

# weave™



## BREEAM Credits

In accordance with SD5078: BREEAM UK New Construction 2018 3.0

### HEA 02 – INDOOR AIR QUALITY

The insulation used for Weave carries the Greenguard label for low chemical emissions in accordance with UL 2821 to show compliance to emission limits on UL 2818 Section 7.1 and 7.2, and CDPH Standard Method VI.2-2017 using Classroom and Office Environments.

### HEA 04 – THERMAL COMFORT

Radiant cooling and heating with Weave efficiently conditions a space while maintaining a high degree of thermal comfort. As a result of the reduced supply air volume requirements associated with hydronic-air systems, air velocities are kept low, minimising draught risk. For superior thermal comfort, radiant panels work to change the operative temperature of a space including both the air temperature and the surface temperatures within the space. Weave panels have been tested to DIN EN 14240 and 14037.

### HEA 05 - ACOUSTIC PERFORMANCE

Weave radiant textile panels provide acoustic sound damping. They have been tested according to ISO 11654 and have a Weighted Sound Absorption Coefficient of 0.85 and are in Sound Absorption class B.

### ENE 01 - REDUCTION OF ENERGY USE AND CARBON EMISSIONS (MIN)

Weave radiant textile panels present energy savings of 10-40% compared to overhead VAV systems due to reduced fan energy and higher plant efficiency, as a result of higher chilled water temperatures. It is also possible to incorporate Weave as part of a mixed mode ventilation strategy, further improving overall building energy performance.

### MAT 01 - ENVIRONMENTAL IMPACT FROM CONSTRUCTION PRODUCTS – BUILDING LIFE CYCLE ASSESSMENT (LCA)

The aluminium support system and radiant textile panels can potentially be reused in new buildings. The reused system reduces the environmental impact of producing new construction products and materials. If an LCA is being

undertaken, Lindner PARC can provide the information about the potential reuse of the components and EPDs of many of the components.

### MAT 02 – ENVIRONMENTAL IMPACT FROM CONSTRUCTION PRODUCTS – ENVIRONMENT PRODUCT DECLARATIONS (EPD)

The supplier of the Weave frame extrusion is part of Aluminium Extruders Council which hold an industry EPD which conforms to ISO 14025. The EPD is based on data supplied by 11 AEC member companies, across 30 production facilities in the US and Canada.

### MAT 06 - MATERIAL EFFICIENCY

Lindner PARC is committed to promoting recycled content within our supply chain.

- Perforated aluminium – Up to 35% recycled material
- Insulation – 61% recycled material of which 27% post-consumer and 34% pre-consumer.
- Copper tubing – 58.7% recycled material.

### WST 06 – DESIGN FOR DISASSEMBLY AND ADAPTATION

The Weave panels can be disassembled and parts of the panel adapted to changing requirements. The panels and aluminium support system can be removed and repurposed in a different location. Additionally the textile can be removed and reused on a smaller sized panel.