembly | Use | Maintanence | Repair | Replacement | Refurbisment | Operational Energy Use | Operational Water Use | De-construction | Transport | Disposal | Waste Processing | Reuse - Recovery - Recycling Potential |
| Modules | A1 | A2 | А3 | A4 | A5 | B1 | B2 | ВЗ | B4 | B5 | В6 | В7 | C1 | C2 | СЗ | C4 | D |
| Modules Declared | х | х | x | ND | ND | ND | ND | ND | ND | ND | ND | ND | х | х | x | х | Х |
| Geography | GLO | GLO | TR | _ | _ | _ | _ | _ | _ | _ | _ | _ | GLO | GLO | GLO | GLO | GLO |
| Specific data used | | >99.5% | | _ | _ | _ | - | _ | _ | - | _ | _ | _ | - | _ | - | _ |
| Variation- products | Ν | lot Releva | nt | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | - | _ | - |
| Variation-sites | N | lot Releva | nt | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | - | _ | _ | _ |

System Diagram



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Description of Raw Materials

A1 - Raw Materials Supply

This stage takes into account raw material extraction, processing and energy used in the production process.

A2 - Transport to the Manufacturer

This stages include transportation of the raw materials from supplier to factory gate. Transportation types are considered as seaway, road, etc.

A3 - Manufacturing

This stage includes energy and water consumption during the manufacturing process. Additionally, packaging materials are covered by this stage. Followed production processes are as;

- Tape slitting section
- Welding

C1 - De-construction

The dismantling of steel pipe has a very low impact considering the impact throughout the life of the installation. It is assumed that, in C1 module, same electricity and diesel is consumed as during the construction installation of steel pipe.

C2 - Transport to Waste Processing

An average distance of 100km has been assumed for the transport to recycling facility. Transport is calculated on the basis of a scenario with the parameters described in the table below.

Transport by road* Lorry >32 metric ton

Distance (km) 100

Database Ecoinvent v3.7.1

C3 - Waste Processing for Reuse, Recovery and/or Recycling

The material and energy expenses required for Module C3 are negligible. It is assumed that there is no sorting or processing required for steel pipes.

C4 - Final Disposal

100% of used product after the lifetime will be collected and recycled into the manufacturing system. It is assumed that 5% of the product is lost during deconstruction and 95% is reached to recycling system.

D - Reuse, Recovery or Recycling Potential

Scrap inputs to the production stage are substracted from scrap to be recycled at end of life in order to obtain the net scrap output from the product system. This remaining net scrap is then delivered to recycling process. Module D reports the environmental aspects of recycled scrap generated at the end of life minus that used at the production stage.

Information on Which Life Cycle Stages Are Not Considered

This EPD only covers the Cradle to Gate A1-3, C1-4 and D stages because other stages are very dependent on particular scenarios and are better developed for specific building or construction works.

Content Declaration

| Content declaration of 1000kg of ERW Steel Pipe | | | | | | | | |
|---|--------------|--|--|--|--|--|--|--|
| Material | Share | | | | | | | |
| Steel Coil | 99.0 - 99.9% | | | | | | | |
| Renewable Material | 0% | | | | | | | |
| Biogenic Carbon | 0% | | | | | | | |

^{*}The product does not content "Candidate List of Substances of Very High Concern (SVHC)" compounds.



