

# Constructions of hexagonal netting

TU<sup>1)</sup> 14-178-350-98

## Application area:

Constructions of hexagonal netting are suitable for bank-, slope- and ditch consolidation, ground reinforcing, and other construction works.

Constructions of hexagonal netting are classified by mesh shape and mesh number:

- box-like structures of hexagonal netting (B);
- box-like structures of hexagonal netting with internal partitions (BP);
- multicellular structures of hexagonal netting with internal partitions (MP);
- box-like structures of hexagonal netting with cores and a reinforcing board (RP).

## Clarification of naming structure:

Box-like structures of hexagonal netting of the following dimensions – length 2 m, width 1 m, height 0,5 m made from zinc-coated wire of the 1<sup>st</sup> class of coating of a diameter of 2.7 mm:

**Structure B–2×1×0.5–2.7–01**

**TU 14-178-350-98.**

Box-like structures of hexagonal netting of the following dimensions – length 2 m, width 1 m, height 0.5 m made from zinc-coated wire of the 1<sup>st</sup> class of coating of a diameter of 2.7 mm, with a polymeric coating:

**Structure B–2×1×0.5v–2.7/3.7–01P**

**TU 14-178-350-98.**

Box-like structures of hexagonal netting with two internal partitions of the following dimensions – length 3 m, width 1 m, height 0.5 m, made from zinc-coated wire of the 1<sup>st</sup> class of coating of a diameter of 2.7 mm, with a polymeric coating:

**Structure BP2–3×1×0.5–2.7/3.7–01P**

**TU 14-178-350-98.**

Multicellular structures of hexagonal netting with 4 internal partitions of the following dimensions – length 5 m, width 2 m, height 1 m, made from zinc-coated wire of the 3<sup>rd</sup> class of coating of a diameter of 3.0 mm:

**Structure MP4–5×2×1–3.0–03**

**TU 14-178-350-98.**



Box-like structures of hexagonal netting with internal partition and a reinforcing board of the following dimensions – length 2 m, width 1 m, height 1 m, the length of reinforcing board – 6 m, made from zinc-coated wire of the 2<sup>nd</sup> class of coating of a diameter of 3.0 mm, with a polymeric coating.

**Structure RP1 - 6×2×1×1 – 3.0/4.0 – 02P**

**TU 14-178-350-98.**

Constructions of hexagonal netting are made of hexagonal netting with a mesh dimension of 8×10 to TU 14-178-351-98. Coating type is specified in the order.

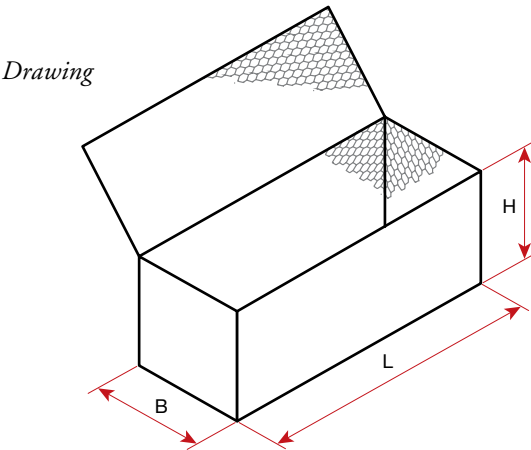
To form a construction, the netting is bent. End walls and partitions are sewn to the netting with a load binder.

Netting edges not fixed with a binder are fixed with a shank of a diameter equal to the binder diameter.

The whole construction is packed up. When packing up a construction, the end walls and partitions fastened to the base are put on the bottom, the sidewalls and the cover are consequently bent to the angle of 180° until the necessary size is achieved.

Constructions packed this way form a package of a weight not exceeding 1500 kg.

Tolerance on construction dimensions is ±5 %.

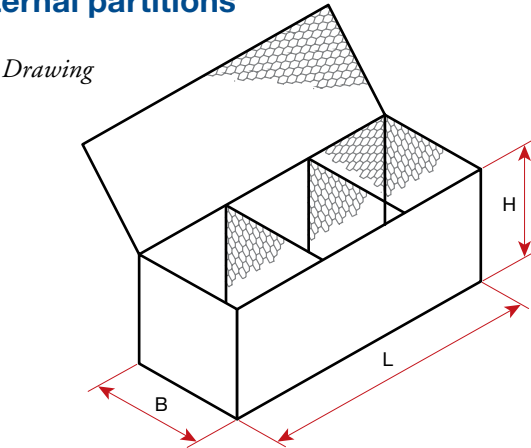


Dimensions, m			Weight of structure*, kg, made from					
Length L	Breac <sup>th</sup> B	Height H	Zinc-coated wire				Polymer-coated wire	
			(netting wire diameter) / load binder diameter, mm					
			(2.7) / 2.2	(2.8) / 2.2	(3.0) / 2.4	(3.0) / 2.5	(2.7/3.7) / 2.4	(2.7/3.7) / 2.5
1	1	0.5	6.9	7.3	8.0	8.8	8.4	9.2
1.5	1	0.5	9.6	10.2	11.0	12.1	11.6	12.8
1	1	1	10.4	11.0	12.0	13.2	12.6	13.9
2	1	0.5	13.5	14.3	16.0	17.6	16.5	18.1
3	1	0.5	18.5	19.6	21.7	23.9	22.6	24.9
1.5	1	1	15.1	16.0	17.3	19.0	18.4	20.2
2	1	1	18.5	19.6	21.4	23.5	22.6	24.9
4	1	0.5	23.8	25.2	27.5	30.2	29.2	32.1
3	1	1	25.1	26.6	29.0	31.9	30.9	34.0
4	1	1	31.8	33.7	36.2	39.8	39.2	43.1

\*) Reference value.

