



# ROPE NET

Rockfall prevention  
system

**TR** Engineering

**ROPENET** is rockfall prevention system that protects the environment

**Core advantages of ROPENET system**

**Fixes stones on slopes**

Flexible and durable wire rope firmly covers the slope and retains large stones, preventing the falling of loose stones onto the slope and thus providing a slope stabilization.

**Ease of assembly**

Materials and equipment used for Rope Net are lightweight, so that assembly is very easy.

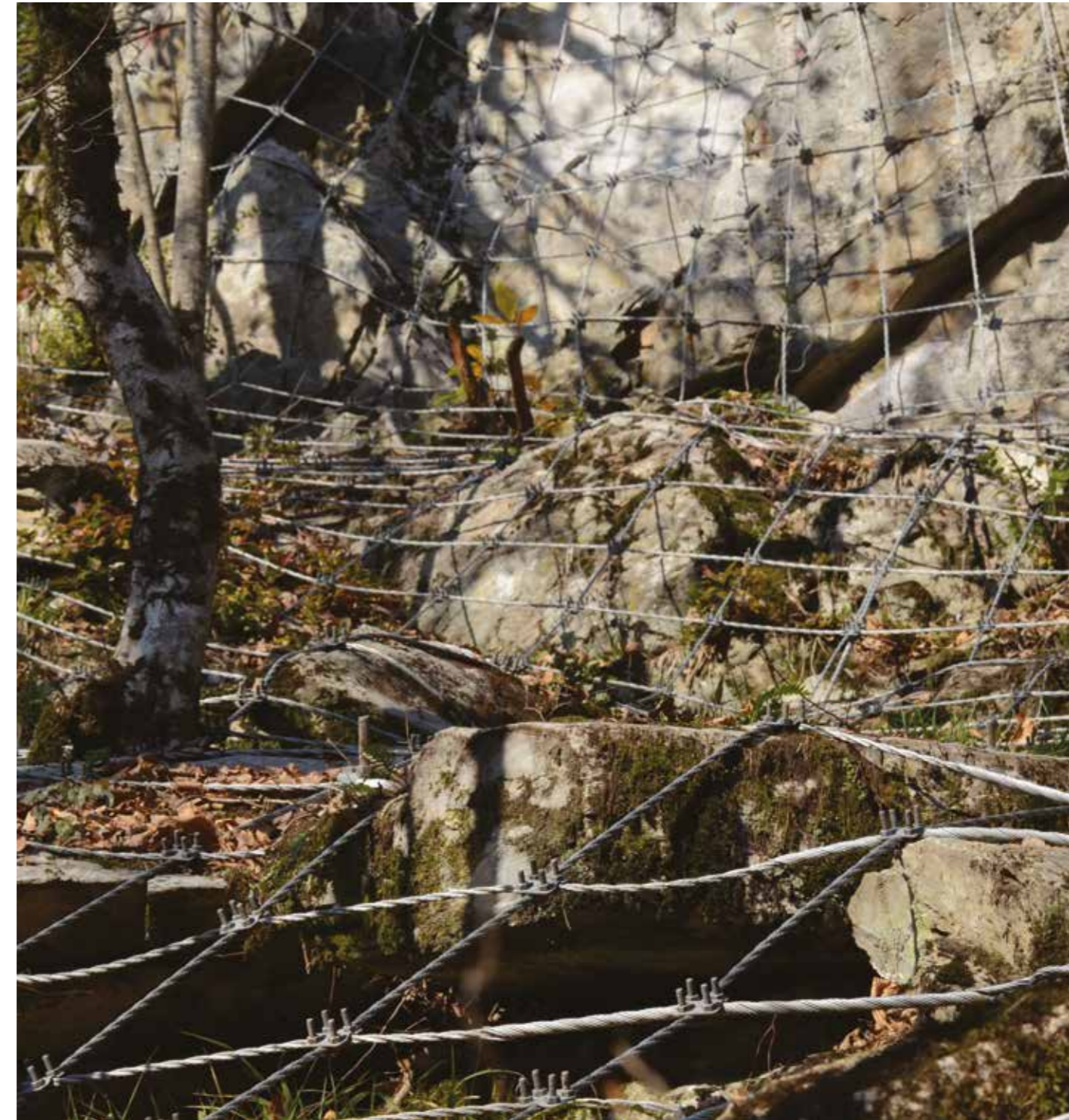
**Minimum removal of trees required during installation works**

The net is made of separate ropes that go around the trees, making the removal of trees unnecessary.

**Use together with steel mesh**

In areas where the soil and stones fall through the net with 50cm x 50cm openings, RopeNet can be used along with a mesh holding smaller stones.

