Zakład Produkcyjno Usługowy Międzyrzecz
POLSKIE RURY PREIZOLOWANE Sp. z o.o.
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company's seat

ZPU Międzyrzecz Sp. z o. o. has been operating under that name for 10 years. In 2000, as a result of ownership transformation, a new company called Zakład Produkcyjno Usługowy Międzyrzecz POLSKIE RURY PREIZOLOWANE Sp. z o.o. was set up.

The Company's Board is composed of:

1. ***Henryk Górczyński**, MSc - President of the Board*
2. ***Dariusz Górczyński**, MSc - Vice President of the Board.*

Zakład Produkcyjno Usługowy Międzyrzecz POLSKIE RURY PREIZOLOWANE Sp. z o.o. is a company designing, manufacturing, installing and servicing preinsulated pipe and fittings to be used in buried and above ground heat distribution lines and PE pipe and fittings to be used in the construction of water mains, sewer systems and other process service lines under the proprietary name of ZPU Międzyrzecz Sp. z o. o. System.

Pipes and fittings are produced in facilities newly built in the years 1998 and 2015.

1. Production shops have an area of 8 030 m^2;
2. roofed end product storage facility of a usable area of 2 597 m^2;
3. storage yard of an area of 79 061 m^2.

The intended use of preinsulated pipe and fitting system is pipelines used in the thermal generation and general industry sectors. They carry various heating media, most of all hot water, hot tap water and steam.

ZPU Międzyrzecz Sp. z o.o. is a state-of-art specialist producer who owing to its efficient management, performance and organisation provides services at an European level and to quality of products on offer.

The company's strategy consists in providing comprehensive construction and assembly services, and comprehensive supplies of ZPU Międzyrzecz Sp. z o. o. System preinsulated pipes and fittings.

The System of Quality Control presently in use is compliant with the standard PN-EN ISO 9001:2009 integrated with the Environmental Management System compliant with the standard PN-EN ISO 14001:2005 and certified by PCBC – Certificate No JS-124/5/2013.

Since May 23, 2007 we have possessed The Euroheat & Power Certificate No. 01/05 issued by international organization from Sweden which is engaged in the matters of district heating systems. This certificate confirms quality and accordance of our preinsulated assortment with requirements EN 253, EN 448 and Euroheat & Power guidelines. From March 21, 2012 we also have the CSTB-Avis Technique 14/11-1642*V1 Certificate confirming compliance with the quality requirements for preinsulated products with a steel carrier pipe.

On 12 December 2013 we have obtained Certificate No TSP-3834-009.00 confirming compliance with the quality requirements concerning the welding ranked by PN-EN ISO 3834-2:2007 issued by TÜV SÜD Polska Sp. z o.o.

The Company manufactures preinsulated units which meet the requirements specified by the Polish standards: PN-EN 253, PN-EN 448, PN-EN 488, PN-EN 489, PN-EN 13941,and PN-EN 14419 as well as Technical Approvals issued by ITB, Warsaw, which attest the usability of products in the construction industry.
We are a company that takes advantage of engineering and technological solutions. Materials that we use come from certified suppliers who can guarantee that materials bought from them are of highest quality.

ZPU Międzyrzecz Sp. z o. o. preinsulated products stand out from other manufacturers' products because:

- **preinsulated units are manufactured in an environmentally friendly manner;**
- **the steel carrier pipe is class one shot blasted prior to being insulated with foam;**
- **we are the first manufacturer in Poland to use cyclopentane, which is not detrimental to the ozone layer;**
- **we are a Polish manufacturer of:**
  - **machine bent pipes;**
  - **machine bent elbows up to DN 300;**
  - **ordinary heat shrinkable sleeves;**
  - **radiation and chemically cross-linked heat shrinkable sleeves;**
  - **electrically welded couplings;**
  - **flexible preinsulated pipes and fittings with the carrier pipe from cross-linked polyethylene (PE-X) to be used in buried heat utilities – single and double pipe M-Pex® system in external diameters between DZ 25 and DZ 125.**
  - **preinsulated flexible pipes with a steel carrier pipe with the diameters of Dz 20, Dz 25 and Dz 28 for underground heat distribution networks -DAR-FLEX system;**
  - **preinsulated pipes and fittings of ZPU Międzyrzecz Sp. z o.o. system with two carrier pipes in the range of diameters of DN 2x20 ÷ 2x200.**
  - **single and double preinsulated pipes with diffusion barrier a diameter of casing pipe up to Dz 400.**
- **We manufacture HDPE jacket pipe in a nominal diameter range of DN 75 ÷ 1200, whose internal areas are activated by induced electrons.**

