



# Description



Double-walled (smooth on the inside, corrugated on the outside) heat fusion welded during the continuous extrusion manufacturing process. The groove marking equipment, together with the corrugating, produces the grooves for the draining in the troughs of the piping, which are the areas of least thickness, thus minimising the retention as the water passes.

## Physical characteristics

**Density:** 1,350 ÷ 1,520 kg/m<sup>3</sup>

Vicat Temperature: ≥ 79 °C UNE-EN 727 Linear expansion coefficient: 8 x 10<sup>-5</sup> °C Thermal conductivity: 0.13 kcal/m.h. °C Specific heat: 0.2 ÷ 0.3 cal/g. °C

**Equivalent roughness** (Prandtl-Colebrook):

K= 0.01 mm (aguas limpias)

 $K = 0.1 \div 0.25 \text{ mm (aguas residuales)}$ 

#### Mechanical characteristics

SCR (Specific circumferential rigidity): SCR ≥ 4 kN/m² UNE-EN ISO 9969 Creep coefficient PVC-U: ≤ 2.5 at 2 years UNE-EN ISO 9967

#### Chemical characteristics

pH limits: 3÷9 a 20 °C

Resistance to dichloromethane: 15 °C, 30 min UNE-EN 580

### **Fittings**

Extension sleeves and cones Elbows: 45° and 87,5° Tee fitting:: 45° and 87,5° Clip junctions: 45° and 87,5°

### **Applications**

- Road drainage (minor roads, main roads, railway lines)
- Agricultural drainage
- Drainage for buildings (foundation, floors)
- Playing fields
- Canals
- · Retaining walls





## Composition

U-PVC (Unplasticised polyvinyl chloride).

### Joint between pipes

By means of an elastic joint fitted to the end of the pipe.

#### Colour

Orange brown RAL 8023

## Overall length

6 metres

### Range

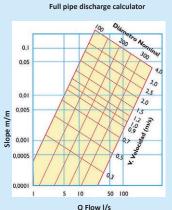
- Nominal Diameter(ND, mm) 110-160-200-250-315-400
- Internal Diameter (ID, mm) 101,5-146-182,4-227,9-285,2-364,1

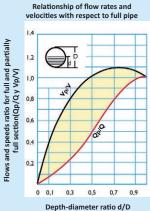
## **Draining characteristics**

ID (mm)	Corrugated steps (per linear m)	No. of grooves on perimeter	Half length slot (cm)	Slot width (cm)	Filtering surface (cm <sup>2</sup> /m)
101,5	110	2 *	4	0,13	114,4
146,0	60	2 *	4	0,13	62,4
182,4	50	4	4	0,13	104,0
227,9	40	5	4	0,13	104,0
285,2	30	5	5,8	0,13	112,1
364,1	25	5	6,8	0,13	109,7
	101,5 146,0 182,4 227,9 285,2	(per linear m)  101,5	(mm)         (per linear m)         perimeter           101,5         110         2 *           146,0         60         2 *           182,4         50         4           227,9         40         5           285,2         30         5	(mm)         (per linear m)         perimeter         slot (cm)           101,5         110         2 *         4           146,0         60         2 *         4           182,4         50         4         4           227,9         40         5         4           285,2         30         5         5,8	(mm)         (per linear m)         perimeter         stor (cm)         (cm)           101,5         110         2 *         4         0,13           146,0         60         2 *         4         0,13           182,4         50         4         4         0,13           227,9         40         5         4         0,13           285,2         30         5         5,8         0,13

<sup>\*</sup>Alternate grooves in consecutive troughs.

### Flows and speeds for full and partially full sections.





#### Reference regulations

- UNE 53994: Plastics. PVC-U, PE and PP pipes and fittings for drainage in building and civil engineering and agricultural drainage.
- UNE-EN 13476-3: Plastics piping systems for non-pressure underground drainage and sewerage - Structured-wall piping systems of unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) - Part 3: Specifications for pipes and fittings with smooth internal and profiled external surface and the system, Type B.

