PPS-050

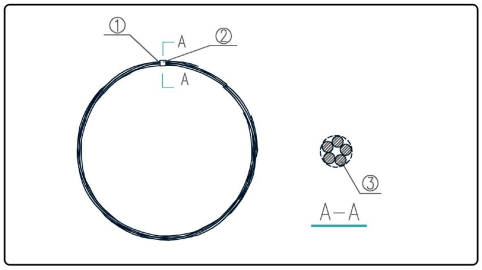
Application Area

PPS-050 is a rockfall interception system composed of flexible metal mesh, support ropes, energy dissipation rings, and a fixed system (such as steel posts, anchor rods, tension ropes, etc.).
Generally installed in the buffer zone below steep slopes, it can intercept falling rocks and debris, keeping them outside the protected area, thus ensuring the protection of pedestrians, vehicles, and structures. It can also be used for the prevention and control of natural disasters such as debris flows and avalanches by intercepting solid materials like rocks, snow blocks, and tree branches, thereby reducing the threat to downstream protected objects.
The PPS-050 rockfall interception system can be used to intercept falling rocks with energy up to 500 kJ.

PPS-050

Maximum Test Energy Level	500	kJ
Service Energy Level	170	kJ
Maximum Elongation	6.0	m
Approval Height	3/4/5/6	m
Verification	Full Scale Tested	
Certification	TB/T 3449-2016	

Spiral Ring Net RN/5/3/300

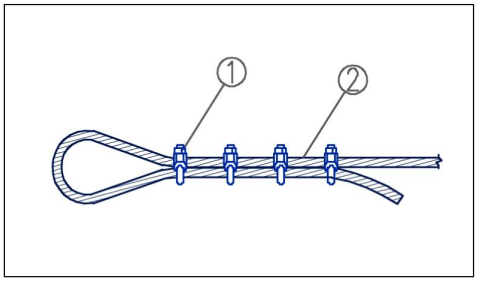


1. Shackle	2. Reserved wire length for buffering ≥ 10cm	3.Steel wire Φ3mm

Primary Net: Ring Net

Type	RN/5/3/300 Ring Net	
Wire Diameter	3 ± 0.05	mm
Number of Wire Coil	5	Coil
Ring Net Tensile Strength	⩾75	kN/m
Ring Net Bursting Resistance	⩾300	kN
Corrosion Protection	zinc -5% aluminum mixed rare earth alloy	
*The negative error of the mesh size ⩽50mm, and positive error ⩽300mm; mesh size ⩽300mm.		

Illustration of Wire Rope Fixation

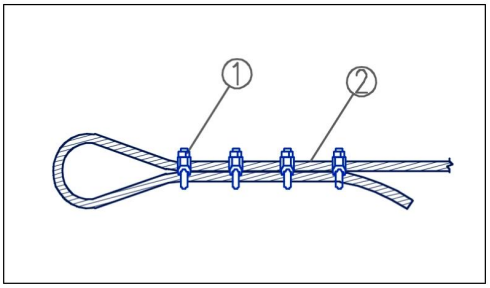


1. Rope cappel	2. Steel wire

Secondary Net: Hexagonal Net

Wire Diameter	2 ± 0.05	mm
Mesh Size	50x60	mm
Tensile Strength	⩾8	kN/m
Bursting Resistance	⩾20	kN
Corrosion Protection	zinc -5% aluminum mixed rare earth alloy	
*The mesh size error should comply with YB/T 4190, and the mesh size positive error ⩽14%.		

Illustration of Wire Rope Fixation

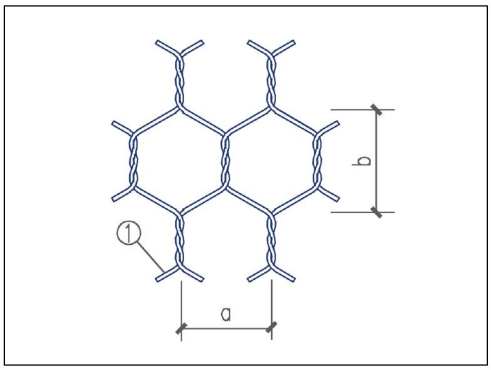


1. Rope cappel	2. Steel wire

Support Structure

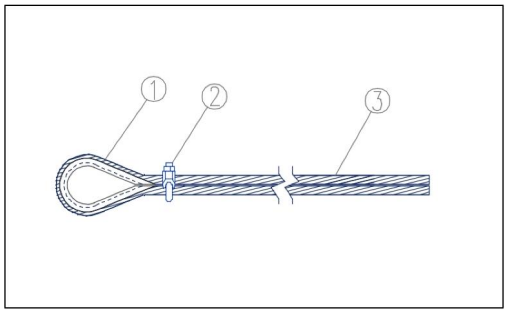
Energy Dissipation Ring		GS-8001/GS-8002				mm
Base Plate		450*280				mm
Base Plate Anchor		D25*1000-M24*100				Anti-rust paint
Lateral Anchorage		2Φ16				Zn (Class AB)
Post	*Height*	3	4	5	6	m
	Type	HW125	HW125	HW150	HW150	
Upper Retaining Rope		Φ18				mm
Middle Rope		Φ16				mm
Auxiliary Wire Rope		Φ16				mm
Lateral Fixation Rope		Φ16				mm
Upper Support Rope		2Φ16				mm
Lower Support Rope		2Φ16				mm
Lateral Retaining Rope		Φ18				mm
Shackle		1.5/3.25/6.5				Ton

