

## Blücher UK Ltd

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Agrément Certificate  
**86/1751**  
Product Sheet 2

## BLÜCHER DRAINAGE SYSTEM

### BLÜCHER EUROPIPE PIPES, FITTINGS AND ADAPTORS

#### PRODUCT SCOPE AND SUMMARY OF CERTIFICATE

This Certificate relates to Blücher Europipe Pipe, Fittings and Adaptors.

#### AGRÉMENT CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.

#### KEY FACTORS ASSESSED

**Strength** — the pipe system will resist the likely loadings in service and during installation (see section 5).

**Performance of joints** — joints will remain watertight under movement and temperature (see section 7).

**Durability** — the products are durable (see section 11).



The BBA has awarded this Agrément Certificate to the company named above for the product described herein. This product has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Brian Chamberlain  
Head of Approvals — Engineering

Greg Cooper  
Chief Executive

Date of First issue: 11 June 2009

Originally certified on 16 October 1986

*The BBA is a UKAS accredited certification body — Number 113. The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at [www.bbacerts.co.uk](http://www.bbacerts.co.uk)*

*Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.*

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# Regulations

In the opinion of the BBA, Blücher Europipe Pipes, Fittings and Adaptors, if used in accordance with the provisions of this Certificate, will meet or contribute to meeting the relevant requirements of the following Building Regulations:



## The Building Regulations 2000 (as amended) (England and Wales)

Requirement:	H1(1)	Foul water drainage
Comment:		The products will convey the flow of foul or surface water and minimise the risk of blockages or leakage. See sections 7.1, 7.2, 8 and 9 of this Certificate.
Requirement:	H3	Rainwater drainage
Comment:		The products will convey the flow of foul or surface water and minimise the risk of blockages or leakage. See sections 7.1, 7.2, 8 and 9 of this Certificate.
Requirement:	Regulation 7	Materials and workmanship
Comment:		The products are acceptable. See section 11 and the <i>Installation</i> part of this Certificate.



## The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)(2)	Fitness and durability of materials and workmanship
Comment:		The use of the products satisfies the requirements of this Regulation. See sections 10.1 to 10.3 and 11 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards — construction
Standard:	3.7	Wastewater drainage
Comment:		The system will meet the relevant requirements of this Regulation, with reference to clauses 3.7.10 <sup>(1)</sup> and 3.7.11 <sup>(2)</sup> . See sections 7.1, 7.2, 8 and 9 of this Certificate. (1) Technical Handbook (Domestic). (2) Technical Handbook (Non-domestic).



## The Building Regulations (Northern Ireland) 2000 (as amended)

Regulation:	B2	Fitness of materials and workmanship
Comment:		The products are acceptable. See section 11 and the <i>Installation</i> part of this Certificate.
Regulation:	B3(2)	Suitability of certain materials
Comment:		The products are acceptable. See sections 10.1 to 10.3 of this Certificate.
Regulation:	N4	Underground foul drainage
Comment:		The system will meet the relevant requirements of this Regulation. See sections 7.1, 7.2, 8 and 9 of this Certificate.
Regulation:	N7	Rain-water drainage
Comment:		See sections 7.1, 7.2, 8 and 9 of this Certificate.

## Construction (Design and Management) Regulations 2007

## Construction (Design and Management) Regulations (Northern Ireland) 2007

Information in this Certificate may assist the client, CDM co-ordinator, designer and contractors to address their obligations under these Regulations.

See section: 1 *Description*.

# Non-regulatory Information

## NHBC Standards 2008

NHBC accepts the use of Blücher Europipe Pipes, Fittings and Adaptors, when installed and used in accordance with this Certificate, in relation to *NHBC Standards*, Chapter 8.1 *Internal services*.

## Zurich Building Guarantee Technical Manual 2007

In the opinion of the BBA, Blücher Europipe Pipes, Fittings and Adaptors, when installed and used in accordance with this Certificate, satisfy the requirements of the *Zurich Building Guarantee Technical Manual*, Section 3 *Substructure*, Sub-section *Drainage*.

# General

This Certificate relates to Blücher Europipe Pipes, Fittings and Adaptors.

The system is for use in domestic, commercial and public buildings in accordance with BS EN 12056-1 to 3 and 5 : 2000 for the conveyance of surface water and domestic sewage as is permitted to be discharged into public sewers

by the Water Industry Act 1991, and surface water and sewage as is permitted and defined by the Sewerage (Scotland) Act 1968 and the Water and Sewerage Services (Northern Ireland) Order 1973.

