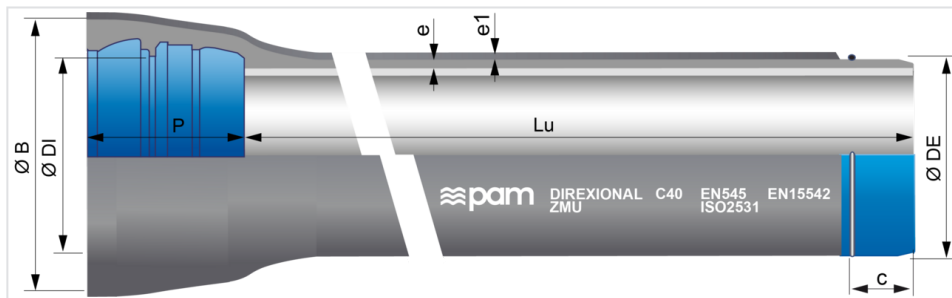


DIREXIONAL ZMU pipes DN350 to 600 with UNIVERSAL STANDARD socket + Weld bead Ve



| DN | Lu (m) | Class | e (mm) | e1 (mm) | ØDE (mm) | ØDI (mm) | P (mm) | ØB (mm) | Bead position c (mm) | Mass (kg/m) | References |
|-----|--------|-------|--------|---------|----------|----------|--------|---------|----------------------|-------------|------------|
| 350 | 5.97 | C40 | 7.7 | 5 | 378 | 380.9 | 184 | 463 | 115 | 95.30 | 224310 |
| 400 | 5.97 | C40 | 8.1 | 5 | 429 | 431.9 | 176 | 510 | 113 | 111.60 | 224311 |
| 500 | 5.97 | C40 | 9.3 | 5 | 532 | 535 | 200 | 625 | 125 | 155.80 | 224312 |
| 600 | 5.97 | C40 | 10.9 | 5 | 635 | 638.2 | 209 | 740 | 135 | 208.10 | 224313 |

Legend

- DN: nominal diameter
- Lu: laying length, in m
- Class: pressure class according to EN 545 and ISO 2531
- e: nominal thickness according to ISO 2531, in mm
- e1: external thickness of ZMU coating, in mm (cement mortar with acrylic fibers and resin) according to EN15542
- ØDE: external nominal diameter of the barrel according to EN 545 and ISO 2531, in mm
- ØDI: internal nominal diameter of the socket, in mm
- P: nominal depth of the socket, in mm
- ØB: nominal diameter of the socket, in mm
- c: weld bead position, in mm
- Mass: total mass per meter (including cement coating and socket), determined with the nominal thickness, in kg/m
- Reference: commercial reference Saint-Gobain PAM

Field of use:

- For drinking water networks
- High durability
- Total compatibility with drinking water
- For most of the soils, including rocky soils, those pipes can be laid with the native soils backfill.
- Resistivity of the soils > 250 Ohm.cm
- Joint protection with elastomer sleeve and HDD metal cone
- Adapted to the trenchless pipe laying in rocky soils (horizontal directional drilling and pipe bursting)

Main characteristics:

- Elastomer quality: EPDM
- External coating: a layer of zinc-aluminium 85/15 alloy, enriched with copper, with a minimum surface density of 400g/m², applied by spraying molten metal onto the surface of the iron, using an electric arc spray gun, from ZnAl (Cu) alloy wire + a protective layer of Aquacoat (semi-permeable), a water-based blue acrylic of average thickness 80 microns applied using a spray gun + cement mortar ZMU with polymeric additiv and reinforced with PE fibers
- Internal coating in cement mortar CHF (thickness 5mm)
- ZMU pipes in accordance with EN 545
- ZMU coating according to EN 15542

Type of water:

Ductile iron pipes with internal coating of sulphate resisting blast furnace cement mortar are adapted to convey all types of drinking water in conformity with Directive EU 2020/2184.

In case of other type of water, please refer to below information:

| | Minimum value | Maximum value | | | |
|-----------|---------------|----------------|----------|-----------|----------|
| Parameter | pH | CO2 aggressive | Sulphate | Magnesium | Ammonium |
| Unit | - | mg/l | mg/l | mg/l | mg/l |
| Value | 5,5 | 15 | 3000 | 500 | 30 |

Blast furnace cement mortar is a sulphate resisting cement (SRC).

Accessories



Elastomer Sleeve -
Protection of joints of ZMU
pipes DN100-1200

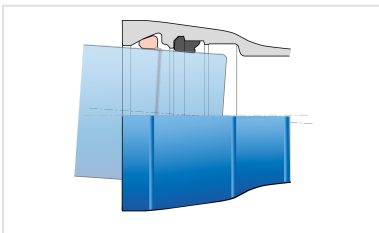


HDD metal protection cone
for DIREXIONAL Universal
Ve pipes

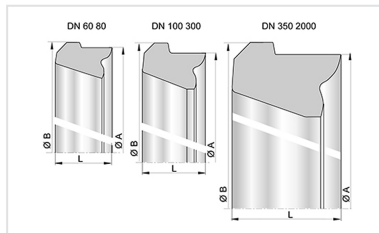


Pulling head for horizontal
directional drilling

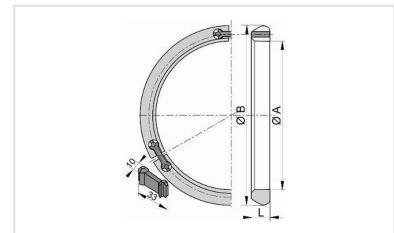
Linked products



Kit Universal Standard Ve
Pipe + Universal Standard
Ve Joint



Standard gasket for Pipes
and Fittings DN60-2000



Locking Ring for UNI Ve
joint DN80-1800



Lubricating paste -
BLUPAM



Lubricating paste -
NATURAL, INTEGRAL, and
PLUVIAL ranges

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