



# SLOVENSKI STANDARD

## SIST EN 1124-3:2000

01-november-2000

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### Vzdolžno varjene nerjavne jeklene cevi in spojniki z obojko za sisteme za odpadno vodo - 3. del: Sistem X - Mere

Pipes and fittings of longitudinally welded stainless steel pipes with spigot and socket for waste water systems - Part 3: System X; Dimensions

Rohre und Formstücke aus längsnahtgeschweißtem, nichtrostendem Stahlrohr mit Steckmuffe für Abwasserleitungen - Teil 3: System X; Maße

Tubes et raccords de tube soudés longitudinalement en acier inoxydable, a manchon enfichable pour réseaux d'assainissement - Partie 3: Systeme X; Dimensions

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**Ta slovenski standard je istoveten z: EN 1124-3:1999**

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#### **ICS:**

|           |                                 |                         |
|-----------|---------------------------------|-------------------------|
| 23.040.10 | Železne in jeklene cevi         | Iron and steel pipes    |
| 93.030    | Zunanji sistemi za odpadno vodo | External sewage systems |

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EUROPEAN STANDARD

EN 1124-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 1999

ICS 23.040.10; 23.040.40; 23.040.60

Descriptors: water removal, sewage, water pipelines, steel tubes, stainless steel, welded tubes, pipe sockets, seals: stoppers, dimensions, dimensional tolerances

English version

## Pipes and fittings of longitudinally welded stainless steel pipes with spigot and socket for waste water systems - Part 3: System X; Dimensions

Tubes et raccords de tube soudés longitudinalement en acier inoxydable, à manchon enfichable pour réseaux d'assainissement - Partie 3: Système X; Dimensions

Rohre und Formstücke aus längsnahtgeschweißtem, nichtrostendem Stahlrohr mit Steckmuffe für Abwasserleitungen - Teil 3: System X; Maße

This European Standard was approved by CEN on 16 December 1998.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## Foreword

This European Standard has been prepared by Technical Committee CEN/TC 165 "Waste water engineering", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 1999, and conflicting national standards shall be withdrawn at the latest by July 1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## 1 Scope

This standard applies to pipes and fittings of longitudinally welded stainless steel pipes with spigot and socket for waste water systems.

It specifies dimensions and tolerances for pipes, fittings, pipe connectors and seals of the System X and establishes a system of designations for the different pipe and fitting types that conform to the stated requirements.

NOTE: System X is a system of pipes and fittings of longitudinally welded stainless steel pipes with two-step sockets.

This standard is only valid in connection with EN 1124-1.

This standard does not apply to the marking of products. EN 1124-1 applies to the marking.

## 2 Normative References

This European Standard incorporates by dated or undated references, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 295

Vitrified clay pipes and fittings and pipe joints for drains and sewers  
<https://standards.iteh.ai/en/standards/sist-en-1124-3-2000>

prEN 877

Cast iron pipes and fittings, their joints and accessories for the evacuation of water from buildings - Requirements, test methods and quality assurance

EN 1123-1 : 1999

Pipes and fittings of longitudinally welded hot-dip galvanized steel pipes with spigot and socket for waste water systems - Part 1: Requirements, testing, quality control

EN 1124-1 : 1999

Pipes and fittings of longitudinally welded stainless steel pipes with spigot and socket for waste water systems - Part 1: Requirements, testing, quality control

prEN 1329

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Unplasticized poly(vinylchloride) (PVC-U)

prEN 1451

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Polypropylene (PP)

prEN 1453

Plastics piping systems with structured-wall pipes for soil and waste discharge (low and high temperature) inside buildings - Unplasticized poly(vinyl chloride) (PVC-U)

prEN 1455

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Acrylonitrile-butadiene-styrene (ABS)

prEN 1519

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure -

Polyethylene (PE)

prEN 1565

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Styrene-Copolymer-Blends (SAN + PVC)

prEN 1566

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Chlorinated poly(vinyl chloride) (PVC-C)

ISO 1127 : 1992

Stainless steel tubes: Dimensions, tolerances and conventional masses per unit length

### 3 Definitions

For the purposes of this standard, the definitions specified in EN 1124-1 apply.

