

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