

weave™



Weave radiant textile panels provide radiant cooling and heating in addition to acoustic sound dampening. The panels function as part of a hydronic system to provide sensible heating and cooling for superior thermal comfort.

Particularly well suited to:

Spaces with high sensible loads or high indoor air quality requirements.

Spaces with a requirement for sound absorption.

APPLICATIONS

- In ceiling applications, Weave is typically applied for 50-75% of the ceiling area. 100% coverage can also be provided with Weave or a combination of active and inactive panels.
- Weave is also available for wall applications.

STRUCTURAL FORM

- Single-layer thermally participative tensioned textile on aluminium frame and perforated aluminium sheet backed by copper coils and insulation.

DIMENSIONS

- Customised as standard from 300 x 600 mm to 1500 x 3000 mm. Mass of approximately 20 kg/m² when filled with water.

HYDRONICS

- Pure copper tube 5/8 in. (15.875 mm) OD Actual, with an allowable operating pressure of 10.34 bar (150 psi). Serpentine coil spaced evenly across width of panel. Panel to panel connections with 5/8 in. or 15 mm John Guest push fit flex hoses. Optional panel to header flex hoses based on customer requirement.

TEXTILES

- Four standard textile colour options.

FRAME PROFILE

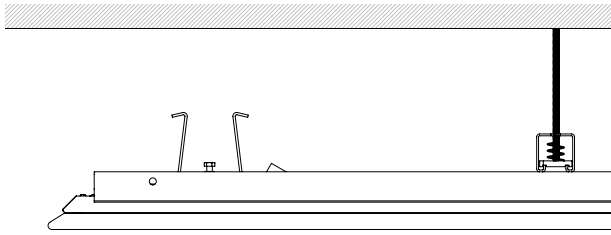
- Aluminium hollow section profile, height 49mm.

INSULATION

- Constructed with glass minerals bonded by a thermosetting binder designed specifically for thermal and acoustic performance.

ACCESSORIES

CEILING MOUNTING

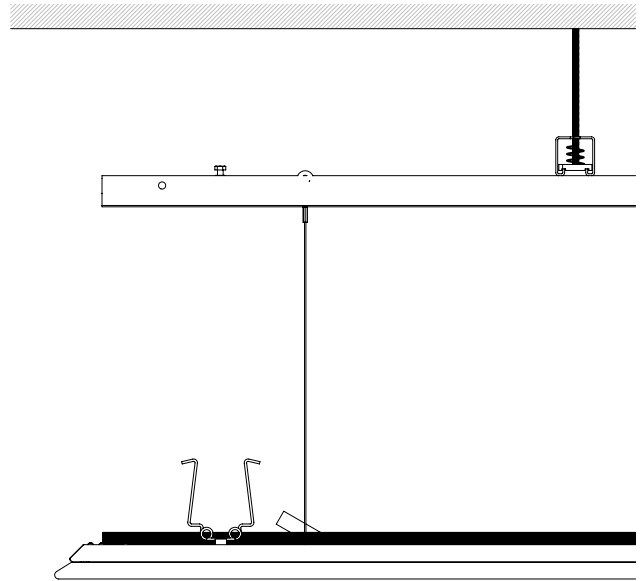


Core is specially designed to integrate with Weave to provide a simple and efficient mechanism to install the panels to a ceiling. Core allows adjustability in the distance from the panel to the face of the installation surface.

Torsion springs mounted on the Weave panel interface with slots in Core to provide a secure connection and access to individual panels.

