
**Maintenance and repair of concrete
structures —**

**Part 3:
Design of repairs and prevention**

Entretien et réparation des structures en béton —

Partie 3: Conception des réparations et prévention



Reference number
ISO 16311-3:2014(E)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2014

All rights reserved. Unless otherwise specified, 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
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Minimum considerations before repair and prevention design	2
4.1 General.....	2
4.2 Initial risk assessment.....	2
4.3 Assessment of defects and their causes.....	3
5 Strategies for maintenance, repair, and prevention	4
5.1 General.....	4
5.2 Options.....	4
5.3 Factors.....	4
5.4 Choice of appropriate strategy.....	5
6 Basis for the choice of specific repair and prevention design principles, strategies, remedies, and methods	6
6.1 General.....	6
6.2 Repair remedies and methods of maintenance, repair, and prevention.....	6
7 Properties of products and systems required for compliance with repair and prevention remedies	8
8 Design documentation requirements	9
9 Compliance with health, safety, and environmental requirements	9
10 Competence of personnel	9
Annex A (informative) Design of repairs and prevention	10
Bibliography	22