



STRATA

# Strata MSE Wall



## Snow Avalanche Protection

High tenacity Strata Geogrid reinforced soil system was preferred used as cost-effective solution for a 500m long and 14 meter high gabion MSE-wall to protect homes from heavy snow avalanche.

### PROTECTION OF HOMES AND FISHING PORT FJORDGÅRD - NORWAY

Avalanches most often occur in connection with large snowfalls, critical snowfall is usually approx. 50 cm during three days. If the snowfall is combined with following heavy rain, smaller amounts of snowfall are needed before landslides can loosen in shelter areas. Snow avalanches can also loosen when change to warmer weather.

The critical slope for snow avalanches to loosen is 28 degrees, and the most dangerous slope in terms of the size and energy of the snow slides is between 35-45 degrees.

A snow avalanche protection wall (Strata MSE-wall) was needed above the homes in fishing port at the island of Senja in the north of Norway. The gabion facing is produced in Norway by company UNIK Wall As. Wire size is 5mm and 100x100 mm squares. Main contractor build and erected this structure in few weeks using our supervisor.

### STRATA SOLUTION

Strata supply app. 52.000 sqm geogrid, type SGi 120, 250 and 350 to the project. For the STRATA MSE-system all soil like crushed stone and gravel where produced by the contractor on site. Using the STRATA MSE-Wall system requires no use of imported soil.

This resulted in faster construction, which was more economical and had lower environmental impact.

#### Client

Senja Municipality and Norwegian Water Resources and Energy Directorate (NVE)

#### Strata Supplier

**UNIK  
WALL**

UNIK Wall As  
[www.unikwall.no](http://www.unikwall.no)

#### Gabion Producer

**GABIONFABRIKKEN**

Gabionfabrikken  
[www.gabionfabrikken.no](http://www.gabionfabrikken.no)

