



**Republika e Kosovës
Republika Kosova-Republic of Kosovo
Qeveria-Vlada-Government**

***Ministria e Industrisë, Ndërmarrësisë dhe Tregtisë - Ministarstvo Industrije, Preduzetništva i Trgovine - Ministry of Industry,
Entrepreneurship and Trade***

**ADMINISTRATIVE INSTRUCTION (MIET) No. 09/2023
ON SETTING THE CONDITIONS FOR PLACING ON THE MARKET OF ELEMENTS OF PLASTIC PIPING SYSTEM**

Minister of the Ministry of Industry, Entrepreneurship and Trade,

Pursuant to Article 25, 50 and 52 of the Law No. 06/L-033 on Construction Products (Official Gazette of the Republic of Kosovo / No. 21 / 05 December 2018), article 8, paragraph 1, sub-paragraph 1.4, Appendix 12 of Regulation Nr. 02/2021 on the areas of administrative responsibility of the Office of the Prime Minister and Ministries and Article 38, paragraph 6 of the Rules of Procedure of the Government No. 09/2011 (Official Gazette No. 15, 12.09.2011),

Issues:

**ADMINISTRATIVE INSTRUCTION (MIET) No. 09/2023
ON SETTING THE CONDITIONS FOR PLACING ON THE MARKET OF ELEMENTS OF PLASTIC PIPING SYSTEM**

**Article 1
Purpose**

1. This Administrative Instruction defines the specific technical requirements for the production and marketing of elements of plastic piping systems for the supply of water intended for human use, the conveyance of polluted and waste water.
2. This Administrative Instruction also defines the requirements for the technical specifications and the system that is applied for the assessment and verification of the consistency of performance (AVCP) of the elements of plastic piping systems according to paragraph 1 of this article, as well as the drafting of the declaration of performance.

**Article 2
Scope**

1. This Administrative Instruction applies to piping system elements made of plastic materials, which are intended for use in piping systems for:
 - 1.1. water supply intended for human use;

1.2. conveyance of polluted and sewage water.

Article 3

Essential characteristics and requirements of performance of elements for piping plastic system

1. The products that make up the elements of the piping system are subject to the following requirements:

1.1. The products shall comply with the requirements of standards (latest versions including the amendments and changes) as follows:

1.1.1. SK EN 12201-1:2014 Plastics piping systems for water supply, and for drainage and sewerage under pressure - Polyethylene (PE) - Part 1: General;

1.1.2. SK EN 12201-2:2011+A1:2022 Plastics piping systems for water supply, and for drainage and sewerage under pressure - Polyethylene (PE) - Part 2: Pipes

1.1.3. SK EN 12201-3:2011/A1:2016 Plastics piping systems for water supply, and for drainage and sewerage under pressure - Polyethylene (PE) - Part 3: Fittings;

1.1.4. Plastics piping systems for water supply, and for drainage and sewerage under pressure - Polyethylene (PE) - Part 4: Valves;

1.1.5. Plastics piping systems for water supply, and for drainage and sewerage under pressure - Polyethylene (PE) - Part 5: Fitness for purpose of the system;

1.2. Products which are in accordance with the requirements of national standards from another country that are technically equivalent transpositions of this standard shall be allowed to be placed on the market of the Republic of Kosovo;

1.3. The manufacturers shall declare performance levels of the essential mandatory characteristics set out in Annexes 1, 2, 3 and 4 of this Administrative Instruction;

1.4. Compulsory characteristics shall be declared in all cases, other characteristics shall be declared if required by the specification in accordance with Annexes 1, 2, 3 and 4 of this Administrative Instruction;

1.5. The manufacturer shall draw up the declaration of performance (DoP) using the model set out in Annex 5 to this Administrative Instruction;

1.6. In all cases, the characteristics listed in sub paragraph 1.3 of this paragraph, shall be declared with a performance value or class;

1.7. The elements of the pipeline system made of plastic materials are placed on the market of the Republic of Kosovo only if the system of assessment and verification of the consistency of performance has been implemented by an accredited laboratory for test methods with the relevant standards according to this Administrative Instruction.

