

LEED V.4.0 DECLARATION



Please find below values which could be helpful for your certification process of a building according to LEED V.4.

Due to the fact, that LEED V.4 is not a certification of a product but a classification of a building, the manufacturer of the gypsum core board is only able to give parameters for some criteria's, which are assessed in the process of certification. The core boards for GypSorb Sonus and Strata are manufactured by Saint Gobain and the following information has been extracted from the *"LEED v4 with Saint-Gobain Gyproc, for a Sustainable Habitat"* document.

The core board is manufactured in Gelsenkirchen / Scholven, Germany and the final fabrication location is in Neustadt an der Orla, Germany

The following criteria are influenced by our products:

- MR Prerequisite: "Construction and Demolition Waste Management Planning"
- MR Credit: "Building Life-Cycle impact reduction"
- MR Credit: "Building Product disclosure and optimization – Environmental Product Declarations"
- MR Credit: "Building Product disclosure and optimization – Sourcing of raw materials"
- MR Credit: "Building Product disclosure and optimization – Material Ingredients"
- EQ Credit: "Acoustic Performance"
- EQ Credit: "Low-Emitting Materials"
- Innovation (IN)

Below are details of the mentioned criteria.

MR Prerequisite: "Construction and Demolition Waste Management Planning"

- Gypsum is 100% and infinitely recyclable. Plasterboard solutions are very much designed for deconstruction, and therefore have a high level of separability from the structure or envelope of the building. They are easy to dismantle and move. This increases the likelihood of plasterboards being sorted into recyclable dedicated streams and the reuse of insulation and metal components. Additionally, we supply multiple sizes of plasterboards and metal which eliminate waste.

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MR Credit: "Building Life-Cycle impact reduction"

- Points will be awarded for reuse of a building and new buildings with complete LCA (life cycle analysis). Points will be awarded if at least 3 points (for example acidification potential, global warming potential, use of not renewable energy) have 10% savings compared with a standard building. Environmental product declarations of the used product will be necessary for this.

MR Credit: "Building Product disclosure and optimization – Environmental Product Declarations"

- Please reference the Gypsoorb EPD Document found at www.Gypsoorb.com/technical-info

MR Credit: "Building Product disclosure and optimization – Sourcing of raw materials"

- A point will be awarded if products with high content of recycled materials was used. We use approximately 83% pre-consumer and 3% post-consumer materials for the plasterboard used for perforated plasterboard.

MR Credit: "Building Product disclosure and optimization – Material Ingredients"

- Classification of the material is necessary. Different systems of declaration are described (HPD, C2C, REACH). We do not use materials which are classified acc. to REACH or REACH candidate list to produce the plasterboard.

EQ Credit: "Acoustic Performance"

- The acoustic absorption performance will improve the sound absorption within the room, resulting in a much better quality of sound within the area concerned due to less reverberation off of "hard" surfaces. Our solutions are designed to provide sound absorption and sound reflection where required to give optimum ambiance in the space.

EQ Credit: "Low-Emitting Materials"

- Gypsoorb Sonus and Strata perforated panels are low VOC-emitting materials, (VOC emissions are close to 0) and do not emit formaldehyde or ammonia in any significantly measurable amounts. They contribute to maintaining a healthy indoor environment free of pollution and are characterized by a level of Formaldehyde and VOC emissions that is close to 0 (test according to ISO 16000). VOC emission tests conducted on our boards have proven to be compliant with the most stringent international standards.

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- **Following the French regulation on VOC & construction products** (introduced in April 2011), our solutions rank highest, scoring an A+. Formaldehydes and VOC emissions are classified according to class in this label, the limit values of the emissions' class refer to the total VOC emissions and also to the evaluation of 10 single substances (in µg/m³). As follows in the table below for the Total VOC and Formaldehydes:

Emissions Classes	C	B	A	A+
Formaldehyde	>120	<120	<60	<10
TVOC	>2000	<2000	<1500	<1000



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