### 4 Symbols

DN/ID Nominal size regarding the inside diameter

DN/OD Nominal size regarding the outside diameter

 $d$  Diameter $t$  Socket depth $s$  Wall thickness $l$  Effective length $r$  Radius $\alpha$  Angle $e$  Off-set dimension (shift) $t_s$  Least insertion depthiTeh STANDARD PREVIEW  
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#### 5.1 General and tolerances

The figures in this standard are simplified drawings. The dimensions given shall be followed.

Where no dimensions are given in this standard, tolerances for linear dimensions shall be followed according to table 1, tolerances for radii shall be followed according to table 2, tolerances for angular dimensions referring to the smaller side length shall be followed according to table 3 and tolerances for elastomer parts shall be followed according to table 4.

**Table 1**

Dimensions in millimetres

| Dimensional range | Tolerances for linear dimensions |
|-------------------|----------------------------------|
| from 0 up to 300  | $\pm 5$                          |
| more than 300     | $\pm 8$                          |

**Table 2**

Dimensions in millimetres

| Dimensional range       | Tolerances for radii |
|-------------------------|----------------------|
| more than 27 up to 181  | $\pm 3$              |
| more than 181 up to 378 | $\pm 4$              |
| more than 378 up to 457 | $\pm 5$              |

Table 3

| Side length<br>mm       | Tolerances for angles<br>degrees |
|-------------------------|----------------------------------|
| more than 10 up to 120  | $\pm 3$                          |
| more than 120 up to 400 | $\pm 2$                          |
| more than 400           | $\pm 1,5$                        |

Table 4

Dimensions in millimetres

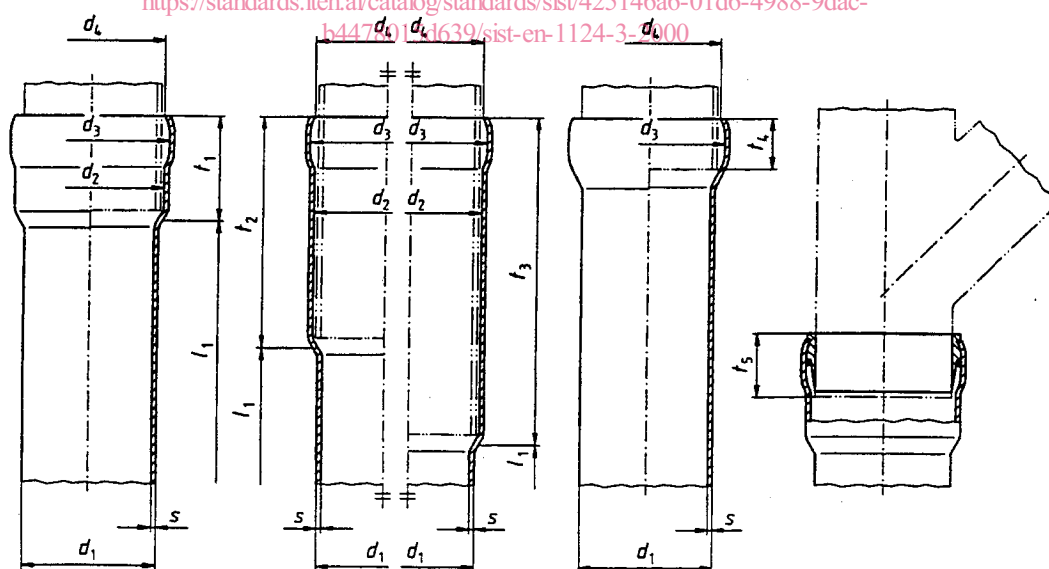
| Range of nominal size   | Tolerances for elastomer parts                 |                                                          |
|-------------------------|------------------------------------------------|----------------------------------------------------------|
|                         | relating form bound dimensions<br>( $F$ ) in % | relating form fitting bound<br>dimension ( $C$ ) in %    |
| more than 25 up to 40   | $\pm 0,6$                                      | $\pm 1,0$                                                |
| more than 40 up to 63   | $\pm 0,8$                                      | $\pm 1,3$                                                |
| more than 63 up to 100  | $\pm 1,0$                                      | $\pm 1,6$                                                |
| more than 100 up to 160 | $\pm 1,3$                                      | $\pm 2,0$                                                |
| above 160               | $\pm 0,8$                                      | by agreement with the<br>manufacturer of the components. |

## 5.2 Sockets

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The socket dimensions according to figure 1 shall conform to table 5. Fittings are generally fabricated with socket type 1 A.

