# Evje Ridehall

Dilling, Norway

Keller installed about 3300 pcs of Ø800 mm lime-cement columns to stabilize the ground under a new private building for horses.
The lime-cement columns were installed in a predefined grid pattern to stabilize the soil.


## The project

Hersleth AS has been contracted by Alexandra G. Andresen to execute the project with setting up a new building for horse-riding in Dilling, near Moss. In the project there was an area with sensitive clay under the building which had to be stabilized. Keller was therefore contracted as a sub-contractor to stabilize the soil with our dry deep soil mixing method.

## The challenge

The challenge in the project was mainly that the ground contained a lot of obstacles, stones, cables etc. A lot of time was used to prepare the ground for the DDSM execution.

## The solution

The solution in the project was to remove the obstacles in the ground with an excavator and change out the soil in the top layer. In some areas there were no need for this as there was only clay all the way from the top. Keller made around 3300 pcs Ø800 lime cement columns with average length of around 7 meters. The columns were tested with the FKPS method where a wing is being pushed down in the column with a separate drilling rig. The strength of the columns is then measured.
The strength was well above 300 kPa within 14 days after production.

## Project facts

**Owner(s)**
Alexandra G. Andresen

**Keller business unit(s)**
Keller Geoteknikk AS
Keller Grundläggning AB

**Main contractor(s)**
Hersleth AS

**Engineer(s)**
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**Solutions**
Slope stabilisation

**Markets**
Commercial

**Techniques**
Dry soil mixing

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