The products are installed easily and joints will remain watertight under all normal service conditions.

The products are durable and will have a life in excess of 50 years.

## Technical Specification

### 1 Description

1.1 Blücher EuroPipe Pipes, Fittings and Adaptors are available in the types shown in Figure 1.

1.2 EuroPipe pipes are available in diameters of 50 mm, 75 mm, 82 mm, 110 mm, 125 mm, 160 mm, 200 mm and 250 mm, each with one socket incorporating a groove containing a ring-seal to BS EN 681-1 : 1996, Type WC.

1.3 The range of fittings includes 87.5° single branches, a double ring-seal socketed coupling, sliding ring-seal socketed couplings, a ring-seal socketed expansion piece, a socket plug, an 87.5° P-trap and 87.5°, 45°, 30° and 15° single socketed bends. Each is available in diameters of 50 mm, 75 mm, 82 mm, 110 mm, 160 mm, 200 mm and 250 mm and some are also available in a diameter of 125 mm (see Figure 1). The sockets of every fitting incorporate a groove containing a ring-seal to BS EN 681-1 : 1996, Type WC.

1.4 Increasers and reducers are used to connect sockets to spigots (see Table 1).

1.5 EuroPipe pipe is compatible with 110 mm, 160 mm and 200 mm diameter PVC pipe and can be connected to clay, concrete, and cast-iron pipe and other sizes of PVC pipe with adaptors.

Table 1 Increasers and reducers

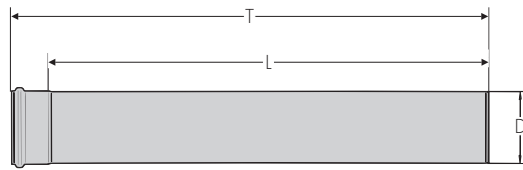
Spigot diameter (mm)	Socket diameter (mm)
<b>Increasers</b>	
200	160
160	125
160	110
125	110
110	75
110	50
75	50
<b>Reducers</b>	
75	110
50	110
50	75

### 2 Delivery and site handling

EuroPipe Fittings and Adaptors are supplied in cardboard boxes. Pipes on pallets stacked loose should be prevented from rolling.

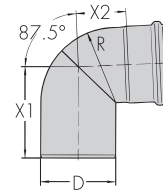
Figure 1 Product range (all dimensions in mm)

**EuroPipe pipes with one socket**



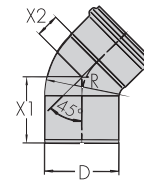
Type No	D	T	L
811.300.250 S	250		3000
811.300.250	250		3000
811.200.250 S	250		2000
811.200.250	250		2000
811.100.250 S	250		1000
811.100.250	250		1000
811.050.250 S	250		500
811.050.250	250		500
811.300.200	200	3090	3000
811.200.200	200	2090	2000
811.100.200	200	1090	1000
811.050.200	200	590	500
811.600.160	160	6071	6000
811.400.160	160	4071	4000
811.300.160	160	3071	3000
811.200.160	160	2071	2000
811.100.160	160	1071	1000
811.050.160	160	571	500
811.025.160	160	321	250
811.300.125	125	3060	3000
811.200.125	125	2060	2000
811.100.125	125	1060	1000
811.025.125	125	310	250
811.600.110	110	6054	6000
811.400.110	110	4054	4000
811.300.110	110	3054	3000
811.200.110	110	2054	2000
811.100.110	110	1054	1000
811.050.110	110	554	500
811.025.110	110	304	250
811.015.110	110	204	150
811.600.082 S	82		6000
811.600.082	82		6000
811.500.082 S	82		5000
811.500.082	82		5000
811.400.082 S	82		4000
811.400.082	82		4000
811.300.082 S	82		3000
811.300.082	82		3000
811.200.082 S	82		2000
811.200.082	82		2000
811.150.082 S	82		1500
811.150.082	82		1500
811.100.082 S	82		1000
811.100.082	82		1000
811.075.082 S	82		750
811.075.082	82		750
811.050.082 S	82		500
811.050.082	82		500
811.025.082 S	82		250
811.025.082	82		250
811.015.082 S	82		150
811.015.082	82		150
811.600.075	75	6050	6000
811.400.075	75	4050	4000
811.300.075	75	3050	3000
811.200.075	75	2050	2000
811.100.075	75	1050	1000
811.050.075	75	550	500
811.025.075	75	300	250
811.015.075	75	200	150
811.600.050	50	6040	6000
811.400.050	50	4040	4000
811.300.050	50	3040	3000
811.200.050	50	2040	2000
811.100.050	50	1040	1000
811.050.050	50	540	500
811.025.050	50	290	250
811.015.050	50	190	150

