

# ISO 16311-3:2024-03 (E)

## Maintenance and repair of concrete structures - Part 3: Design of repairs

---

<b>Contents</b>	<b>Page</b>
Foreword.....	iv
Introduction.....	v
<b>1 Scope.....</b>	<b>1</b>
<b>2 Normative references.....</b>	<b>1</b>
<b>3 Terms and definitions.....</b>	<b>1</b>
<b>4 Minimum considerations before repair design.....</b>	<b>2</b>
4.1 General.....	2
4.2 Initial risk assessment.....	2
4.3 Assessment of defects and their causes.....	2
<b>5 Strategies for maintenance and repair.....</b>	<b>3</b>
5.1 General.....	3
5.2 Options.....	4
5.3 Factors.....	4
5.3.1 General.....	4
5.3.2 Structural.....	4
5.3.3 Risk assessment.....	4
5.3.4 Environmental.....	4
5.4 Choice of appropriate strategy.....	5
<b>6 Basis for the choice of specific repair design principles, strategies, remedies and methods.....</b>	<b>5</b>
6.1 General.....	5
6.2 Repair remedies and methods of maintenance.....	5
6.2.1 General.....	5
6.2.2 Remedies and methods addressing defects in concrete and reinforcement corrosion.....	5
6.2.3 Repair of concrete and reinforcement by methods not mentioned in this document.....	7
<b>7 Properties of products and systems required for compliance with repair remedies.....</b>	<b>7</b>
<b>8 Design documentation requirements.....</b>	<b>8</b>
<b>9 Compliance with health, safety and environmental requirements.....</b>	<b>8</b>
<b>10 Competence of personnel.....</b>	<b>8</b>
<b>Annex A (informative) Design of repairs.....</b>	<b>9</b>
<b>Bibliography.....</b>	<b>20</b>