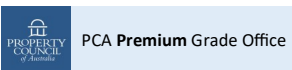


1 Elizabeth Street, Sydney



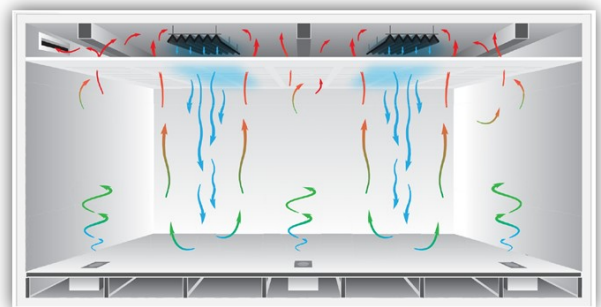
This striking new addition to the Martin Place skyline employs an innovative HVAC approach; setting new standards for occupant comfort in premium office space.

The client was an early-adopter of chilled beam technology, and the positive feedback from their staff operating in similar environments informed the engineer's design of the new build.

An all-office [Lindab Carat](#) radiant cooling system is incorporated with 100% conditioned fresh air delivered via adjustable floor diffusers and extracted at high level. The first of its kind in Australia, the local air circulation paths of the passive beams combined with their radiant cooling effect and the low-to-high extraction of exhaled air are all elements of a healthy and invigorating working environment.

The system underwent extensive project testing in 2021 and client expectations were exceeded in a number of respects, with excellent occupant comfort equating to ISO7730 Class B environment being achieved in varying design scenarios.

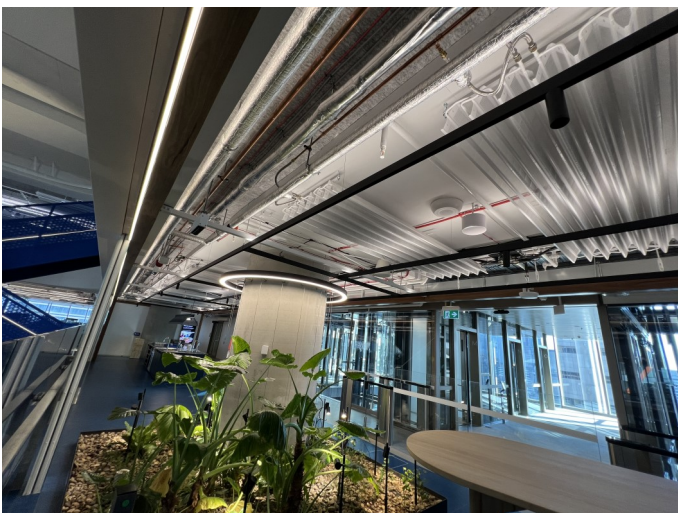
Furthermore, the Carat radiant cooling product has attained an Environmental Product Declaration (EPD) type III declaration, providing transparent and comparable information about the environmental impacts of the product, from raw material extraction through to manufacturing and end-of-life.



Location	Sydney, CBD
Product	Radiant Passive Beams
Scale	80,000 m2
Builder	Lendlease Building
Mechanical Engineer	ARUP / Lendlease
Completion	Mid 2024

* commitment

1 Elizabeth Street, Sydney



EPD
AVAILABLE



Project-specific test arrangement for 1 Elizabeth Street, installed at Lindab's 6m x 8m chilled beam test facility in Farum, Denmark.



Thermal image showing heating and cooling sources in the test rig.

Carbon Neutral

The chilled beams have been delivered to the project Carbon Neutral through the purchase and extinguishing of registered carbon offsets, equal to the upfront carbon content of the "as-built" finally installed beams for the project.

The A1-A5 upfront Carbon Impact of the project beams was calculated via a 3rd party independent process. The upfront Carbon Impact was offset 100% to achieve Carbon Neutral status utilising 100% Australian GreenFleet products.