Details not specified shall be chosen appropriately.

Socket type 1 A  
Standard socketSocket type 2 A/3 A  
Long socketSocket type 0,5 A  
Short socket<sup>1)</sup>

Joint with ring seal socket

Figure 1: Socket types

<sup>1)</sup> For use of the short socket, national regulations should be taken into account.

Table 5

Dimensions in millimetres

| Nominal size<br>DN/ID | $d_1^{2)}$ | $s^3)$            |                    |                   | Socket dimensions |       |       |                                  |       |       |       |       |            |                                  |
|-----------------------|------------|-------------------|--------------------|-------------------|-------------------|-------|-------|----------------------------------|-------|-------|-------|-------|------------|----------------------------------|
|                       |            | light series<br>L | medium series<br>M | heavy series<br>S | $d_2$             | $d_3$ | $d_4$ | Tolerances for<br>$d_1$ to $d_4$ | $t_1$ | $t_2$ | $t_3$ | $t_4$ | $t_5^{1)}$ | Tolerances for<br>$t_1$ to $t_4$ |
| 40                    | 42         | 1,0               | 1,2                | 1,5               | 44,8              | 47,8  | 44,8  | $\pm 0,6$                        | 30    | 70    | 100   | 16    | 20         | +4<br>-2                         |
| 50                    | 53         | 1,0               | 1,2                | 1,5               | 55,8              | 59,8  | 55,8  | $\pm 0,6$                        | 38    | 90    | 130   | 19    | 28         |                                  |
| 70                    | 73         | 1,0               | 1,2                | 1,5               | 75,8              | 80,8  | 75,8  | $\pm 0,7$                        | 55    | 120   | 175   | 27    | 35         |                                  |
| 80                    | 89         | 1,0               | 1,2                | 1,5               | 91,8              | 98,8  | 91,8  | $\pm 0,9$                        | 60    | 130   | 190   | 31    | 40         |                                  |
| 100                   | 103        | 1,0               | 1,2                | 1,5               | 106,8             | 114,8 | 107,8 | $\pm 1,0$                        | 70    | 150   | 220   | 38    | 45         |                                  |
| 125                   | 133        | 1,0               | 1,5                | 2,0               | 137,8             | 146,8 | 139,8 | $\pm 1,3$                        | 75    | 160   | 235   | 41    | 50         |                                  |
| 150                   | 159        | 1,0               | 2,0                | 2,5               | 163,8             | 175,8 | 167,8 | $\pm 1,6$                        | 80    | 170   | 250   | 56    | 55         |                                  |
| 200                   | 219        | 1,0               | 2,0                | 2,5               | 223,8             | 240,8 | 227,8 | $\pm 2,2$                        | 120   | 250   | 370   | 76    | 85         |                                  |

<sup>1)</sup> installation instructions only (necessary least insertion depth for tightness of pipe connection). - except short socket  
<sup>2)</sup> Pipe ends slightly retracted  
<sup>3)</sup> Permissible dimensions according to ISO 1127:1992 : ISO tolerance class T 3:  $\pm 10\%$  of the wall thickness, maximum  $\pm 0,2$  mm

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### 5.3 Pipes

The effective length of pipes shall comply with table 6 or table 7.

If the pipes have an additional corrosion protection (P) according to clause 9 of EN 1124-1 : 1999, this shall be added to the designation.