Basic dimensions of a box-like structure of hexagonal netting with internal partitions

Table 6.



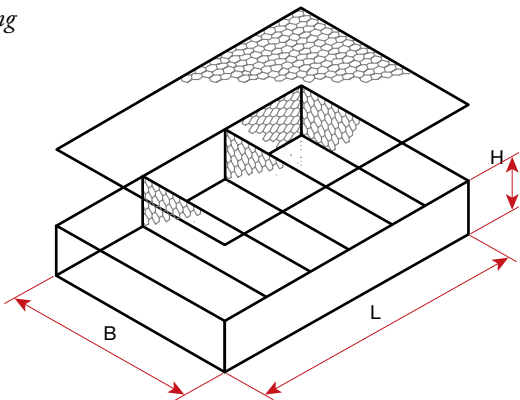
Dimensions, m			Number of internal partitions, pieces	Weight of structure*, kg, made from					
Length L	Breadth B	Height H		Zinc-coated wire				Polymer-coated wire	
				(netting wire diameter) / load binder diameter, mm					
				(2.7) / 2.2	(2.8) / 2.2	(3.0) / 2.4	(3.0) / 2.5	(2.7/3.7) / 2.4	(2.7/3.7) / 2.5
2	1	0.5	1	14.5	15.4	17.1	18.8	17.1	18.8
3	1	0.5	2	20.4	21.6	23.8	26.2	24.7	27.2
2	1	1	1	20.4	21.6	23.2	25.5	23.6	26.0
4	1	0.5	3	26.5	28.1	30.4	33.4	30.6	33.7
3	1	1	2	28.6	30.3	33.1	36.4	33.6	37.0
4	1	1	3	35.3	37.4	40.2	44.2	41.8	46.0

\**) Reference value.*

Basic dimensions of a multicellular structure of hexagonal netting with internal partitions

Table 7.

Drawing

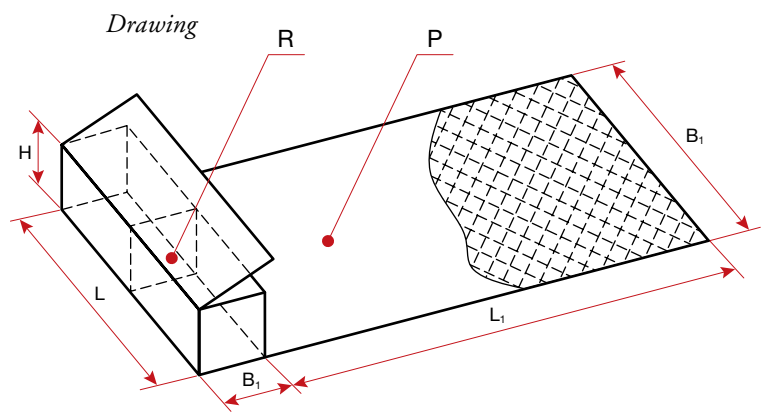


Dimensions, m			Number of internal partitions, pieces	Weight of structure*, kg, made from					
Length L	Breadth B	Height H		Zinc-coated wire				Polymer-coated wire	
				(netting wire diameter) / load binder diameter, mm					
				(2.7) / 2.2	(2.8) / 2.2	(3.0) / 2.4	(3.0) / 2.5	(2.7/3.7) / 2.4	(2.7/3.7) / 2.5
2	1	0.17	1	9.0	9.5	10.4	11.4	10.9	12.0
3	2	0.5	2	35.9	38.0	43.6	48.0	42.4	46.6
4	2	0.5	3	47.1	49.9	56.4	62.0	55.3	60.8
3	2	1	2	48.9	51.8	54.7	60.2	56.0	61.6
5	2	0.5	4	57.7	61.2	68.1	74.9	68.3	75.1
4	2	1	3	64.2	68.0	72.6	79.9	73.6	81.0
5	2	1	4	78.9	83.6	89.4	98.3	89.5	98.4

\*) Reference value.

Basic dimensions of a multicellular structure of hexagonal netting with internal partitions

Table 8.



Dimensions, m					Number of internal partitions, pieces	Weight* of structure (made from polymer-coated wire), kg
Box-like structure			Reinforcing board			
Length, L	Breadth, B	Height, H	Length, L <sub>1</sub>	Breadth, B <sub>1</sub>		(netting wire diameter) / load binder diameter, mm
						(3.0/4.0) / 2.8
2	1	1	6	2	1	54.4
R – reinforcing board made of a double-stranded netting; P – partition made of a double-stranded netting.						

\*) Reference value.