**87.5° stainless steel bends**



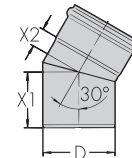
Type No	D	X1	X2	R
820.090.050	50	86	40	50
820.090.075	75	107	53	75
820.090.082	82	109	53	82
820.090.082 S	82	109	53	82
820.090.110	110	134	73	110
820.090.125	125	145	85	125
820.090.160	160	181	105	171
820.090.200	200	397	307	300
820.090.250 S	250	484	388	500

**45° stainless steel bends**



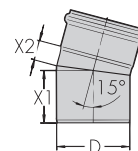
Type No	D	X1	X2	R
820.045.050	50	60	26	50
820.045.075	75	76	33	75
820.045.082	82	80	30	82
820.045.082 S	82	80	30	82
820.045.110	110	93	43	110
820.045.125	125	111	50	125
820.045.160	160	131	55	172
820.045.200	200	234	144	400
820.045.250 S	250	280	184	500

**30° stainless steel bends**



Type No	D	X1	X2
820.030.050	50	57	16
820.030.075	75	71	21
820.030.082	82	70	23
820.030.082 S	82	70	23
820.030.110	110	85	28
820.030.125	125	98	28
820.030.160	160	110	40
820.030.200	200	137	45
820.030.250 S	250	153	56

**15° stainless steel bends**

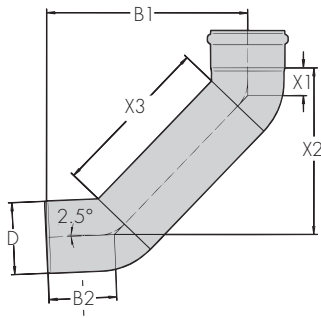


Type No	D	X1	X2
820.015.050	50	54	12
820.015.075	75	66	16
820.015.082	82	64	17
820.015.082 S	82	64	17
820.015.110	110	78	21
820.015.125	125	84	19
820.015.160	160	99	29
820.015.200	200	123	31
820.015.250 S	250	136	38

continued

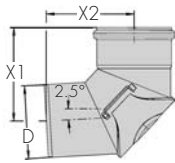
Figure 1 Product range (all dimensions in mm) (continued)

87.5° stainless steel long radius bend



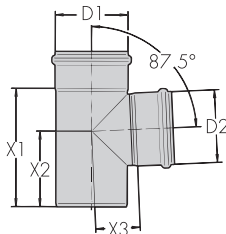
Type No	D	B1	B2	X1	X2	X3
899.4341 B	50	159	72	26	116	104
899.4341 C	75	216	87	32	166	156
821.090.110	110	307	103	42	255	250
820.090.160	160	354	130	54	288	250

87.5° stainless steel access bend



Type No	D	X1	X2
822.090.075	75	112	102
822.090.110	110	143	132
822.090.160	160	200	209

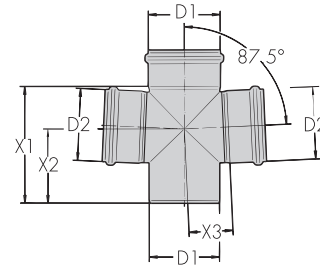
87.5° stainless steel branches



Type No	D1	D2	X1	X2	X3
830.050.050	50	50	106	71	36
830.050.075	75	50	139	98	49
830.050.082	82	50	128	86	52
830.050.082 S	82	50	128	86	52
830.075.075 <sup>(1)</sup>	75	75	139	90	52
830.075.082	82	75	154	99	55
830.075.082 S	82	75	154	99	55
830.082.082	82	82	162	103	56
830.082.082 S	82	82	162	103	56
830.050.110	110	50	132	93	66
830.075.110	110	75	152	104	70
830.110.110 <sup>(1)</sup>	110	110	183	117	69
830.075.125	125	75	187	110	77
830.110.125	125	110	205	127	76
830.125.125	125	125	220	135	72
830.110.160	160	110	236	152	94
830.160.160 <sup>(1)</sup>	160	160	288	184	104
830.160.200	200	160	293	186	124
830.200.200 <sup>(1)</sup>	200	200	333	206	128
830.200.250 S	250	200	352	220	155
830.250.250 S	250	250	407	245	152

