



FORUM ACUSTICUM EURONOISE 2025

Proceedings of
Forum Acusticum - Euronoise 2025

11th Convention of the
European Acoustics Association

CONFERENCE ID	3
DOI	https://www.doi.org/XX.XXXX/ta.2026.XXX (dummy example)
TITLE	Avaliação Da Componente Vibração Em Estudos De Impacte Ambiental Para Projetos De Vias-Férreas Em Zonas Urbanas: Atualização De Aspetos Metodológicos E Práticas Correntes Em Portugal
PAPER LANGUAGE	PT
DATE	
TIME	16:30
PAGS	941-949
URL	https://documentacion.sea-acustica.es/publicaciones/Cuenca23/Abs_34.pdf
SESSION	VIB-0: Vibroacústica
SUBSESSION	Nuevos materiales y dispositivos acústicos
AUTHOR 1	Sónia Monteiro Antunes Laboratório Nacional de Engenharia Civil, Lisboa, Portugal
AUTHOR 2	Jorge Viçoso Patrício Laboratório Nacional de Engenharia Civil, Lisboa, Portugal

ABSTRACT

This communication presents an update to the methodological guide for reducing the occurrence of potential nuisance situations due to vibration and groundborne noise inside homes, proposed by the authors in 2019. This update, results from experience in following various environmental impact studies carried out since 2019, especially in densely urbanized areas. Additional indicators were introduced, especially during the construction phase. As a result of the publication of new normative documents, small adjustments were made to the indicators already used, and updated procedures were introduced. In this context, a summary of the updated guide is presented, emphasizing the following aspects: Characterization methodology for vibration studies; Characterization of vibration during the construction phase and vibration and ground borne noise structural during the project exploration phase; Admissibility criteria, and Vibration monitoring.