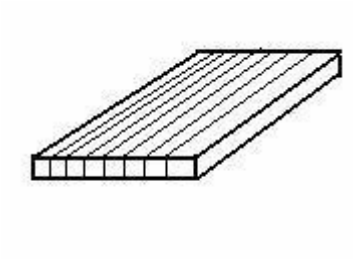
The structure of bamboo plywood

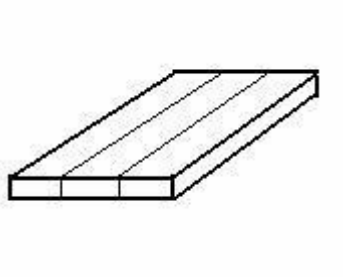
Bamboo plywood is constructed by basic single layer—LB1 vertical single layer or LB2 horizontal single layer, or multi layers built with parallel or cross LB1 and LB2. Based on the property of bamboo, the plywood is built by respecting the role of a high rate of material utilizing and the stable of the structure, as well as its purpose. Here are some structures which commonly used in the production.

Bamboo plywood size: 4’ by 8’

1. Basic structure:



LB1-1L

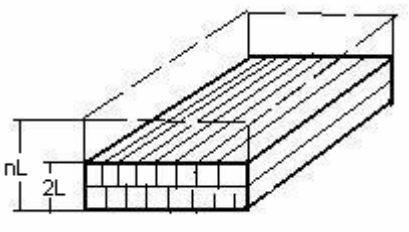


LB2-1L

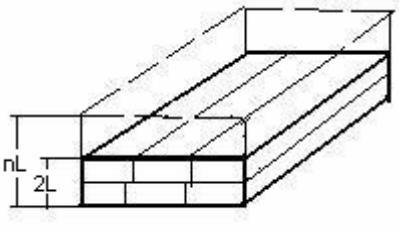
*LB1: vertical
*LB2: horizontal
*-: parallel
*1L: one layer

LB1-1L: thickness from1.5mmto 20mm (1/8” to 3/4”)
LB2-1L: thickness from 1.5mm to 5mm (1/8” to 1/5”)
Comment:
These LB1-1L and LB2-1L are normally used for back side board of cabinet or cover board of furniture, they are quite easy to be broken so don’t use them for upholding weight.

2.



LB1-2L
LB1-nL

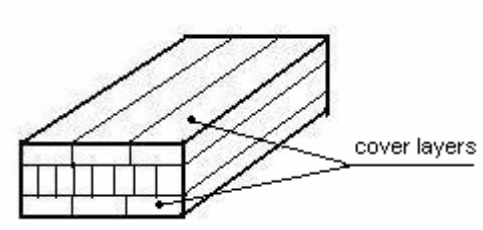


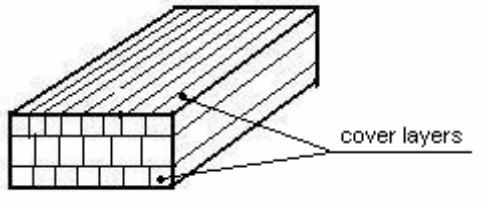
LB2-2L
LB2-nL

*nL: multi layers, the same thickness of each single layer

LB1-2L: thickness from 25mm to 36mm (1” to 1-2/5”)
LB2-2L: thickness from 8mm to 10mm (1/3” to 2/5”)
Comment:
LB1-nL and LB2-nL are recommended for making square or rectangle post or beam, or stair steps (i.e. LB1-2L and LB2-5L or LB2-6L).

3.

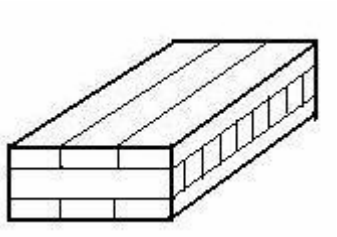


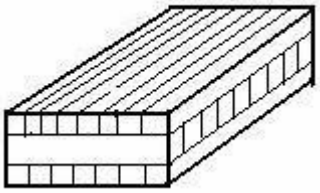


LB212-3L LB111-3L

The thickness of these two structure ranks from 16mm to 30mm (recommend 5/8” to 1-1/8”)
Comment:
The parallel structure is not suitable for the width of the product over 400mm, the product with this structure normally is used for some frame of furniture or stair steps.

