

Gypsum ceiling tile for suspended ceilings



Product description

Ceiling panel made of the plasterboard with a smooth surface and random needle perforation.
Colors – white NCS 0300.

Usage

It should be used for making coffer suspended ceilings in interiors where the relative humidity does not exceed 90%. Because of its properties the product is recommended for the following rooms: offices, hotels, schools, shopping properties, health care buildings.

Important information

Product manufactured in accordance to European Standard EN 14190.

Advantages



Fire security – CASOSTAR tiles have excellent properties in the field of reaction to fire. They are classified as the A2 material, which means „NON-INFLAMMABLE“.



Climate comfort in the room – gypsum is an excellent regulator of the air humidity. By absorbing or returning the excess of humidity gypsum softens the changes in the microclimate and protects our health.



Hygienic and cleanness – the tiles are made of gypsum, which is natural, mineral material. They do not produce dust, do not contain any dangerous fibers nor chemical organic compounds. They are safe during installation as well as during usage.



High ceiling esthetics – CASOSTAR tiles have smooth, white (or colored) surface with delicate needle perforation and they are finished with the highest quality of painting.



Durability – CASOSTAR tiles are very resistant to time flow, even in the conditions of higher humidity up to 90%. During their usage they keep stability in shape, they do not deflect nor sag and keep the original color.



Easiness of installation – CASOSTAR tiles are very easy to use in every construction of T24 or T15 grid type. High stiffness and proper weight of the boards make the grid leveling easier, whereas the high mechanical resistance limits losses and damages.



Easiness of regeneration – CASOSTAR tiles can be easily cleaned with a vacuum cleaner or with a damp cloth (sponge) or can be painted with all paints to change color as well as for renovation.



Low cost – CASOSTAR tiles are characteristic for the low price.

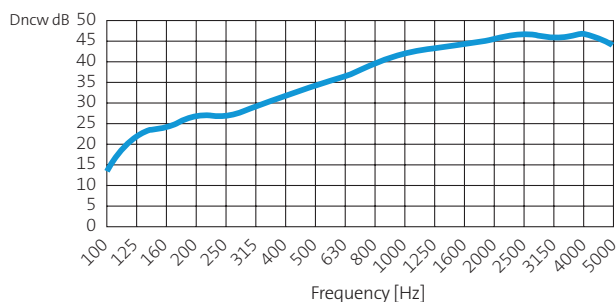
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Properties

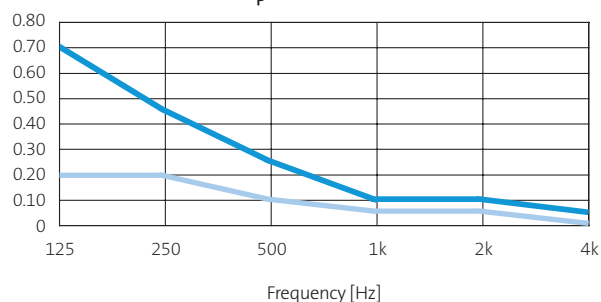
Pattern	Edge	Size [mm]	Weight [kg/m ²]	Fire reaction class	Fire reaction class α_w	Sound insulation Dncw	Humidity resistance RH	Light reflection	Thermal insulation [W/m ² K]
CASOSTAR	A	600x600x8 600x1200x8	6,20	A2	0,10*	41 dB	90%	85%	0,23

* Value of sound absorption coefficient α_w given for 200 mm ceiling distance without mineral wool.

Sound insulation



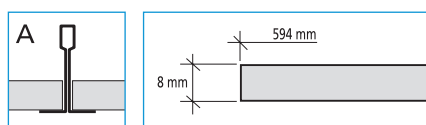
Sound absorption α_p



Particles emission class:

- ISO class 5 acc. to ISO 14644,
- Class 100 acc. to FS 209E.

Edge details



INSTALLATION. Before the start of the tiles' installation, ceiling construction (grid) should be prepared first. The installation should be started with setting the ceiling level by the optical or laser leveler. Water instrument can be used as well.

Then we fix the wall angle with the use of stretcher spikes placed every 500 mm.

Main profiles L = 3600 mm shall be positioned in a module of every 1200 mm, bearing in mind that the first and the last profiles must be detached from the wall not more than 600 mm.

After placing the main profiles we set the points for hangers (every 1200 mm), bearing in mind the fact that the distance of the first and last hanger from the wall can not be longer than 400 mm. For hanger fixing we use only metal fixing system. After mounting the main profiles (every 1200 mm) we place the long cross tees L = 1200 mm every 600 mm. Then between the long cross tees we install the short cross tees profiles L = 600 mm. In such a way we obtain the grate of 600 x 600 mm, which we fill with the ceiling tiles in 10%, and then we level it. Ceiling tiles must be put in clean, cotton gloves in order to avoid making spots.

After the process of leveling we fill the surface we all remaining tiles. At the end we make cuttings by walls.

To cut the ceiling tile properly, you should first slightly cut it at the visible side along the demanded line with the use of fixing knife, then break the tile and cut the paper on the bottom side (just like in case of the plasterboard).

Notice 1: It is recommended, that the main profiles L = 3600 mm are installed in a parallel direction to the daylight.

Notice 2: connection points of the main profiles should not come in a single line.

RENOVATION. The tiles should be cleaned with a wet cloth (sponge). In case of the strong dirt the tiles can be painted in a different color. In order to do that, the tiles should be removed from the ceiling construction, placed on a flat surface and painted with a roller or brush.

Acrylic paints are recommended. In case of different kind of paint, one should try it on a small surface first to check the accuracy of painting.

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