

Contents

Page

|                                                                       |    |
|-----------------------------------------------------------------------|----|
| Foreword .....                                                        | 3  |
| 1 Scope .....                                                         | 4  |
| 2 Normative references .....                                          | 4  |
| 3 Terms and definitions .....                                         | 6  |
| 4 Symbols .....                                                       | 8  |
| 5 Design .....                                                        | 8  |
| 5.1 General .....                                                     | 8  |
| 5.2 Structural strength .....                                         | 9  |
| 5.3 Welding .....                                                     | 12 |
| 5.4 Additional design details .....                                   | 15 |
| 5.5 Tank containers .....                                             | 15 |
| 5.6 Containers for bulk solids .....                                  | 16 |
| 6 Materials .....                                                     | 16 |
| 6.1 Steel — General .....                                             | 16 |
| 6.2 Rolled and extruded steels in offshore container structures ..... | 17 |
| 6.3 Aluminium .....                                                   | 19 |
| 6.4 Non-metallic materials .....                                      | 20 |
| 6.5 Material certificates .....                                       | 20 |
| 7 Type testing .....                                                  | 21 |
| 7.1 General .....                                                     | 21 |
| 7.2 Test equipment and calibration .....                              | 21 |
| 7.3 Lifting test .....                                                | 22 |
| 7.4 Vertical impact test .....                                        | 23 |
| 7.5 Other tests .....                                                 | 23 |
| 8 Production .....                                                    | 24 |
| 8.1 General .....                                                     | 24 |
| 8.2 Primary structure .....                                           | 24 |
| 8.3 Secondary structure .....                                         | 25 |
| 8.4 Production testing .....                                          | 26 |
| 8.5 Failure of production containers .....                            | 27 |
| 9 Marking .....                                                       | 27 |
| 9.1 Safety marking .....                                              | 27 |
| 9.2 Identification markings .....                                     | 27 |
| 9.3 Information markings .....                                        | 28 |
| 9.4 Other markings .....                                              | 28 |
| 10 Container Data Plate .....                                         | 28 |
| 10.1 General .....                                                    | 28 |
| 10.2 Contents of Data Plate .....                                     | 29 |
| 11 Certificate of conformity .....                                    | 30 |
| 11.1 General .....                                                    | 30 |
| 11.2 Documentation .....                                              | 30 |
| 11.3 Contents of the certificate of conformity .....                  | 30 |
| Annex A (Informative) Certification Requirements for Containers ..... | 32 |
| Bibliography .....                                                    | 34 |