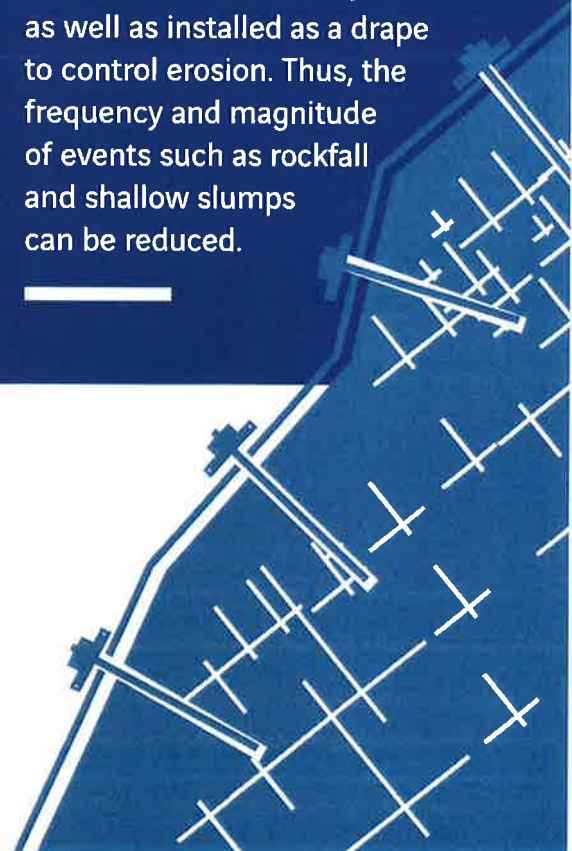


Rectangular netting products are developed for low to medium strength applications. It can be used for stabilizing slopes by pinning them with a combination of mesh and rock or soil anchors, as well as installed as a drape to control erosion. Thus, the frequency and magnitude of events such as rockfall and shallow slumps can be reduced.

# Slope Retention System

RECTANGULAR NETTINGS



# Slope Retention System – Rectangular Nettings

**Anchor plates with two rope connections**  
(in vertical and horizontal directions)

## MATERIAL

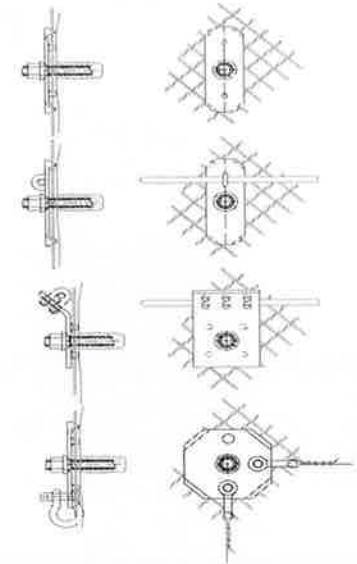
These rolled rectangular netting products consist of galvanized high grade corrosion prevention using Zn- or ZnAlcoating. They are manufactured in accordance with the European Standard EN10223-6.

## INSTALLATION

The panels are unrolled from the top to the bottom in the hazard zones. The different mesh layers are then connected by overlapping and clipping them together with high-tensile steel ring fasteners or using a high-tensile sewing rope. Horizontal connections are made with an original wire strand yielding a seamless connection. Additionally, mesh can be secured by spike plates at anchor positions.

## ADVANTAGES

Under most conditions, rectangular nettings can be easily and quickly installed, thereby considerably reducing mitigation costs. Furthermore, corrosion protection is assured by a high-quality of metallic coating that increases the life and durability of the netting.



