ROCKFALL PROTECTION

Geobarrier
Nature under lock

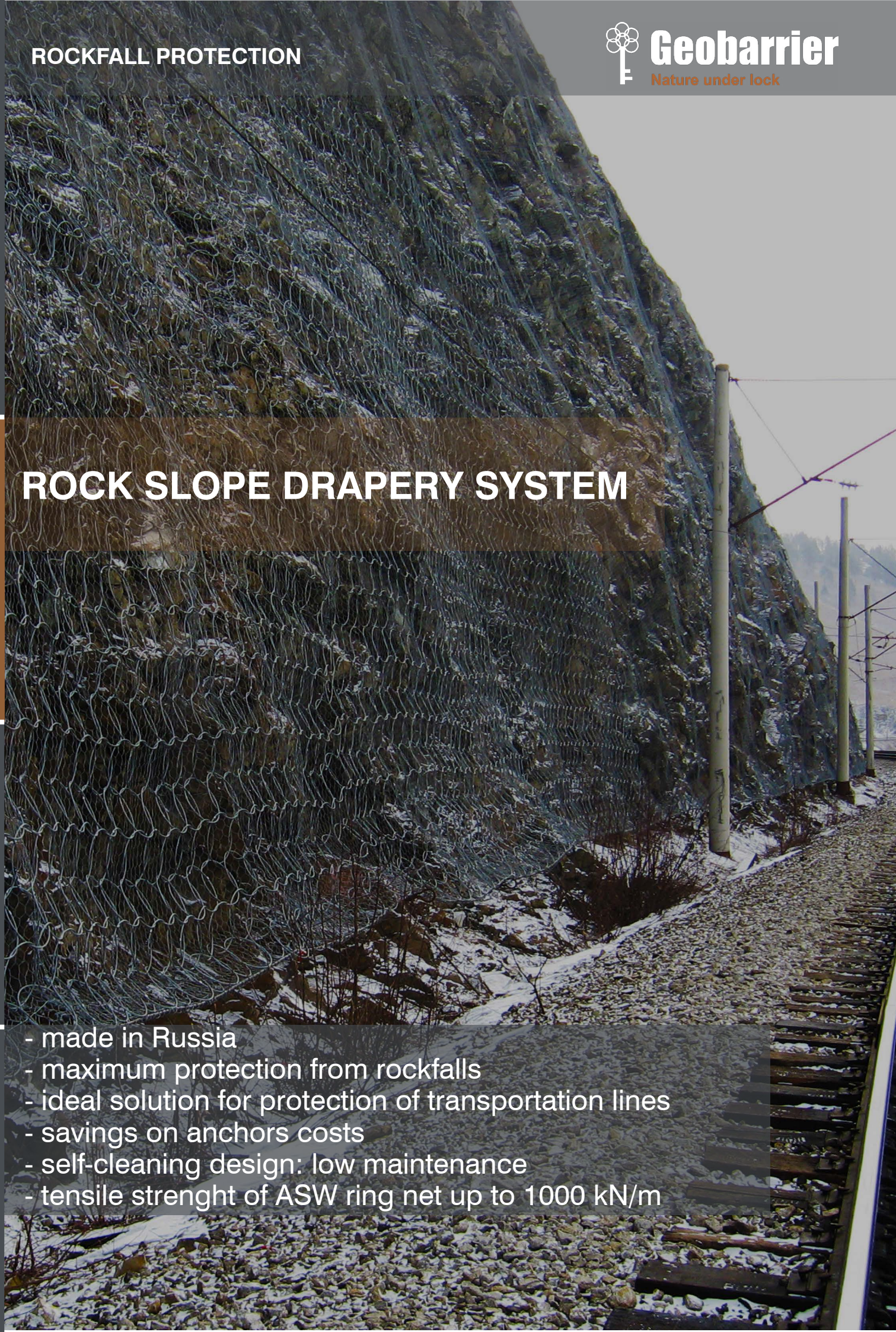
CONSTRUCTION SUPPORT

PRODUCTION

DESIGN SUPPORT

EFFECTIVE SOLUTIONS

ROCK SLOPE DRAPERY SYSTEM



- made in Russia
- maximum protection from rockfalls
- ideal solution for protection of transportation lines
- savings on anchors costs
- self-cleaning design: low maintenance
- tensile strenght of ASW ring net up to 1000 kN/m

