

# Modula EV

ALCADON BV

## Concept

The Modula EV is a solution developed from Cubis Systems modular polypropylene manholes, equipped with a cover (frame and plate) in galvanized steel.

The Modula EV allows great flexibility of implementation and numerous advantages for installation and operation.

Several dimensions are available, to best adapt to each project and charger.



### Free openings (FO) and weight of bases

FO :300x300mm: total weight = 33.29 kg / cover weight = 24.31 kg

FO: 450x300mm: total weight = 40.52 kg / cover weight = 28.09 kg

FO: 450x450mm: total weight = 50.31 kg / cover weight = 33.0 kg

FO: 450x600mm: total weight = 58.90 kg / cover weight = 36.52 kg

FO: 600x600mm: total weight = 70.89 kg / cover weight = 41.27 kg

*\*plates and manhole rings can be delivered seperately to limit the weight of the items during installation*

### Materials Properties

Material	Polypropylene	black
Tensile strength	ISO 527-4	27,6 MPA
Bending resistance	ISO 14125	40 MPA
Flexural Modulus	ISO 178	2,4 GPA
Impact resistance	ISO 179	50 J/m <sup>2</sup>
Service temperature	ISO 75-2	82,2°C
Density	ISO 1183	1,05 g/cm <sup>3</sup>
Water absorption	ISO 62	0,03%
Volume resistivity	IEC 60093	1,00E+16
Fire performance	UL94	HB
Oxygen limit index	ISO 4589-2	21%

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## Description

Polypropylene anchoring system, minimum height 600 mm, modular by adding 15cm extensions, free opening XxY mm.

Possibility of pre-drilling the custom-made manhole in the factory (delivered with PVC covers) or directly on site. Steel rods connecting the two risers make the product one-piece. The product is portable.

A galvanized steel frame in the upper part is intended to receive an adapter plate, also in galvanized steel and bolted to the frame, to which the bollard will be fixed. The plate includes a central hatch for the passage of cables.

The central hatch can remain in a closed configuration, awaiting a future terminal device.

A galvanized steel frame is also provided at the bottom, in order to improve the stability of the product.

The base is designed to remain in place during a vehicle impact. The fixing bolts are fuses, to be replaced when replacing the terminal, with no new civil engineering work required.

## Installation recommendations

The Modula EV can be placed directly in the ground.

The backfill to be provided around the product will be 20 cm in 0/31.5, well compacted in successive layers over the height of the manhole.