**Examples of completed projects using ROPENET**



**ROPENET** that helps eliminated the rockfall, also protects enviroment. If you use **ROPENET** with a net or other systems that prevent rockfalls not only relatively large rocks, but also of small stones.

## Examples of completed projects using ROPENET



In the process of assembling **ROPENET** direction and intervals between wire ropes that form the net are defined according to the tree location. Thereby tree removal is not required.

**ROPENET** system firmly holds large non-attached stones, in areas with the small and large stones. Gallets of large stones, a net attached to the **ROPENET** can be used.



Examples of completed projects using ROPENET



Examples of completed projects using ROPENET



**Cement anchor**

The main component of the system that prevents the rockfalls is an anchor. The cement capsule, used for its installation, is manufactured under strict quality control. Thereby cement anchor will be securely attached.



**ROPENET type**

Type	Main rope			Strengthened rope			Cement anchor
	Construction diameter	Vertical interval	Horizontal interval	Construction diameter	Vertical interval	Horizontal interval	
2x2 — 0,5x12 (standart type)	12 mm	2 m	2 m	12 mm	0,5 m	0,5 m	Type A, B D22 (M20)x1000 D22 (M20)x1500

Notice: A type anchors are set at the net boundary  
B type anchors are set inside the net

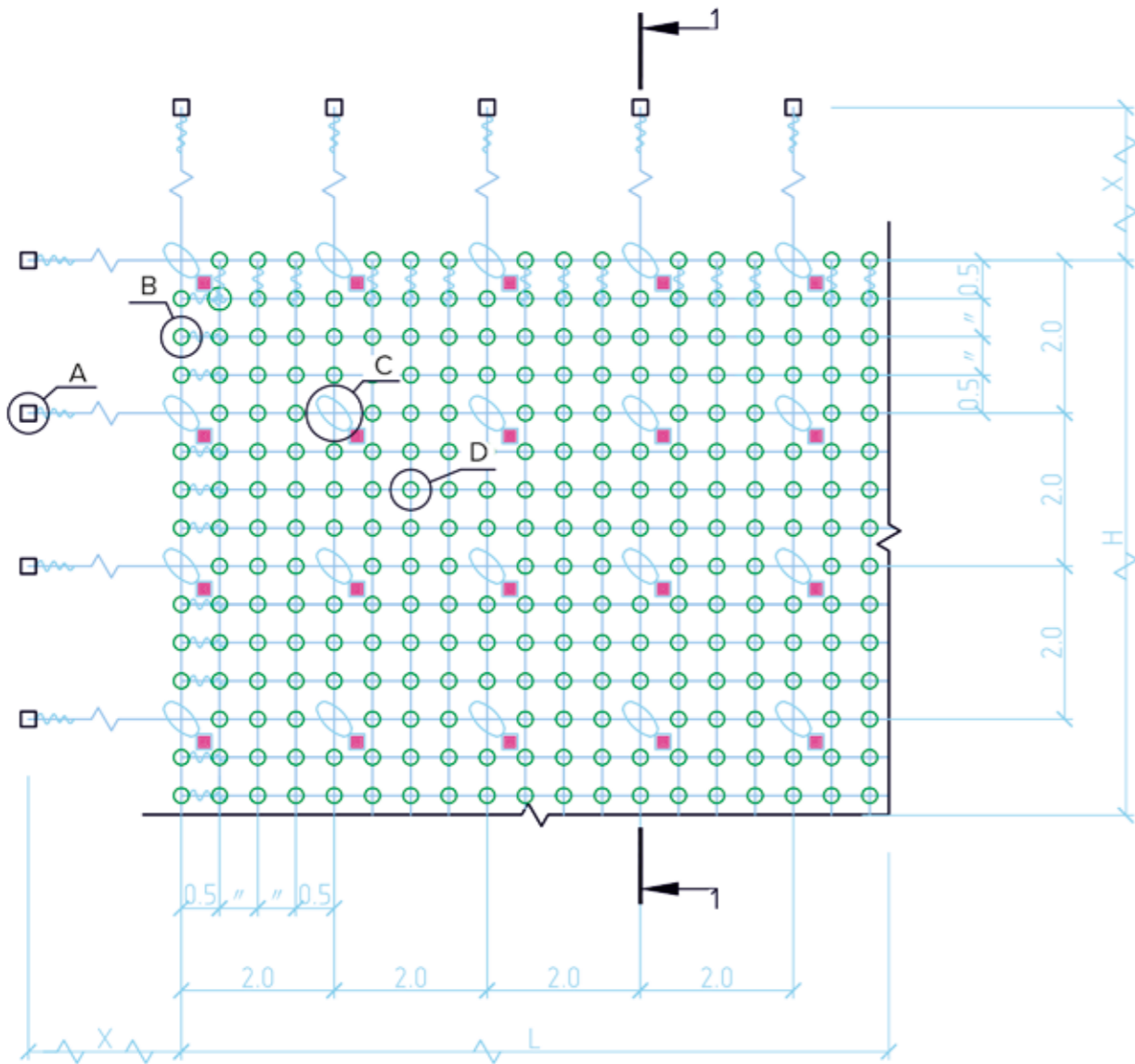
**Construction components**

Type	Ropegrip	Cross-shaped anchor grip	Cross clip
2x2 — 0,5x12 (standart type)	Ø12 - 800	50x95	3tx60x60

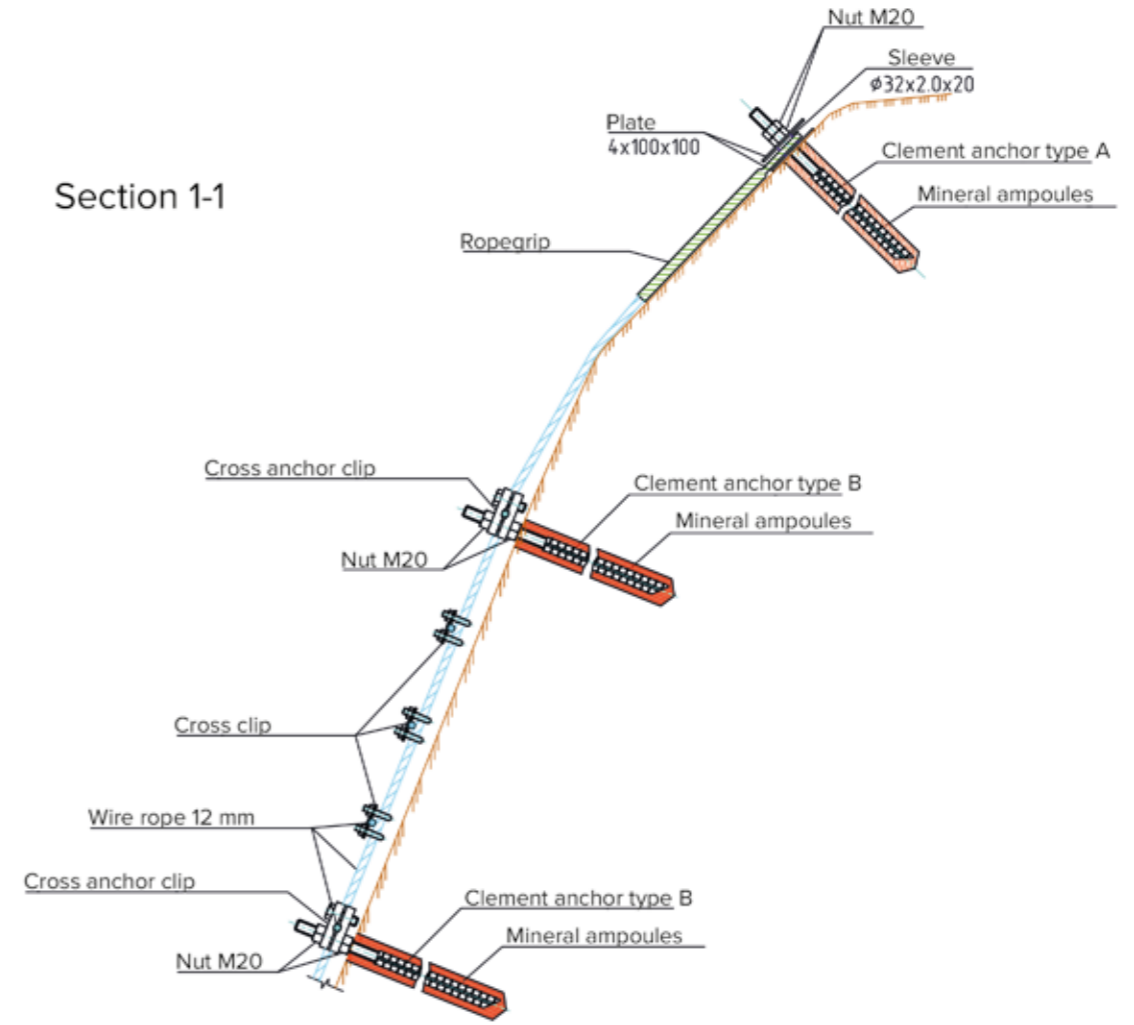
**Anchor installation**

Type	Installation procedure	Equipments
Cement anchor type A, B	With the help of drilling equipment, drilling holes for anchors of the required length, with a diameter of 27-43 mm. Previously plunge a cement capsule into water according to the instruction. Place the cement capsule into a hole. Mixing of the cement capsule is done by feeding the anchor with rotation to the bottom of the hole. After mixing, lock the anchor in the starting position.	Compressor Bit Rock-drill