(1) To comply with BS EN 12056, use branch type 838.xxx.xxx or type 839.xxx.xxx

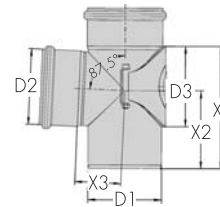
87.5° stainless steel 180° double branch (AISI 316 L only)



Type No	D1	D2	X1	X2	X3
831.050.050 S	50	50	106	71	36
831.050.075 S	75	50	139	98	49
831.050.110 S	110	50	132	93	66
831.075.075 S <sup>(1)</sup>	75	75	139	90	52
831.075.110 S	110	75	152	104	70
831.110.110 S <sup>(1)</sup>	110	110	183	117	69
831.110.160 S	160	110	236	152	94
831.160.160 S <sup>(1)</sup>	160	160	288	184	104

(1) To comply with BS EN 12056, use branch type 836.xxx.xxx S

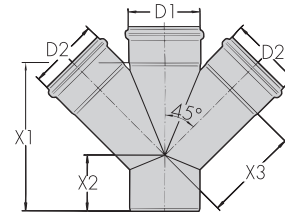
87.5° stainless steel rear access branch (AISI 316 L only)



Type No	D1	D2	D3	X1	X2	X3
834.050.075 S	75	50	83	139	98	49
834.075.075 S <sup>(1)</sup>	75	75	83	139	98	49
834.050.110 S	110	50	117	183	143	106
834.075.110 S	110	75	117	183	135	69
834.110.110 S <sup>(1)</sup>	110	110	117	183	117	69
834.110.160 S	160	110	167	288	204	93
834.160.160 S <sup>(1)</sup>	160	160	167	288	184	102

(1) To comply with BS EN 12056, use branch type 838.xxx.xxx or type 839.xxx.xxx with access pipe type 840.xxx.xxx

45° oblique stainless steel 180° double branch (AISI 316 L only)

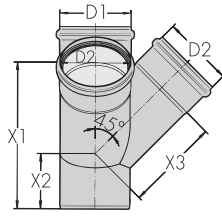


Type No	D1	D2	X1	X2	X3
836.050.050 S	50	50	128	57	76
836.050.075 S	75	50	144	56	94
836.050.110 S	110	50	147	42	119
836.075.075 S	75	75	179	74	110
836.075.110 S	110	75	182	60	135
836.110.110 S	110	110	233	88	149
836.110.160 S	160	110	258	80	186
836.160.160 S	160	160	328	115	222

continued

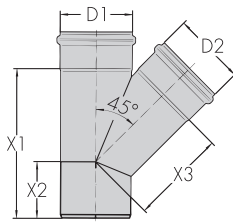
Figure 1 Product range (all dimensions in mm) (continued)

45° oblique stainless steel 90° double branch (AISI 316 L only)



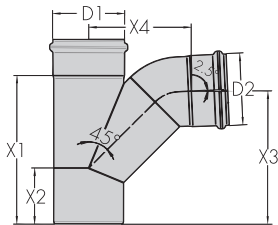
Type No	D1	D2	X1	X2	X3
837.050.050 S	50	50	128	57	76
837.050.075 S	75	50	144	56	94
837.050.110 S	110	50	147	42	119
837.075.075 S	75	75	179	74	110
837.075.110 S	110	75	182	60	135
837.110.110 S	110	110	233	88	149
837.110.160 S	160	110	258	80	186
837.160.160 S	160	160	328	115	222

