

ISO 15712-3:2005-01 (E)

Building acoustics - Estimation of acoustic performance of buildings from the performance of elements - Part 3: Airborne sound insulation against outdoor sound

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Relevant quantities	2
3.1	Quantities to express building performance	2
3.1.1	Apparent sound reduction index R'45	2
3.1.2	Apparent sound reduction index R'tr,s	2
3.1.3	Standardized level difference D2m,nT	2
3.1.4	Normalized level difference D2m,n	3
3.1.5	Relations between quantities	3
3.2	Quantities to express element performance	3
3.2.1	Sound reduction index R	4
3.2.2	Element normalized level difference Dn,e	4
3.2.3	Other relevant data	4
3.3	Other terms and quantities	4
4	Calculation models	5
4.1	General principles	5
4.2	Determination of direct transmission from acoustic data on elements	6
4.2.1	Small elements	6
4.2.2	Other elements	7
4.3	Determination of flanking transmission	7
4.4	Interpretations	7
4.5	Limitations	8
5	Accuracy	8
Annex A (normative) List of symbols		9
Annex B (informative) Determination of transmission by elements from composing parts		11
Annex C (informative) Influence of façade shape		14
Annex D (informative) Sound reduction index of elements		18
Annex E (informative) Estimation of indoor sound levels		22
Annex F (informative) Calculation examples		23
Bibliography		26