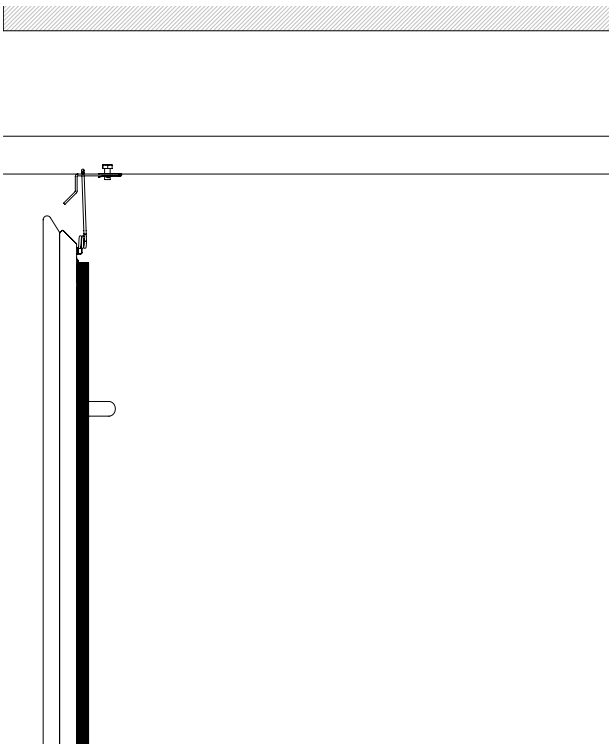
Material: steel springs, steel Core

ACCESS CABLES



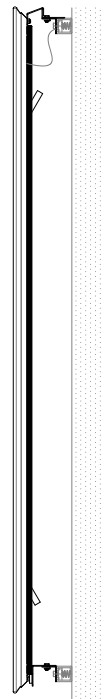
Access cables increase accessible space for ease of installation of the panels and their flex hose connections.

HINGING CAPABILITIES



Panels are permitted to hinge downward 90° as a standard with torsion spring installation in ceiling applications.

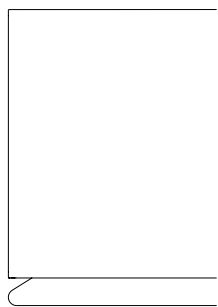
WALL MOUNTING



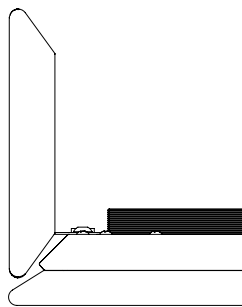
Weave panels are simply mounted to wall using a hook and magnet system. Mounting rails are supplied by PARC for mounting to a levelled Unistrut sub-frame.

ACCESSORIES

ARCHITECTURAL END CAPS



Front Profile



Side Profile

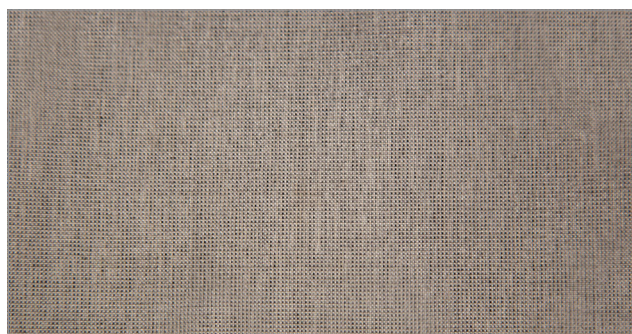
Material: aluminum extrusion, steel brackets

Can be upholstered with the same textile as the Weave panel.

