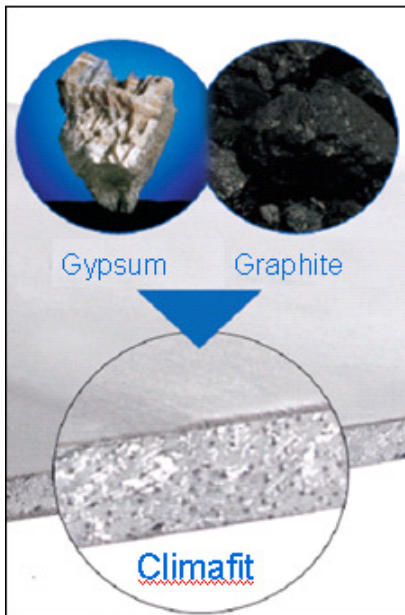


## Rigitone Climafit (perforated plasterboard)



Rigips Climafit is the first graphite modified plasterboard worldwide. Thanks to its high thermal conductivity of 0,52 W/(m·K) it is perfectly suited as a covering for modern temperature control systems such as cooling and heating ceilings, providing good sound absorption characteristics also.

In comparison to conventional plasterboards Rigips Climafit can increase the capacity of the temperature control systems by up to 30 % (in watts). It is the most effective product on the market.

Rigitone Climafit is mounted in a jointless ceiling system and thus offer a monolithic and architecturally pleasing appearance.

Rigitone Climafit boards are available with an acoustic tissue in black or white.

### Available patterns of perforation:


6/18; 8/18; 10/23; 12/25; 15/30; 12-20/66; 8/18 Q, 12/25 Q; 8-15-20; 8-15-20 super;

### Installation:

Installation should be carried out according to DIN 18168, DIN 18181 and Rigips installation guidelines. Rigips Climafit boards must be screwed using the special "Climafit Lochdeckenschraube GOLD" screws.

### Technical Data

|                       |                      |  |
|-----------------------|----------------------|--|
| <b>Proof</b>          | as per<br>EN 14190   | Plasterboards from reprocessing  |
| <b>Classification</b> | as per<br>EN 13501-1 | A2-s1,d0 (C.4)<br>non-combustible as per Building Regulations List A Part 1, Annex 0.2.2 |

|                      |                                   |   |  |
|----------------------|-----------------------------------|---|--|
| <b>Edge profiles</b> | <b>Sharp-edged on four sides.</b> | <b>designed for filling of joints with Rigips VARIO joint filler, or for gluing with jointing compound 63</b> |  |
|----------------------|-----------------------------------|---|--|

The information in this publication is based on our current technical knowledge and experience. In view of the many factors that may affect processing and application of our products, these data do not relieve the users of our products from the responsibility of carrying out their own inspections and tests, as they only represent general guidelines. They neither do imply any legally binding assurance of certain properties or of suitability for a particular application. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and regulations are observed. We reserve the right to modifications in the interests of technical advancement without prior notice.

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|                      |              |  |
|----------------------|--------------|--|
| Plasterboard marking | Edge marking | Laying technique: with filling or gluing joint, order no. , dimension, manufacturing date<br>One board side is marked with a chalk line and thereby indicates the laying direction.  |
|                      | Pallet label | The marking on the pallet label contains: <ul style="list-style-type: none"> <li>• Laying technique: with filling or gluing joint</li> <li>• order no.</li> <li>• dimension</li> <li>• manufacturing date</li> <li>• CE-marking</li> <li>• A2-s1,d0 (C.4)</li> </ul> |

|            |                        |  |   |      |
|------------|------------------------|--|---|------|
| Dimensions | Nominal thickness      |  | 10.0  | [mm] |
|            | Width                  |  | ca. 1200 (depends upon perforation)   | [mm] |
|            | Length                 |  | ca. 2000 (depends upon perforation)   | [mm] |
|            | Dimensional tolerances |  | Thickness $\pm 0.5$<br>Width $\pm 1$<br>Length $+1/-1.5$<br>Squareness $<1$ (dimensional deviation from diagonal) | [mm] |

|        |                                     |  |  |                      |
|--------|-------------------------------------|--|--|----------------------|
| Weight | Apparent density                    |  | ca. 650 - 850 (depends upon perforation) | [kg/m <sup>3</sup> ] |
|        | Weight per unit area m <sup>2</sup> |  | ca. 6.5 - 8.5 (depends upon perforation) | [kg/m <sup>2</sup> ] |

|          |                  |                |             |                      |
|----------|------------------|----------------|-------------|----------------------|
| Strength | Surface hardness | as per Brinell | ca. 10 - 18 | [N/mm <sup>2</sup> ] |
|----------|------------------|----------------|-------------|----------------------|

|      |                                |                     |                                    |           |
|------|--------------------------------|---------------------|------------------------------------|-----------|
| Heat | Thermal conductivity $\lambda$ | as per DIN EN 12664 | ca. 0.5 (depends upon perforation) | [W/(m*K)] |
|------|--------------------------------|---------------------|------------------------------------|-----------|

|          |  |         |   |               |
|----------|--|---------|---|---------------|
| Humidity | Moisture absorption / equilibrium moisture content (depending on room climate) | at 20°C | 40% RH: 0.3 - 0.6<br>60% RH: 0.6 - 1.0<br>80% RH: 1.0 - 2.0 | [% by weight] |
|          | Hygroexpansivity for a 30% change in RH  | at 20°C | 0.015   | [%]           |

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|       |   |  |             |      |
|-------|---|--|-------------|------|
| Other | Crystalline bonded water inside gypsum core |  | ca. 15 - 19 | [%]  |
|       | Thermal threshold stress (long-term load)   |  | max. 50     | [°C] |
|       | Alkalinity (pH value)                       |  | 6 - 9       | [—]  |

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