# Technical specifications Sprinkler pipes with glued sleeve

Date: 09.11.2017

Version: 2.1

## Scope of application

The pipes described in this technical specification are suitable for use in a sprinkling system. The pipes cannot be used in a drinking water application. 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 1167-1:2006 | |  |

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 1167-1:2006 | |  |

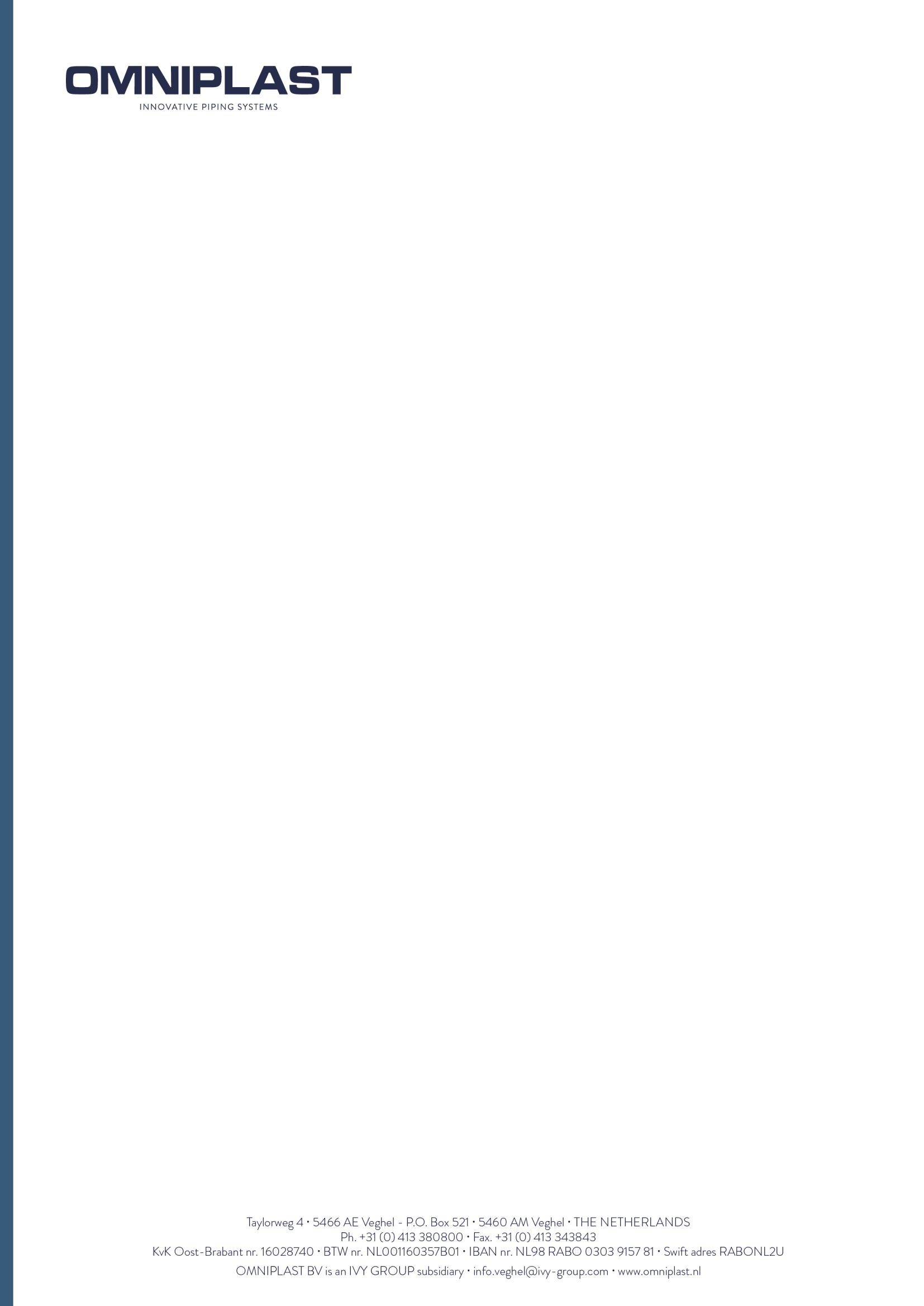
# Technical specifications Sprinkler pipes with glued sleeve

## Dimensions

L

Tube

Moulded-on glued sleeve



*Schematic representation of pipe with moulded-on glued sleeve*

Tube dimensions (mm)

|  |  |  |
| --- | --- | --- |
| **Nominal outer diameter** | **Tolerance for average outer diameter** | **Tolerance for non-circularity1)** |
| 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 |
| 400 | 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-circularity1)** | **Minimum glue length** |
| **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 |
| 400 | 400.5 | 401.2 | 2.4 | 206.0 |

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

# Technical specifications Sprinkler pipes with glued sleeve

## 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. Also, the skin may not get detached from the foam layer. The maximum length reduction is 5%.