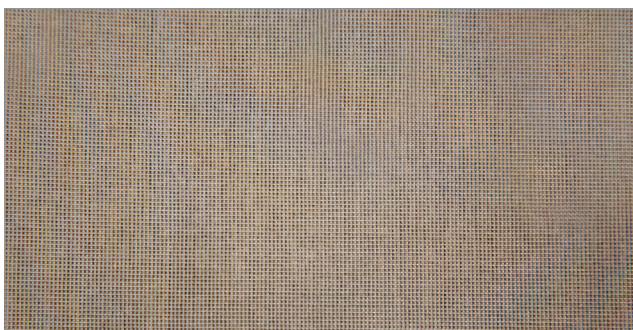
TEXTILES



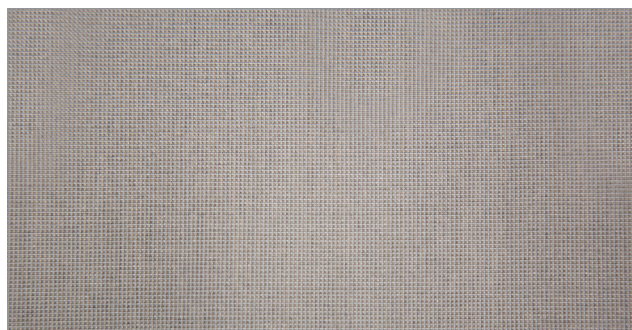
1100



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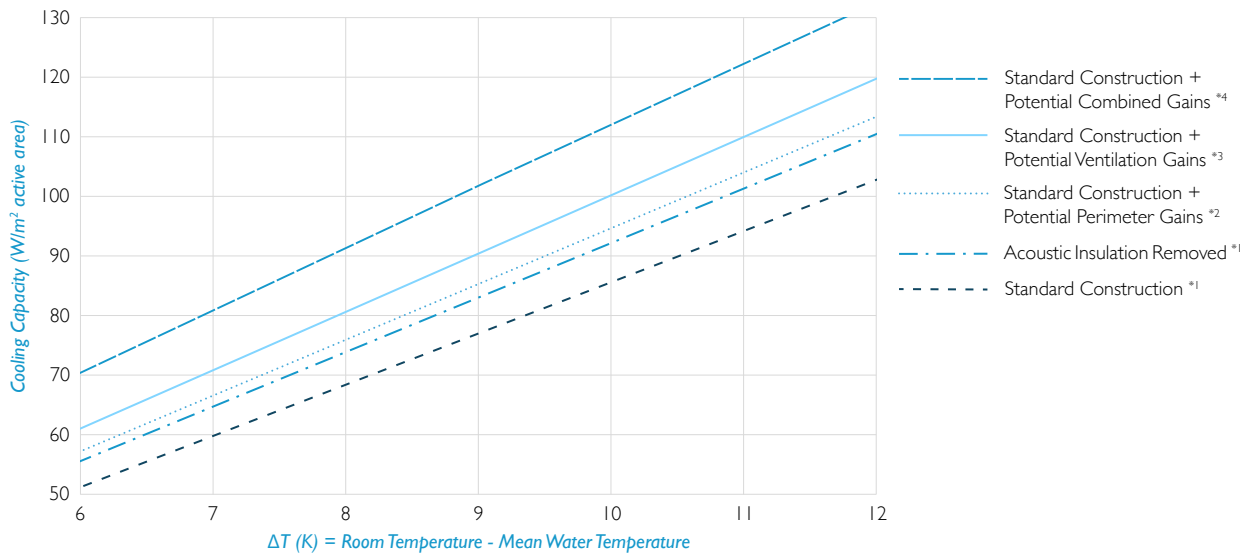
1212



1250

PERFORMANCE DATA (METRIC)

COOLING PERFORMANCE



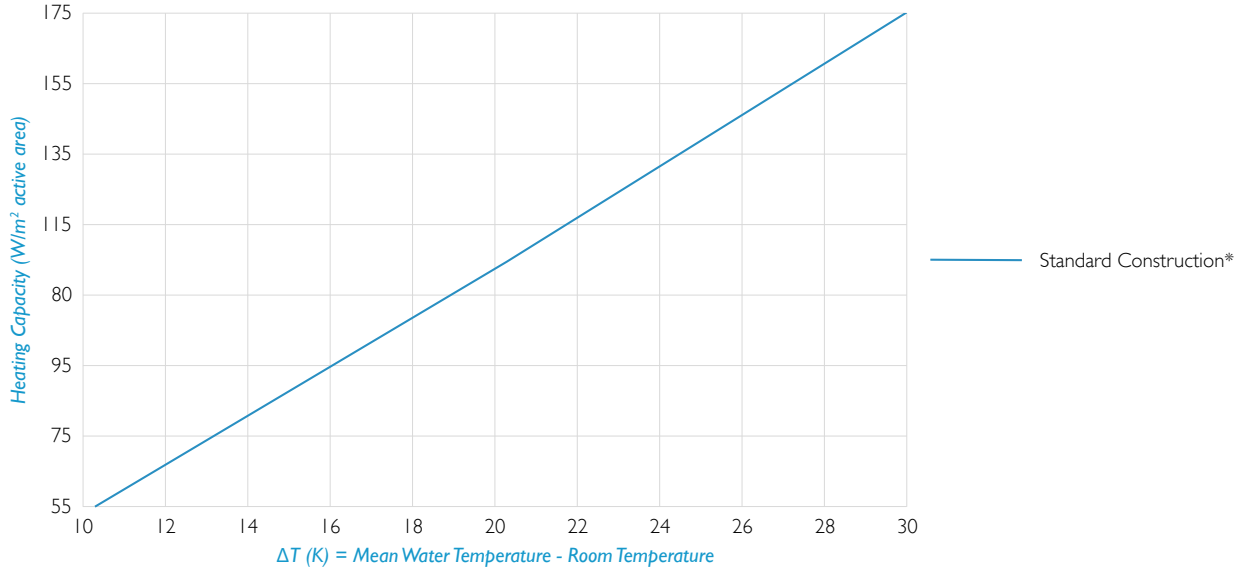
*1) Tested to DIN EN 14240 at PRCN, Winnipeg

