

LOCATION: JORDBRO, SWEDEN

# Freedom from problems for pits and quarries

Hans Andersson Entreprenad is a small company active in recycling, transport and earthmoving. HAE also operates a stone pit situated in a location with nearby buildings. They produce different types of granite aggregate for use in concrete, asphalt and other construction applications.

## Continuous vibration monitoring is required

Production of macadam and gravel requires blasting and it must comply with regulations and concessions with different restrictions. For a small company, supervision of vibration levels can be costly since measurement must be made continuously throughout the year. Mismanagement of vibration measuring can result in sizable bills if neighbours claim damages to buildings or instruments. The Swedish Environmental Protection Agency has, for residences, set up a limit for vibrations from blasting to 3 mm vertically and also stipulated that vibration measurement must be made regularly at major stone pits.

## INFRA is a great solution for Hans Andersson Entreprenad

INFRA sensors have been mounted on three buildings close to the quarry. Directly after blasting, an SMS with vibration level data is sent both to the blaster and to Roberth Andersson, the person in charge of complying with the authorities guidelines. If actual values approach the limits, appropriate measures can immediately be taken.

Residents or others concerned can get detailed information from the web at any time regarding blasting effects. All measuring values from sensors mounted on their houses are swiftly displayed and easily accessible. Such openness is good for neighbour relations and lessens their anxiety regarding damage and accidents!



## Measuring is not core business for a quarry

Use of INFRA has rapidly become an elegant way for HEA to dramatically cut costs and alleviate problems. The system is 100% autonomous and operates totally unattended. Only one yearly calibration is

necessary for reliable long-term measurement. Roberth Andersson can disregard monitoring the blaster and instead focus on the company's core business areas. "Everything works very well" says Roberth, "Sigicom has done a great job for us".