45° oblique stainless steel access branches



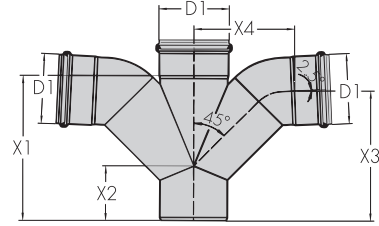
Type No	D1	D2	X1	X2	X3
838.050.050	50	50	128	57	76
838.050.075	75	50	144	56	94
838.050.082	82	50	149	57	102
838.050.082 S	82	50	149	57	102
838.050.110	110	50	147	42	119
838.075.075	75	50	179	74	110
838.075.082	82	75	185	75	114
838.075.082 S	82	75	185	75	114
838.075.110	110	75	182	60	135
838.082.082	82	82	195	80	118
838.082.082 S	82	82	195	80	118
838.110.110	110	110	233	88	149
838.110.125	125	110	250	90	154
838.125.125	125	125	273	103	170
838.110.160	160	110	258	80	186
838.160.160	160	160	328	115	222
838.160.200	200	160	359	123	250
838.200.200	200	200	415	151	274
838.200.250 S	250	200	432	142	307
838.250.250 S	250	250	512	177	334

87.5° swept stainless steel branches



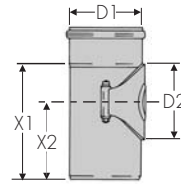
Type No	D1	D2	X1	X2	X3	X4
839.050.050	50	50	128	57	117	84
839.050.075	75	50	144	56	128	97
839.050.110	110	50	147	42	132	115
839.075.075	75	75	179	74	157	113
839.075.110	110	75	182	60	160	130
839.110.110	110	110	233	88	209	160
839.110.160	160	110	258	80	227	186
839.160.160	160	160	328	115	293	225

87.5° double swept stainless steel branch



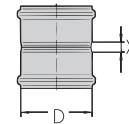
Type No	D1	X1	X2	X3	X4
879.110.110	110	233	88	209	160

stainless steel access pipe<sup>(1)</sup>



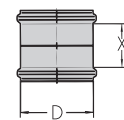
Type No	D1	D2	X1	X2
840.075.075	75	80	139	92
840.110.110	110	120	188	123
840.111.110	110	120	253	187
840.125.125	125	120	195	128
840.160.160	160	120	277	208

stainless steel double ring-seal sockets



Type No	D	X
841.050.050	50	14
841.075.075	75	19
841.082.082 S	82	20
841.110.110	110	16
841.125.125	125	20
841.160.160	160	35
841.200.200	200	40
841.250.250 S	250	30

stainless steel sliding ring-seal socket (AISI 316 L only)

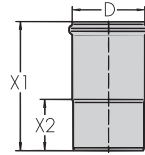


Type No	D	X
842.050.050 S	50	37
842.075.075 S	75	50
842.082.082 S	82	95
842.110.110 S	110	67
842.125.125 S	125	78
842.160.160 S	160	81
842.200.200 S	200	126
842.250.250 S	250	173

continued

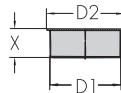
Figure 1 Product range (all dimensions in mm) (continued)

stainless steel expansion socket (AISI 316 L only)

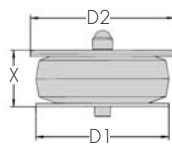


Type No	D	X1	X2
843.105.050 S	50	159	57
843.115.075 S	75	175	62
843.125.110 S	110	200	79
843.182.160 S	160	292	122

stainless steel socket plugs (AISI 316 L only)

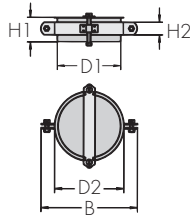


Type No	D1	D2	X
844.000.050 S	50	58	50
844.000.075 S	75	85	45
844.000.110 S	110	120	45
844.000.160 S	160	170	45



Type No	D1	D2	X
844.100.050 S	50	59	31
844.100.075 S	75	83	36
844.100.082 S	82	90	36
844.100.110 S	110	118	46

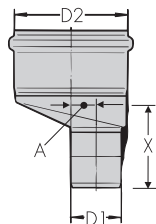
stainless steel socket plug clamps (AISI 316 L only)



Type No	D1	D2	B	H1	H2
845.000.160 S	160	170	214	42	22

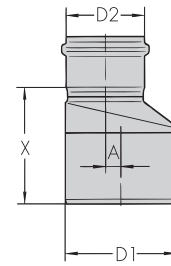
(NB includes socket plug)

stainless steel eccentric reducers



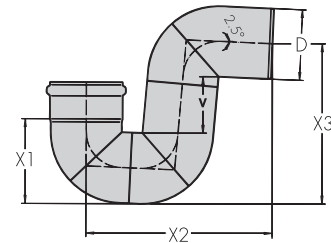
Type No	D1	D2	X	A
850.075.050 S	50	75	84	7
850.110.050 S	50	110	99	25
850.110.075 S	75	110	103	15

stainless steel eccentric increasers



Type No	D1	D2	X	A
850.050.075	75	50	87	7
850.050.082 S	82	50	97	14
850.050.110	110	50	113	25
850.075.110	110	75	116	15
850.110.125	125	110	103	—
850.110.160	160	110	136	22
850.125.160	160	125	175	—
850.160.200	200	160	170	18

