

# Technical Data Sheet

## StoVentec Carrier Board

Render carrier board made of expanded glass granulate



### Characteristics

|                    |  |
|--------------------|--|
| <b>Application</b> | <ul style="list-style-type: none"> <li>as carrier board in the StoVentec RSC system for facade and ceiling cladding</li> </ul>   |
| <b>Properties</b>  | <ul style="list-style-type: none"> <li>mesh-reinforced on both sides</li> <li>limited combustibility</li> <li>resistant to mechanical stress</li> <li>frost-resistant</li> <li>low weight</li> </ul> |
| <b>Format</b>      | <ul style="list-style-type: none"> <li>1200 x 800 x 12 mm</li> <li>2400 x 1200 x 12 mm</li> </ul>  |

### Technical data

| Criterion  | Standard / test regulation | Value/ Unit                     | Notes |
|--|----------------------------|---------------------------------|-------|
| Water vapour diffusion resistance factor $\mu$                     | EN ISO 7783-2              | 11                              |       |
| Thermal conductivity   | DIN 52612                  | 0,09 W/(m*K)                    |       |
| Apparent density   |                            | 500 kg/m <sup>3</sup>           |       |
| Modulus of elasticity  | EN ISO 178                 | 1,200 - 1,400 N/mm <sup>2</sup> |       |
| Swelling characteristics in storage at an air temperature of 23°C  | VIAM 015 (Sto internal)    | 0.4 mm/m                        |       |
| Swelling characteristics in storage at a water temperature of 23°C | VIAM 015 (Sto internal)    | 0.4 mm/m                        |       |
| Thermal elongation change  | VIAM 020                   | 0,000008 1/K                    |       |

The characteristic values stated are average values or approx. values. We use natural raw materials in our products, which means that the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended purpose.

### Substrate

|                     |  |
|---------------------|--|
| <b>Requirements</b> | Structurally proven sub-construction: Sto-Stainless Steel/Aluminium SC or Wood SC. |
|---------------------|--|

### Application

| Consumption | Application         | Approx. consumption      |
|-------------|---------------------|--------------------------|
|             | 1200 x 800 x 12 mm  | 1.04 pcs./m <sup>2</sup> |
|             | 2400 x 1200 x 12 mm | 0.35 pcs./m <sup>2</sup> |

The material consumption depends on the application method, the axis spacing of

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the sub-construction and the division of the surface area, amongst other factors. The stated consumption values are only to be used as a guide. Where required, exact consumption values should be established on the respective project.

|                    |   |
|--------------------|---|
| <b>Application</b> | <p>The board is workable with all standard tools (knife, saw, etc.) and is screwed onto the sub-construction.</p> <p>The carrier boards are laid in a bond onto the structurally proven wood or stainless steel/aluminium sub-construction and are then tight-butted. Each carrier board/cut-to-size board must be screwed onto at least 2 supporting laths or carrier profiles.</p> <p>The carrier boards must be fixed onto the load-bearing construction with stainless steel screws. The screw heads must be flush with the board surface.</p> <p>Onto the timber sub-construction with Sto-Facade Screws 5.0 x 42 mm at:</p> <ul style="list-style-type: none"> <li>- wind load of up to 0.7 KN/m<sup>2</sup> at least 13 screws per m<sup>2</sup></li> <li>- wind load of up to 2.2 KN/m<sup>2</sup> at least 21 screws per m<sup>2</sup> must be used.</li> </ul> <p>Onto the stainless steel/aluminium sub-construction with Sto-Facade Screws 5.5 x 24 mm at:</p> <ul style="list-style-type: none"> <li>- wind load of up to 1.1 KN/m<sup>2</sup> at least 13 screws per m<sup>2</sup></li> <li>- wind load of up to 1.6 KN/m<sup>2</sup> at least 21 screws per m<sup>2</sup></li> <li>- wind load of up to 2.6 KN/m<sup>2</sup> at least 29 screws per m<sup>2</sup> must be used.</li> </ul> <p>The edge spacings of the Sto-Facade Screws must be maintained in accordance with the approval.</p> |
|--------------------|---|

|   |   |
|---|---|
| <b>Indications, recommendations, special information, miscellaneous</b> | The boards must never be exposed to permanent damp penetration or waterlogging. |
|---|---|

### Delivery

|                  |   |
|------------------|---|
| <b>Packaging</b> | - |
|------------------|---|

### Storage

|                           |                          |
|---------------------------|--------------------------|
| <b>Storage conditions</b> | Store in dry conditions. |
|---------------------------|--------------------------|

### Certificates / approvals

|             |  |
|-------------|--|
| Z-33.2-394  | StoVentec systems for external facade render<br>National technical approval            |
| Z-33.2-776  | StoVentec with ceramics, natural stone and glass mosaic<br>National technical approval |
| Z-33.2-1152 | StoVentec facade systems with glass surface<br>National technical approval             |

### Identification

|                      |                      |
|----------------------|----------------------|
| <b>Product group</b> | Render carrier board |
|----------------------|----------------------|

|                 |                                  |
|-----------------|----------------------------------|
| <b>Security</b> | Please observe safety data sheet |
|-----------------|----------------------------------|

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### Special information

The information or data serves to ensure the product's intended purpose or its suitability for use and is based on our findings and experience. Nevertheless, users are responsible for establishing the suitability of the product for its intended use. Applications other than those explicitly mentioned in this technical data sheet are only permissible after prior consultation with Sto AG. Where no approval is given, such applications are at the risk of the user. This applies in particular when the product is used in combination with other products. When a new technical data sheet is published, all previous technical data sheets are no longer valid. The latest version is available on the Internet at [www.sto.com](http://www.sto.com).

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