

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