

**Product Type:** MDF  
**Technical Class:** MDF.HLS  
**Commercial name:** Valchromat Fire Retardant  
**Intended use:** Construction – internal use as structural component in humid conditions  
**Manufactured by:** Valbopan – Fibras de Madeira, SA  
 Quinta do Castelo, 2450-025 Famalicão da NZR, Portugal

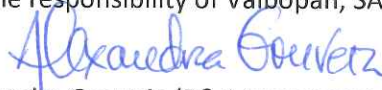
**AVCP system 1**

The notified body Certif Nr 1328 performed the determination of the product-type on the basis of type testing, calculations relating to the type, tabulated values or descriptive documentation of the product, the initial inspection of the site and control of factory production, and monitoring, evaluation and continuous appreciation of the factory production control and issued the certificate of conformity of production control at the factory: 1328-CPR-0188


| Declared Performance                                     |                     |             |      |      |      |                                |
|--|---------------------|-------------|------|------|------|--------------------------------|
| Characteristics  | Standard            | Performance |      |      |      | European Standard              |
| Thickness (mm)   | EN 622-5            | 8           | 12   | 16   | 19   | EN 13986 : 2004 +<br>A1 : 2015 |
| Density (Kg/m <sup>3</sup> )                             | EN 323              | 850         | 820  | 800  | 790  |                                |
| Bending Strength (N/mm <sup>2</sup> )                    | EN 310              | 42          | 40   | 38   | 38   |                                |
| Modulus of Elasticity (N/mm <sup>2</sup> )               | EN 310              | 3400        | 3200 | 3100 | 3100 |                                |
| Internal Bond (N/mm <sup>2</sup> )                       | EN 319              | 0,80        | 0,80 | 0,75 | 0,75 |                                |
| Swelling in Thickness (%)                                | EN 317              | 12          | 10   | 8    | 8    |                                |
| Durability – Residual Internal Bond (N/mm <sup>2</sup> ) | EN 321              | 0,30        | 0,25 | 0,20 | 0,20 |                                |
| Durability – Residual Swelling in Thickness (%)          | EN 317<br>EN 321    | 19          | 16   | 15   | 15   |                                |
| Reaction to Fire   | EN 13501-1          | B-s2, d0    |      |      |      |                                |
| Release of Formaldehyde                                  | EN 13986<br>Annex B | E1          |      |      |      |                                |
| Content of Pentachlorophenol (ppm)                       | EN 13986            | <5          |      |      |      |                                |

The performance of the product Valchromat complies with the declared performance  
 This declaration of performance is issued under the sole the responsibility of Valbopan, SA.

Signed for and on behalf of the manufacturer:

  
 Alexandra Gouveia (R&D Management)

Famalicão NZR, 14-09-2017

  
 Gisela Figueira (Quality Management)