

fibreC is committed to the development of aesthetic, convenient and sustainable building projects and is listed in the GreenSpec® directory as an environmentally preferable product. fibreC can be evaluated for **U.S. Green Building Council credits** under the **USBGC LEED®**.

fibreC can be evaluated as part of the entire building package, based on weighted average of all materials combined, for possible points under the following credits: **Materials and Resources** (MR 1.1, MR 1.2, MR 2, MR 3, MR 4) and **Indoor Environmental Quality** (IEQ 4.1, IEQ 4.2., IEQ 4.3, IEQ 7.1., IEQ 7.2) fibreC qualifies as an environmentally preferable product for different reasons:



MR 1.1 & MR 1.2: Building Reuse: The usage of fibreC cladding panels enables the builder to **utilize existing walls** by providing a means to create a new facade over existing structures. (1-4 possible points)

MR 2: Due to the Rieder **commitment to environmental** protection the use of **high-grade low toxicity raw materials** consisting of purely mineral substances and glassfibres guarantees optimum product quality. As fibreC is based on purely organic substances the material can be **completely recycled**. (1-3 possible Points)

MR 3: fibreC glassfibre reinforced concrete panels are individual panels which are component of wall assembly and **can be removed and reused** in other projects. Due to the life expectancy of the panels and the ability of cut them on-site, these panels can be incorporated into various elements either within the same project, or used in other projects as well. Because of its high bending tension strength of 2610 psi (18 Mpa) thanks to the glassfibres, fibreC has **a long-term durability** of over 50 years. Because of that fibreC is not only an economic, but also **a resource-saving solution** for facades. fibreC causes **low costs for maintenance or replacement and reduces total cost of ownership**. (1-2 possible Points)

MR 4: Rieder's commitment to environmental protection (ISO 14001), is demonstrated by increasing **the amount of re-used materials**. Currently fibreC consists of **55% recycled materials**. Additionally **collected rainwater is used as process water and furthermore the run-off water from our manufacturing process is also being recycled**. fibreC panels are **90% thinner than comparable concrete panels**, yet just as durable. **Significantly fewer non renewable resources** are used to create fibreC panels. The impact on a jobsite is also less during installation. (1-2 possible Points)

IEQ 4.1 & IEQ 4.2: A further sustainable benefit of fibreC is **its inherent fire resistance (non-combustible - ASTM E136 and ASTM E84 certificated)**. It requires **no additional fire protective coverings, chemical preservations or paint systems** that may release VOCs (Volatile Organic Compound), effecting internal air quality. The used hydrophobic coating is a non VOC emitting surface. Furthermore fibreC offers high levels of inherent sound insulation and acoustic performance **without the need of additional insulation materials**. (1-2 possible Points)

IEQ 7.1 & IEQ 7.2: The rear **ventilated rain screen cladding system** with fibreC is characterized by a constructive separation between insulation and outer cladding. Since the air cavity regulates the temperature of the building, the rear ventilated façade has **various advantages concerning building physics**. Due to the construction of the rear ventilated façade, fibreC cladding systems improve the performance of the building and can contribute to **savings for both heating and cooling**. (1-2 possible Points)

Since many credit categories require integration with other products, our Green Team provides consultation and direction on a project-by-project basis to maximize LEED credits.

For more information on LEED, visit www.usgbc.org/leed