

Constructions of hexagonal netting

TU¹⁾ 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 1st 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 1st 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 1st 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 3rd 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 2nd 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.

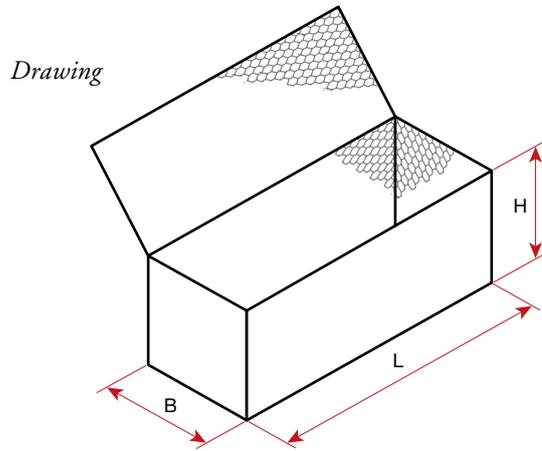
To form a construction, the netting is bent. End walls and partitions are sewn to the netting with a load binder.

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%.

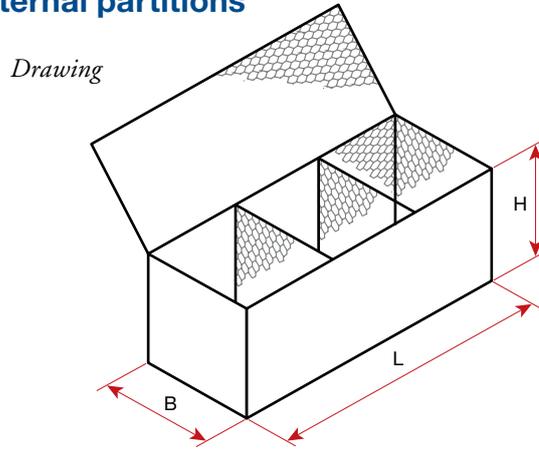


| Dimensions, m | | | Weight of structure*, kg, made from | | | | | |
|---------------|-----------|----------|----------------------------------------------------|-------------|-------------|---------------------|-----------------|-----------------|
| Length L | Breadth B | Height H | Zinc-coated wire | | | 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 |
| 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.



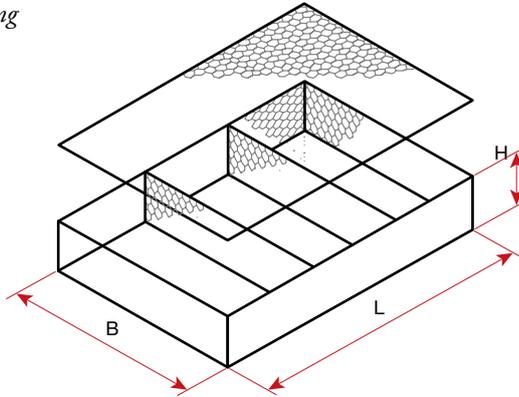
| Dimensions, m | | | Number of internal partitions, pieces | Weight of structure*, kg, made from | | | | | |
|---------------|-----------|----------|---------------------------------------|----------------------------------------------------|-------------|-------------|---------------------|-----------------|-----------------|
| 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

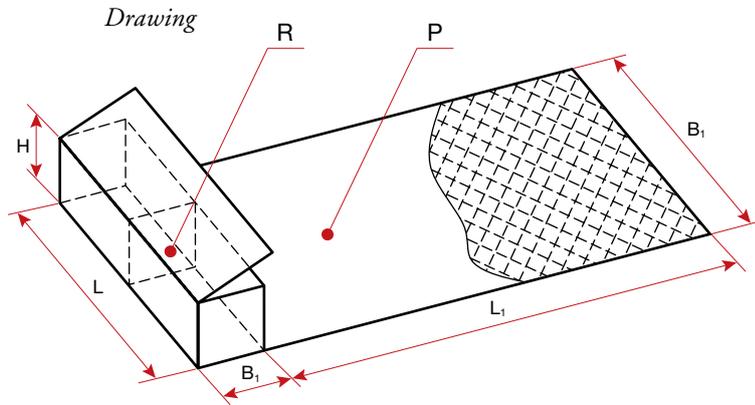


| Dimensions, m | | | Number of internal partitions, pieces | Weight of structure*, kg, made from | | | | | |
|---------------|-----------|----------|---------------------------------------|----------------------------------------------------|-------------|-------------|---------------------|-----------------|-----------------|
| 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 ₁ | Breadth, B ₁ | | |
| | | | | | | (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.