

DIN 45673-7:2010-08 (E)

Mechanical vibration - Resilient elements used in railway tracks - Part 7: Laboratory test procedures for resilient elements of floating slab track systems

| Contents | | Page |
|--|---|-------------|
| Foreword | | 3 |
| 1 | Scope | 4 |
| 2 | Normative references | 4 |
| 3 | Overview and general principles | 4 |
| 4 | Discrete supports for floating slab track systems | 5 |
| 4.1 | Vertical static stiffness | 5 |
| 4.2 | Horizontal static stiffness | 8 |
| 4.3 | Vertical dynamic stiffness $k_{dyn}(f)$ | 9 |
| 4.4 | Loss factor | 10 |
| 5 | Continuous resilient support mats for floating slab track systems | 11 |
| 5.1 | Vertical static bedding modulus | 11 |
| 5.2 | Horizontal static bedding modulus $C_{stat,h}$ | 13 |
| 5.3 | Vertical dynamic bedding modulus $C_{dyn}(f)$ | 13 |
| 5.4 | Loss factor | 14 |
| 6 | Strip mats (linear supports) for floating slab track systems | 14 |
| 7 | Fitness for purpose | 14 |
| 7.1 | Summary | 14 |
| 7.2 | Mechanical fatigue strength | 14 |
| 7.3 | Shear stability (shear creep) | 15 |
| 7.4 | Material identification testing | 16 |
| 7.5 | Material and component testing | 16 |
| 8 | Quality monitoring, quality assurance | 19 |
| Annex A (informative) Example of floating slab track systems | | 20 |
| Bibliography | | 22 |