*2) For perimeter glazing at 40°C

*3) For horizontal airflow across panel surface of 170 l/s

*4) For perimeter glazing at 40°C and horizontal airflow across panel surface of 170 l/s

HEATING PERFORMANCE

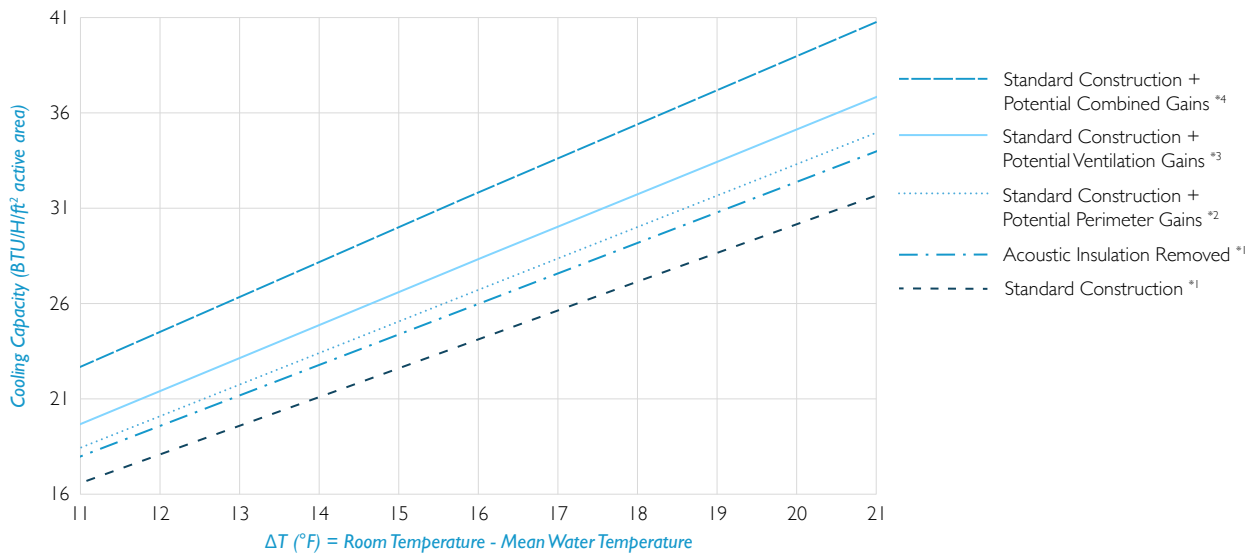


Nominal thermal output related to active area at $\Delta T = 15K$ at flow rate of 155 kg/hr; per test standard EN 14037-5:2016 is 82.6 W/m²

*Tested to DIN EN 14037 at WSP lab, Stuttgart.

PERFORMANCE DATA (IMPERIAL)