4.

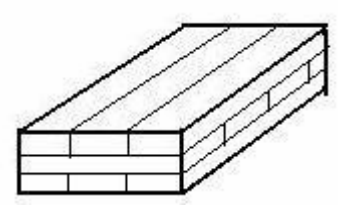


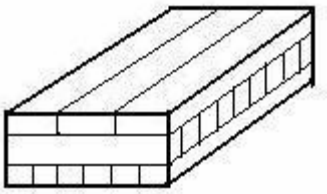


LB212x3L LB111x3L

*x: means crossed
The thickness of these two structure ranks from 16mm to 30mm (recommend 5/8” to 1-1/8”)
Comment:
LB212x3L and LB111x3L are most popular structure to make the thickness of the products with 5/8” or 3/4”, they are the most common used in furniture making.

5.

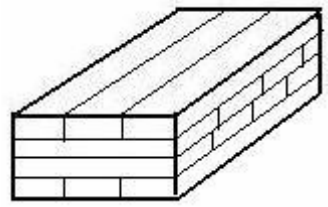


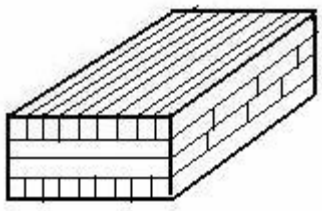


LB222x3L LB211x3L

LB222x3L: thickness ranks from 12mm to 15mm (1/2”)
LB211x3L: thickness ranks from 16mm to 30mm (5/8” to 1-1/8”)
Comment:
LB222x3L is popular to make 1/2” product, because the material is easy to get.
LB211x3L is asymmetry structure, sometimes sellers like to use it for one more option.

6.

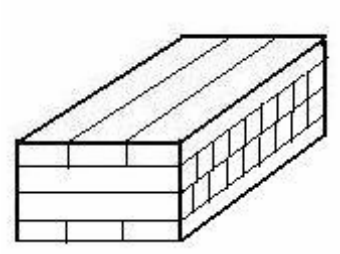


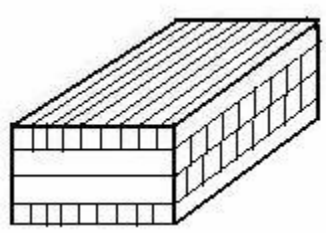


LB2222x4L LB1221x4L

The thickness of these two structure ranks from 16mm to 20mm (5/8” to 3/4”)
Comment:
LB2222x4L and LB1221x4L are sometimes to be used, because the manufacturer want use the material economic, although they are even numbers products. Normally, even numbers structure will be no problem when it to be used for doors, furniture, etc., unless it will be used for post, bean, which supports the weight, in this case odd number structure is better..

7.

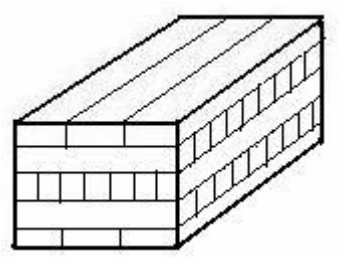




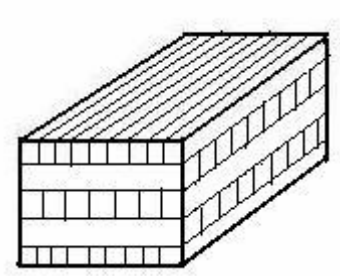
LB2112x4L LB1111x4L

the thickness of these two structure ranks from 30mm to 46mm (1-1/4” to 1-4/5”)
Comment
As the same as 6.

