

## SUSPENDED CEILINGS

## DATASHEET

### CORTEGA

### SUSPENDED CEILING BOARDS

#### PRODUCT DESCRIPTION

Mineral wool suspended ceiling boards, with fillers like: pearlite, cellulose, clay and starch. The boards are covered with dispersion paints, colorless on their back side and with white, anarchically perforated fine surface.



#### APPLICATION

ARMSTRONG suspended ceilings have a wide scope of application in building industry: in residential, administrative and industrial buildings such as offices, banks, trading centers, hotels, restaurants, sports halls, fitness centers, education buildings, etc.

#### SPECIFIC PROPERTIES OF ARMSTRONG SUSPENDED CEILINGS

- Long term aesthetic appearance;
- Notable improvement of acoustics and good indoor environment;
- Fast and easy to assemble;
- Considerable increase in fire resistance time of the buildings;
- Harmless to man, no requirements for special means of protection;
- Not an environment for rodents and micro-organisms;
- Dimensionally stable;
- Lightweight and easily handled.



#### PACKING

Cardboard boxes, with the name of the manufacturer and the basic product data printed on the label.

| DIMENSIONS, PRODUCT RANGE AND PACKING                                               |        |                |             |            |                      |                         |
|-------------------------------------------------------------------------------------|--------|----------------|-------------|------------|----------------------|-------------------------|
| Edge Details                                                                        | Symbol | Thickness (mm) | Length (mm) | Width (mm) | m <sup>2</sup> /pack | Weight / m <sup>2</sup> |
|  | Board  | 15             | 600         | 600        | 5.76                 | 3.50                    |
|                                                                                     |        | 15             | 1200        | 600        | 7.20                 | 3.50                    |
|  | Tegral | 15             | 600         | 600        | 5.76                 | 3.50                    |

| TECHNICAL PARAMETERS                                                  |                                                     |                 |      |      |                                           |      |      |                   |
|-----------------------------------------------------------------------|-----------------------------------------------------|-----------------|------|------|-------------------------------------------|------|------|-------------------|
| Typical Features                                                      | Symbol                                              | Value           |      |      | Unit                                      |      |      | Standard          |
| Reaction to fire                                                      | $A_1$                                               | Non combustible |      |      | -                                         |      |      | EN 13501-1        |
| Fire resistance of horizontal carrier construction                    | -                                                   | 60              |      |      | min                                       |      |      | EN 13501-2        |
| Relative humidity at 40° C                                            | $RH$                                                | 70              |      |      | %                                         |      |      | EN 13964          |
| Light reflection                                                      | $100\ Lux$                                          | 80              |      |      | %                                         |      |      | ISO 7724-2        |
| Stability of sizes 48h, 35°C                                          | -                                                   | ≤ 1             |      |      | %                                         |      |      | EN 1604           |
| Water absorption 24h short dipping                                    | $W_p$                                               | ≤ 1             |      |      | kg/m²                                     |      |      | EN 1609           |
| Thermal resistance coefficient                                        | $\lambda_D$                                         | 0.052 - 0.057   |      |      | W / m.K                                   |      |      | EN 12667/ISO 8302 |
| Sound absorption coefficient $\alpha_s$<br>( 20cm suspended ceiling ) | Hz                                                  | 125             | 250  | 500  | 1000                                      | 2000 | 4000 | EN ISO 20354      |
|                                                                       | $\alpha_s/\delta = 15\text{mm}$                     | 0.24            | 0.30 | 0.50 | 0.62                                      | 0.73 | 0.89 |                   |
| Average sound absorption coefficient                                  | $\alpha_w$                                          | 0.55            |      |      | -                                         |      |      | EN ISO 20354      |
| Average noise reduction coefficient                                   | $NRC$                                               | 0.55            |      |      | -                                         |      |      | ASTM C 423 REV A  |
| Acoustic insulation coefficient                                       | $D_{ncw}$                                           | 34              |      |      | dB                                        |      |      | EN ISO 20 140 - 9 |
| Bulgarian Technical Approval                                          | Protocol № 04.65 / 01.12.2004z                      |                 |      |      | SRICM, Sofia                              |      |      | EN 13 964         |
| Sanitary Permit                                                       | RD № 856/13.12.2004 by Bulgarian Ministry of Health |                 |      |      |                                           |      |      |                   |
| Quality Management System                                             | Certificate № 653562 / 07.05.2002                   |                 |      |      | Lloyd's Register Quality Assurance (LRQA) |      |      | ISO 9001:2000     |

Any information contained in this datasheet describes the product properties applicable as at the time of issue. With respect to continuous development of these materials, changes to their properties may take place from time to time.

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