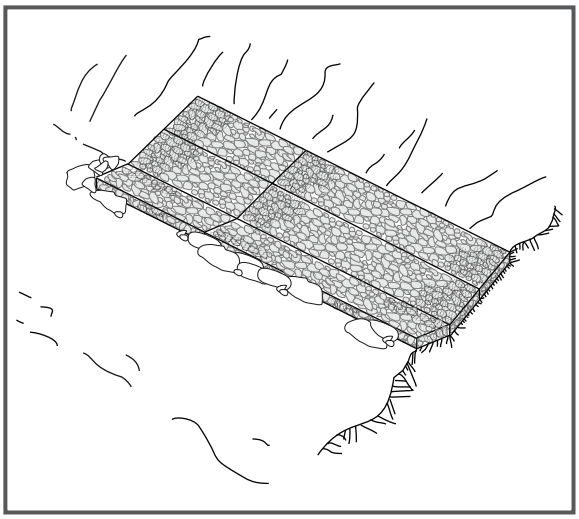
Bank erosion control system

Revet Mattress - Data Sheet



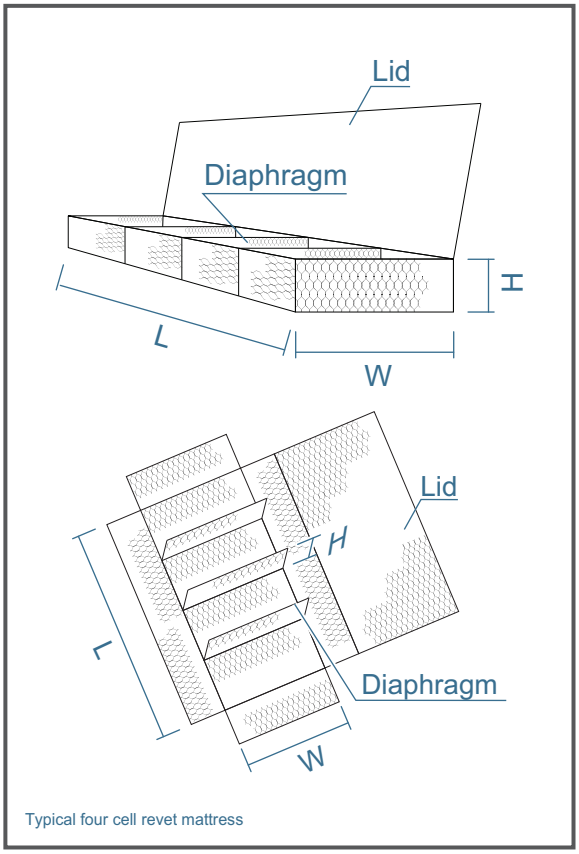
Area of Application:
TRUMER revet mattress boxes were developed for river embankment protections to stabilize the banks of the river and prevent erosion. For water management purpose, these mattresses are often used for scour protection in order to prevent bed and side erosion processes. In areas affected by natural disasters they are also used to channel river sections.

Material:
TRUMER mesh mattresses consist of galvanized or galvanized with PVC coated double twisted hexagonal woven mesh wire. All TRUMER mattress products are manufactured in accordance with the European Technical Approval.

Installation:
Different sizes of TRUMER revet mattresses consist of single boxes with diaphragms and one lid. Alternatively rolls of mesh can be used to complete the mattress. Seams are made using either lacing wire or high-tensile steel ring fasteners.

Advantages:
Under most conditions, the revet mattresses can be easily and quickly installed, thereby considerably reducing costs. Furthermore, corrosion protection is assured by a high-quality of metallic or PVC coating that increases the life and durability of the gabions.

Revet Mattress Dimensions



Typical four cell revet mattress

Trumer Schutzbauten Canada Ltd. • 720 - 999 West Broadway • Vancouver, BC • Canada V5Z 1K5
Toll Free.: 1(855)732-0325 • Local: (604)732-0325 • www.trumer.cc

Mesh Characteristic *mm (in.)*

Coating Type

	Zn/Zn-Al Coated		Zn-Al + PVC Coated	
Mesh Type	8x10 [+/- 10 %]		8x10 [+/- 10 %]	
Nominal Mesh Size *D*	80 (3.15) [+/- 10 %]		80 (3.15) [+/- 10 %]	
Mesh Wire Diameter	2.2 (0.087)	2.7 (0.106)	2.2 (0.087)	2.7 (0.106)
Selvedge Wire Diameter	2.7 (0.106)	3.4 (0.134)	2.7 (0.106)	3.4 (0.134)
Lacing Wire Diameter	2.2 (0.087)		2.2 (0.087)	
PVC Thickness	N/A		0.5 (0.02)	
Ring Diameter	3.0 (0.118)		3.0 (0.118)	

