

Strandudden Gated Community Strandudden, Sweden

The gated lakeside community known as Strandudden is under development in southern Sweden and will be the first such exclusive residential development in the country. Situated next to Lake Vikaresjon, the 20-hektar site required aggressive land surface grading and employed long stretches of low profile retaining walls to maximize views of the lake and public beach walks for all planned residential buildings.

Plans call for 250-plus apartment and villa residences. Construction started on the first of the apartment buildings in the fall of 2017 and it is scheduled for completion by the end of 2018.

As many as ten retaining walls have been installed, with another four or more planned. The walls primarily wind along the lakeshore and form the sides of a beach walk, projected to be an impressive 4,000 meters (13,123 feet) in combined length when completed.

Keystone Compac and Compac Plus wall systems were chosen for this project for their high quality, versatile product design, and also because of the valuable sales and customer service provided by Hedareds Sand & Betong, the local manufacturer, according to Strandudden's president and developer, Mikael Eliasson.

Keystone Compac structural retaining wall units are made of high-strength, low absorption concrete for long-lasting structures. The wall system is favored by architects, engineers and contractors for its

Owner: Strandudden AB

Engineer: Strandudden AB

Contractor: Strandudden AB

Keystone Producer: Hedareds Sand & Betong AB

Technical Description:

- Keystone Compac® & Compac Plus™ structural retaining walls
- Total Wall Area: 3,500 square meters
- Wall Length: 4,000 meters (13,123 ft.)
- Walls: 10

Completion: 2018



proven performance, aesthetic options, cost-saving versatility and ease of installation. Using the Keystone pin connection system, this wall is well-suited for projects ranging from backyard landscaping involving gravity walls up four feet (1.2 meters) in height, to large, load-bearing reinforced structures, or projects that may reach 60 feet (18.2 meters) in height and have been designed by a qualified engineer using geosynthetic reinforcement.

Hedareds is a manufacturer of building materials for the construction of homes, buildings and gardens. The company is based in Sweden. Key product lines are retaining walls, detached walls, stairs, and paving stones. Hedareds produces a customized version of the Compac wall product which they call Compac Plus. These units have a two-sided face to serve as a standalone structural wall of up to twelve courses.

Strandudden AB self-performed the wall design, engineering and installation, with technical support from Hedareds. The majority of the walls were installed in 2012 and 2013, with several more due to be installed in the near future. In addition to the beach walk walls, Strandudden has used Compac units to build all or parts of a wide variety of other structures on the site:

- wind shelter (third photo on right)
- walls with bench sections and planters
- large fireplace
- underground cellar
- outdoor barbeque kitchen
- sauna
- stairs to the lake
- boule court
- foundation for an orangery
- helicopter hangar
- garage



The ten-plus Keystone Compac and Compac Plus retaining walls planned for Strandudden have a combined length, to date, of 13,123 feet. In this early aerial photo, many of the walls along the lakeshore and some inland walls and structures are visible.