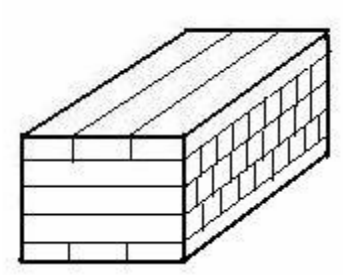
8.



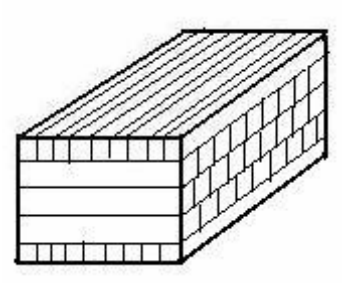
LB2(1x1x1)2x5L



LB1(1x1x1)1x5L



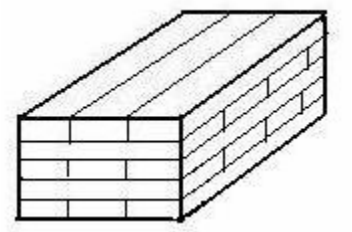
LB2(1-1-1)2x5L



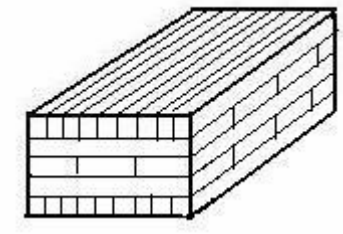
LB1(1-1-1)1x5L

The thickness of these four structure ranks from 40mm to 64mm (recommend 1-4/5”, 2-1/2”)
Comment:
All four structure are commonly to be made for the products of stair treads, doors, countertops, etc., the product cost of LB2(1-1-1)2x5L or LB1(1-1-1)1x5L is a little bit lower than LB2(1x1x1)2x5L or LB1(1x1x1)1x5L.

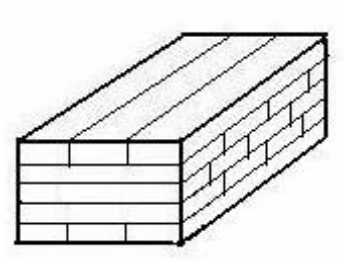
9.

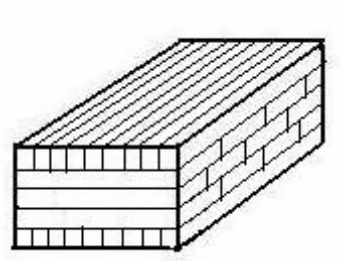


LB2(2x2x2)2x5L



LB1(2x2x2)1x5L





LB2(2-2-2)2x5L LB1(2-2-2)1x5L

The thickness of these four structure ranks from 15mm to 25mm (5/8” to 1”)
Comment:
Like most popular structure LB212x3L and LB111x3L, these four structure above are sometimes to be made for 3/4” thick panel, compare them it’s better to chose LB212x3L or LB111x3L.

10

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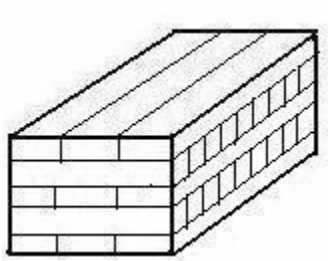
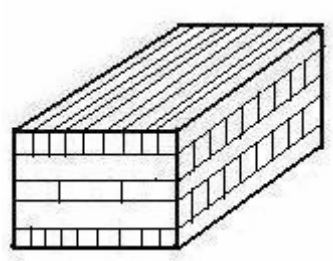
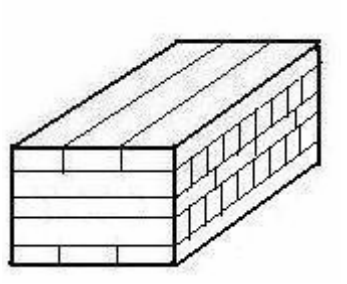
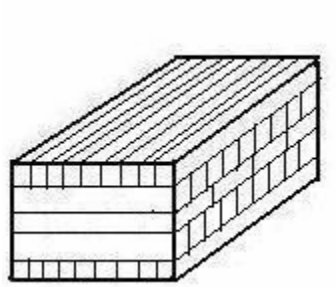