#### 5.3.1 Pipe with one socket – Shape B 1

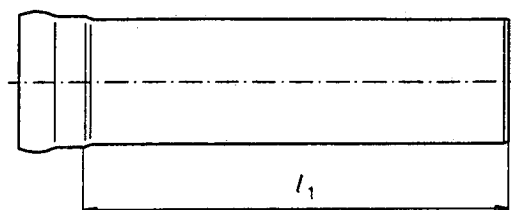


Figure 2: Shape B 1

Designation of a drainage steel pipe (B 1) with standard socket (1 A) of medium series (M), nominal size DN/ID 100 and effective length  $l_1 = 1000$  mm with additional corrosion protection (P):

Pipe EN 1124-3 – B 1 – 1 A M – 100 – 1000 P

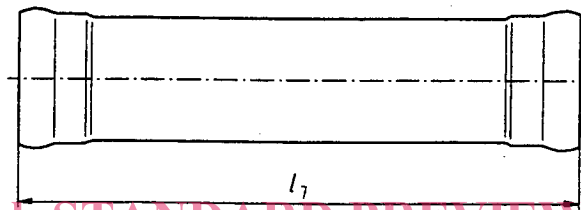


Table 6

Dimensions in millimetres

| Nominal size DN/ID | $l_1 \pm 5$ |     |     |       |       |       |       |       |
|--------------------|-------------|-----|-----|-------|-------|-------|-------|-------|
| 40                 | 250         | 500 | 750 | 1 000 | 1 500 | 2 000 | 3 000 | 4 000 |
| 50                 |             |     |     |       |       |       |       |       |
| 70                 |             |     |     |       |       |       |       |       |
| 80                 |             |     |     |       |       |       |       |       |
| 100                |             |     |     |       |       |       |       |       |
| 125                |             |     |     |       |       |       |       |       |
| 150                |             |     |     |       |       |       |       |       |
| 200                |             |     |     |       |       |       |       |       |

## 5.3.2 Pipe with two sockets – Shape B 2



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Figure 3 Shape B 2

Designation of a drainage steel pipe (B 2) with standard socket (1 A) of medium series (M), nominal size DN/ID 80 and effective length  $l_7 = 750$  mm:

<http://standards.iteh.ai/catalog/standards/sist/425146a6-01d6-4988-9dac-b4478015d639/sist-en-1124-3-2000>

Pipe EN 1124-3 – B 2 – 1 A M – 80 – 750

Table 7

Dimensions in millimetres

| Nominal size DN/ID | $l_7 \pm 5$ |     |     |       |       |       |       |
|--------------------|-------------|-----|-----|-------|-------|-------|-------|
| 40                 | 250         | 500 | 750 | 1 000 | 1 500 | 2 000 | 3 000 |
| 50                 |             |     |     |       |       |       |       |
| 70                 |             |     |     |       |       |       |       |
| 80                 |             |     |     |       |       |       |       |
| 100                |             |     |     |       |       |       |       |
| 125                |             |     |     |       |       |       |       |
| 150                |             |     |     |       |       |       |       |
| 200                |             |     |     |       |       |       |       |

## 5.4 Bend

If required, type (A) or (B) and the additional corrosion protection (P) according to EN 1124-1 shall be added to the designation (see 5.3).

### 5.4.1 Bend with large radius – Shape C 1

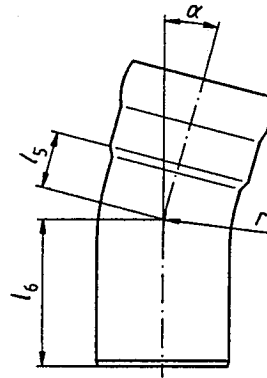


Figure 4: Shape C 1

Designation of a bend (C 1) with standard socket (1 A) of medium series (M), nominal size DN/ID 100 and  $\alpha = 45^\circ$  of type A:

