

Examples of vibration in buildings from construction activities

SND-ID: 2021-91-1. **Version:** 1. **DOI:** <https://doi.org/10.5878/kz87-wx57>

Download data

building_vibration.zip (64.64 MB)

Associated documentation

readme.txt (862 bytes)

Download all files

2021-91-1-1.zip (~64.64 MB)

Citation

Ögren, M. (2021) Examples of vibration in buildings from construction activities (Version 1) [Data set]. University of Gothenburg. Available at: <https://doi.org/10.5878/kz87-wx57>

Creator/Principal investigator(s)

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Research principal

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Description

The data consists of short examples of vibration signals in buildings. The examples were collected in a project focused on annoyance by vibration from construction work. The examples include tri-axial vibration signals from blasting (tunnels, general and rock extraction), soil compacting, piling, sheet wall piling and construction traffic. The data are shared for use by other researchers.

The zip file contains a table summarising the vibration measurements in Excel and Open Office formats, and a folder with 257 .csv files with raw data from each measurement. The measurements have a unique ID in the file name that is also presented in the Excel file.

Data contains personal data

No

Language

[English](#)

Time period(s) investigated

2000 - 2020

Variables

2

Data format / data structure

[Numeric](#)

Data collection 1

- Description of the mode of collection: Collected measurements of building vibration in Sweden during construction work
- Time period(s) for data collection: 2000 - 2019

Geographic spread

Geographic location: [Sweden](#)

Responsible department/unit

Institute of Medicine, School of Public Health and Community Medicine

Funding

- Funding agency: Swedish Transport Administration
- Funding agency's reference number: TRV 2019/88651
- Project name on the application: Störning av vibrationer vid bygg- och anläggningsprojekt

Research area

[Geophysics](#) (Standard för svensk indelning av forskningsämnen 2011)

[Construction management](#) (Standard för svensk indelning av forskningsämnen 2011)

[Occupational health and environmental health](#) (Standard för svensk indelning av forskningsämnen 2011)

[Structure](#) (INSPIRE topic categories)

[Environment](#) (INSPIRE topic categories)

Keywords

[Mechanical vibration](#), [Construction noise](#), [Construction work](#), [Residential building](#), [Buildings](#), [Human health and safety](#), [Building vibrations](#), [Whole body vibration](#), [Ground vibration](#)

Publications

Ögren M. & Jern M. (2021). Störning av vibrationer vid bygg- och anläggningsprojekt. Sahlgrenska universitetssjukhuset, Samhällsmedicin och folkhälsa.

If you have published anything based on these data, [please notify us](#) with a reference to your publication(s). If you are responsible for the catalogue entry, you can update the metadata/data description in DORIS.

Accessibility level

Access to data through SND

Data are freely accessible

Use of data

[Things to consider when using data shared through SND](#)

License

[CC0 1.0](#)

Versions

Version 1. 2021-06-02

Contact for questions about the data

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Download metadata

[DataCite](#)

[DDI 2.5](#)

[DDI 3.3](#)

[DCAT-AP-SE 2.0](#)

[JSON-LD](#)

[PDF](#)

[Citation \(CLS\)](#)

[File overview \(CSV\)](#)

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