Article 4

Annexes

1. Annexes 1, 2, 3 and 4 are an integral part of this Administrative Instruction:

1.1. Annex 1: Characteristics of PP and PE for pipes and connectors;

1.2. Annex 2: Mechanical characteristics of pipes;

1.3. Annex 3: Mechanical characteristics of connectors;

1.4. Annex 4: Specifications for external reprocessed and recycled material from PVC-U products

1.5. Annex5; Model of Declaration of Performance.

Article 5

Inspection surveillance

The provisions of this Administrative Instruction are implemented by the Market Inspectorate, in accordance with the law on construction products and relevant legislation on market surveillance.

Article 6
Entry into force

This Administrative Instruction shall enter into force seven (7) days after being published in the “Official Gazette” of the Republic of Kosovo.

Rozeta HAJDARI

Minister

Prishtina, 23.08.2023

ANNEX I

External characteristics for pipes and fittings from PP and PE

Characteristic	PP Requirements	PE Requirements	Test method ^{a b}
Basic material			
Density	> 900 kg/m ³	> 930 kg/m ³	EN ISO 1183-1
Thermal Stability OIT	≥ 8 min	≥ 20 min	EN ISO 11357-6 Temperature: 200°C
MFR	≤ 1,5 g/10min	≤ 1,6 g/10min	EN ISO 1133-1
Ash residue	≤ 25 %	≤ 25 %	EN ISO 3451-1
Extraneous polymers	≤ 5 %	≤ 5 %	IR analyses or DSC
Impurities	Mesh size to be agreed between manufacturer and supplier	Mesh size to be agreed between manufacturer and supplier	
Type of pigment and/or additives	To be agreed between manufacturer and supplier	Të përcaktohet ne pajtim me prodhuesin dhe furnizuesin	Sipas analizës
Volatile matter	≤ 300 mg/kg	≤ 300 mg/kg	EN 12099
^a Samples shall be taken from the compounded and pelletized or from each individual material batch source. The frequency of sampling shall be agreed between supplier and product manufacturer and where relevant, accredited testing laboratory or accredited certification body. ^b If the source of material is consistent, e.g. pipes and fittings or other products produced under a quality mark, it is not required to test those material characteristics covered by the quality mark.			
Additional specification for external materials from pipes and fittings from PE and PP			

a) It shall at least cover the characteristics given in Table D1 for PP products.
b) When determined in accordance with the test methods given in Tables D1 for PP the actual values from these characteristics shall conform to the values given in the agreed specification
c) Each delivery shall be covered by a declaration showing conformity to the agreed specification . This declaration can be made by either the material supplier or the product manufacturer as agreed between the parties.
d) The quality plan of the supplier of external reprocessed or recycled material should conform to EN ISO 9001.

ANNEX II

Mechanical characteristics of pipes

Characteristic	Requirements	Test parameters		Test
Ring stiffness ^c	$\geq$ relevant SN	Shall conform to EN ISO 9969		EN ISO 9969
Impact strength 0°C ^a (Round the clock method) dim max $\leq$ 1 200	TIR $\leq$ 10 %	Test temperature Conditioning medium Type of striker Mass of striker for: dim max $\leq$ 100 100 < dim max $\leq$ 125 125 < dim max $\leq$ 160 160 < dim max $\leq$ 200 200 < dim max $\leq$ 250 250 < dim max $\leq$ 315 315 < dim max $\leq$ 1200 Fall height of striker for: dim max $\leq$ 110 dim max > 110	(0 $\pm$ 1) °C Liquid bath or air d90 0,5 kg 0,8 kg 1,0 kg 1,6 kg 2,0 kg 2,5 kg 3,2 kg 1 600 mm 2 000 mm	SK EN ISO 3127
Impact strength at 0°C ^a for dim max > 1 200	See Annex K Both methods	Fall height of striker Mass of striker	2 000 mm 3,2 / 5,0 kg	Annex K
Ring flexibility 30 ^b	Shall conform to 9.1.2	Deflection	30 % of dem	EN ISO 13968
		Length of test piece	As specified in EN ISO 9969	
		Length of test piece	As specified in EN ISO 9969	
		Age of the test pieces	(21 $\pm$ 2) days	
Creep ratio ^d	PVC-U: $\leq$ 2,5 at 2 years extrapolation	Shall conform to EN ISO 9967		SK EN ISO 9967

