

## Technical Data Sheet redstone™ - MEGA

Multi-functional calcium silicate board for  
drywall construction and renovation

**Area of application:**

redstone™ MEGA:

- for all interior finishing purposes in wall, floor and roof construction and remodelling
- nailed, screwed or stapled to wood studs
- screwed or glued to metal studs

**System components:**

- redstone™ Special Adhesive S
- redstone™ Filler (for joint compound and surface finish)
- redstone™ Primer

**Properties:**

redstone™ MEGA is:

- an internationally patented dry construction panel with a mold resistant composition
- high strength and impact/ shock resistant
- permeable and water resistant, resulting in a vapour and capillary active surface
- pH value of 11 – mold and mildew resistant
- free of asbestos and formaldehyde, extreme temperature resistant
- environmental friendly, no harmful gas emissions; rot-proof

**Technical data:**

Material	Calcium silicate
Standard dimensions	2'-8" x 4'-0" x ½" (811 x 1220 x 12 mm)
Thickness	½ inch (12 mm)
Fire rating	non-combustible, A1
Bulk density	2561 lb/yd <sup>3</sup> (1162 kg/m <sup>3</sup> ) ± 10 %

The data contained in this document are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions or technical data etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. All former technical leaflets are replaced by this one.

Thermal conductivity	≤ 0.3 W/mK
Water vapor resistance	μ = 27
Water vapor permeability	76.0 g/(m <sup>2</sup> x 24h)
pH value	approx. 11
Flexural strength	10.5 N/mm <sup>2</sup>
Sound insulation factor	34 dB
Humidity content	4.7 %

### **Directions for use:**

It is recommended to perform a precise analysis of the structure before rebuilding (e. g. humidity analysis). Please follow the instructions in the technical data sheets of the system components.

### Pre-treatment of surface:

The mineral surface must be clean, adherent and sustainable, free of residuals (acid salts, bitumen, coatings, oil and the like) as well as mold. Contaminated materials (e. g. gypsum containing materials or wallpapers) must be removed. High absorbing surfaces should be moistened.

### Processing:

Cut MEGA board to the desired dimension. Mark the area by deeply scribing the cutting line with a cutter knife and break the board over a straight edge. Using a jigsaw with dust collection is also possible. Cut outs for pipe penetrations or outlets can be achieved with a round cutter. After the MEGA board is installed, the surface should be treated with redstone™ Primer before application of the final finish.

### Studs and Planking:

Dimensions and spacing of studs have to be in compliance with technical requirements and local code enforcements. Depending on the requirements, the planking on wood or metal studs can be achieved with one or two layers. Joints of two layer planking should be staggered. The MEGA boards can be nailed, screwed or stapled to wood studs and screwed or glued to metal studs.

### Joint Treatment:

Tapered Joints will be filled with redstone™ Filler and embedded redstone™ - Mesh 165 will prevent future cracks. After the compound is dry, it can be sanded smoothly to blend the surface of the redstone™ MEGA board.

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**Cleaning:**

Clean tools with water immediately after use.

**Content:**

50 boards per pallet; board thickness = ½" (12 mm)

**Safety Advices:**

## Caution:

- May cause irritation to eyes and skin
- Dust may irritate the respiratory system
- Keep out of reach of children
- Avoid skin contact
- Avoid contact with eyes
- Avoid prolonged inhalation of fumes
- Do not ingest

## First Aid:

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice if symptoms occur
- In case of contact with skin, wash immediately with soap and water and seek medical advice if irritation develops
- If swallowed, contact physician immediately for assistance

**Storage:**

Store in a cool (frost-free), dry and well ventilated location.

**Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations. When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.

**Material Safety Data Sheet:**

MSDS provided upon request.

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