We manufacture and sell:

- **PE 100 (navy blue)** polyethylene pipe, to be used in water mains, in diameters between 20 and 1200 mm, in the following diameter ranges: SDR 7.4; 9; 11; 13.6; 17; 21; 26; 33 and 41, supplied as straight units 12 m long (standard) and on customer's request up to 15m (for diameters between 75 and 1200 mm), and coiled in lengths up to 200 m (for diameters between 20 and 110 mm);
- polyethylene pipe for water PE 100 with casing tube from polyethylene to be used in construction of pressure pipeline, in diameters between 560 mm and 1200 mm, in the following diameters ranges: SDR 7,4; 9; 11, 13,6; 17; 21; 26; 33 and 41, supplied as straight units 12 m long (standard) and on customer's request up to 15 m;
- polyethylene pipes grade **PE 100 – black**, to be used in delivery sewer systems, in diameters between 32 and 1200 mm, in the following diameter ranges: SDR 7.4; 9; 11; 13.6; 17; 21; 26; 33; 41, supplied as straight units 12 m long (standard) and on customer's request up to 15 m (for diameters between 75 and 1200 mm), and coiled in lengths up to 200 m (for diameters between 32 and 110 mm);
- polyethylene culvert pipes in diameters between 50 and 1000 mm, supplied in straight units 6 , 12 m long and on customer's request up to 15 m;
- sleeves manufactured in diameters:
  - NTX- DN 75 ÷ DN 450
  - NT- DN 75 ÷ DN 450
  - TS- DN 75 ÷ DN 450
  - DT- DN 75 ÷ DN 1000
  - DX- DN 110 ÷ DN 1400

Polyethylene pipes to be used in water and sever utilities are manufactured in compliance set out with the following standard:
PN-EN 12201-2:2012 Plastics piping systems for water supply, and for drainage and sewerage under pressure - Polyethylene (PE)- Part: Pipes.

We hold Technical Approvals:

AT-15-7974/2015 for ***M-Pex® System Preinsulated Pipe and Fittings with a Carrier Pipe from Cross-Linked Polyethylene (PE-X) to Be Used in Buried Utilities*** issued by the Building Research Institute ITB, Warsaw.
AT-15-8451/2015 for ***ZPU Międzyrzecz Sp. z o. o. Preinsulated Pipe and Fittings with a Galvanised Steel Carrier Pipe to Be Used in Buried Utilities*** issued by the Building Research Institute ITB, Warsaw.
AT-15-8619/2015 - ***Preinsulated Pipe, fittings, bellow adapters and steel fixtures of ZPU Międzyrzecz Sp. z o.o. SPIRO-type for ground utilities*** issued by Building Research Institute ITB, Warsaw.
AT-15-7772/2014 for ***ZPU Międzyrzecz Sp. z o. o. Preinsulated Pipe and Fittings with two carrier pipes*** issued by the Building Research Institute ITB, Warsaw.
AT-15-8301/2014 + Annex No.1/2015 for ***ZPU Międzyrzecz Sp. z o.o. Preinsulated Pipe, Fittings,*** **Valves Assembly *and Joints Assembly to Be Used in Buried Utilities*** issued by the Building Research Institute ITB, Warsaw**.**

Promotional and trade activities in the country and abroad: in Germany, England, Holland, France, Austria, Bulgaria, Czech Republic, Slovakia, Lithuania, Latvia, Sweden, Denmark, Italy, Hungary is led by sales representatives and technical – trade offices.

The company provides trainings seminars in designing, construction and supervision of heat utilities based on our system, and in how to seal coupling air-tight and brass solder them.