## Mesh Characteristics

Mesh Type <sup>1</sup>	Rectangular netting	Rectangular netting
Mesh Size [a x a] mm	50 x 50	60 x 60
Opening angle [α] °	90	90
No. mesh openings, length per m	13	11
No. mesh openings, width per m	13	11
C-Ring Diameter mm	3.0	3.0

<sup>1</sup> in accordance with European Standard EN 10223-6

## Wire Properties

Wire Diameter mm	2.5	3.1	3.8	3.1	3.8
Tensile Strength N/mm <sup>2</sup>	400 - 550			400 - 550	
Corrosion Protection <sup>1</sup>	Zn/ZnAl	Zn/ZnAl	Zn/ZnAl	Zn/ZnAl	Zn/ZnAl
Mass of Coating <sup>1</sup> g/m <sup>2</sup>	245	255	275	255	275

<sup>1</sup> in accordance with European Standard EN 10244-2, class A

## Strength Properties

Mesh Type	50/50/2.5	50/50/3.1	50/50/3.8	60/60/3.1	60/60/3.8
Tensile Strength, lengthw. kN/m	27.4	39.2	74.2	39.9	64.7
Tensile Strength, crossw. kN/m	35.4	47.1	73.6	44.7	66.0
Resistance of Puncture unsupported <sup>1</sup> kN	16.6	27.0	46.5	26.6	50.6
Resistance of Puncture supported <sup>2</sup> kN	137.9	114.3	273.6	142.9	248.1
Resistance of Puncture ASTM <sup>3</sup> kN	34.8	46.8	86.8	43.4	67.9
Shear resistance <sup>4</sup> kN	69.0	57.2	136.8	71.4	124.1
Shear-puncture resistance <sup>5</sup> kN	8.1	14.4	22.1	10.2	18.0

<sup>1</sup> tested without a deformable layer beneath mesh (in open air), in accordance with BVFS test reports

<sup>2</sup> tested with a deformable layer beneath mesh, in accordance with BVFS test reports

<sup>3</sup> tested with circular plate according to ASTM A975-11, in accordance with BVFS test reports

<sup>4</sup> shear resistance on upper edge of spike plate (1/2 value of resistance of puncture, supported)

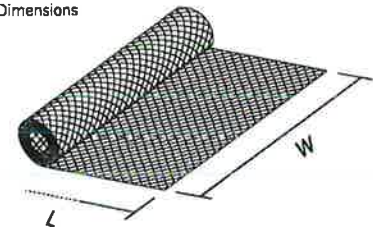
<sup>5</sup> slope parallel tensile stress tested with TRUMER spike plate, in accordance with BVFS test reports

## Roll Sizing Options

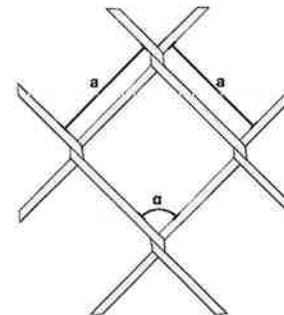
Mesh Type	50/50/2.5	50/50/3.1	50/50/3.8	60/60/3.1	60/60/3.8
Width [W] m	2.0	2.0/3.0	2.0/3.0	2.0 - 4.0	2.0/3.0
Length [L] m	25.0	20.0/25.0	12.5/25.0	20.0/25.0	12.5/25.0
Weight kg/m <sup>2</sup>	1.6	2.4	3.9	2.0	3.3

<sup>1</sup> Other dimensions are possible in accordance with project specific design requirements

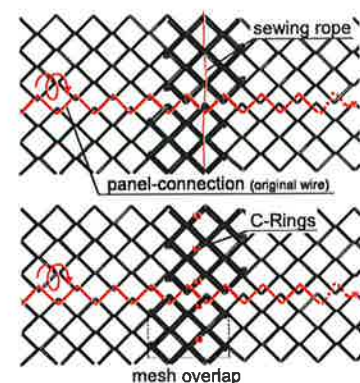
Roll Dimensions



Mesh Dimensions



Seam Connection



<sup>1</sup> Proposal for possible panel-connection types according to the state of the art. The type of panel-connection must be carried out in accordance to lokal standards and regulations.

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