87.5° stainless steel traps (AISI 316 L only)



Type No	D	X1	X2	X3	Water Seal (M)
525.090.050 S	50	67	175	145	74
525.090.075 S	75	93	222	189	81
525.090.110 S	110	132	289	249	89
525.090.125 S	125	151	332	278	97
525.090.160 S	160	184	388	338	105

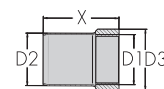
Cleaning eyes available at extra cost.

reducer (rubber)



Enables nom 1 1/4" or 1 1/2" pipes (plastic, copper or stainless steel) to be push-fit connected to 50 mm dia EuroPipe socket.  
 nom 1 1/4" Type No HW 58  
 nom 1 1/2" Type No HW 59

threaded adaptors (AISI 316 L only)

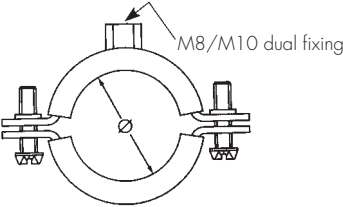


Type No	D1	D2	D3	X
885.032.050 S	1 1/4" FEM	50	45	72
885.040.050 S	1 1/2" FEM	50	58	75
885.050.050 S	2" FEM	50	71	69

continued

Figure 1 Product range (all dimensions in mm) (continued)

Pipe brackets



stainless steel		galvanized steel	
Type No	Pipe dia	Type No	Pipe dia
595650	50	595860	50
595690	75	595890	75
595720	110	595930	110
595730	125	595940	125
595760	160	595960	160
595770	200	595971	200

## Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Blücher EuroPipe Pipes, Fittings and Adaptors.

### Design Considerations

#### 3 General

Blücher EuroPipe Pipes, Fittings and Adaptors are satisfactory for use in an above-ground drainage system designed and installed in accordance with BS EN 12056-1 to 3 : 2000.

#### 4 Practicability of installation

The products are designed to be installed by a competent general builder, or a contractor, experienced with this type of product.

#### 5 Strength

5.1 The EuroPipe pipes, fittings and adaptors will have adequate resistance to the forms of loading associated with installation and normal service conditions.

5.2 The products are of robust construction but rough handling (eg dropping on concrete) could cause distortion of the seal areas. Any items suffering this damage should be discarded.

5.3 The EuroPipe pipes and fittings should be protected from impacts, eg from heavy vehicles such as fork-lift trucks used on commercial premises.

#### 6 Flow characteristics

A system comprising Blücher EuroPipe Pipes, Fittings and Adaptors will have satisfactory flow characteristics. Non-swept branch connections are restricted in accordance with BS EN 12056-1 : 2000, BS EN 12056-2 : 2000 and BS EN 12056-3 : 2000, clause ND.3.24 respectively.

#### 7 Performance of joints



7.1 The joints will not be adversely affected by thermal movement when correctly made.

7.2 The joints will remain watertight under conditions of pipeline movement in excess of those expected to occur in normal good drainage practice.

#### 8 Resistance to chemicals



The stainless steel products will be unaffected by those types and quantities of chemicals likely to be found in wastewater from wet floors or effluents from domestic appliances.

## 9 Resistance to elevated temperatures



The products will have adequate resistance to the temperatures likely to occur in the effluents defined in this Certificate.

## 10 Maintenance



10.1 Sections of the system can be removed easily and replaced.

10.2 With the access plugs removed the pipework can be rodded easily using either cane or polypropylene rods with a cleaning coil head.

10.3 The removable traps are cleaned easily.

## 11 Durability



When used within the conditions and recommendations given in this Certificate the products will have adequate durability with a life in excess of 50 years.

# Installation

## 12 General

12.1 Installation must be carried out in accordance with the Certificate holder's fixing instructions and BS EN 12056-1 to 3 and 5 : 2000.

