

DIN EN 818-4:2008-12 (E)

Short link chain for lifting purposes - Safety - Part 4: Chain slings - Grade 8 (includes Amendment A1:2008)

| Contents | Page |
|-----------------------------------------------------------------------------------------------|------|
| Foreword | 4 |
| Introduction | 5 |
| 1 Scope | 6 |
| 2 Normative references | 6 |
| 3 "Terms and definitions" | 7 |
| 4 Hazards | 8 |
| 5 Safety requirements | 9 |
| 5.1 Components of a chain sling | 9 |
| 5.1.1 Chain | 9 |
| 5.1.2 Forged steel components | 9 |
| 5.1.3 Links | 9 |
| 5.1.4 Hooks | 9 |
| 5.2 Design and construction | 10 |
| 5.2.1 "Chain slings" assembled with mechanical joining devices | 10 |
| 5.2.2 "Chain" slings assembled by welding | 10 |
| 5.2.3 Endless "chain" slings | 10 |
| 5.2.4 Tolerance on length | 10 |
| 5.3 Working load rating | 11 |
| 5.3.1 Single-leg "chain" slings | 11 |
| 5.3.2 Multi-leg "chain" slings | 11 |
| 5.3.3 Endless "chain" slings | 11 |
| 6 Verification of safety requirements | 12 |
| 6.1 Qualification of personnel | 12 |
| 6.2 Manufacturing proof force | 13 |
| 6.2.1 General | 13 |
| 6.2.2 Manufacturing proof force factors | 13 |
| 6.2.3 Post-test examination | 13 |
| 6.3 Final examination | 13 |
| 6.3.1 "Chain" slings joined by mechanical devices | 13 |
| 6.3.2 "Chain" slings of welded construction | 13 |
| 7 Marking | 14 |
| 7.1 General | 14 |
| 7.2 Single-leg "chain" slings | 14 |
| 7.3 Multi-leg "chain" slings rated for a range of angles from 0° to 45° to the vertical | 14 |
| 8 Manufacturer's certificate | 15 |
| 8.1 General | 15 |
| 8.2 "Chain" slings of welded construction | 15 |
| 8.3 "Chain" slings joined by mechanical devices | 15 |
| 9 "Information" for use | 16 |

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Annex A (normative) Alternative method of rating and marking a chain sling for a specific lifting application | 21 |
| A.1 General | 21 |
| A.2 Alternative method of rating | 21 |
| A.3 Manufacturing proof force | 21 |
| A.4 Marking of "chain" slings rated by the alternative method of rating | 22 |
| Annex B (informative) Bases for calculation of values for the working load limits" | 23 |
| B.1 Calculated values of working load limits (WLL) for single-leg "chain" slings | 23 |
| B.2 Calculated values of working load limits (WLL) for multi-leg "chain" slings | 23 |
| Annex C (informative) Designation system for chain slings - Grade 8 | 24 |
| Annex D (!normative") Identification tags for chain slings | 25 |
| D.1 General | 25 |
| D.2 Tags for chain slings | 25 |
| Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC | 27 |
| Annex ZB (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC | 28 |
| !Bibliography | 29 |