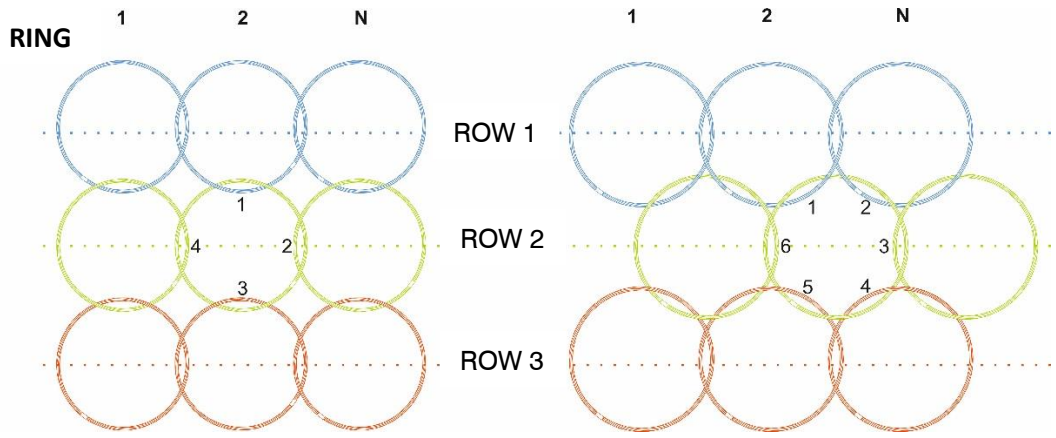
RING NET PANELS

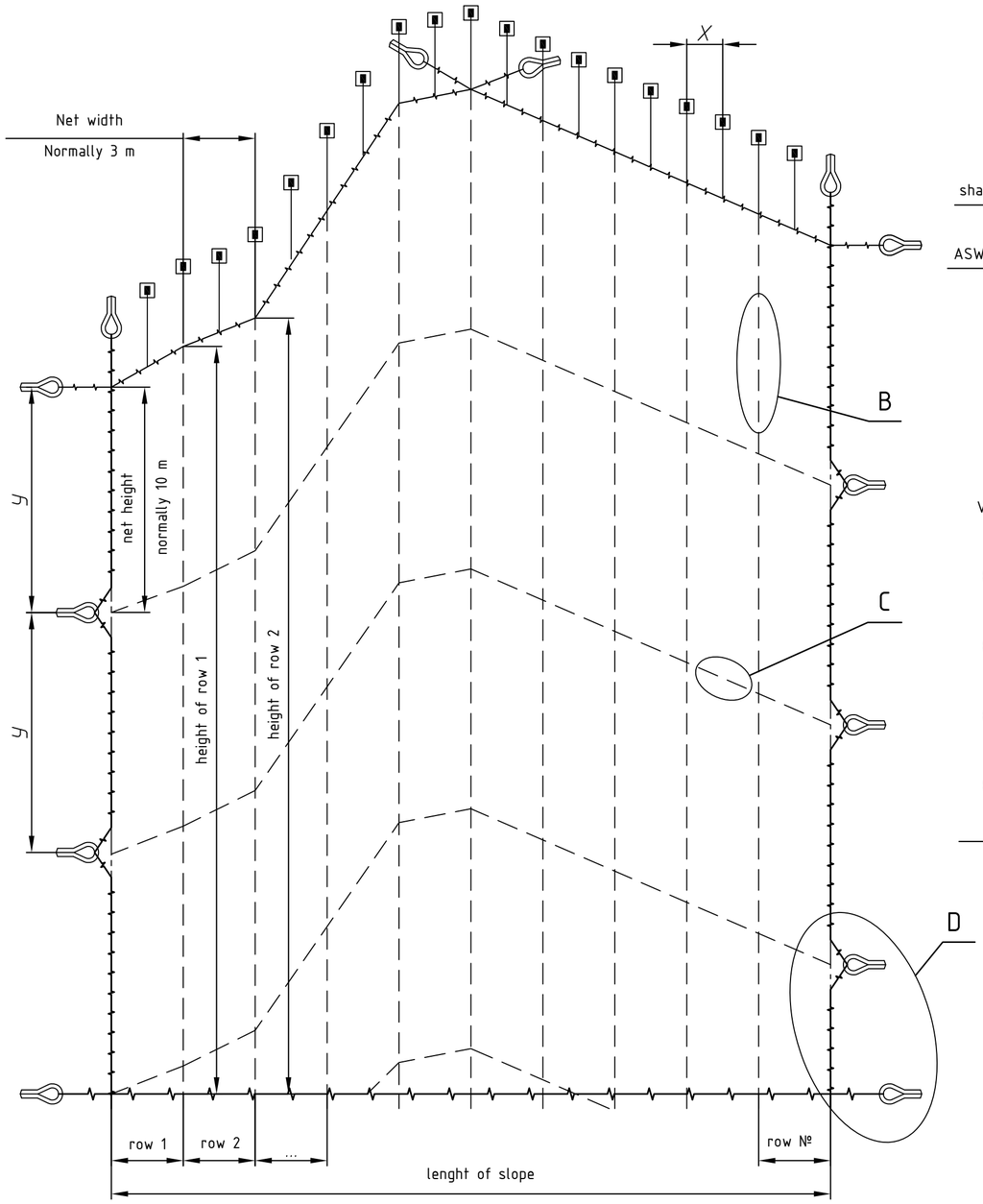
Ring net	Inner ring diameter, [mm]	Type of ring binding, number of wire loops	Type of net binding, number of contacts	Wire diameter, [mm]	Zn coating, [g/m^2]	Tensile strength of wire [N/mm^2]	Height of net, [m]	Standard length of net, [m]	Calculated weight of 1 m^2 , [kg]	Tensile strength of one ring, [kN]	Tensile strength of net, [kN/m]
2,5.35.7/4	350	7	4	2,5	230	≥1380	on request	≤ 10 m	2,6	**75**	**150**
3.35.7/4	350	7	4	3	245				3,7	**100**	**210**
2,5.35.7/6	350	7	6	2,5	230				3,1	**75**	**215**
2,5.25.7/4	250	7	4	2,5	230				4,0	**75**	**215**
3.42.7/6	420	7	6	3	245				3,6	**100**	**270**
3.35.7/6	350	7	6	3	245				4,4	**100**	**300**
2,5.25.7/6	250	7	6	2,5	230				4,6	**75**	**300**
4.35.7/4	350	7	4	4	275				7,0	**190**	**370**
3.25.7/6	250	7	6	3	245				6,7	**100**	**415**
4.35.7/6	350	7	6	4	275				8,3	**190**	**525**
3.42.19/4	420	19	4	3	245				9,0	**340**	**585**
3.42.19/6	420	19	6	3	245				11,0	**340**	**860**
4.42.19/4	420	19	4	4	275				16,0	**600**	**1050**
4.42.19/6	420	19	6	4	275				19,6	**600**	**1525**

By request can be manufactured:
1) ring nets with higher tensile strength (increase in 1,5 times) from wires GOST 7372-79 with tensile strength ≥1770 N/mm^2.
2) ring nets from stainless steel wires, including austenitic-ferritic duplex stainless steel for use in seawater.
3) ring net panels with not standard sizes, for example one-piece trapezoidal panel for mud flow barriers.

