



International
Standard

ISO 15708-4

**Non-destructive testing —
Radiation methods for computed
tomography —**

**Part 4:
Qualification**

Essais non destructifs — Méthodes par rayonnements pour la tomographie informatisée —

Partie 4: Qualification

iTeh Standards
(<https://standards.iteh.ai>)

Document Preview

[ISO 15708-4:2025](#)

<https://standards.iteh.ai/catalog/standards/iso/85d1fd46-4170-4727-a1a4-ee3c89e8ef85/iso-15708-4-2025>

**iTeh Standards
(<https://standards.iteh.ai>)
Document Preview**

[ISO 15708-4:2025](#)

<https://standards.iteh.ai/catalog/standards/iso/85d1fd46-4170-4727-a1a4-ee3c89e8ef85/iso-15708-4-2025>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2025

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Qualification of the testing	1
4.1 General	1
4.2 Qualification of defect testing	2
4.2.1 General	2
4.2.2 Objects and features	2
4.2.3 Feature detectability/test system/system parameterisation	2
4.2.4 Verification of suitability	3
4.2.5 Consistency check	3
4.2.6 Documentation	4
4.3 Qualification of dimensional testing	4
4.3.1 General	4
4.3.2 Test and measurement task	4
4.3.3 Dimensional testing/test system/system parameterisation	4
4.3.4 Degree of accuracy	5
4.3.5 Consistency check	5
4.3.6 Documentation	5
5 Qualification of the CT system	6
5.1 General	6
5.2 Integral overall system verification	6
5.3 Checking the system components	6
5.3.1 General	6
5.3.2 Manipulation system	6
5.3.3 Image scale	6
5.3.4 Beam axis perpendicularity	6
5.3.5 Tube focal spot	6
5.3.6 Tube stability	7
5.3.7 Detector	7
5.3.8 Reconstruction	7
5.3.9 Visualization	7
5.4 Documentation	7
6 Example of CT system resolution evaluation methods	7
6.1 General	7
6.2 Acquisition parameters	8
6.3 Recommendations for creating reference objects	8
6.4 Density resolution measurement method	8
6.4.1 General	8
6.4.2 High energy reference object	9
6.4.3 Low energy reference object	9
6.4.4 Experimental measurements	9