

# DIN EN 13508-2:2011-08 (E)

## Investigation and assessment of drain and sewer systems outside buildings - Part 2: Visual inspection coding system

---

<b>Contents</b>		<b>Page</b>
Foreword .....		5
Introduction .....		6
1	Scope .....	6
2	Normative references .....	6
3	Terms and definitions .....	7
4	Sources of additional information .....	12
5	General .....	12
5.1	Purpose .....	12
5.2	Methods .....	12
5.3	The use of the coding system .....	13
5.4	National equivalent coding systems .....	13
5.5	Data transfer .....	13
5.6	Information to be supplied by the employing authority .....	13
6	Drains and sewers - Coding system .....	14
7	Drains and sewers - Header information .....	14
7.1	Requirements .....	14
7.2	Other header information .....	15
8	Drains and sewers - Codes .....	16
8.1	Introduction .....	16
8.1.1	General .....	16
8.1.2	Main code .....	20
8.1.3	Characterisation .....	20
8.1.4	Quantification .....	20
8.1.5	Circumferential location .....	20
8.1.6	Observation at joint .....	21
8.1.7	Longitudinal location .....	21
8.1.8	Photograph reference .....	22
8.1.9	Video location reference .....	22
8.1.10	Remarks .....	22
8.2	Codes relating to the fabric of the pipeline .....	23
8.3	Codes relating to the operation of the pipeline .....	29
8.4	Inventory codes .....	33
8.5	Other codes .....	37
9	Manholes and inspection chambers - Coding system .....	40
10	Manholes and inspection chambers - Header information .....	40
10.1	Requirements .....	40
10.2	Other header information .....	40
11	Manholes and inspection chambers - Codes .....	41
11.1	Introduction .....	41

11.1.1	General .....	41
11.1.2	Main code .....	46
11.1.3	Characterisation .....	46
11.1.4	Quantification .....	46
11.1.5	Circumferential location .....	46
11.1.6	Observation at joint .....	47
11.1.7	Descriptive location .....	47
11.1.8	Vertical location .....	48
11.1.9	Photograph reference .....	49
11.1.10	Video location reference .....	49
11.1.11	Remarks .....	49
11.2	Codes relating to the fabric of the manhole or inspection chamber .....	49
11.3	Codes relating to the operation of the manhole or inspection chamber .....	57
11.4	Inventory codes .....	59
11.5	Other codes .....	65
12	Documentation .....	67
Annex A (normative) National equivalent coding systems .....		68
A.1	Header information .....	68
A.2	Codes .....	68
Annex B (informative) Format for electronic transfer of coded data .....		69
B.1	Introduction .....	69
!B.2 Character Separated format" .....		69
B.2.1	General .....	69
B.2.2	File header information .....	69
B.2.3	Inspection header information .....	71
B.2.4	Inspection data .....	72
B.2.5	Examples .....	73
B.3	Extensible Mark-up Language Format .....	74
B.3.1	General .....	74
B.3.2	File header information .....	75
B.3.3	Inspection header information .....	75
B.3.4	Inspection data .....	75
B.3.5	Example .....	75
Annex C (informative) Recommended system for coding of header information for drains and sewers .....		79
C.1	Introduction .....	79
C.2	Location of the inspection .....	79
C.3	Inspection details .....	82
C.4	Pipeline details .....	86
C.5	Other information .....	89
C.6	Changes to header information .....	89
C.7	Other information required by the employing authority .....	91
Annex D (informative) Recommended system for coding of header information for manholes and inspection chambers .....		92
D.1	Introduction .....	92
D.2	Location of the inspection .....	92
D.3	Inspection details .....	94
D.4	Manhole or inspection chamber details .....	98
D.5	Other information .....	100
D.6	Changes to header information .....	101
D.7	Other information required by the employing authority .....	102

<b>Annex E (informative) Sample coding sheet .....</b>	<b>103</b>
<b>Annex F (informative) Photographs illustrating the coding system for drains and sewers .....</b>	<b>105</b>
<b>Annex G (informative) Photographs illustrating the coding system for manholes and inspection chambers .....</b>	<b>134</b>
<b>Annex H (informative) Sources of additional information .....</b>	<b>145</b>
<b>H.1 International Standards .....</b>	<b>145</b>
<b>H.2 Austria .....</b>	<b>145</b>
<b>H.2.1 Austrian Water and Waste Management Association - Rules of Practice (ÖWAV - Österreichischer Wasser- und Abfallwirtschaftsverband - Regelblätter) .....</b>	<b>145</b>
<b>H.2.2 Other guidelines .....</b>	<b>145</b>
<b>H.3 Denmark .....</b>	<b>146</b>
<b>H.4 Finland .....</b>	<b>146</b>
<b>H.5 France .....</b>	<b>147</b>
<b>H.6 Germany .....</b>	<b>147</b>
<b>H.7 Italy .....</b>	<b>148</b>
<b>H.8 Netherlands .....</b>	<b>148</b>
<b>H.9 Norway .....</b>	<b>148</b>
<b>H.10 Sweden .....</b>	<b>148</b>
<b>H.11 Switzerland .....</b>	<b>148</b>
<b>H.12 United Kingdom .....</b>	<b>149</b>
<b>Converting data from earlier versions of this standardAnnex I (informative) .....</b>	<b>150!</b>