

## Cement-Bonded Chipboard

Cement-bonded chipboard is produced from wood chips (exclusively from pine trees) and Portland cement under special pressing methods.

## Size and thickness

<b>Standard sizes (mm)</b>	3200 x 1250, 2800 x 1250									
<b>Standard widths (mm)</b>	8	10	12	14	16	18	20	24	28	40
<b>Size tolerance (mm)</b>	± 0,7	± 0,7	± 1,0	± 1,0	± 1,2	± 1,2	± 1,5	± 1,5	± 1,5	± 1,5
<b>Density</b>	1350 ± 75 kg/m <sup>3</sup>									

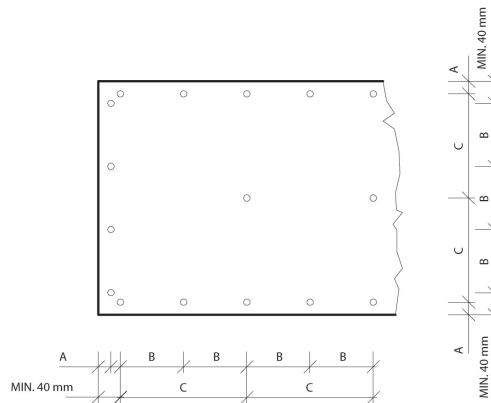
During construction, thickness tolerance must be taken into consideration.

In case of sanded boards it is about +/- 0,3mm.

Unsanded boards are smooth, sanded boards have a rough surface.

## Fixing

### Required fixing distances



### Required distances as a function of the most frequently used board thicknesses

Board thickness (mm)	Fixing distance in mm on board edge		
	A	B	C
8, 10, 12, 14	20 mm	200 mm	400 mm
16, 18, 20	25 mm	300 mm	600 mm
22, 24, 28	25 mm	400 mm	800 mm
40	40 mm	600 mm	1200 mm

When using in extraordinary climatic conditions (for example: elevators, ventilation ducts, heat chambers, cold storage areas), fixing must be made with shorter distance.

## Surface

This is not a decorative product. If boards are stored uncovered, the responsibility for the quality of the final product lies with the architect and the installers.

## Size distortion and bending

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Betonyp is weather-resistant. Equilibrium moisture content of the boards changes depending on the weather conditions, that can lead to size distortion (dimensional change).

Different climatic conditions on upper and lower surface may result in bending of the board.

After laying the product must be fixed as soon as possible.

Open pallets must be bounded again or covered with another pallet.

## Flooring

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Because of high chance of thickness tolerance with un-sanded panels, sanded boards must be utilized.

Design of the boards with tongue and groove is asymmetric and cannot be rotated freely.

As the pallet is off-loaded the bottom surface should be laid as the top surface. Because of dimensional movement of the boards expansion joint must be constructed (between the wall and the boards, in larger areas additional expansion joints are suggested for every 20-30m<sup>2</sup>).

After the laying, boards must be fixed as soon as possible.

## Ceramic covering

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Ceramic tiles cannot be stuck onto the Betonyp boards directly.

Holding construction must be very steady and sufficient expansion joint must be constructed.

An elastic material must be carried between the Betonyp boards and ceramic tiles. (for example. X P S, impregnated gypsum board, etc.)

## Steel construction

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Changing of climatic conditions can result in distortion of Betonyp and steel as well.

By inappropriate construction cracks and breaks may occur.



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