Wire Properties

Wire Diameter *mm (in.)*

	2.2 (0.087)	2.7 (0.106)	3.4 (0.134)
Tensile Strength* *N/mm² (ksi)*	350 to 550 (50.7 to 79.8)		
Elongation* *%*	> 10		
min. Mass of Coating** *g/m² (oz/ft²)*	230 (0.75)	245 (0.80)	265 (0.87)
Tolerance*** *mm (in.)*	[+/-]0.06 (0.0024)		[+/-]0.07 (0.0028)
Tolerance PVC*** Thickness *mm (in.)*	[+/-]0.1 (0.0039)		

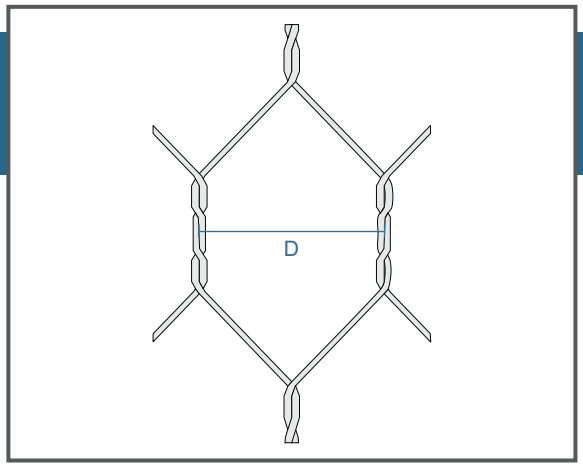
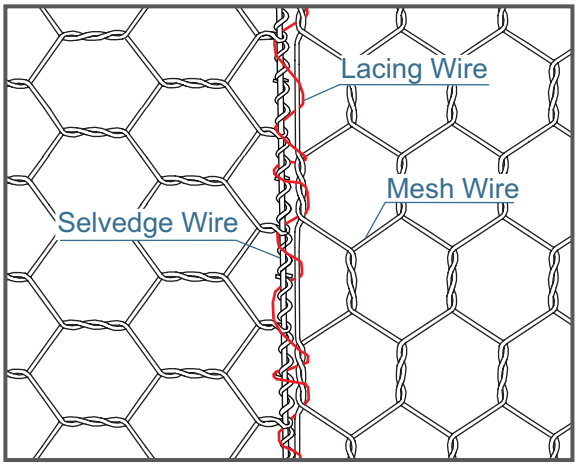
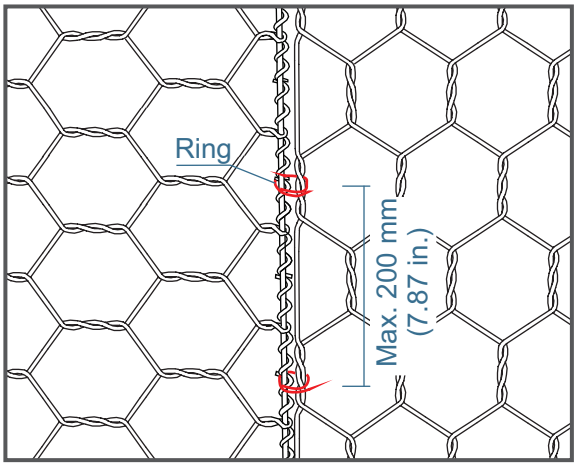
* in accordance with European Standard EN 10223-3
** in accordance with European Standard EN 10244-2, class A
*** in accordance with European Standard EN 10218-2

Mattress Sizing Options

Width *m (ft)*	Height *m (ft)*	Length *m (ft)*	Cells	Mesh Wire Dia. Zn/Zn-Al Coated *mm (in.)*	Mesh Wire Dia. Zn-Al + PVC Coated *mm (in.)*
2.0 (6.6)	0.17 (0.58)	3.0 (9.8)	3	2.2; 2.7 (0.087; 0.106)	3.2; 3.7 (0.126; 0.146)
2.0 (6.6)	0.23 (0.75)	4.0 (13.1)	4		
2.0 (6.6)	0.30 (0.98)	5.0 (16.4)	5		
2.0 (6.6)	0.50 (0.16)	6.0 (19.7)	6		

Other dimensions are possible in accordance with project specific design requirements
* for every meter (3.28 ft) length one diaphragm

Mesh Dimension



Seam Connection