LB2(1x2x1)2x5L LB1(1x2x1)1x5L

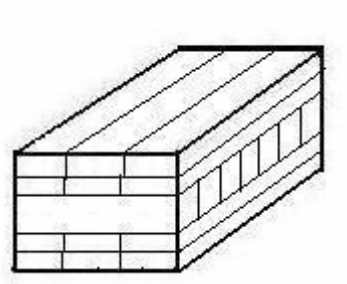


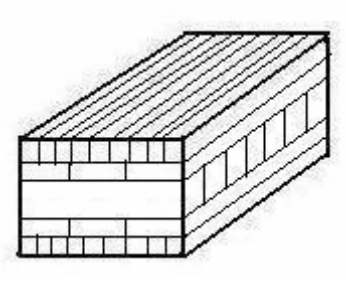


LB2(1-2-1)2x5L LB1(1-2-1)1x5L

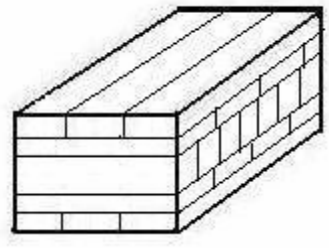
The thickness of these four structure ranks from 32 to 50 (1-1/4” to 2”)
Comment:
The products with these structure can be made for doors, stair treads, countertops, etc..

11.

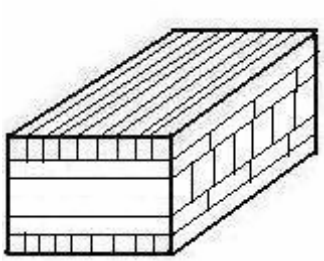




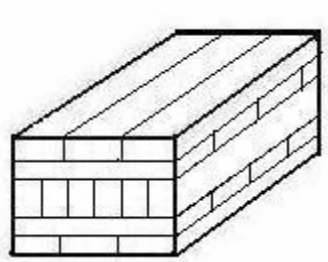
LB2(2x1x2)2-5L



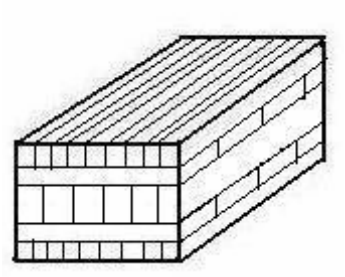
LB1(2x1x2)1-5L



LB2(2-1-2)2x5L



LB1(2-1-2)1x5L

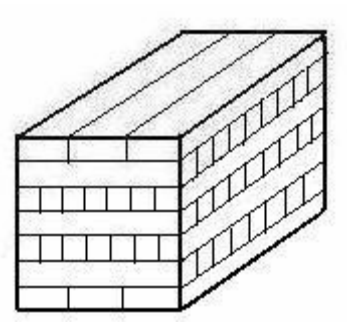


LB2(2x1x2)2x5L

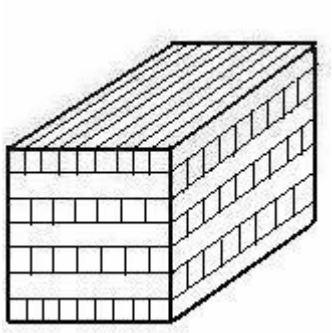
LB1(2x1x2)1x5L

The thickness of these six structure ranks from 30mm to 36mm (1-1/5” to 1-1/4”)
Comment:
The products with these structure can be made for doors, stair treads, countertops, etc..

