



AENOR N Mark Specific Rules for flexible hose assemblies in drinking water installations

RP 001.92

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1 Purpose and scope

Pursuant to paragraph 3.2. of the General Rules on the Certification of Products and Services with N Mark, hereafter the General Rules, the present Specific Rules describe the specific certification scheme for flexible couple hoses for water installations for human consumption. The present Specific Rules complete the AENOR N Mark Specific Rules for plastic materials – common requirements (RP 001.00).

The General Rules always prevail over the present Specific Rules.

The N Mark for flexible hose assemblies in drinking water installations, hereafter the Mark, denotes product compliance with the standard SANS 1808-5:2010.

2 Definitions and special requirements

DN: Set of connections that have the same inner and outer diameter.

Type of hose: Hoses that are produced with the same base materials (eg: inner pipe and braiding).

The certification applicants shall submit a separate application for each type of hose.

3 Sampling and testing for granting and maintaining the product N Mark certificate

3.1 Test to be carried out in factory (See RP 001.00)

AENOR will carry out the test indicated in table 1, during the initial or surveillance inspection.

3.2 Sampling and tests to be carried out by the laboratory (See RP 001.00)

AENOR will select and marked the necessary samples to carry out in the laboratory the test indicated in table 1, where required.

The dimensional control test over the fittings will be done on free pieces, while the length of the hoses will be measured on the finished product. In both cases, the dimensional control will be done based on the dimension declared by the manufacturer as indicated in Annex C.



3.3 Assessment result criteria

The assessment criteria are indicated in table 1. The meaning of the criteria is as follow:

- Evaluation 1: The test result shall conform with the requirements of the Standard. Any value out of tolerance is not accepted.
- Evaluation 2: If only one of the test samples tested has a not conform test result, the
 test shall be repeat on other five test samples. In this case, any value out of tolerance
 is not accepted.

For evaluation of point 4.1 Materials, the inspector will make the necessary checks on factory.



	TESTS	GRANTING	SURVEILLANCE	ASSESSMENT RESULT		
TESTS TO BE CARRIED OUT BY THE INSPECTOR IN THE FACTORY	FIXED AND REVOLVED MALE FITTINGS AND FEMALE FITTING REVOLVED, STRAIGHT AND ELBOW					
	Minimum lenght of thread (I)	10 fittings randomly	10 fittings randomly	2		
	Size of thread (th) per type of thread (conical or cylindrical)	10 fittings randomly	10 fittings randomly	2		
	PLAIN END FITTINGS WITH AND WITHOUT RECESS					
	Minimum length (l1, l2, l3)	10 fittings randomly	10 fittings randomly	2		
	Inner diameterr (h)	10 fittings randomly	10 fittings randomly	2		
	External diameter (d1 y d2)	10 fittings randomly	10 fittings randomly	2		
	Wall thickness (t)	10 fittings randomly	10 fittings randomly	2		
	Wrench size (E)	10 fittings randomly	10 fittings randomly	2		
	End Caps	10 fittings randomly	10 fittings randomly	2		
	HOSES					
	Length	10 hoses randomly	10 hoses randomly	2		
TESTS TO BE	FITTINGS					
	Deszincification resistance (see note 1)	1 fitting randomly	1 fitting randomly	1		
CARRIED OUT BY	CARRIED OUT BY Torque test (cap nuts)		1 cap randomly	2		
THE LABORATORY	HOSES					
	Pressure cycling resistance	1 test/DN	1 test/DN	1		

TABLE 1

Note 1: Just for coppers alloy fittings.



4 Manufacturer internal control

4.1 Characteristics under factory production control (See RP 001.00)

- Raw material: Manufacturer must ensure that all components of hoses involved in the manufacture of the same ones having suitable characteristics.
- **Controls during manufacturing:** The tests and their frequency are indicated in table 2.
- Final product control: The tests and their frequency are indicated in table 2.

TEST	FREQUENCY				
DIMENSIONAL CONTROL ON FIXED AND REVOLVED MALE FITTINGS AND FEMALE FITTINGS -					
REVOLVED, STRAIGHT AND ELBOW					
Minimum lenght of thread (I)	According to internal procedure of the manufacturer				
Size of thread (th) per type of thread					
(conical or cylindrical)					
DIMENSIONAL CONTROL ON PLAIN END FITTINGS WITH AND WITHOUTH RECESS					
Minimum length (I1, I2, I3)					
Inner diameterr (h)					
External diameter (d1 y d2)	According to internal procedure of the manufacturer				
Wall thickness (t)	According to internal procedure of the manufacturer				
Wrench size (E)					
End Caps					
DIMENSIONAL CONTROL ON HOSES					
Length	According to internal procedure of the manufacturer				
TESTS ON FITTINGS					
Deszincification resistance (see note 1)	According to internal property of the many forther				
Torque test (cap nuts)	According to internal procedure of the manufacturer				
TESTS ON HOSES					
Pressure cycling resistance	One test every six months/ DN				

TABLE 2

Note 1: Just for coppers alloy fittings.



5 Marking of certified products

5.1 Marking of the pipes

The marking on the hoses will carry out every meter and shall include at least the following:

- N Mark logotype, with a size not less than 2,7 mm;
- Manufacturer´s trademark or identification;
- At least the last two digits of the production year.

The inner pipe must be marked with the name or trademark of the manufacturer or supplier and production date.

5.2 Marking of the packaging

The minimum required marking of the packaging is the following:

- Name of the producto;
- Reference to this standard SANS 1808-5;
- Nominal pressure of 10 bar (PN);
- Design temperature 70°C;
- Nominal diameter;
- Legth L, in mm;
- Type of fitting.

Example:

Hose assembly - SANS 1808-5 - PN 10 - 70 °C - DN xx - Lxxx - Fitting types X y X



Anexo C

Descriptive questionnaire for flexible hose assemblies in drinking water installations

CLIENT:		
MANUFACTURER COMPANY:		
FACTORY SITE:		
PRODUCT:		
STANDARD:		
TRADEMARK(S):		
DATE:		
FILL IN A FORM (ANNEX C) PER TY	PE OF	HOSE
NOMINAL DIAMETER (Dint x Dext)		
INNER PIPE		
BRAIDING (specify the material)		
LENGTHS (mm)		
TYPES OF COPPER ALLOY USED FOR THE FITTINGS		
TYPE OF FITTING		
SIZE AND TYPE OF THREAD		FITTING
(CONICAL O CILINDRICAL)		(According to Table 1 SANS 1808-5)
For any extension of the range, the cli questionnaire updated.	ient wil	I send the Committee Secretary this descriptive
		on of 20
S	IGNAT	URE AND STAMP OF THE MANUFACTURE