ISO 15664:2025-12 (E)

Acoustics - Noise control design procedures for open plant

Contents

Page

Foreword ..... **v**

Introduction ..... **vi**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **2**
3.1 General terms 2
3.2 Terms specific to noise 2

4 General requirements **5**

5 General noise limits (immission requirements) **6**
5.1 In-plant noise 6
5.1.1 General 6
5.1.2 Emergency area noise limit 6
5.1.3 Work area noise limit 6
5.1.4 Restricted area 6
5.1.5 Modification/extension of an existing plant 7
5.2 Environmental noise 7
5.3 Exceptional or infrequent operating conditions 7
5.4 Additional restrictions for tonal or impulsive noise 7

6 Equipment noise limits (emission requirements) **8**
6.1 General 8
6.1.1 Default equipment noise limits 8
6.1.2 Noise control measures 8
6.2 Equipment emitting noise to external environment 9
6.3 Equipment emitting intermittent or fluctuating noise 9
6.4 Equipment located outside the work area 9
6.5 Additional restrictions for tonal or impulsive noise 9
6.6 Equipment noise data sheets 9
6.6.1 Noise limits 10
6.6.2 Noise acceptance testing 10
6.6.3 Noise guarantees 10
6.7 Equipment selection 10
6.7.1 Bid comparison 10

7 Noise abatement **11**
7.1 Silencers 11
7.2 Acoustic enclosures 11
7.3 Sound absorption 11

8 Project control **11**
8.1 Noise control documentation 11
8.2 Engineering phase reports 12
8.3 Equipment noise test 12
8.4 Plant noise acceptance test 12
8.5 Remedial action 13

Annex A (normative) **Requirements on equipment suppliers for reporting and testing on noise** **14**

Annex B (informative) **Noise control flowchart** **16**

Annex C (informative) **Summary of action items and allocation of responsibility** **17**
Annex D (informative) **Noise aspects of specific equipment** **19**
Annex E (informative) **Example of equipment noise data sheet** **21**
Annex F (informative) **Documents to be made available to the noise control engineers** **22**
Annex G (informative) **Example of format for the noise allocation report** **24**
Annex H (informative) **Example of format for the noise control report** **25**
Annex I (informative) **Example of format for the noise verification report** **26**
Bibliography **28**