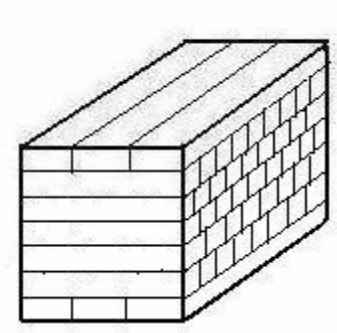
12

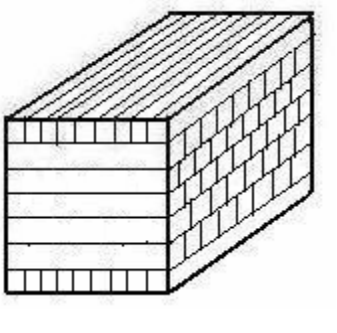


LB2(1x1x1x1x1)2x7L



LB1(1x1x1x1x1)x7L

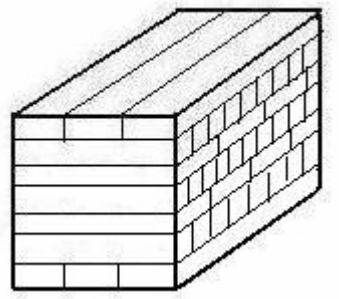


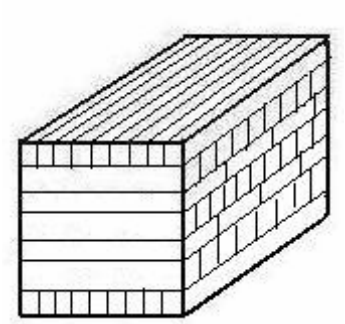


LB2(1-1-1-1-1)2x7L LB1(1-1-1-1-1)1x7L

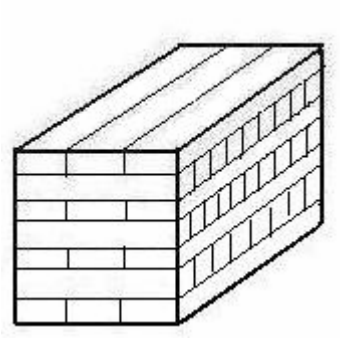
The thickness of these four structure ranks from 60mm to 100mm (2-2/5” to 4”)
Comment:
The products with these structure can be made for post, table tops, etc..

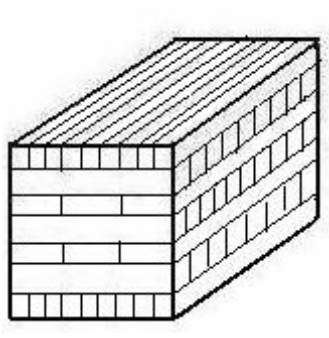
13.





LB2(1-2-1-2-1)2x7L LB1(1-2-1-2-1)1x7L

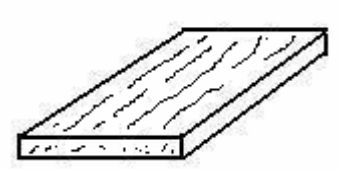


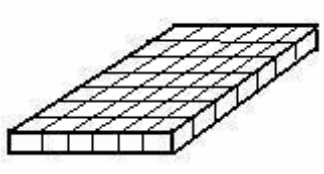


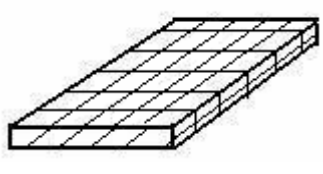
LB2(1x2x1x2x1)x7L LB1(1x2x1x2x1)1x7L

The thickness of these four structure ranks from 45mm to 70mm
Comment:
The products with these structure can made for doors, table tops, etc..

14..







LB3 LB4 LB4//

LB3: bamboo strand woven board (bamboo composite), which normally takes as the

cover layer glued with any structure of bamboo plywood above, the thickness is 3mm to 5mm when it is used for cover layer.

LB4: bamboo section board, which made by cutting LB1-nL piece by piece with 90 degree, it can be used for cover layer like LB3, or for furniture, countertop, etc.. The thickness 3mm to 5mm when it is used for cover lay, 5mm to 80mm or more is used for other purpose.

LB4//: bamboo section board, but cutting LB1-nL with a certain angle.