COOLING PERFORMANCE



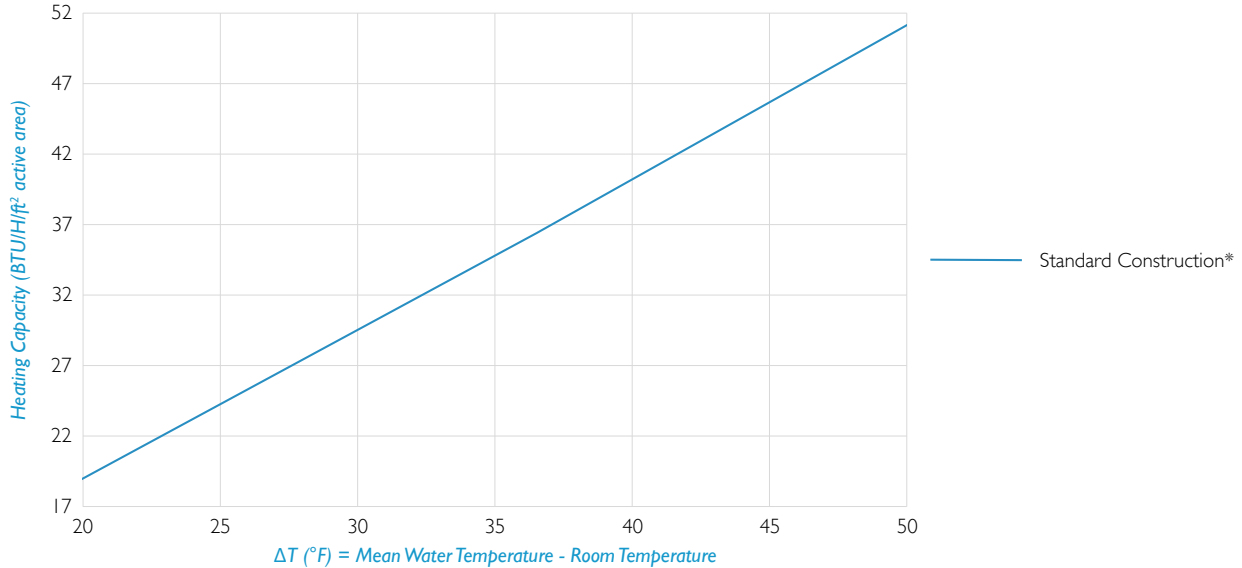
*1) Tested to DIN EN 14240 at PRCN, Winnipeg

*2) For perimeter glazing at 104°F

*3) For horizontal airflow across panel surface of 360 cfm

*4) For perimeter glazing at 104°F and horizontal airflow across panel surface of 360 cfm

HEATING PERFORMANCE

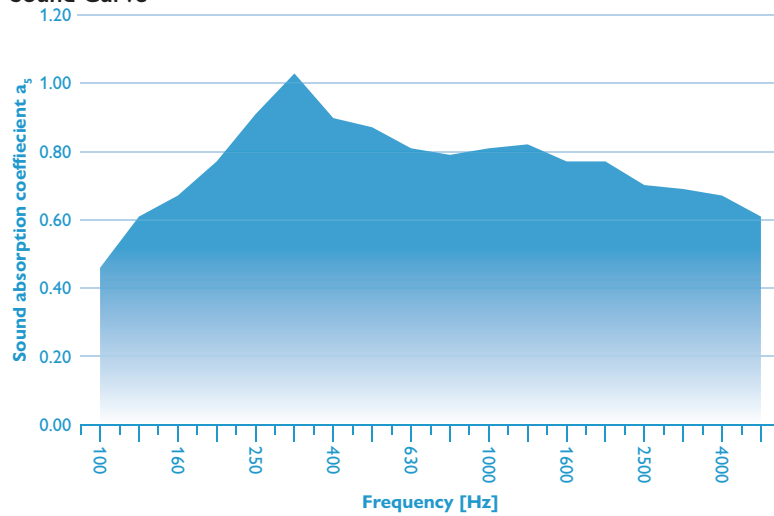


Nominal thermal output related to active area at $\Delta T = 27^\circ\text{F}$ at flow rate of 0.68 GPM, per test standard EN 14037-5:2016 is 26.2 Btu/h/ft²

*Tested to DIN EN 14037 at WSP lab, Stuttgart.

ACOUSTIC

Sound Curve



Acoustic ratings according to ISO 11654.

Weighted sound absorption coefficient = 0.80

Sound absorption class: B

NRC: 0.80

SAA: 0.82

FIRE RESISTANCE

Per clause 11 and 15 of EN 13501-1:2007+A1:2009

EU reaction to fire classification: B-S1, d0

Per ASTM E84/UL 23

Class A

Flame Spread Rating: 0

Smoke Developed Classification: 15

Per CAN/ULC S102-18

Flame Spread Index: 0

Smoke Developed Index: 45

CERTIFICATION

CE (Conformité Européenne): EN 13964:2014

Product Improvement is a continuing endeavour at PARC. Therefore, specifications are subject to change without notice. Consult your PARC Sales Representative for current specifications or more detailed information.

Last updated on: September 28, 2023