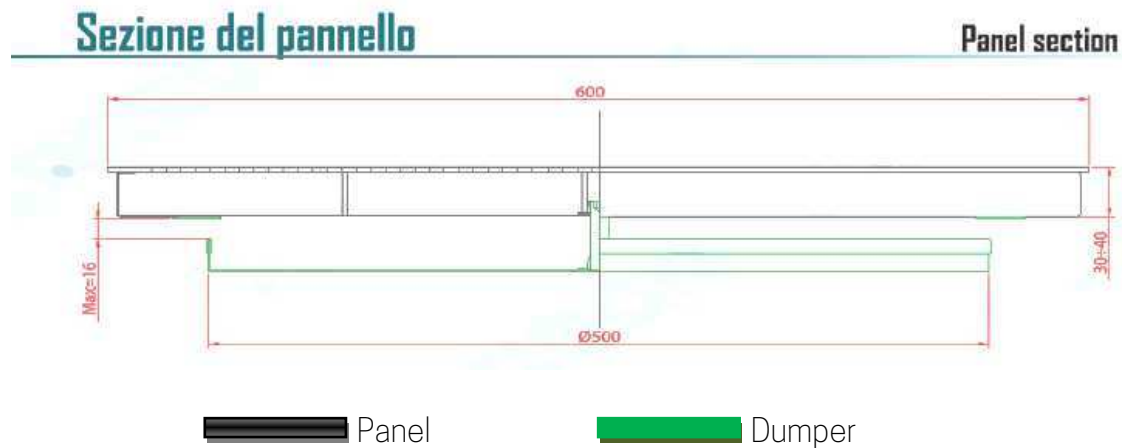


## Technical Datasheet:

### Zinc-plated Steel perforated panels



#### A. Description

Drilled panel made of zinc-coated steel and consisting of n°. 576 holes 12 mm diam. each, having an air flow section of 765 cm<sup>3</sup> corresponding to a percentage of 18%.

The a.m. panels can be provided with different covering finishes like: PVC, Linoleum, moquettes (their application is subject to preventive gluing testing).

#### B. Air flow calculation

At first we must determine the air-flow of a single panel (Q), that can be obtained from the upper diagram knowing the pressure drop ( $\Delta p$ ) and the damper shutting percentage (note that the maximum suggested air flow for a panel without damper is about 800 m<sup>3</sup>/h).

Afterwards the number of panels is calculated dividing the total air flow supply (TQ) per single panel air flow (Q) just determined:

$$X = N \text{ °of panels} = \frac{TQ}{Q} = \frac{\text{total air flow}}{\text{single panel air flow}}$$

### Examples:

Total air flow:  $TQ = 12.000 \text{ m}^3/\text{h}$

Pressure drop:  $\Delta p = 20 \text{ Pa}$

A. Simple panels (without damper)

$Q = 800 \text{ m}^3/\text{h}$

$X = 12.000 / 800 = 15 \text{ panels}$

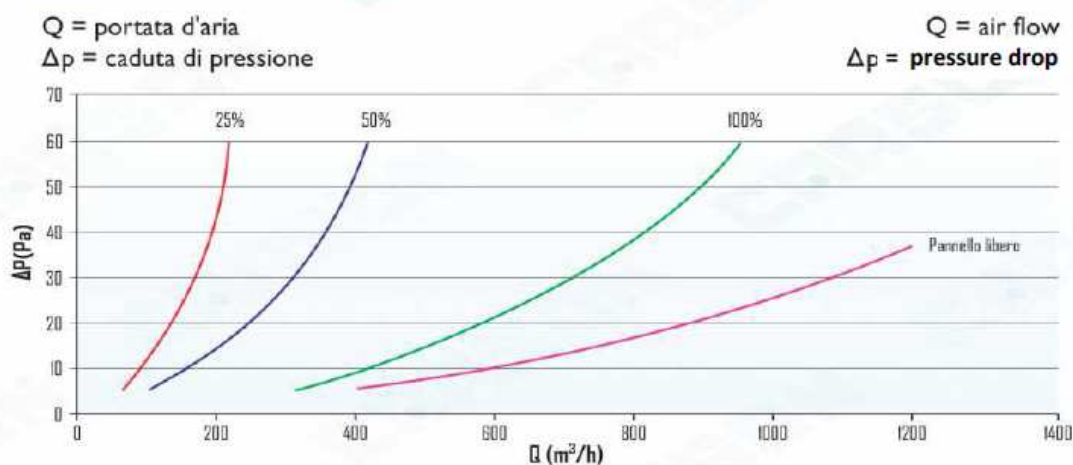
B. Panels with 50% shut damper

$Q = 240 \text{ m}^3/\text{h}$

$X = 12.000 / 240 = 50 \text{ panels}$

## Curve caratteristiche

## Charateristic curves



### C. Load bearing capacity

Load test of this panel, according to the 12825 norm, produced the following results:

Working load: 2000 N

Corresponding deflection (measured at panel's centre): 1,4 mm

Collapse load (measured at panel's centre): 10086 N

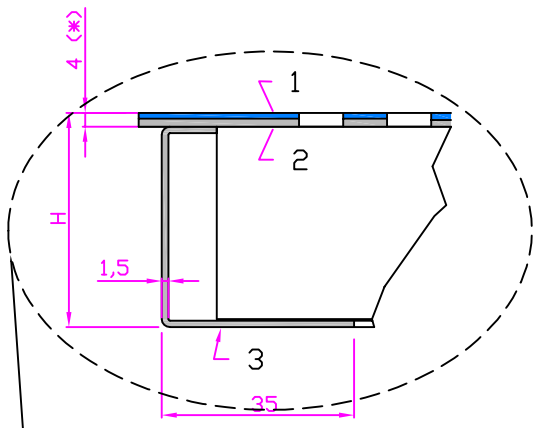
According to the norm this panel do satisfy class V load requirements.

### D. Dimensional precision

Our production process guarantees dimensional precision class 2

### E. Overall EN 12825 norm designation: 5 A 3 2





1	Finishing cover
2	Perforated steel sheet
3	Frame
4	Stiffening ribs

