

# DIN EN ISO 10140-5:2010-12 (E)

## Acoustics - Laboratory measurement of sound insulation of building elements - Part 5: Requirements for test facilities and equipment (ISO 10140-5:2010)

---

| <b>Contents</b>  | <b>Page</b> |
|--|-------------|
| Foreword .....   | 3           |
| Introduction .....   | 4           |
| 1 Scope .....  | 6           |
| 2 Normative references .....   | 6           |
| 3 Laboratory test facilities for airborne sound insulation measurements .....  | 7           |
| 4 Laboratory test facilities for impact sound insulation measurements .....  | 13          |
| 5 Equipment .....  | 14          |
| Annex A (normative) Estimation of the maximum measurable sound reduction index .....                                       | 15          |
| Annex B (normative) Standard basic elements for measuring the improvement of airborne sound insulation by linings .....    | 18          |
| Annex C (normative) Standard floors for measuring the improvement of impact sound insulation by floor coverings .....      | 22          |
| Annex D (normative) Qualification procedure for loudspeakers and loudspeaker positions .....                               | 28          |
| Annex E (normative) Standard tapping machine .....   | 32          |
| Annex F (normative) Alternative impact sound sources .....   | 34          |
| Annex G (normative) Wooden mock-up floor for measuring the improvement of impact sound insulation by floor coverings ..... | 39          |
| Bibliography .....   | 40          |