

ISO 532-1:2017-06 (E)

Acoustics - Methods for calculating loudness - Part 1: Zwicker method

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Specification of input signal and instrumentation	4
5	Method for stationary sounds	5
5.1	General	5
5.2	Description of the method	6
5.3	Calculation of loudness and loudness level	9
6	Method for time-varying sounds	12
6.1	General	12
6.2	Description of the method	13
6.3	Calculation algorithm	14
6.4	Guidance for determining the loudness of time-varying sounds	15
7	Reporting data	16
Annex A (normative)	Numerical details and program code for the calculation of loudness of stationary and time-varying sounds (test implementation)	17
Annex B (normative)	Test signals for the validation of implementation	45
Annex C (informative)	Graphical user interface for the calculation of loudness of stationary and time-varying sounds	48
Annex D (informative)	Guidance for determining the loudness when using head and torso simulator microphones	53
Annex E (informative)	Uncertainty considerations	54
Bibliography		57