12.2 Floors fitted with Blücher Floor Drains must be designed to allow the water to flow freely to the gratings and incorporate an effective damp-proof membrane in accordance with CP 102 : 1973, BS 8102 : 1990 and BS 8215 : 1991.

## 13 Procedure

13.1 EuroPipe pipe spigot ends are slightly chamfered to facilitate making the joints. To make the joint, the spigot end must be smeared with lubricant and the pipe pushed fully home into the socket and withdrawn by 2 mm.

13.2 If a EuroPipe pipe has to be cut, this must be undertaken with either the Blücher cutting and bevelling tool or a fine-toothed metal saw. When a saw is used the pipe end should be cut square, deburred and chamfered prior to jointing.

13.3 It is important to ensure that EuroPipe pipes are adequately supported at every connection at a maximum spacing of 3 m. Additional brackets are required at junction positions and changes of direction.

13.4 Connections to other pipe materials (eg vitrified clay, cast iron, etc) are possible, being either compatible or by the use of adaptors.

# Additional Information

The management systems of Blücher Metal A/S have been assessed and registered as meeting the requirements of EN ISO 9001 : 2008 by the Danish Standards Association, Certificate No DSC00035.

# Technical Investigations

## 14 Tests

Tests were carried out to determine:

- dimensional accuracy
- ease of jointing
- ease of jointing to pipes of other materials
- resistance to hydrostatic pressure
- resistance to impact.

## 15 Investigations

15.1 An evaluation of data was made to assess:

- system design
- resistance to chemicals
- practicability of installation
- ease of cleaning

- effect of elevated temperatures
- durability.

15.2 A visit to a site in progress was carried out to assess the practicability of installation.

15.3 The manufacturing process was examined, including the methods adopted for quality control, and details were obtained of the quality and composition of the materials used.

## Bibliography

BS EN 681-1 : 1996 *Elastomeric seals — Material requirements for pipe joint seals used in water and drainage applications — Vulcanized rubber*

BS 8102 : 1990 *Code of practice for protection of structures against water from the ground*

BS 8215 : 1991 *Code of practice for design and installation of damp-proof courses in masonry construction*

CP 102 : 1973 *Code of practice for protection of buildings against water from the ground*

BS EN 12056-1 : 2000 *Gravity Drainage Systems inside Buildings — General and performance requirements*

BS EN 12056-2 : 2000 *Gravity Drainage Systems inside Buildings — Sanitary pipework, layout and calculation*

BS EN 12056-3 : 2000 *Gravity Drainage Systems inside Buildings — Roof drainage, layout and calculation*

BS EN 12056-5 : 2000 *Gravity Drainage Systems inside Buildings — Installation and testing. Instructions for operation, maintenance and use*

EN ISO 9001 : 2008 *Quality systems. Model for quality assurance in design, development, production, installation and servicing*

## 16 Conditions

16.1 This Certificate:

- relates only to the product/system that is named and described on the front page
- is granted only to the company, firm or person named on the front page — no other company, firm or person may hold or claim any entitlement to this Certificate
- is valid only within the UK
- has to be read, considered and used as a whole document — it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English law.

16.2 Publications and documents referred to in this Certificate are those that the BBA deems to be relevant at the date of issue or re-issue of this Certificate and include any: Act of Parliament; Statutory Instrument; Directive; Regulation; British, European or International Standard; Code of Practice; manufacturers' instructions; or any other publication or document similar or related to the aforementioned.

16.3 This Certificate will remain valid for an unlimited period provided that the product/system and the manufacture and/or fabrication including all related and relevant processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

16.4 In granting this Certificate, the BBA is not responsible for:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product/system or any other product/system
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system
- individual installations of the product/system, including the nature, design, methods and workmanship of or related to the installation
- the actual works in which the product/system is installed, used and maintained, including the nature, design, methods and workmanship of such works.

16.5 Any information relating to the manufacture, supply, installation, use and maintenance of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system is manufactured, supplied, installed, used and maintained. It does not purport in any way to restate the requirements of the Health & Safety at Work etc Act 1974, or of any other statutory, common law or other duty which may exist at the date of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care. In granting this Certificate, the BBA does not accept responsibility to any person or body for any loss or damage, including personal injury, arising as a direct or indirect result of the manufacture, supply, installation, use and maintenance of this product/system.

