

## CULVERT LID

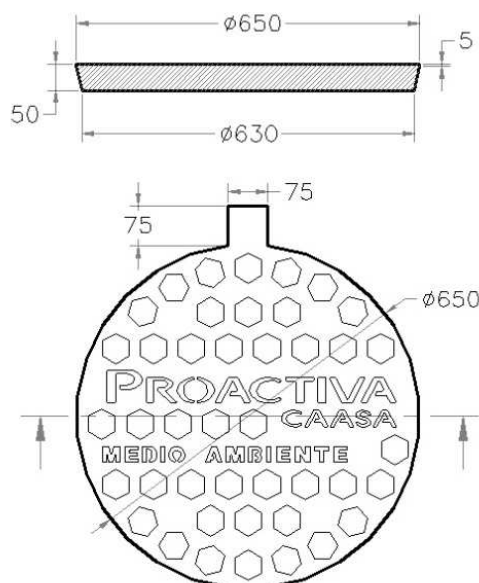
### Data sheet D650

#### Description

Manhole cover for civil work based on elements derived from recycled tyres of varying particle size, mixing thermosetting resins reinforced with Advantex fiber fabrics and the whole of it doped with graphene nanoparticles. By compacting these materials at high temperatures, a tensile, compressive and shear strength is achieved allowing it to pass the mechanical tests.

The lid has a life expectation of over 1,000,000 cycles, but these could be adapted to customer demand because it can be varied by the amount of Advantex fabrics in the registry.

CONCEPT	VALUE	UNITIES
Diameter	650	mm
Thickness	50	mm
Weight	20	kg
Tensile modulus	3,67	Gpa
Voltage resistance	49	Mpa
Rigidity	87.799.504	Nmm <sup>2</sup> /mm
Maximum load	> 40.000	kg
Maximum deflection	3,1	mm





## Advantages

Manholes made with metallic materials have the drawback of being heavy and corrosive, so after a limited time they should be treated or even replaced. They are also likely to be stolen, which implies that such manholes and culverts can be removed with the consequent danger it represents for people and vehicles travelling on public roads. The cover made by Advanced Composites has no residual value.

Furthermore, because lids are made with elements derived from recycled tyres, this prevents that so contaminant waste tyres affect the environment.

**Note:** The information contained in this sheet is merely indicative and may change at any time without notice. The buyer is responsible for verifying the product according to the end use, and for ensuring that complies with regulations.