

## HEA PANEL HIGH ENERGY ABSORPTION ROCKFALL PROTECTION

**HEA Panel (High Energy Absorption)** combines high strength features of the wire rope with the steel knot.

The knot is made by two bindings, each one obtained by looping a pair of steel 3.00 mm wires coated with a Zinc-Aluminium-5% mischmetal alloy. The two bindings tightly envelop the ropes crossing each other.

The panel is made of square meshes manufactured with one rope, closed by an aluminium pressed spinning cot, with resistance not less than 90% of the rope breaking load.

### Standard panel dimensions

Nominal mesh size (mm)	<b>250x250 300x300 400x400</b>
Panel height - H - (m) *	<b>Up to 5</b>
Panel length - L - (m) *	<b>Up to 10</b>

\* External panel size is nominal (tolerance  $\pm 5\%$ )

### Knot - Blinding bars

Envelop of two pairs of wires	
Steel coated with Galvan	<b>EN 10244, Classe A</b>
Diameter (mm)	<b><math>\varnothing = 3</math> (UNI EN 10218)</b>
Breaking load of the wire used for the bars (N / mm <sup>2</sup> )	<b>380 - 500</b>

### Knot - Tear resistance

Maximum breaking load (kN)	<b>24.4</b>
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### Steel ropes

Wrapping Rope		
Rope type (UNI EN 12385-4; ISO 2048)	Diameter $\varnothing$ (mm)	
	<b>8</b>	<b>10 - 12</b>
	6x7+ WC	6x19+ WC
Zinc coating (UNI EN 10264-2)	Class B; Class A	
Rope grade	1770 N/mm <sup>2</sup>	
Perimetral Rope (optional)		
Diameter $\varnothing$ (mm)	10 - 12- 14 - 16	
Rope type (UNI EN 12385-4; ISO 2408)	6x19+WC	
Zinc coating (UNI EN 10264-2)	Class B; Class A	
Rope grade	1770 N/mm <sup>2</sup>	

Maccaferri reserves the right to amend product specifications without notice and specifiers are requested to check as to the validity of the specifications they are using.

### Officine Maccaferri S.p.A.

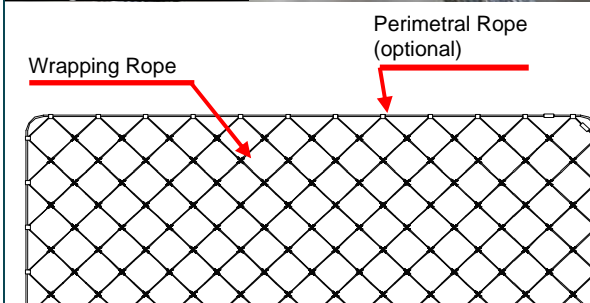
Via Agresti, 6 - P.O. BOX 396 - 40123 Bologna (Italy)  
Tel. (+39) 051-6436000 - Fax (+39) 051-236507  
E-mail: comes@maccaferri.com - Web site: www.maccaferri.com



HEA PANEL application



Lacing node detail



Example of HEA PANEL structure

### QUANTITY REQUEST

When a quotation is required, please specify:

- Panel size (height x length in m)
- Mesh size (in mm)
- Wrapping rope diameter (in mm)
- Edge rope diameter, if any (in mm)
- Zinc coating on the ropes (Class A or B)

Example 1:

N. 30 HEA Panels, 6x3m, 300x300mm, wrapping rope 8mm, edge rope 12mm, Class B zinc coating

Example 2:

N. 60 HEA Panels 5x4m, 400x400mm, wrapping rope 10mm, no edge rope, Class A zinc coating.