

SVENSK STANDARD

SS-EN ISO 1307:2008

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Slang av gummi och plast – Slangstorlekar, min och max innerdiametrar och toleranser på skurna slanglängder (ISO 1307:2006)

Rubber and plastics hoses – Hose sizes, minimum and maximum inside diameters, and tolerances on cut-to-length hoses (ISO 1307:2006)

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Europastandarden EN ISO 1307:2008 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN ISO 1307:2008.

Denna standard ersätter SS-EN ISO 1307, utgåva 1.

The European Standard EN ISO 1307:2008 has the status of a Swedish Standard. This document contains the official English version of EN ISO 1307:2008.

This standard supersedes the Swedish Standard SS-EN ISO 1307, edition 1.

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EUROPEAN STANDARD

EN ISO 1307

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2008

ICS 23.040.70

Supersedes EN ISO 1307:1995

English Version

Rubber and plastics hoses - Hose sizes, minimum and maximum inside diameters, and tolerances on cut-to-length hoses (ISO 1307:2006)

Tuyaux en caoutchouc et en plastique - Dimensions des tuyaux, diamètres intérieurs minimaux et maximaux, et tolérances sur la longueur de coupe (ISO 1307:2006)

Gummi- und Kunststoffschläuche - Schlauchmaße, Kleinst- und Größt-Innendurchmesser, und Toleranzen bei abgelängten Schläuchen (ISO 1307:2006)

This European Standard was approved by CEN on 26 December 2007.

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

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SS-EN ISO 1307:2008 (E)

Foreword

The text of ISO 1307:2006 has been prepared by Technical Committee ISO/TC 45 "Rubber and rubber products" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 1307:2008 by Technical Committee CEN/TC 218 "Rubber and plastics hoses and hose assemblies", the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by July 2008, and conflicting national standards shall be withdrawn at the latest by July 2008.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 1307:2006 has been approved by CEN as EN ISO 1307:2008 without any modifications.

Rubber and plastics hoses — Hose sizes, minimum and maximum inside diameters, and tolerances on cut-to-length hoses

1 Scope

This International Standard specifies the sizes of rubber and plastics hoses and the minimum and maximum inside diameters permitted for each hose size. For this purpose, hoses are divided into four types according to the process by which they are manufactured. The standard also specifies tolerances on cut-to-length rubber and plastics hoses for industrial and automotive applications. This standard is intended to be used with the relevant hoses product standard unless there is justification for using a different hose size or unless a hose size needs a different inside-diameter range for a particular application.

2 Hose sizes and ID tolerances by manufacturing type

The sizes of rubber and plastic hoses and their respective inside-diameter ranges shall be in accordance with Table 1. Four types are specified, according to the process used to manufacture them:

- type A: hoses built using a rigid mandrel for inside-diameter control;
- type B: hoses built using a flexible mandrel for inside-diameter control (plus plastic hydraulic hoses made with or without a mandrel);
- type C: hoses built without using a mandrel (non-mandrel-built);
- type D: flexible extruded plastics hoses (type D does not include spiral-reinforced plastics suction and discharge hoses, which are classified as type C).

Table 1 — Hose sizes and inside-diameter tolerances

Nominal size	Minimum and maximum inside-diameters							
	mm							
	Type A Built on rigid mandrel		Type B Built on flexible mandrel		Type C Non-mandrel-built (standard tolerance)		Type D Extruded plastic Non-mandrel-built (tight tolerance)	
	min.	max.	min.	max.	min.	max.	min.	max.
3,2	3,2	3,8	N/A	N/A	N/A	N/A	3,0	3,4
4	4,0	4,8	4,0	4,8	3,4	4,6	3,7	4,3
5	4,6	5,4	4,6	5,4	4,2	5,4	4,7	5,3
6,3	6,2	7,0	6,2	7,0	5,6	7,2	6,0	6,6
8	7,7	8,5	7,7	8,5	7,2	8,8	7,7	8,3
10	9,3	10,1	9,3	10,1	8,7	10,3	9,7	10,3
12,5	12,3	13,5	12,3	13,5	11,9	13,5	12,2	12,8
16	15,5	16,7	15,5	16,7	15,1	16,7	15,7	16,3
19	18,6	19,8	18,6	19,8	18,3	19,9	18,4	19,6
20	19,6	20,8	19,6	20,8	19,3	20,9	N/A	N/A
25	25,0	26,4	25,0	26,4	24,2	26,6	24,4	25,6
31,5	31,4	33,0	31,4	33,0	30,2	33,4	30,9	32,1
38	37,7	39,3	37,7	39,3	36,5	39,7	37,4	38,6
40	39,7	41,3	39,7	41,3	38,5	41,7	N/A	N/A
50	49,4	51,0	N/A	N/A	48,1	51,6	N/A	N/A
51	50,4	52,0	N/A	N/A	49,1	52,6	50,2	51,8
63	63,1	65,1	N/A	N/A	61,5	65,5	62,2	63,8
76	74,6	77,8	N/A	N/A	74,2	78,2	75,0	77,0
80	78,6	81,8	N/A	N/A	78,2	82,2	N/A	N/A
90	87,3	90,5	N/A	N/A	N/A	N/A	N/A	N/A
100	100,0	103,2	N/A	N/A	99,4	103,9	N/A	N/A
125	125,4	128,6	N/A	N/A	124,8	129,3	N/A	N/A
150	150,4	154,4	N/A	N/A	150,2	154,7	N/A	N/A
160	N/A	N/A	N/A	N/A	162,9	167,4	N/A	N/A
200	200,7	205,7	N/A	N/A	200,2	206,2	N/A	N/A
250	251,0	257,0	N/A	N/A	251,0	257,0	N/A	N/A
305	301,8	307,8	N/A	N/A	301,8	307,8	N/A	N/A
315	314,5	320,5	N/A	N/A	N/A	N/A	N/A	N/A
350	N/A	N/A	N/A	N/A	351,6	359,6	N/A	N/A
400	N/A	N/A	N/A	N/A	402,4	410,4	N/A	N/A

N/A = Not available.