ROPENET construction

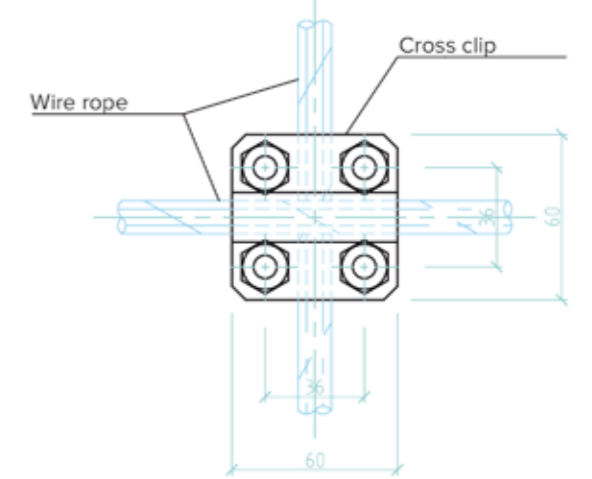
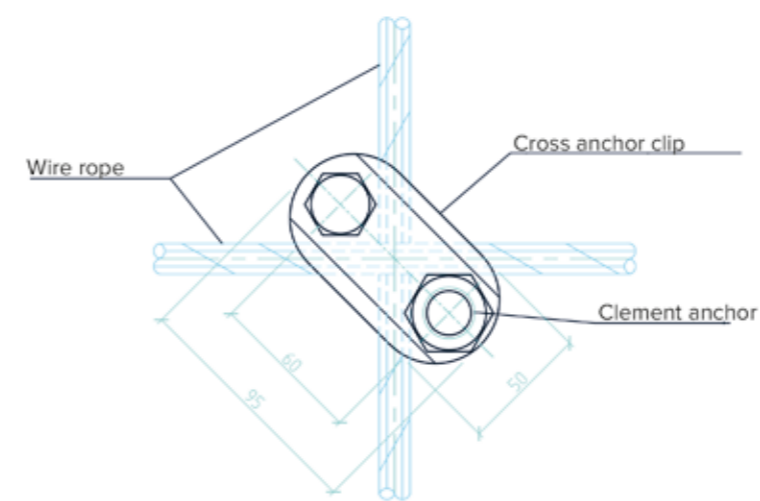


Section 1-1



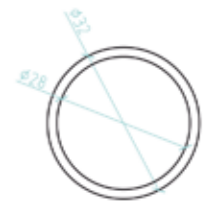
Element C

Element D



Sleeve  $\phi 32 \times 2.0 \times 20$

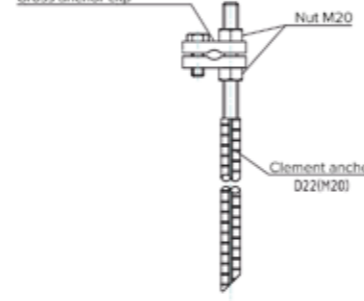
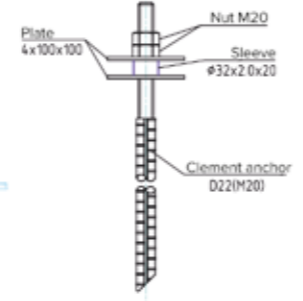
Rope grip



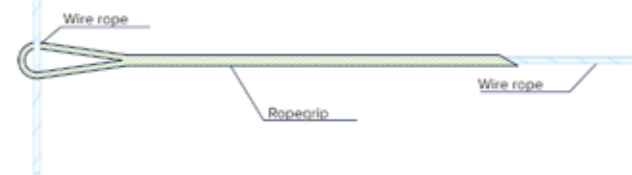
Element A

Clement anchor type A

Clement anchor type B



Element B



## **TR Engineering**

**Strelna, ul. Svyazi, d. 34 A  
St. Petersburg, Russia, 198515**

**Phone: +7(812) 331-53-36    [tre.spb.ru](http://tre.spb.ru)  
Fax:    +7(812) 493-38-55    [info@tre.spb.ru](mailto:info@tre.spb.ru)**