The production and supply schedule covers the whole range of pipe, fittings and preinsulated fixtures used in transmission of heating media and hot process water where carrier pipe nominal diameters are within a range of DN 20 and DN 1200 mm. Preinsulated pipes with diameters ranging from DN 139 to DN 1200 are also produced with a length of L-16m

As regards their application, the following materials are used in production:

- seamless non-alloyed pipe St-37.0, and P235GH, P235TR1, P235TR2 quality as per standard DIN 1629, PN-EN 10216-2+A2, PN-EN 10216-1/A1;
- seamed non-alloyed pipe, of St-37.0 and P235GH, P235TR1, P235TR2 compliant with DIN 1626, PN-EN 10217-2/A1, PN-EN 10217-5/A2, PN-EN 10217-1/A1;
- galvanised pipe in accordance with PN-EN 10240; PN-EN ISO 1461, PN-EN 1179, material as specified above;
- certified pipe made of: polyethylene, hard polyethylene, polyvinyl chloride, copper, or other depending on end use and customer's requirements;
- structural steel tubes to be built in mining shafts, material: diameter range between 40 and 200 mm.

ZPU Międzyrzecz Sp. z o. o. steel pipe ends are bevelled so that they can easily be welded.

Rigid polyurethane of a thermal conductivity coefficient PUR λ_{50} = 0.0244 W/m K foamed by means of cyclopentane is used as an insulating medium. The maximum continuous temperature of use is 152^{O}C.

Jacket pipes for buried district heating utilities are made of high density polyethylene PEHD (PE 100) according to PN-EN 253.

Overhead district heating systems are cased in SPIRO spiral galvanised metal sheets in accordance with standard PN-EN 10346, or aluminium sheets in accordance with PN 485-1, PN-EN 485-2, PN-EN 485-4 **and stainless steel sheets as well as special polyethylene pipe resistant to ultraviolet radiation.**

Moreover SPIRO pipes and fittings with steel carrier pipe possesses Certificate No.: B/1421/III/2012 issued by Central Mining Institute at 08.02.2012.

We also supply pipe to be used in steam service connections which are lined with a double insulation layer: polyurethane layer and an additional layer in special mineral wool.

We supply preinsulated elbows of bend angles between 15° and 90°, flat T-joints, wyes, straight, reducing, strainer and vent tees, reducing pipes, fixed points, bellows expansion pipe couplings and shutoff valves.

ZPU Międzyrzecz Sp. z o. o. can also supply any preinsulated elements a customer may request, e.g. individually specified bend angles and other elbow lengths, specified diameter configuration in tees and reducing pipes, t-pieces according to standards: PN-EN 448 and PN-EN 13941, i.e. t-piece with drawn collar on the polyethylene (there are only butt welds) or t-pieces with pope weld on the polyethylene, where steel tees are made as a: t-piece with drawn collar on the main pipeline and with branch butt welded to it (without pope welds on steel), forged t-pieces with butt welded straight steel sections, t-piece with drawn collar butt welded to the main pipe, t-pieces with branch welded directly to the main pipeline (with pope welds), t-pieces with branch welded directly to the main pipeline together with reinforced plate.

ZPU Międzyrzecz Sp. z o. o. offers three types of joint couplings:

- **slip-on sleeves – PEHD sleeve sealed with heat shrinkable tape "N";**
- **heat shrinkable – a heat shrinkable PEHD slip-on sleeve sealed with heat shrinkable band "NT";**
- **radiation cross-linked heat shrinkable, type„NTX"**
- **chemically cross-linked heat shrinkable, type „TS"**
- **shrinkable electrically welded, type "DT"**
- **electrically welded, type "DX" and "DX II"**

ZPU Międzyrzecz Sp. z o. o. preinsulated pipes and fittings can be furbished with pipe leak detection wiring system. Such wiring, embedded in pipe and preinsulated units, signals emergencies on the line and allows to locate a failure. Signal circuits, alarm devices and leak failure locators are included in a system.

Our company furbishes pipe and preinsulated units with a pulse (reflectometric) detectors, and – if requested – Brandes resistance systems.

Furthermore, we provide heat distribution utility design and project implementation services. We also inform that we perform the following services free of charge:

- conversion of other preinsulated technologies so that they could meet our requirements;
- review technical specifications drawn up by designers.

We hope that the presented information will prove helpful and you will stay in touch with us.
Yours,

President of the Board
Managing Director

Henryk Górczyński, MSc, BSc