^{*}Technology is euro 6

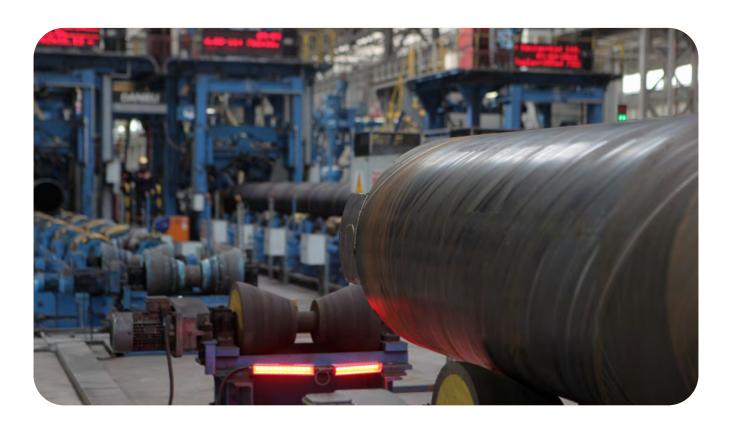
ENVIRONMENTAL PERFORMANCE

Potential Environmental Impact

Mandatory Indicators According to EN 15804

| | Results for 1000kg of ERW Steel Pipe | | | | | | | | | | | |
|---------------------------|--------------------------------------|----------|----------|----------|----|----------|-----------|--|--|--|--|--|
| Indicator | Unit | A1:A3 | C1 | C2 | СЗ | C4 | D | | | | | |
| GWP-fossil | kg CO2 eq | 2451 | 1.28 | 8.67 | 0 | 0.262 | -1647 | | | | | |
| GWP-biogenic | kg CO2 eq | 20.1 | 0.031 | 0.019 | 0 | 8.13E-04 | -8.83 | | | | | |
| GWP-luluc | kg CO2 eq | 1.19 | 1.65E-03 | 2.53E-03 | 0 | 7.12E-05 | -0.757 | | | | | |
| GWP-total | kg CO2 eq | 2473 | 1.31 | 8.70 | 0 | 0.263 | -1657 | | | | | |
| ODP | kg CFC 11eq | 1.25E-04 | 7.22E-08 | 2.13E-06 | 0 | 1.08E-07 | -7.34E-05 | | | | | |
| АР | mol H+ eq | 10.4 | 6.19E-03 | 0.027 | 0 | 2.48E-03 | -6.97 | | | | | |
| EP-Freshwater | kg PO43- eq | 1.16 | 7.86E-04 | 3.03E-03 | 0 | 3.32E-04 | -0.750 | | | | | |
| EP- Aquatic Freshwater | kg P eq | 0.115 | 9.32E-05 | 6.50E-05 | 0 | 2.76E-06 | -0.070 | | | | | |
| EP-Marine | kg N eq | 2.15 | 1.28E-03 | 6.11E-03 | 0 | 8.60E-04 | -1.44 | | | | | |
| EP-Terrestrial | kg N eq | 23.9 | 0.012 | 0.068 | 0 | 9.47E-03 | -15.9 | | | | | |
| POCP | kg NMVOC eq | 11.0 | 4.50E-03 | 0.027 | 0 | 2.75E-03 | -7.13 | | | | | |
| ADP-minerals & metals* | kg Sb eq | 0.033 | 9.24E-06 | 2.12E-05 | 0 | 5.87E-07 | -0.024 | | | | | |
| ADP-fossil* | MJ | 26094 | 18.9 | 141 | 0 | 7.35 | -16065 | | | | | |
| WDP | m3 | 759 | 0.995 | 0.466 | 0 | 0.330 | -299 | | | | | |

GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; **EP-terrestrial** = Eutrophication potential, Accumulated Exceedance; **POCP** = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption



Potential Environmental Impact

Additional Mandatory and Voluntary Indicators

| | Results for 1000kg of ERW Steel Pipe | | | | | | | | | | | |
|----------------------|--------------------------------------|----------|----------|----------|----|----------|-----------|--|--|--|--|--|
| Indicator | Unit | A1:A3 | C1 | C2 | C3 | C4 | D | | | | | |
| GWP-GHG ¹ | kg CO2 eq | 2360 | 1.23 | 8.59 | 0 | 0.258 | -1584 | | | | | |
| | Results for 1000kg of ERW Steel Pipe | | | | | | | | | | | |
| PM | [disease inc] | 1.65E-04 | 3.89E-07 | 7.57E-07 | 0 | 4.84E-08 | -1.20E-04 | | | | | |
| IRP | [kBq U235 eq] | 58.2 | 0.110 | 0.620 | 0 | 0.030 | -27.2 | | | | | |
| ET-freshwater | [CTUe] | 63187 | 30.8 | 108 | 0 | 4.62 | -45356 | | | | | |
| HT-cancer | [CTUh] | 1.45E-05 | 3.57E-08 | 3.31E-09 | 0 | 1.38E-10 | -1.00E-05 | | | | | |
| HT-non-cancer | [CTUh] | 5.36E-05 | 3.17E-08 | 1.12E-07 | 0 | 2.88E-09 | -3.67E-05 | | | | | |
| SQP | [pt] | 11377 | 4.80 | 162 | 0 | 15.4 | -7702 | | | | | |

GWP-GHG = Global Warming Potential total excl. biogenic carbon following IPCC AR5 methodology; **IRP** = Ionizing radiation, human health; **ET-freshwater** = Eco-toxicity (freshwater); **HT-cancer** = Human toxicity, cancer effects; **HT-non-cancer** = Human toxicity, non-cancer effects; **SQP** = Potential soil quality index (SQP)

1 The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

^{*} Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

Use of Resources

| Results for 1000kg of ERW Steel Pipe | | | | | | | | | | | | |
|--------------------------------------|-------------|-------|-------|-------|----|-------|--------|--|--|--|--|--|
| Indicator | Unit | A1:A3 | C1 | C2 | C3 | C4 | D | | | | | |
| PERE | kg CO2 eq | 2522 | 2.22 | 1.72 | 0 | 0.059 | -1594 | | | | | |
| PERM | kg CO2 eq | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| PERT | kg CO2 eq | 2522 | 2.22 | 1.72 | 0 | 0.059 | -1594 | | | | | |
| PENRE | kg CO2 eq | 27619 | 20.0 | 150 | 0 | 7.81 | -17000 | | | | | |
| PENRM | kg CFC 11eq | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| PENRT | mol H+ eq | 27619 | 20.0 | 150 | 0 | 7.81 | -17000 | | | | | |
| SM | kg N eq | 1047 | 0 | 0 | 0 | 0 | 0 | | | | | |
| RSF | kg N eq | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| NRSF | kg NMVOC eq | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| FW | kg Sb eq | 93.0 | 0.170 | 0.129 | 0 | 0.012 | -38.3 | | | | | |

