

### **AQUABOX HP specification**

1. The following specification shall govern the implementation, performance, material, and fabrication about the stormwater management system. The stormwater management system shall be manufactured by Geoplast S.p.A. (Martiri della Libertà str. 6/8, Grantorto, 35010, Italy), and shall meet the specifications below at the required storage capacity.
2. All work is to be completed per the design requirements of the Engineer of Record and to meet or exceed the manufacturer's design and installation requirements.
3. Stormwater management system modules
  - a. Tank shall be consist of AQUABOX HP, manufactured by Geoplast S.p.A., made by Graplene FV15. Modules are parallelepipeds 75x75x h 80cm, black color to be installed underground, suitable for retention, storage, dispersion basins with 96% storage capacity of 432 liters. The modules are stackable and modular with the AQUABOX CUBE 75x75x40cm. The system is understood to be complete with sidewall grids, top caps, joints and manholes
  - b. Short term compressive vertical and lateral strength certification, produced by an accredited body according with UNI EN 17150:2019-1
  - c. Fatigue strength resistance 1,67E6 cycles with range of load 20-100kN/m2 produced by RINA Cert according with RSTO 12 Load Class Bk1.8
  - d. Long term resistance certificate according with CIRIA 737
  - e. 50 years warranty certificate according with CIRIA 737
  - f. The structural design, backfill, and installation requirements shall ensure the loads and load factors specified in the AASHTO LRFD Bridge Design Specifications, Section 3 are met.