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**Takavvattningsprodukter – Hängrännor och  
stuprör av metall**

**Eaves gutters with bead stiffened fronts and  
rainwater pipes with seamed joints made of  
metal sheet**

ICS 91.060.20

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Denna standard, tillsammans med SS-EN 607:2004, utgåva 2, ersätter även SS 83 10 15, utgåva 2.

The European Standard EN 612:2005 has the status of a Swedish Standard. This document contains the official English version of EN 612:2005.

This standard supersedes the Swedish Standards SS-EN 612, edition 1, SS-EN 612/AC, edition 1, SS 83 10 14, edition 2 and SS 83 10 16, edition 2.

This standard together with SS-EN 607:2004, edition 2 supersedes the Swedish Standard SS 83 10 15, edition 2.

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*Telefon:* 08 - 555 523 10. *Telefax:* 08 - 555 523 11  
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EUROPEAN STANDARD  
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**EN 612**

February 2005

ICS 91.060.20

Supersedes EN 612:1996

English version

## Eaves gutters with bead stiffened fronts and rainwater pipes with seamed joints made of metal sheet

Gouttières pendantes à ourlet et descentes d'eaux pluviales en métal laminé

Hängedachrinnen mit Aussteifung der Rinnenvorderseite und Regenrohre aus Metallblech mit Nahtverbindungen

This European Standard was approved by CEN on 13 January 2005.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

**Management Centre: rue de Stassart, 36 B-1050 Brussels**

**EN 612:2005 (E)**

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## **Foreword**

This document (EN 612:2005) has been prepared by Technical Committee CEN/TC 128 "Roof covering products for discontinuous laying and products for wall cladding", the secretariat of which is held by IBN.

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 August 2005, and conflicting national standards shall be withdrawn at the latest by August 2005.

This document supersedes EN 612:1995.

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

## **EN 612:2005 (E)**

### **Introduction**

This document specifies product requirements, derived from performance requirements established for various applications and is supported by separate standards for specific and common test methods in the framework of respective material standards. The performance of a gutter and drainage system made with these products depends not only on the properties of the products as they are defined by this document. The design, construction and behaviour of the relevant parts of the building also have an effect on the performance of the system.

## 1 Scope

This document specifies requirements for eaves gutters and rainwater down-pipes made from metal sheet. It establishes the general characteristics, designation system, classification, marking and quality requirements for the products.

The document applies to eaves gutters and external rainwater down-pipes that are supported by metal brackets and used to drain away rainwater. The shape and dimensions of a gutter are defined by the quantity of water to be drained away from the roof to the down-pipes and by architectural design requirements.

The document specifies the requirements for gutters and rainwater down-pipes which enable these products to meet all usual service conditions such as catching and draining away rainwater, melted snow or ice water from a building to a drainage system or a sewer outside the building.

Requirements for fixings, supporting construction, flashings or the method of making joints between the different components are not included in this document.

This document does not specify requirements for eaves gutters handmade on site.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 988, *Zinc and zinc alloys - Specification for rolled flat products for building*

EN 1172, *Copper and copper alloys — Sheet and strip for building purposes*

EN 1396, *Aluminium and aluminium alloys - Coil coated sheet and strip for general applications - Specifications.*

EN 10088-1, *Stainless steels - Part 1: List of stainless steels*

EN 10327, *Continuously hot-dip coated strip and sheet of low carbon steels for cold forming - Technical delivery conditions*

ENV 10169-2, *Continuously organic coated (coil coated) steel flat products - Part 2: Products for building exterior applications*

EN 10326, *Continuously hot-dip coated strip and sheet of structural steels - Technical delivery conditions*

EN 10327, *Continuously hot-dip coated strip and sheet of low carbon steels for cold forming - Technical delivery conditions*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1

#### **eaves gutter**

gutter situated outside the building and supported by brackets

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### 3.2

#### **down-pipe**

pipe fitted to a gutter to lead rainwater from the gutter to the drainage system or sewer

### 3.3

#### **bead**

profile of partly circular or rectangular shape at the top of the front of a gutter

### 3.4

#### **front**

part of the gutter fitted away from the building (see Figure 1)

### 3.5

#### **bottom (sole)**

lower part of the gutter profile (see Figure 1)

### 3.6

#### **back**

part of the gutter fitted adjacent to the building (see Figure 1)

### 3.7

#### **water check**

small inward bend at the top edge of the back of a gutter

### 3.8

#### **developed width**

original width of the piece of metal sheet from which the gutter or down-pipe is produced

### 3.9

#### **commercial length**

length of a gutter or a down-pipe which was produced in a factory

### 3.10

#### **accessories**

all parts besides the gutter and the down-pipe which are necessary for the construction of a rainwater drainage

### 3.11

#### **seam overlap**

overlap of material when a rainwater down-pipe is formed from a flat metal sheet (see Figure 3)

## 4 Shapes

### 4.1 Gutters

#### 4.1.1 Components

A gutter, formed from one piece of metal sheet, shall consist of the following four main parts:

- bead;
- front;
- bottom and
- back.