



BIOTUM® BOX CONTAINER FOR BITUMEN BINDERS

I. Description. Applied materials

BIOTUM® BOX container serves for storage and transportation of solid BIOTUM® bitumen binders. The cubic-shaped packing is a collapsible one-time use container placed on a pallet. Pallets undergo phytosanitary treatment and have appropriate marking.

BIOTUM® BOX rigid frame is made of water-resistant plywood 10 mm thick. Inside the frame there is a siliconized anti-adhesive bag designed for filling with bitumen binders. There is a corrugated cardboard top with a hole for filling. A ready-made BIOTUM® BOX is tied with four nylon bands from bottom to top. A container has a water-proof polypropylene cover to protect it from atmospheric precipitation.

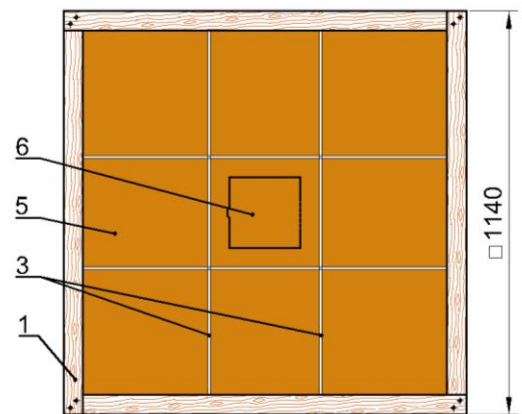
II. Dimensions. Capacity. Parameters.

Frame of a BIOTUM® BOX container is placed on a pallet, 1,14 x 1,14 m in size. Height of a container is 1,09 m including a pallet. Dimensions of a container are given in the pic. 1. Container parameters are shown in the table 1.

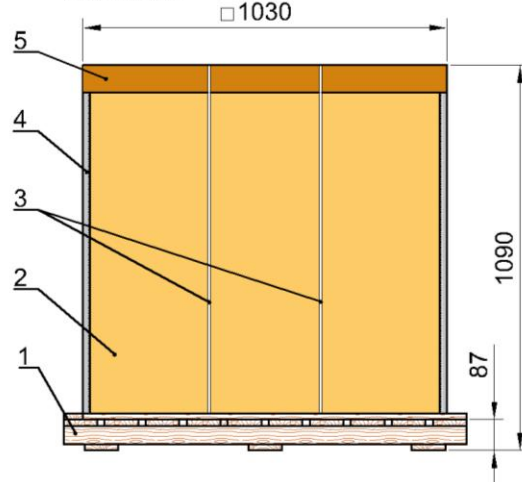
Table 1

BIOTUM® BOX PARAMETER	VALUE
Bitumen binder net weight	920 kg
Plywood frame weight	32 kg
Pallet weight	31 kg
Interlayer weight	10 kg

Top view



Front view



Pic. 1. BIOTUM® BOX container, dimensions are given in mm

1 – pallet, 2 – plywood frame, 3 – nylon bands, 4 – metal fixing shape, 5 – corrugated cardboard top, 6 – hole for filling

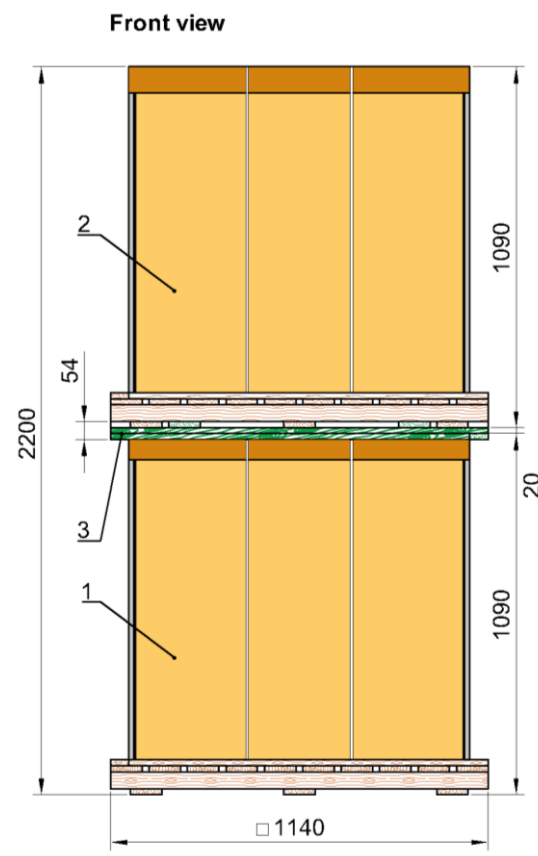
III. Storage and Transportation

Frame of a BIOTUM® BOX container can resist significant compressive loads; containers can be stored in 3 levels on an even solid ground. The packing does not deform and keeps the same shape for a long period of time even when stored in open storage grounds. For transportation and storage in several levels an interlayer must be placed on a lower container (pic. 2). Transportation in 2 levels is allowed.

BIOTUM® bitumen binders packed in BIOTUM® BOX containers are not hazardous goods, so they do not have specific requirements during transportation. Bitumen binders packed in BIOTUM® BOX containers can be transported by all means of land and sea transport. Information regarding ISO-containers loading capacity is given in the table 2.

Table 2

MEANS OF TRANSPORT	NET WEIGHT / GROSS WEIGHT	BIOTUM® BOX, pcs.
20" container Dry Cube	18 400 kg / 19 760 kg	20
40" container Dry Cube	22 080 kg / 23 592 kg	24



Pic. 2. BIOTUM® BOX containers in 2 levels, dimensions are given in mm

1 – 1st level container, 2 – 2nd level container, 3 – wooden interlayer

IV. Unpacking. Application. Recycling.

To unpack a container:

- Cut nylon bands
- Remove protective polypropylene cover
- Dismantle plywood frame
- Remove a corrugated cardboard top and an anti-adhesive bag
- Load bitumen into a receiving tank of an appropriate melting unit and heat up to required temperature

Plywood frame can be compactly folded: size of a folded container is 2000 mm x 1000 mm x 22 mm. Material of the packing can be recycled according to the local legislation.