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials;

PERM = Use of renewable primary energy resources used as raw materials;

PERT = Total use of renewable primary energy resources;

PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials;

PENRM = Use of non-renewable primary energy resources used as raw materials;

PENRT = Total use of non-renewable primary energy resources used as raw materials;

PENRT = Total use of non-renewable primary energy resources;

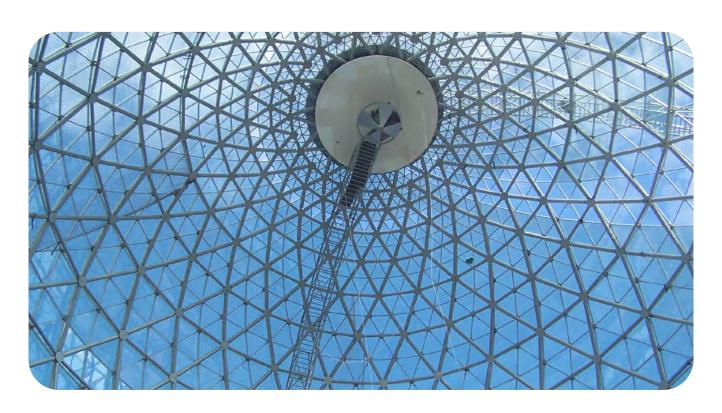
SM = Use of secondary material;

RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; **FW** = Use of net fresh water



Differences versus Previous Versions

This EPD has been revised to reflect the organizational name change, the renewed company logo and the updated official company website address.



Waste Production

| Results for 1000kg of ERW Steel Pipe | | | | | | | | | | | |
|--------------------------------------|----|----------|---|---|---|---|---|--|--|--|--|
| Indicator Unit A1:A3 C1 C2 C3 C4 D | | | | | | | | | | | |
| Hazardous waste disposed | kg | 3.30E-03 | 0 | 0 | 0 | 0 | 0 | | | | |
| Non-hazardous waste disposed | kg | 0.274 | 0 | 0 | 0 | 0 | 0 | | | | |
| Radioactive waste disposed | kg | 0 | 0 | 0 | 0 | 0 | 0 | | | | |

Output Flows

| Results for 1000kg of ERW Steel Pipe | | | | | | | | | | | |
|--------------------------------------|------|-------|----|----|----|-----|---|--|--|--|--|
| Indicator | Unit | A1:A3 | C1 | C2 | C3 | C4 | D | | | | |
| Component for re-use | kg | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Materials for recycling | kg | 72.4 | 0 | 0 | 0 | 950 | 0 | | | | |
| Materials for energy recycling | kg | 7.06 | 0 | 0 | 0 | 0 | 0 | | | | |
| Exported energy, electricity | MJ | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Radioactive waste disposed | MJ | 0 | 0 | 0 | 0 | 0 | 0 | | | | |



REFERENCES

ISO 14020:2000

Environmental labels and declarations -- General principles

ISO 14040:2006

Environmental management -- Life cycle assessment -- Principles and framework

ISO 14044:2006

Environmental management -- Life cycle assessment -- Requirements and guidelines

ISO 14025:2006

Environmental labels and declarations -- Type III environmental declarations -- Principles and procedures

EN 15804:2012+A2:2019

Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction product

The International EPD® System

www.environdec.com

The International EPD® System The General Programme Instructions v3.01

The International EPD® System PCR 2029:14 Construction products v1.1 (EN 15804:A2)

Ecoinvent 3.7.1

www.ecoinvent.org

SimaPro LCA Software

www.simapro.com

Borusan Pipe

https://borusanboru.com/en

CONTACT

Third party verfier

Sunil Kumar
SimaPro partners for India & Sri Lanka
+91-9911921666
SIPL Pvt Ltd
www.sipl-sustainability.com

Owner of Declaration

Borusan Birleşik Boru Fabrikaları San. ve Tic. A. Ş. Ata Mh. Sanayi Cad. No: 54/68 16601 Gemlik/Bursa https://www.borusanboru.com

LCA Study & EDP Design Conducted By

Semtrio Sustainability Consulting BUDOTEK Teknopark, No 8/27 Umraniye/Istanbul Turkey www.semtrio.com

Programme Operator

EPD International AB
EPD® International AB Box 21060 SE-100 31 Stockholm, Sweden
www.environdec.com
info@environdec.com

Licensee

EPD Türkiye, SÜRATAM Sürdürülebilirlik Danışmanlığı A.Ş. Nef 09 B Blok No: 7/15 34415 Kagithane/Istanbul, Turkey www.epdturkey.org info@epdturkey.org