Bend EN 1124-3 – C 1 1 A M – 100 – 45 A  
 (standards.iteh.ai) **Table 8**

Dimensions in millimetres

| Nominal size DN/ID | Type | $\alpha = 15^\circ$ |       |       | $\alpha = 30^\circ$ |       |       | $\alpha = 45^\circ$ |       |       | $\alpha = 70^\circ$ |       |       | $\alpha = 87^\circ$ |       |       |
|--------------------|------|---------------------|-------|-------|---------------------|-------|-------|---------------------|-------|-------|---------------------|-------|-------|---------------------|-------|-------|
|                    |      | r                   | $l_5$ | $l_6$ | r                   | $l_5$ | $l_6$ | r                   | $l_5$ | $l_6$ | r                   | $l_5$ | $l_6$ | r                   | $l_5$ | $l_6$ |
| 40                 | –    | 67,5                | 37    | 67    | 67,5                | 46    | 76    | 67,5                | 56    | 86    | 67,5                | 75    | 105   | 67,5                | 92    | 122   |
| 50                 | –    | 82,5                | 53    | 81    | 82,5                | 64    | 92    | 82,5                | 76    | 104   | 82,5                | 100   | 128   | 82,5                | 120   | 148   |
| 70                 | –    | 117,5               | 50    | 89    | 117,5               | 66    | 105   | 117,5               | 83    | 122   | 117,5               | 118   | 157   | 117,5               | 146   | 185   |
| 80                 | A    | 115                 | 40    | 100   | 115                 | 46    | 106   | 115                 | 62    | 122   | 115                 | 95    | 155   | 115                 | 130   | 190   |
|                    | B    | –                   | 25    | 85    | 114,5               | 56    | 116   | 114,5               | 72,5  | 132,5 | 114,5               | 105   | 165   | 114,5               | 134   | 194   |
| 100                | A    | 152                 | 45    | 115   | 152                 | 56    | 126   | 152                 | 78    | 148   | 152                 | 121   | 191   | 152                 | 167   | 237   |
|                    | B    | –                   | 45    | 115   | 150                 | 65    | 135   | 150                 | 87    | 157   | 150                 | 130   | 200   | 150                 | 167   | 237   |
| 125                | A    | 180                 | 45    | 116   | 180                 | 75    | 150   | 180                 | 100   | 175   | 180                 | 151   | 226   | 180                 | 205   | 280   |
|                    | B    | –                   | 49    | 110   | 181                 | 73    | 148   | 181                 | 100   | 175   | 181                 | 152   | 227   | 181                 | 197   | 272   |
| 150                | A    | 216                 | 45    | 125   | 216                 | 85    | 165   | 216                 | 115   | 195   | 216                 | 177   | 257   | 216                 | 241   | 321   |
|                    | B    | –                   | 53    | 133   | 216                 | 83    | 163   | 216                 | 114   | 194   | 216                 | 176   | 256   | 216                 | 230   | 310   |
| 200                | A    | 305                 | 45    | 165   | 305                 | 110   | 230   | 305                 | 155   | 275   | 305                 | 240   | 360   | 305                 | 330   | 450   |
|                    | B    | –                   | 45    | 165   | –                   | 45    | 165   | 305                 | 166   | 270   | 305                 | 254   | 360   | 305                 | 330   | 435   |

### 5.4.2 Bend with small radius – Shape C 2

Bend C 2 should not be used for buried pipes.

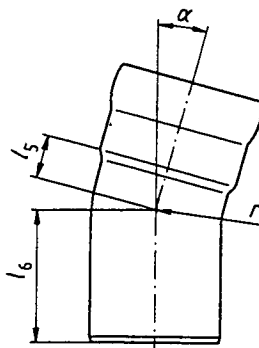


Figure 5: Shape C 2

Designation of a bend (C 2) with standard socket (1 A) of medium series (M), nominal size DN/ID 100 and  $\alpha = 45^\circ$  of type B:

