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## Himmelfortgasse 8B – Staircase No. 8

The Staircase No. 8 is located in the Austrian Federal Ministry of Finance in the Himmelfortgasse 8b, 1010 Vienna. The staircase connects the cellar with the top floor via seven floors. Besides the concrete platform at the top floor the whole staircase is made of stone. The investigation with BRIMOS® was focused on the area between the ground floor and the top floor. Due to the fact that the stairs between the cellar and the ground floor are clamed on both sides these have not been part of the measurement.

In the course of the prevailing investigation a dynamic monitoring campaign and a simultaneously carried out visual inspection was undertaken in order to determine the global condition of maintenance (the structure's integrity) as well as the load bearing capacity by means of BRIMOS®. Along with the conventional assessment the dynamic investigation supports the determination and localisation of potential problem zones based on the measured structure's vibration behaviour. The present evaluation of the load bearing capacity and operability under regular loading condition supports the decision process of the owner in the course of cost planning for maintenance and possible rehabilitation measures.

The single steps are basically to be understood as cantilevers linked to a stairway. This leads to a combined structural behaviour of neighbouring steps. A failure only happens if several successive steps are damaged. The objective of the check was the identification of all damaged stairs.

- Client: Arch. Strixner ZT GmbH
- Location: Vienna, Austria
- Checking Period: 2010
- Services: Dynamic Measurement  
Visual Inspection  
BRIMOS® - Assessment and Rating



### Durchgeführte BRIMOS® Leistungen:

- |                              |  |   |   |  |
|------------------------------|--|---|---|--|
| <b>Lifecycle Management:</b> | <input checked="" type="checkbox"/> Condition Assessment | <input type="checkbox"/> Condition Monitoring | <input type="checkbox"/> Rehabilitation Planning  | <input type="checkbox"/> Quality Control |
|                              | <input type="checkbox"/> Lifetime Assessment             | <input type="checkbox"/> Traffic Analysis     | <input type="checkbox"/> Environmental Influences | <input type="checkbox"/> Risk Assessment |
| <b>Special Measurements:</b> | <input type="checkbox"/> Attendant Monitoring            | <input type="checkbox"/> Noise and Vibrancy   | <input type="checkbox"/> Deflection Measurements  | <input type="checkbox"/> Seismics        |