

Decree of the Ministry of the Environment

amending the Decree on the type approval of multilayer pipes and couplings intended for water supply installations in buildings

In accordance with the decision of the Ministry of the Environment
Section 4 and Annex 1 of the Decree on the type-approval of multilayer pipes and couplings intended for water systems in buildings (4/19) are *repealed*; and
Section 3, Tables 2.3, 2.4 and 2.5 of Annex 2, and Table 3.1 of Annex 3 are *amended* as follows:

Section 3

Attestation of Conformity

Type-approval demonstrates that multilayer pipes and their couplings comply with the essential technical requirements laid down in section 33 of the Building Act (751/2023) and in regulations issued pursuant thereto.

This decree shall enter into force on [date] [month] 20xx.

Directive (EU) 2015/1535 of the European Parliament and of the Council (32015L1535); OJ L 241, 17.9.2015, p. 1

Helsinki, [day] [Month] 20[xx]

Minister of ... First name Last name

Title First name Last name

Tests for the type-approval of multilayer pipes and couplings

Table 2.3. Properties to be tested in type tests for M pipes, test scope and samples to be tested.

Characteristic	Test scope ¹⁾							Samples to be tested
	T	M 1	M 2	M 3	M 4	M 5	W	
Appearance	+	+	+	+	+	+	+	all samples
Dimensions	+	+	+	+	+	+	+	1 sample / size / all sizes
Long-term strength	+	+	+	+	+	+	+	1 sample / size group
Heat resistance, inner layer	+	+	-	-	+	-	-	1 sample / equivalent structure type
Heat resistance, external layer	+	+	+	-	+	-	-	1 sample / equivalent structure type
Welded joint efficiency	+	-	-	+	+	-	-	1 sample / equivalent structure type
Delamination	+	+	-	+	+	+	-	1 sample / equivalent structure type
Physical and chemical properties	+	+	+	+	+	+	+	1 sample / equivalent structure type
¹⁾ T: type test M1: change in material that impacts structure strength M2: change in material that does not impact structure strength M3: change in metal M4: change in structure M5: change in adhesive L: expansion of product range + test to be performed								

Table 2.4. Properties, test scope and samples of P pipes to be type tested.

Characteristic	Test scope ¹⁾						Samples to be tested 3 samples
	T	M 1	M 2	M 4	M 5	W	
Appearance	+	+	+	+	+	+	all samples
Transparency	+	+	+	+	+	-	1 sample, smallest wall thickness
Dimensions	+	+	+	+	+	+	1 sample / size / all sizes
Long-term strength	+	+	+	+	+	-	one estimate / all sizes
Heat resistance	+	+	+	-	-	+	1 sample / equivalent structure type
Delamination	+	+	+	-	-	+	10 samples / equivalent structure type
Physical and chemical properties	+	+	+	+	+	+	1 sample / equivalent structure type
¹⁾ T: type test M1: change in material that impacts structure strength M2: change in material that does not impact structure strength M4: change in structure M5: change in adhesive L: expansion of product range + test to be performed							

Table 2.5. The properties to be tested in type tests for multilayer pipe couplings and samples to be tested, when multilayer pipe couplings of different sizes are equivalent in material and structure.

Characteristic	Samples to be tested
Surfaces and appearance	All samples
Nominal size and dimensions	1 piece / size, all sizes
Metallic couplings	
Material composition	1 pc., 1 size
Dezincification resistance	1 pc., 1 size
Stress corrosion	3 pcs. / size, 1 size
Plastic couplings	
Long-term strength	1 estimation / material
Heat resistance	1 sample/material
Transparency	1 sample / smallest wall thickness
Pressure resistance	3 samples / size / coupling group
Physical and chemical properties	2 samples / size group, 1 estimation / sealing material
Pipe system	
Sealing at overpressure	3 samples / size, 2 sizes / size group
under inflexion	3 samples / size, 2 sizes / size group
under temperature variation	2 samples / size
under pressure variation	3 samples / size
under negative pressure	3 samples / size, 2 sizes / size group
Tensile stress resistance	3 samples / size

Quality-control certification of multilayer pipes and couplings

Table 3.1. The properties to be tested in quality-control certification for multilayer pipes and couplings and testing frequency, when multilayer pipe couplings of different sizes are equivalent in material and structure.

Characteristic	Testing frequency
Rigid piping	
Appearance	3 samples / size group / material / year
Dimensions	3 samples / size group / material / year
Pressure resistance, 95 °C ≥ 1 000 h	3 samples / size group / material / year
Delamination	3 samples / size group / material / year
Marking	3 samples / size group / year
Multilayer pipe couplings	
Material composition	1 pc. / 1–2 years
Dezincification resistance of brass	The need for testing shall be assessed on the basis of material composition
Appearance	3 samples / size group / year
Dimensions	3 samples / size group / year
Plastic couplings, pressure resistance, 95 °C ≥ 1 000 h	3 sample / size group / fitting group / year
Marking	All samples
Analysis of coupling seals	Once a year / material
Pipe system	Each test: 3 pcs / size, sizes / year. Sizes to be tested shall be changed yearly.
Sealing at overpressure	
Sealing under tensile stress	
Marking	
Sizes to be tested shall be changed yearly	