Hexagonal Net DT/2.0/50×60



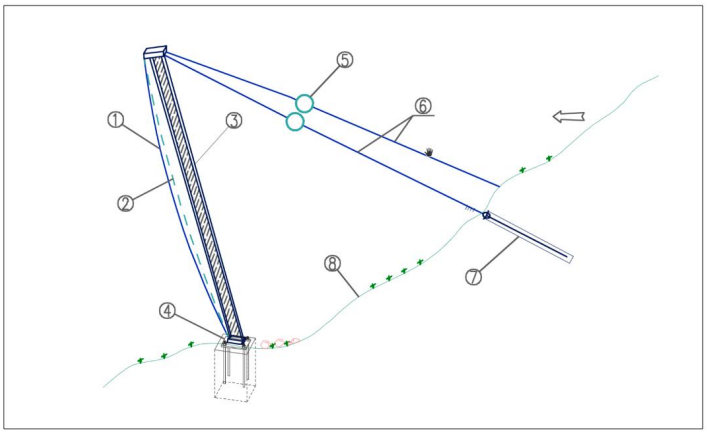
1.Steel WireΦ2.0mm	a. 50mm	b. 60mm

Wire Rope Anchor



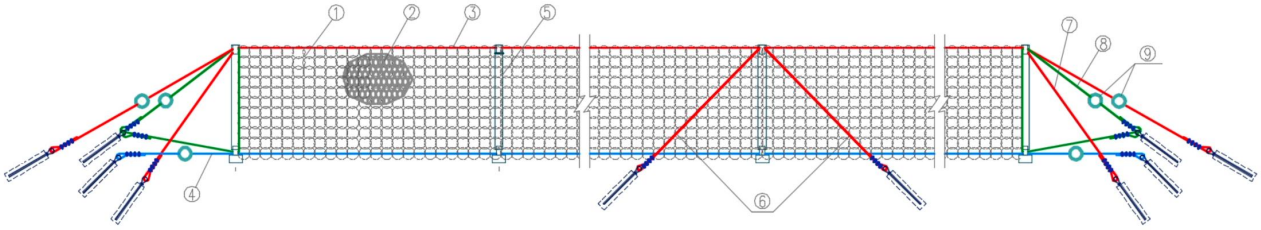
1.Capel	2.Shackle	3.Steel wire

Typical Recommended Layout



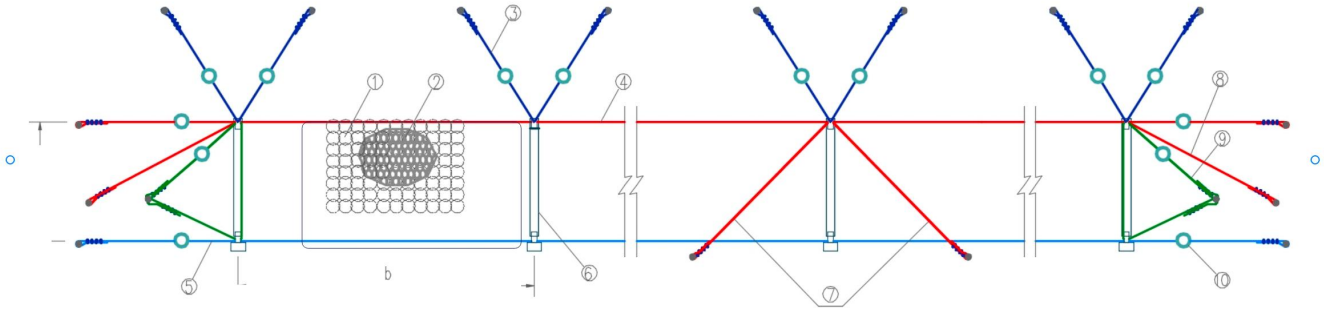
1. Resistance Primary Net
2. Hexagonal Net
3. Post
4. Foundation
5. Energy Dissipation Ring
6. Steel Rope
7. Steel Anchor Rod
8. Slope

Typical Recommended Layout



1. Primary Net	2. Secondary Net	3. Upper Support Rope	4. Lower Support Rope	5. Post	6. Middle Rope	7. Lateral Retaining Rope	8. Lateral Fixation Rope	9. Energy Dissipation Ring

Typical Recommended Layout （Vertical View）



1. Primary Net	2. Secondary Net	3. Upper Retaining Rope	4. Upper Support Rope	5. Lower Support Rope
6. Post	7. Middle Rope	8. Lateral Fixation Rope	9. Lateral Fixation Rope	10. Energy Dissipation Ring

*Actual anchorage, material utilization amount and layout to be determined by a qualified engineer in accordance with local regulations.

Typical Project

More Projects

Collapse control project.
Shigatse.

Rockfall control project.
Beijing-HongKong-Macao expressway.

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