

norm**NEN-EN 13658-2**

Metalen regelwerk en hoekprofielen -
Definities, eisen en beproevingsmethoden
- Deel 2: Buitenpleisterwerk

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Metal lath and beads - Definitions, requirements and test methods -
Part 2: External rendering

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Metal lath and beads - Definitions, requirements and test methods - Part 2: External rendering

Lattis et cornières métalliques - Définitions, prescriptions et méthodes d'essai - Partie 2: Enduits extérieurs

Putzprofile und Putzträger aus Metall - Definitionen, Anforderungen und Prüfverfahren - Teil 2: Außenputze

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 241.

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Contents

Foreword	3
1 Scope	4
2 Normative references	4
3 Definitions	5
4 Requirements	7
5 Testing and sampling	12
6 Evaluation of conformity	16
7 Designation	17
8 Marking, labelling and packaging	18
Annex Z (informative)	28
Z.1 Clauses of this European Standard addressing the provisions of EU Construction Products Directive	28
Z.2 Procedure(s) for the attestation of conformity of products	28
Z.3 CE Marking and labelling	29

Preview
prEN 13658-2

Foreword

This European Standard has been prepared by the Technical Committee CEN/TC 241 "Gypsum and gypsum based products" the secretariat of which is held by AFNOR.

This document is currently submitted to CEN enquiry.

No existing European Standard is superseded.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association and supports essential requirements of EU Directives.

For relationships with EU Directives, see informative annex Z which is an integral part of this standard.

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Diagram – Family of gypsum products (to be inserted later on according to prEN 13279-1)

1 Scope

This European Standard specifies the requirements and test methods of metal lath and beads for external rendering.

It covers metal lath intended to be used for fixing to structures or solid backgrounds to provide a lining key to hold the render in position. Used in this way it enables fire protecting rendering systems to be provided.

It covers metal beads intended to be used for improve the protection of external angles and also provide features to the external finish of the construction. They may also contribute to fire protection.

2 Normative references

This European Standard incorporates by dated or undated reference, 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.

prEN 1364-1	Fire resistance testing - Non-loadbearing elements - Part 1 : Walls
prEN 1365-5	Fire resistance testing - Loadbearing elements - Part 5 : Beams
prEN 1365-6	Fire resistance testing - Loadbearing elements - Part 6 : Columns
EN 10142	Continuously hot-dip zinc coated low carbon steel sheet and strip for cold forming - Technical delivery conditions (includes amendment A1 : 1995)
EN 10143	Continuously hot-dip metal coated steel sheet and strip - Tolerances on dimensions and shape
EN 10218-2	Steel wire and wire products - General - Part 2 : Wire dimensions and tolerances
EN 10244-1	Steel wire and wire products - Non-ferrous metallic coatings on steel - Part 1 : General principle
EN 10258	Cold-rolled stainless steel narrow strip - Tolerances on dimensions and shape
EN 10264-4	Steel wire and wire products - Steel wire for ropes - Part 4 : Stainless steel wires
PrEN CBQD-1	Application for external rendering
PrEN YYY-1	Classification using data from reaction to fire tests
PrEN YYY-2	Classification using data from resistance to fire tests

3 Definitions

For the purpose of this European Standard, the following definitions apply :

3.1 Metal lath

3.1.1 flat metal lath (expanded)

Corrosion resistant diamond shaped mesh to provide a key for rendering (see figure 3a).

3.1.2 corrugated metal lath (expanded)

A corrosion resistant diamond mesh with at least 5 mm height corrugation to provide extra stiffness (see figure 3b).

3.1.3 normal ribbed lath (expanded)

A corrosion resistant mesh formed by expanding with integral solid ribs at least 7 mm height to provide extra stiffness (see figure 4).

3.1.4 mini ribbed lath (expanded)

A corrosion resistant mesh formed by expanding with integral solid ribs between 4 mm and 7 mm height (see figure 4).

3.1.5 standard paperbacked wire lath

Corrosion resistant wire spot welded to form a square mesh to provide a key for rendering. Between the horizontal and vertical wires a sheet of cardboard is positioned (see figure 5 and table 4).

3.1.6 reinforced paperbacked wire lath

Same as 3.1.5, but the reinforcing wires are thicker and less widely spaced in order to increase stiffness.

3.1.7 high ribbed paperbacked wire lath

Same as 3.1.6, but with thicker wires to provide still greater stiffness.

3.1.8 damp proof regular paperbacked wire lath

Same as 3.1.6 but with a bituminous paper bonded to the back of the cardboard sheet to provide extra damp control.

3.1.9 welded wire mesh

A corrosion resistant spot welded wire mesh (see figure 6).

3.1.10 stainless steel claylath

A woven mesh of stainless steel wire with clay pressed on the intersection of the wire and then fired.

3.1.11 LWM

Long way mesh dimension (see figures 3 and 4).

3.1.12 SWM

Short way mesh dimension (see figures 3 and 4).

3.2 Metal beads and their uses

3.2.1 angle bead

Corrosion resistant profiled section used to protect the rendered external angles. Can also be fabricated from wire.

3.2.2 stop bead

Corrosion resistant profiled section used to provide a straight and protected edge to receive the render. Can also be fabricated from wire.

3.2.3 rendered stop bead and soccle bead

Corrosion resistant profiled section used to provide a straight and protective edge at the lower horizontal edge of the render. It also forms a drip profile to enable water to fall away from the wall below the render. Can also be fabricated from wire.

3.2.4 movement bead

Corrosion resistant profiled sections connected with a flexible plastic/synthetic extrusion capable of a maximum movement of ± 3 mm of the external render surface.

3.2.5 expansion bead

Corrosion resistant profiled sections with a flexible extrusion capable of expansions greater than ± 3 mm i.e. to allow for background movement. It provides vertical and horizontal flexibility.

3.2.6 corner movement bead

Corrosion resistant profiled section as 3.2.4, with a flexible plastic extrusion used to locate the stop beads at 90° (maximum movement : ± 3 mm).

3.2.7 corner expansion bead

Corrosion resistant profiled section with a flexible extrusion capable of expansions greater than ± 3 mm i.e. to allow for background movement in 90° inner corners.

3.3 Metal beads, functional features

3.3.1 profiled face/edge

Surface or edge of bead used to provide the feature or function.

3.3.2 wing

Area of metal strip joining the bead face or edge usually expanded or perforated or welded wire used for fixing and also key for render.

3.3.3 open area

Percentage of wing area perforated or expanded or percentage of opening between welded wires.

3.3.4 plastic sheathing

Plastic extrusion profiles designed to clip over exposed surfaces of beads for added protection against corrosion.

NOTE : See table 1 for geometric profiles.

4 Requirements

4.1 Fire behaviour

4.1.1 Reaction to fire

When the intended use of metal lath and beads is for situations in building construction works where there is a risk of exposure to fire, metal lath and beads are classified in Euroclass A (no contribution to fire)¹ without testing unless they have lacquer or plastic coating. In this case they shall be tested and classified in accordance with EN YYY -1.

¹ According to Commission decision 96/603/EEC.

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