TYPES OF RING NETS:

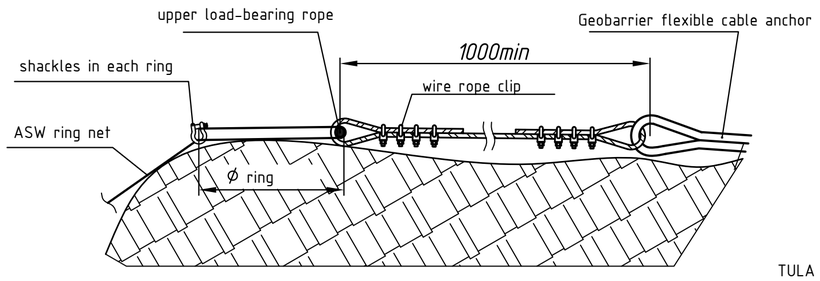
4 – CONTACTS BETWEEN RINGS **6-CONTACTS BETWEEN RINGS**





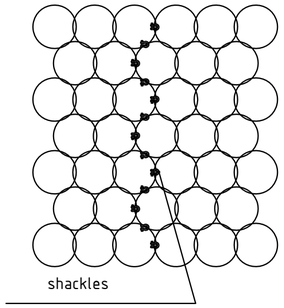
A

Net fixation at the top of the slope



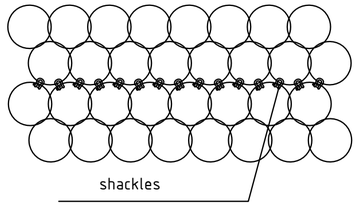
B

Vertical connection of ASW ring net



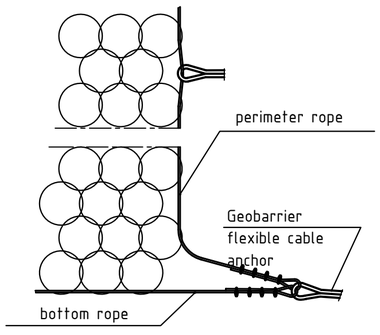
C

Horizontal connection of ASW ring net

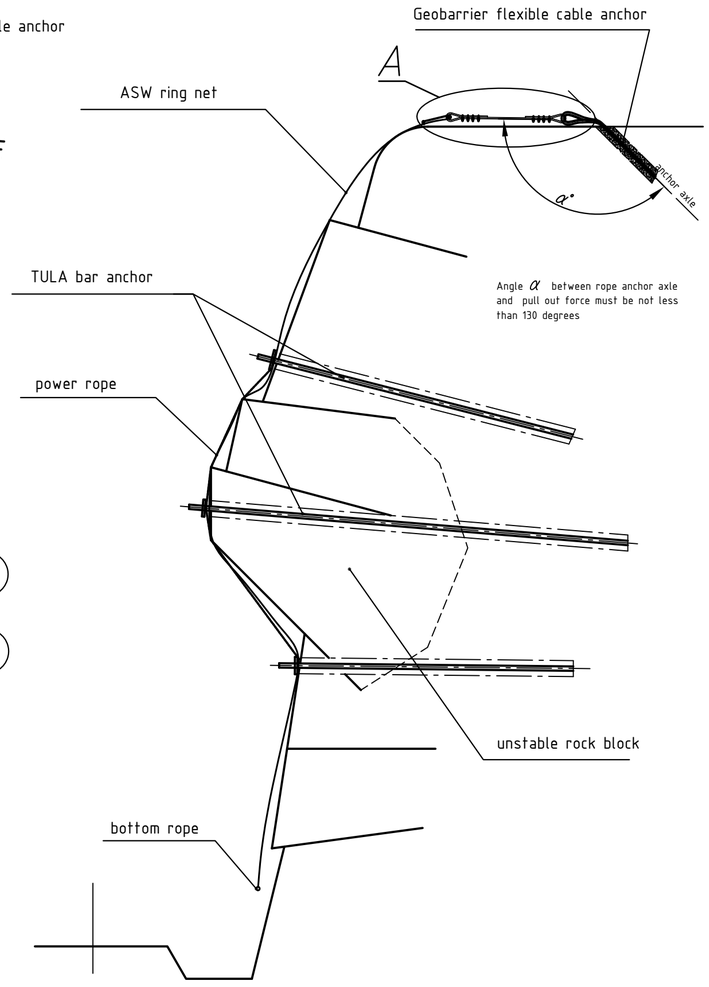


D

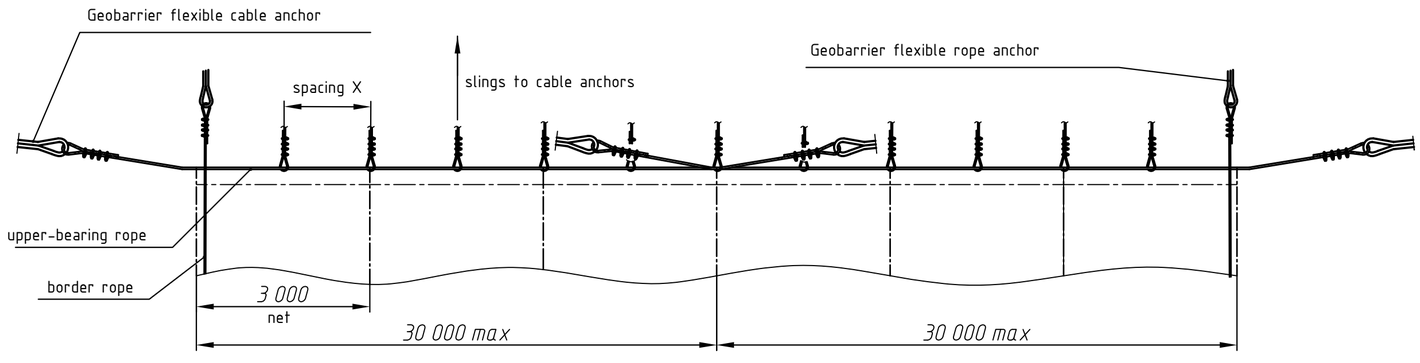
Fixation of net with perimeter ropes to rope anchors



Slope cross-section



Laying of upper-bearing rope at top of the slope



1. X and Y depends from type of ASW ring net and geological conditions
2. Installation is carried from top to bottom
3. Perimeter ropes go along perimeter of slope
4. Upper-bearing rope laying in one row overlapping of ASW rings. One section of upper-bearing rope fixed to two rope anchors. Lenght of one section of upper-bearing rope <30 m
5. Secondary double-twisted mesh option for little rocks

					Rock slope drapery system ASW		
Изм.	Лист	№ докум.	Подп.	Дата			
Разраб.					Covering protection method	Лит.	Лист 1 / Листов 2
Пров.							
Н.контр.						LLC "Geo-barrier"	
Утв.							

MAXIMUM PROTECTION FROM ROCKFALLS

SET UP YOUR SLOPE!

Rock slope drapery system is the most simple and effective solution for rockfall protection. The main function of the drape is to control trajectory of falling rock blocks by limiting space between slope and net surfaces. Consequently, the velocity of fall and kinetic energy of rock impact are reduced. Drapery system requires a flat accumulation zone for debris rocks at bottom of the slope.

SPECIAL FEATURES

- Can be applied on steep slopes with all types of rocky soils.
- Cost-savings on anchors: requires a minimum number of rope anchors for fixing an upper load-bearing rope.
- Easy and fast installation: doesn't require preliminary cleaning of slope from moving rocks or highways blocking.
- Minimum maintenance.
- Telling economy: 8 different types of ASW ring net allows to design economically most effective configuration of rockfall protection drape for your rock slope.
- Risk management: possibility to calculate additional loads and external factors in design.
- The unique durable and flexible rope Geobarrier anchors with special centralizers may be immersed into the borehole in one go, without the risk of jamming.
- Easy adaptation of construction to dissected slope topography.

LLC Geo-barrier, 140144, Russia, Moscow region., Ramenskoye district, Ryleevo settlement,
Tel.: +7 (495) 652 84 71 ■ Fax.: +7 (495) 652 84 73 ■ info@geobarrier.ru ■ www.geobarrier.ru