Bend EN 1124-3 – C 2 – 1 A M – 100 – 45 B

Table 9

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Dimensions in millimetres

| Nominal size<br>DN/ID | Type | $\alpha = 15^\circ$ |       |       | $\alpha = 30^\circ$ |       |       | $\alpha = 45^\circ$ |       |       | $\alpha = 70^\circ$ |       |       | $\alpha = 87^\circ$ |       |       |
|-----------------------|------|---------------------|-------|-------|---------------------|-------|-------|---------------------|-------|-------|---------------------|-------|-------|---------------------|-------|-------|
|                       |      | $r$                 | $l_5$ | $l_6$ | $r$                 | $l_5$ | $l_6$ | $r$                 | $l_5$ | $l_6$ | $r$                 | $l_5$ | $l_6$ | $r$                 | $l_5$ | $l_6$ |
| 40                    | –    | –                   | –     | –     | –                   | –     | 28    | 19                  | 64    | 28    | 27                  | 72    | 28    | 34                  | 79    |       |
| 50                    | A    | –                   | –     | –     | –                   | –     | –     | 36,5                | 24    | 79    | 36,5                | 35    | 89    | 36,5                | 44    | 100   |
|                       | B    | –                   | –     | –     | –                   | –     | –     | 30                  | 26    | 80    | 30                  | 35    | 89    | 30                  | 43    | 97    |
| 70                    | A    | –                   | –     | –     | –                   | –     | –     | 50                  | 33    | 91    | 50                  | 50    | 105   | 50                  | 60    | 120   |
|                       | B    | –                   | –     | –     | –                   | –     | –     | 95                  | 50    | 110   | 95                  | 77    | 137   | 95                  | 100   | 160   |
| 100                   | –    | 70                  | 34    | 104   | 70                  | 44    | 114   | 70                  | 54    | 124   | 70                  | 74    | 144   | 70                  | 91    | 161   |

## 5.4.3 Bend with stilling section – Shape C 3

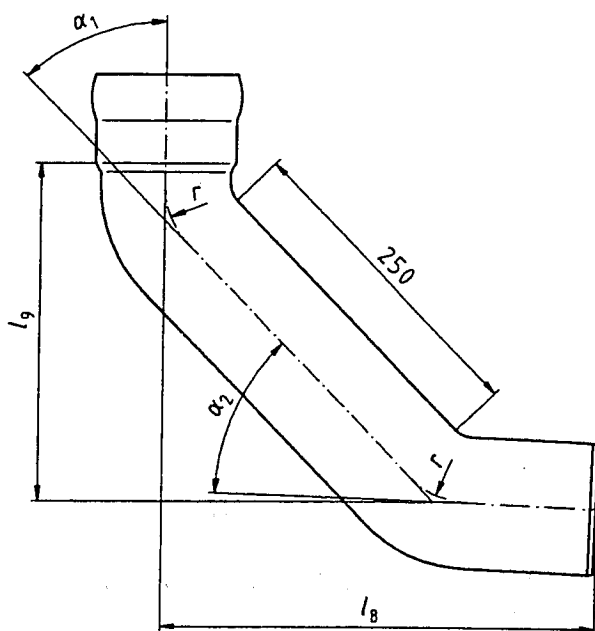


Figure 6: Shape C 3

Designation of a bend with stilling section (C 3) with standard socket (1 A) of medium series (M), nominal size DN/ID 100 of type A:

Bend EN 1124-3 – C 3 – 1 A M – 100 A

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<https://standards.iteh.ai/catalog/standards/sist/625146a6-01d6-4988-9dac-b4478015d639/sist-en-1124-3-2000> Table 10

Dimensions in millimetres

| Nominal size<br>DN/ID | Type | $\alpha_1$ | $\alpha_2$ | $r$   | $l_8$ | $l_9$ |
|-----------------------|------|------------|------------|-------|-------|-------|
| 70                    | A    | 44°        | 44°        | 118   | 335   | 288   |
|                       | B    |            |            | 95    | 335   | 288   |
| 80                    | –    |            |            | 114,5 | 370   | 324   |
| 100                   | A    |            |            | 150   | 421   | 350   |
|                       | B    |            |            | 70    | 335   | 275   |
| 125                   | A    |            |            | 181   | 443   | 373   |
|                       | B    |            |            | 181   | 445   | 387   |
| 150                   | A    |            |            | 216   | 480   | 410   |
|                       | B    | 216        | 485        | 425   |       |       |