SPECIFICATIONS

RAUSIKKO™

SCOPE
This specification applies to all RAUSIKKO™ boxes supplied by Soleno. These systems can be used to recharge the groundwater table or to temporarily retain water and release it into the storm sewer once the rainfall event has ended.

BASIN REQUIREMENTS
RAUSIKKO™ geocellular basins enable the construction of stormwater retention basins, even in cases of limited space and challenging site conditions. Composed of stackable half-elements, RAUSIKKO™ boxes are easy to transport and store on-site.

RAUSIKKO™ systems meet SLW 60 and CSA CL-625 load classes.

They comply with EN 17152-1, DIBt Germany, and the RAL Quality Mark.

RAW MATERIALS
The boxes will be injection-molded from a polypropylene resin that is resistant to environmental impacts and will retain their structural strength throughout their service life.

JOINT PERFORMANCE
- The assembly of the basins is done by stacking the different components of the system, according to the number of layers specified in the plans and specifications.
- The three-level EasyClick snap-fit connection technique and the centering pin allow for precise positioning of the support elements, greatly facilitating assembly.
- The perimeter is enclosed using the side grids.

BASIN STORAGE CAPACITY
The storage capacity of RAUSIKKO™ geocellular basins is based on a void ratio of 96%: therefore, 1 m³ of basin can retain 0.96 m³ of water.

BASIN STRUCTURAL CAPACITY
The depth of the system, measured from below the 1st floor to the final backfill elevation, must be:
- For SX and SC boxes, a maximum height of 4,0 m (13,1 ft).
- For HX boxes, a maximum height of 5,8 m (19,0 ft).

PRETREATMENT UNIT
A pretreatment unit shall be provided to remove sediments, oils and floating debris upstream from the chamber system inlet. It shall include an elbow at each outlet and one or two smooth outer wall access risers 750 mm (30 in) in diameter. Maintenance of the system will not require any work in confined spaces. Each access shaft will be provided with a lid and adjustable cast iron frame. If required, a diffuser shall be installed at the end of the pretreatment system to reach the additional rows of chambers. The system will be sized according to the expected inflow and the desired sediment storage volume.

SEPARATION GEOTEXTILE (NONWOVEN)
A Soleno TX-90 geotextile of Grade S1-F2 according to BNQ 7009-210 must be installed directly above, below, and around the boxes to separate them from the granular material.

INSTALLATION
Installation shall be carried out in compliance with manufacturer recommendations. Contact your local Soleno representative or visit our website at soleno.com for installation recommendations.