

Technical specifications

Watering system pipes with glued sleeve

Date: 01.12.2022
Version: 2.3

Scope of application

The pipes described in this technical specification are suitable for use in a sprinkling system. The pipes can be used in a water application, however it's not certified. When in use, the temperature of the pipe wall should remain between 0 °C and 45 °C. At a wall temperature from 26 °C to 35°C, a reduction factor of 0.8 should be applied to the maximum operating pressure. At a wall temperature from 36 °C to 45 °C, a reduction factor of 0.63 should be applied to the maximum operating pressure.

Pressure classes

Available types

Nominal outer diameter	Class 7.5	Class 10	Class 12.5	Class 16
25	On request	On request	On request	On request
32	On request	Yes	Yes	Yes
40	On request	Yes	Yes	Yes
50	Yes	Yes	Yes	Yes
63	Yes	Yes	Yes	Yes
75	Yes	Yes	Yes	On request
90	Yes	Yes	Yes	On request
110	Yes	Yes	Yes	On request
125	Yes	Yes	Yes	On request
160	Yes	Yes	Yes	On request
200	Yes	Yes	On request	On request
250	Yes	Yes	On request	On request
315	Yes	Yes	On request	On request
400	On request	On request	On request	On request

Minimum pressure with 1-hour pressure test at 20 degrees Celsius (bar)

Nominal outer diameter	Class 7.5	Class 10	Class 12.5	Class 16
All	According to NEN-EN-ISO 1167-			

Minimum pressure with 100-hour pressure test at 20 degrees Celsius (bar)

Nominal outer diameter	Class 7.5	Class 10	Class 12.5	Class 16
All	According to NEN-EN-ISO 1167-			

MAKING PROGRESS

Omniplast BV

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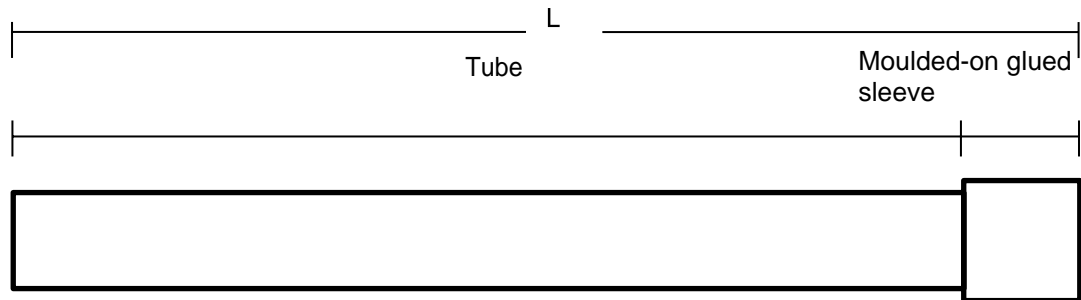
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Dimensions



Schematic representation of pipe with moulded-on glued sleeve

Tube dimensions (mm)

Nominal outer diameter	Tolerance for average outer diameter	Tolerance for non-circularity ¹⁾
25	0.2	0.5
32	0.2	0.5
40	0.2	0.5
50	0.2	0.6
63	0.3	0.8
75	0.3	0.9
90	0.3	1.1
110	0.4	1.4
125	0.4	1.5
160	0.5	2.0
200	0.6	2.4
250	0.8	3.0
315	1.0	3.8
	1.2	4.8

¹⁾The non-circularity requirement applies only before the pipe leaves the factory site.

Dimensions of moulded-on glued sleeve (mm)

Nominal outer diameter	Average inside diameter		Tolerance for non-	Minimum glue
	min	max		
25	25.1	25.3	0.25	18.5
32	32.1	32.3	0.25	22.0
40	40.1	40.3	0.25	26.0
50	50.1	50.3	0.3	31.0
63	63.1	63.3	0.4	37.5
75	75.1	75.3	0.5	43.5
90	90.1	90.3	0.6	51.0
110	110.1	110.4	0.7	61.0
125	125.1	125.4	0.8	68.5
160	160.2	160.5	1.0	86.0
200	200.2	200.6	1.2	106.0
250	250.3	250.8	1.5	131.0
315	315.4	316.0	1.9	163.5

¹⁾The non-circularity requirement applies only before the pipe leaves the factory site.

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Other specifications

- A tolerance of +0 mm and -5 mm applies to the nominal length (L).
- Colour: Dark grey
- Packing method: Not wrapped in film
- The smooth pipe end is provided with a chamfer
- Print:
 - PVC-U
 - Type
 - EAN no.
 - Omniplast logo
 - Reuse logo + "PVC with reuse guarantee"
 - Product line information
 - Date&Time

Additional tests:

- Dichloromethane resistance is measured to determine whether the PVC skin was properly gelled during production. There should be no deterioration of surface areas.
- When heated up to 150°C, no cracks, blisters or cavities may appear. The maximum length reduction is 5%.

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