	PP and PE: ≤ 4 at 2 years extrapolation			
Tensile strength of seam	Shall conform to 9.1.3	Rate of movement	15 mm/min	SK EN ISO 13262

ANNEX 3

Mechanical characteristics of fittings

Characteristic	Requirements	Test parameters		Test method
Stiffness ^a	≥ relevant SN	Shall conform to EN ISO 13967		SK EN ISO 13967
Impact test	No cracks through the wall; jumped off sealing elements shall be able to be restored in correct position manually	Test temperature Drop height for: ^d e ≤ 125: ^d e > 125: Position of impact	°C 1 000 mm 500 mm Mouth of the socket	SK EN ISO 13263
Mechanical strength or flexibility ^b	No signs of splitting, cracking, separation and/or leakage	EITHER		
		Test period Minimum moment for: ^d e ≤ 250 ^d e > 250	15 min 0,15 [DN] ³ x 10 ⁻⁶ kNm 0,01 [DN]	SK EN ISO 13264
		OR		
		Minimum displacement	170 mm	SK EN ISO 13264

^a When a fitting according to this standard has the same wall construction as a corresponding pipe, the stiffness of the fitting, because of its geometry, is equal to or greater than that of the pipe. Such fittings can be classified with the same stiffness class as that pipe without testing of the stiffness. It should be emphasized that the stiffness of fittings is only one of the design parameters. Normally mechanical strength, heat resistance and a number of other parameters are more important than stiffness assuring good performance.

^b Only for fabricated fittings made from more than one piece (a sealing ring retaining component is not considered as a piece) or when the minimum wall thickness in the body, e4,min, is less than 0,9 × dem/51), (0,9 × dem/41) (or 0,9 × dem/33) for PVC, PP and PE respectively.

ANNEX IV

Specifications for external reprocessed and recycled material from PVC-U products

Characteristic	Requirements	Text methods ^{a, b}
Density	$1\,390\text{ kg/m}^3 \leq \text{densiteti} \leq 1\,700\text{ kg/m}^3$	EN ISO 1183-1
Filler content by ash rest	Annex A of standard EN 13476-3	EN ISO 3451-5c
K-value;	$56 \leq \text{K-value} \leq 70$	EN ISO 13229
Vicat softening temperature (VST)	$\geq 62\text{ }^{\circ}\text{C}$	EN ISO 2507-1
Particle size	$> 1\,000\text{ }\mu\text{m}$: maximum 15 % by mass $< 1\,400\text{ }\mu\text{m}$: 100 % by mass	sieve analyse
Impurities	$\leq 0,15\text{ }\%$	EN 15346:2014, Annex C or evaluation of sheets or evaluation of micronized material

^a Samples shall be taken from the compounded and pelletized or from each individual material batch source. The frequency of sampling shall be agreed between supplier and product manufacturer and where relevant, accredited testing laboratory or accredited certification body.

^b If the source of material is consistent, e.g. pipes and fittings or other products produced under a quality mark, it is not required to test those material characteristics covered by the quality mark.

^c The test procedure shall be defined in the specification of the supplier and the product manufacturer.

ANNEX A of standard EN 13476-3

Compound / formulation PVC-U material

The compound / formulation shall be PVC to which are added additives needed to facilitate the manufacture of components conforming to the requirements of this standard.

When calculated on the basis of a known formulation or, in case of dispute/not known formulation, determined in accordance with EN ISO 1158, the PVC-U content shall be at least 80 % by mass for pipes and 85 % by mass for injection-moulded fittings;

Further reduction of the PVC-U content to ≥ 75 % by mass for pipes only is permitted provided the PVC-U is substituted by coated or uncoated CaCO_3 .

ANNEX V

Declaration of Performance Model

DECLARATION OF PERFORMANCE NO

1. Unique identification code of the product type:.....

2. Intended use/es:.....

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3. Manufacturer :

.....

4. Authorised representative:

5. System/s of AVCP:.....

6a. Applied standard:

.....

Designated body:.....

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7. Declared performance/s:.....

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8. Appropriate Technical Documentation and/or Specific Technical Documentation:

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The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with this Administrative Instruction, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

[name]

At [place] on [Date of issue]

[signature]